

MHI

DATA BOOK

Manual No. '09・KXR-DB-129

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VRF INVERTER MULTI-SYSTEM AIR CONDITIONERS (HEAT RECOVERY 3-PIPE SYSTEMS)

Alternative refrigerant R410A use models

KXR6 series (Heat recovery type)

- Single use
FDC224KXRE6, 280KXRE6, 335KXRE6
- Single use (Used also for combination)
FDC335KXRE6-K, 400KXRE6, 450KXRE6, 504KXRE6, 560KXRE6, 560KXRE6-K, 615KXRE6, 680KXRE6
- Combination use
FDC735KXRE6, 800KXRE6, 850KXRE6, 900KXRE6, 960KXRE6, 1010KXRE6,
1065KXRE6, 1130KXRE6, 1180KXRE6, 1235KXRE6, 1300KXRE6, 1360KXRE6

(INDOOR UNIT) – KX6 series –

FDT28KXE6A 36KXE6A 45KXE6A 56KXE6A 71KXE6A 90KXE6A 112KXE6A 140KXE6A 160KXE6A	FDTC22KXE6B 28KXE6B 36KXE6B 45KXE6B 56KXE6B	FDTW28KXE6 45KXE6 56KXE6 71KXE6 90KXE6 112KXE6 140KXE6	FDTS45KXE6 71KXE6	FDTQ22KXE6 28KXE6 36KXE6	FDU71KXE6 90KXE6 112KXE6 140KXE6 224KXE6 280KXE6
FDUM22KXE6 28KXE6 36KXE6 45KXE6 56KXE6 71KXE6 90KXE6 112KXE6 140KXE6	FDQS22KXE6 28KXE6 36KXE6 45KXE6 56KXE6	FDK22KXE6 28KXE6 36KXE6 45KXE6 56KXE6 71KXE6	FDE36KXE6A 45KXE6A 56KXE6A 71KXE6A 112KXE6A 140KXE6A	FDFL71KXE6	FDFU28KXE6 45KXE6 56KXE6 71KXE6
FDFW28KXE6 45KXE6 56KXE6	FDUH22KXE6 28KXE6 36KXE6				

• Note:

Regarding the Duct Connected-High static Pressure-type Outdoor Air Processing Unit
Series (FDU500~1800FKXE6), refer to the DATA BOOK No.'08・KX-DB-122

PREFACE

Combination table for KX4 series and KX6 series

() Date of launching in the market

Combinational table for RX-E series and RX-E series											
Category		Indoor unit									
		Connectable remote controller	Same series	Same series	Same series	Mixed series	Mixed series	Mixed series	Same or Mixed series	Mixed series	Same series
		3-wire type	RC-E1	KXE4 (2004.4-)	KXE4(A) (2004.6-)	KXE4A (2004.11-)	KXE4A (2004.11-)	KXE4A (2004.11-)	KXE4A (2004.11-)		
			RC-E1R				KXE4R (2006.3-) KXE4BR (2007.4-) KXE5R (2007.4-)	KXE4R (2006.3-) KXE4BR (2007.4-) KXE5R (2007.4-)		KXE4R (2006.3-) KXE4BR (2007.4-) KXE5R (2007.4-)	KXE4R (2006.3-) KXE4BR (2007.4-) KXE5R (2007.4-)
				2-wire type	RC-E3				KXE6 (2008.3-) KXE6A (2008.9-) KXE6B (2009.5-)	KXE6 (2008.3-) KXE6A (2008.9-) KXE6B (2009.5-)	
Outdoor unit											
Heat pump (2-pipe) systems	FDCA-HKXE4 5HP (2004.4-)		YES [C]	YES [C]	YES [C]	NO	NO	NO	NO	NO	NO
	FDCA-HKXE4 8-48HP (2004.4-)		NO	YES [C]	YES [C]	NO	NO	NO	NO	NO	NO
	FDCA-HKXE4A 5HP (2006.2-)		NO	YES [C]	YES [C]	YES [C] ^{*1}	NO	NO	YES [C] ^{*1}	NO	NO
	FDCA-HKXE4R 5.6HP (2006.5-)										
	FDCA-HKXE4A 8-48HP (2006.2-)										
	FDCA-HKXE4R 8-48HP (2006.5-)		NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDCA-HKXE4BR 8-48HP (2007.4-)										
	FDCA-HKXE4D 8-48HP (2008.7-)										
	FDC-KXE6 4.5,6HP (2008.3-)		NO	NO	NO	NO	NO	NO	NO	NO	YES [A] ^{*6}
FDC-KXE6 8-12HP (2009.2)		NO	NO	NO	NO	NO	NO	YES [B]	YES [B]	YES [A]	
FDC-KXE6 14-48HP (2009.1)		NO	NO	NO	NO	NO	NO	YES [B]	YES [B]	YES [A]	
Heat recovery (3-pipe) systems [Note(3)]	FDCA-HKXRE4 8-48HP (2004.11-)		NO	NO	YES [C]	NO	NO	NO	NO	NO	NO
	FDCA-HKXRE4A 8-48HP (2006.2-)										
	FDCA-HKXRE4R 8-48HP (2006.6-)										
	FDCA-HKXRE4BR 8-48HP (2007.4-)		NO	NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDCA-HKXRE4D 8-48HP (2008.7-)										
	FDC-KXRE6 8-48HP (2009.5-)		NO	NO	NO	NO	NO	NO	YES [B]	YES [B]	YES [A]

Note (1) YES: Connectable (See following table in detail), NO: Not connectable

*1 except FDKA71KXE5R

	Outdoor unit	Connected Indoor unit		Dip switch setting of outdoor unit KXE6	Superlink Protocol	Limitation
		Same series	Mixed series			
YES [A]*2	KXE6	KXE6		II (New)	New (for KX6)	New (for KX6)
YES [B]		KXE4 series	KXE6 & KXE4 series	I (Previous)	Previous (for KX4)	Previous (for KX4)
YES [C]	KXE4 series	KXE4 series	KXE4 series		Previous (for KX4)	Previous (for KX4)

*2 If Outdoor unit system (YES [A]) is connected to other outdoor unit systems (YES [B] and/or YES [C]) in one superlink network, the dip switch of outdoor unit KXE6 of (YES [A]) should be set from II(New) to I(Previous).
In this case the superlink protocol and limitation of outdoor unit system (YES [A]) are switched to Previous (for KX4).

(2) Combination with new Central control, PC windows central control and BMS interface unit

		Central control, PC windows central control and BMS interface unit					
		SC-SL1N-E	SC-SL2N-E	SC-SL3N-AE/BE	SC-WGWN-A/B	SC-LGWN-A	SC-BGWN-A/B
YES [A]	Connectable I/U	16	64	128 (128x1)	128 (64x2)*3	96 (48x2)	128 (64x2)*3
	Superlink protocol	New	New	New	New	New	New
	Connectable network	1	1	1	2	2	2
YES[B] & YES[C]	Connectable I/U	16	48	144 (48x3)	96 *4 (48x2)	96 *4 (48x2)	96 *4 (48x2)
	Superlink*5 protocol	Previous	Previous	Previous	Previous	Previous	Previous
	Connectable network	1	1	3	2	2	2

*3 Maximum number of AC Cell is limited up to 96.

In case the number of connected indoor units are more than 96, some AC Cells should hold 2 or more indoor units.

*4 In case of other Central control like SC-SLxN-E is connected in the same network, the connectable indoor unit is limited up to 64 (32x2).

*5 In case of previous superlink protocol, the superlink mode of new central control should be set "Previous".

*6 In case of YES[A], previous central control is available to use. But the limitation of connectable indoor unit and so on is complied with the rule of previous superlink.

(3) The compatibility of PFD refrigerant flow branch controller is mentioned in following table.

Connectable PFD controller		Indoor unit	
		KXE4 & KXE5 series	KXE6 series
Outdoor unit	KXRE4 series	Current one only PFD-E PFD-ER	Current *7 & New
	KXRE6 series	Current one only PFD-E PFD-ER	New one only

*7 When the current PFD controller is connected, the connector of relay kit must be connected to CnT connector (NOT CnT 2).

• Note:

All indoor unit downstream PFD box must be same series, KX6 series or KX4/5 series

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1 GENERAL INFORMATION

1.1 Specific features

(1) The new R410A refrigerant is used

The new refrigerant R410A, with an ozone destruction coefficient of zero, is used and the CO₂ discharge volume is reduced. In addition, R410A is a pseudo-azeotropic refrigerant, so there is little change in its consistency that would cause it to divide into the gas and liquid phases, or undergo temperature slide, and it is also possible to add refrigerant on-site.

(2) Connectable indoor capacity

If superlink II (new superlink) is selected, the limitations of connectable indoor capacity and connectable number of indoor unit can follow the tables mentioned below. However if superlink I (previous superlink) is selected, the limitations of connectable indoor capacity and connectable number of indoor unit should follow the limitations for KX4.

(See technical manual '07 • KX • KXR-T-114)

Capacity from 50% to 200% is possible.

Model \ Item	Number of connectable	Connectable capacity
FDC224KXRE6	1 to 20 units	112 ~ 448
FDC280KXRE6	1 to 25 units	140 ~ 560
FDC335KXRE6	1 to 30 units	167 ~ 670
FDC400KXRE6	1 to 36 units	200 ~ 800
FDC450KXRE6	1 to 40 units	225 ~ 900

Note (1) If one or more indoor units of FDK, FDFL, FDFU and/or FDFW series are connected to the system, the total connecting capacity of indoor units should not exceed 130%.

Capacity from 50% to 160% is possible.

Model \ Item	Number of connectable	Connectable capacity
FDC504KXRE6	1 to 36 units	252 ~ 806
FDC560KXRE6	1 to 40 units	280 ~ 896
FDC615KXRE6	2 to 44 units	308 ~ 984
FDC680KXRE6	2 to 49 units	340 ~ 1088
FDC735KXRE6	2 to 53 units	368 ~ 1176
FDC800KXRE6	2 to 58 units	400 ~ 1280
FDC850KXRE6	2 to 61 units	425 ~ 1360
FDC900KXRE6	2 to 65 units	450 ~ 1440
FDC960KXRE6	2 to 69 units	477 ~ 1526

Note (1) If one or more indoor units of FDK, FDFL, FDFU and/or FDFW series are connected to the system, the total connecting capacity of indoor units should not exceed 130%.

Capacity from 50% to 130% is possible.

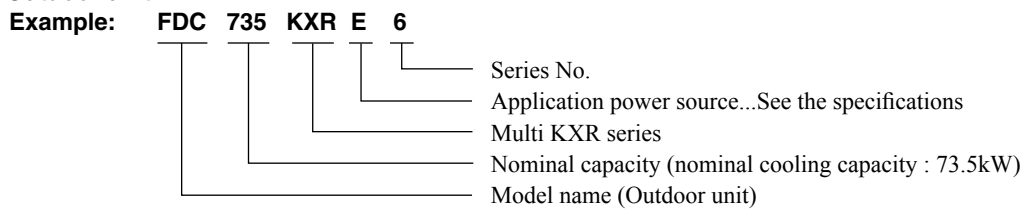
Model \ Item	Number of connectable	Connectable capacity
FDC1010KXRE6	2 to 59 units	504 ~ 1311
FDC1065KXRE6	2 to 62 units	532 ~ 1384
FDC1130KXRE6	2 to 66 units	560 ~ 1456
FDC1180KXRE6	3 to 69 units	588 ~ 1528
FDC1235KXRE6	3 to 72 units	615 ~ 1599
FDC1300KXRE6	3 to 76 units	650 ~ 1690
FDC1360KXRE6	3 to 80 units	680 ~ 1768

Note

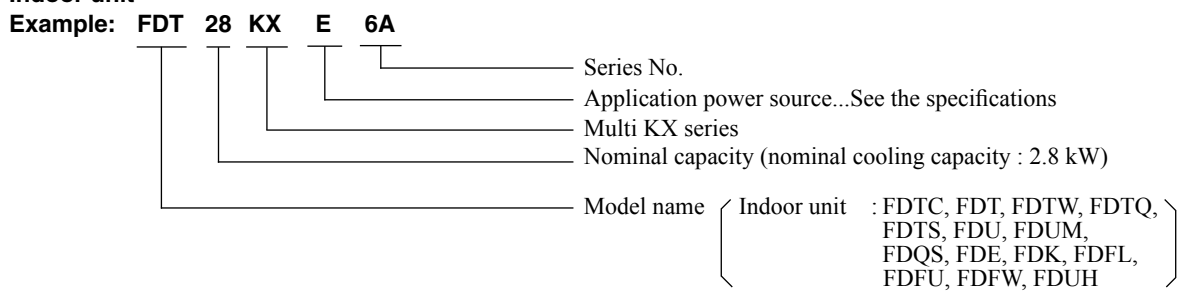
- This unit complies with EN61000-3-11
- For outdoor unit, EN61000-3-2 and EN61000-3-12 are not applicable as consent by the utility company or notification to the utility company is given before usage.

1.2 How to read the model name

(1) Outdoor unit



(2) Indoor unit



1.3 Table of models

Model \ Capacity	22	28	36	45	56	71	90	112	140	160	224	280
Ceiling cassette-4 way type (FDT)		○	○	○	○	○	○	○	○	○		
Ceiling cassette-4 way compact type (FDTC)	○	○	○	○	○							
Ceiling cassette-2 way type (FDTW)		○		○	○	○	○	○	○			
Ceiling cassette-1 way type (FDTs)				○		○						
Ceiling cassette-1 way compact type (FDTQ)	○	○	○									
Duct connected-High static pressure type (FDU)						○	○	○	○		○	○
Duct connected-Middle static pressure type (FDUM)	○	○	○	○	○	○	○	○	○			
Duct connected (Ultra thin)-Low static pressure type (FDQS)	○	○	○	○	○							
Wall-mounted type (FDK)	○	○	○	○	○	○						
Ceiling suspended type (FDE)			○	○	○	○		○	○			
Floor standing (with casing) type (FDL)						○						
Floor standing (without casing) type (FDU)		○		○	○	○						
Floor standing-2 way type (FDFW)		○		○	○							
Duct connected-compact and Flexible type (FDUH)	○	○	○									
Outdoor units to be combined (FDC)	FDC224KXRE6~335KXRE6, FDC335KXRE6-K, FDC400KXRE6 ~ 560KXRE6, FDC560KXRE6-K, FDC615KXRE6 ~ 1360KXRE6											

1.4 Table of indoor units panel (Optional)

Model		Parts Model
FDTC	Capacity:22,28,36,45,56	TC-PSA-25W-E
FDT	Capacity:28,36,45,56,71,90,112,140,160	T-PSA-36W-E
FDTW	Capacity:28,45,56	TW-PSA-24W-E
	Capacity:71,90	TW-PSA-34W-E
	Capacity:112,140	TW-PSA-44W-E
FDTQ (Direct blow panel)	Capacity:22,28,36	TQ-PSA-15W-E
		TQ-PSB-15W-E
FDTQ (Duct panel)	Capacity:22,28,36	QR-PNA-14W-ER
		QR-PNB-14W-ER
FDTs	Capacity: 45	TS-PSA-29W-E
	Capacity:71	TS-PSA-39W-E

1.5 Outdoor units combination table

If superlink II (new superlink) is selected, the limitations of connectable indoor capacity and connectable number of indoor unit can follow the tables mentioned below. However if superlink I (previous superlink) is selected, the limitations of connectable indoor capacity and connectable number of indoor unit should follow the limitations for KX4.

(See technical manual '07 • KX • KXR-T-114)

(a) Models FDC735, 800, 850, 900KXRE6

Item Models	Combination outdoor unit models			Indoor unit	
	FDC335KXRE6-K	FDC400KXRE6	FDC450KXRE6	Connectable capacity ⁽¹⁾	Number of connectable units
FDC735KXRE6	1	1	—	368 ~ 1176	2 to 53 units
FDC800KXRE6	—	2	—	400 ~ 1280	2 to 58 units
FDC850KXRE6	—	1	1	425 ~ 1360	2 to 61 units
FDC900KXRE6	—	—	2	450 ~ 1440	2 to 65 units

Note (1) If one or more indoor units of FDK, FDFL, FDFU and/or FDFW series are connected to the system, the total connecting capacity of indoor units should not exceed 130%.

(b) Models FDC960, 1010, 1065, 1130, 1180, 1235, 1300, 1360KXRE6

Item Models	Combination outdoor unit models						Indoor unit	
	FDC450 KXRE6	FDC504 KXRE6	FDC560 KXRE6	FDC560 KXRE6-K	FDC615 KXRE6	FDC680 KXRE6	Connectable capacity	Number of connectable units
FDC960KXRE6 ⁽¹⁾	1	1	—	—	—	—	477 ~ 1526	2 to 69 units
FDC1010KXRE6	—	2	—	—	—	—	504 ~ 1311	2 to 59 units
FDC1065KXRE6	—	1	1	—	—	—	532 ~ 1384	2 to 62 units
FDC1130KXRE6	—	—	2	—	—	—	560 ~ 1456	2 to 66 units
FDC1180KXRE6	—	—	—	1	1	—	588 ~ 1528	3 to 69 units
FDC1235KXRE6	—	—	—	—	2	—	615 ~ 1599	3 to 72 units
FDC1300KXRE6	—	—	—	—	1	1	650 ~ 1690	3 to 76 units
FDC1360KXRE6	—	—	—	—	—	2	680 ~ 1768	3 to 80 units

Note (1) If one or more indoor units of FDK, FDFL, FDFU and/or FDFW series are connected to the system, the total connecting capacity of indoor units should not exceed 130%.

(c) Outdoor unit side branch pipe set (Optional)

Outdoor unit	Branch pipe set
For two units (for 735 ~ 1360)	DOS-2A-1-R

Note (1) Be sure to use this when combining units.

(d) Branch pipe set (Optional)

In the upstream of a branching controller

Total capacity downstream	Branching pipe set
Less than 180	DIS-22-1-R
180 or more but less than 371	DIS-180-1-R
371 or more but less than 540	DIS-371-2-R
540 or more	DIS-540-2-R

In the downstream of a branching controller

Total capacity downstream	Branching pipe set
Less than 180	DIS-22-1
180 or more but less than 371	DIS-180-1
371 or more but less than 540	DIS-371-1
540 or more	DIS-540-1

(e) Branching controller model (Optional)

Total capacity downstream	Branching controller model	Number of connectable units
Less than 112	PFD1123-E	1 ~ 5
112 or more but less than 180	PFD1803-E	1 ~ 8
180 or more but less than 280	PFD2803-E	1 ~ 10

• Restriction on the number of branching controuers to be connected to the outdoor unit

Outdoor unit	Minimum number of connectable units	Outdoor unit	Minimum number of connectable units
~280(10HP)	2 units	~1130(40HP)	8 units
~560(20HP)	4 units	~1360(48HP)	10 units
~850(30HP)	6 units	—	—

(f) Integrated branching controller (Optional)

Model	Total of four branches		Per branch	
	Capacity restrictions	Maximum number of connectable units	Capacity restrictions	Maximum number of connectable units
PFD1123X4-E	Less than 371	16	Less than 112	5

Note (1) An indoor unit with a capacity up to 112 can be connected. Refer to page 342 for details.

2 OUTDOOR UNITS

2.1 Specifications

• Single (Used also for combination)

OUTDOOR UNIT (FDC)

Models			FDC224KXRE6	FDC280KXRE6	FDC335KXRE6	FDC335KXRE6-K	FDC400KXRE6	FDC450KXRE6	FDC504KXRE6	FDC560KXRE6	FDC560KXRE6-K	FDC615KXRE6	FDC680KXRE6	
Nominal cooling capacity*1		kW	22.4	28.0	33.5	33.5	40.0	45.0	50.4	56.0	56.0	61.5	68.0	
Nominal heating capacity*2			25.0	31.5	37.5	37.5	45.0	50.0	56.5	63.0	63.0	69.0	73.0	
Power source			3 Phase 380/415V 50Hz / 380V 60Hz											
Power consumption	Cool	kW	5.90	8.08	9.98	9.47	11.61	13.49	15.18	17.95	17.95	21.47	25.99	
	Heat		5.90	8.11	9.55	9.37	11.93	13.32	15.12	16.79	16.79	19.11	19.69	
Running current	Cool	A	9.1/8.3	12.9/11.7	15.9/14.8	15.4/14.1	19.0/17.4	21.6/19.8	23.8/21.8	28.4/26.0	28.4/26.0	34.7/31.8	44.9/41.1	
	Heat		9.2/8.4	12.8/11.8	15.5/14.2	15.5/14.2	19.9/18.2	22.0/20.1	25.2/23.1	28.0/25.7	28.0/25.7	31.6/28.9	34.0/31.1	
Power factor	Cool	%	98/99	95/96	95/94	93/93	93/93	95/95	97/97	96/96	96/96	94/94	88/88	
	Heat		97/98	96/96	94/94	92/92	91/91	92/92	91/91	91/91	91/91	92/92	88/88	
Sound Pressure Level		dB (A)	57/57	58/59	62/63	59/59.5	60/60	62.5/62.5	62/62	63.5/63.5	63.5/63.5	64/64.5	65.5/65.5	
Exterior dimensions Height × Width × Depth		mm	1690 × 1350 × 720						2048 × 1350 × 720					
Exterior appearance (Munsell color)			Stucco white (4.2Y7.5/1.1 near equivalent)											
Net weight		kg	252	252	256	337	337	337	361	361	375	375	375	
Refrigerant equipment compressor type & Qty			GTC5150NH45K		GTDS160NH45K	GTC5150NH48L × 2					GTD5160NH48L × 2			
Motor		kW	3.98 × 1	6.06 × 1	6.75 × 1	3.16 × 2	3.26 × 2	4.40 × 2	4.98 × 2	6.06 × 2		7.01 × 2	7.75 × 2	
Starting method			Direct line starting											
capacity control		%	24-114	19-109	22-103	18-130	14-113	13-109	11-107	9-107	14-113	13-110	12-100	
Crankcase heater		W	33 × 2											
Refrigerant equipment Heat exchanger			Straight fin & inner grooved tubing											
Refrigerant control			Electronic expansion valve											
Refrigerant			R410A											
Quantity		kg	8.7	9.9	11.4	11.5								
Refrigerant oil		l	4.4 (M-MA32R)											
Defrost control			Microcomputer controlled De-Icer											
Air handling equipment fan type & Qty			Propeller fan × 2											
Motor		W	126 × 2		386 × 2									
Starting method			Direct start											
Air flow (Standard)		CMM	220/180		280/260	220/180	250/220	260/240	270/250					
External static pressure		Pa	Max.50											
Shock & vibration absorber			Rubber mount (for compressor)											
Safety equipment			Compressor overheat protection / overcurrent protection / power transistor overheating protection / abnormal high pressure protection											
Installation data Refrigerant piping size		mm (in)	Liquid line : φ9.52 (3/8")			Liquid line : φ12.7 (1/2")								
			Suction gas line : φ19.05 (3/4")		Suction gas line : φ22.22 (7/8")		Suction gas line : φ25.4 (1") (φ22.22 (7/8"))		Suction gas line : φ28.58 (1 1/8")					
			Discharge gas line : φ15.88 (5/8")		Discharge gas line : φ19.05 (3/4")			Discharge gas line : φ22.22 (7/8")					Discharge gas line : φ25.4 (1") (φ22.22 (7/8"))	
Connecting method			Liquid line : Flare / Suction gas line : Brazing / Discharge gas line : Brazing											
Drain			Hole for drain (φ20 × 6pcs , φ45 × 3pcs)											
Insulation for piping			Necessary (Liquid & Suction gas & discharge gas)											
Accessories			-	-	-	-	-	-	-	-	-	-	-	
Exterior dimensions			PCB003Z074	PCB003Z074	PCB003Z074	PCB003Z075	PCB003Z075	PCB003Z075	PCB003Z076	PCB003Z076	PCB003Z076	PCB003Z076	PCB003Z076	
Electrical wiring			PCB003Z077	PCB003Z077	PCB003Z077	PCB003Z078	PCB003Z078	PCB003Z078	PCB003Z078	PCB003Z078	PCB003Z078	PCB003Z078	PCB003Z078	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C	-	7 °C	6 °C	

- (2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"
- (3) Refrigerant piping size applicable to European installations are shown in parentheses.

Adapted to RoHS directive

PCB003Z073



OUTDOOR UNIT (FDC) COMBINATION

Models			FDC735KXRE6	FDC800KXRE6	FDC850KXRE6	FDC900KXRE6	FDC960KXRE6	FDC1010KXRE6
Combination unit			FDC335KXRE6-K FDC400KXRE6	FDC400KXRE6 FDC400KXRE6	FDC400KXRE6 FDC450KXRE6	FDC450KXRE6 FDC450KXRE6	FDC450KXRE6 FDC504KXRE6	FDC504KXRE6 FDC504KXRE6
Power source			3 Phase 380-415V 50Hz/380V 60Hz					
Nominal cooling capacity*1		kW	73.5	80.0	85.0	90.0	96.0	101.0
Nominal heating capacity*2			82.5	90.0	95.0	100	108.0	113.0
Power consumption	Cool	kW	21.08	23.22	25.1	26.98	28.67	30.36
	Heat		21.3	23.86	25.25	26.64	28.44	30.24
Running current	Cool	A	34.4/31.5	38.0/34.8	40.6/37.2	43.2/39.6	45.4/41.6	47.6/43.6
	Heat		35.4/32.4	39.8/36.4	41.9/38.3	44.0/40.2	47.2/43.2	50.4/46.2
Power factor	Cool	%	93/93	93/93	94/94	95/95	96/96	97/97
	Heat		91/91	92/91	92/92	92/92	92/92	91/91
Net weight		kg	674	674	674	674	698	722
Refrigerant piping size	Liquid line	mm (in)	Liquid line : ϕ 15.88 (5/8")					
	Suction gas line		Suction gas line : ϕ 31.75 (1 \cdot 1/4") (ϕ 34.92 (1 \cdot 3/8")) Suction gas line : ϕ 38.1 (1 \cdot 1/2") (ϕ 34.92 (1 \cdot 3/8"))					
	Discharge gas line		Discharge gas line : ϕ 28.58 (1 \cdot 1/8")					
	Oil equalization		ϕ 9.52 (3/8")					

• Combination type

Models		FDC1065KXRE6	FDC1130KXRE6	FDC1180KXRE6	FDC1235KXRE6	FDC1300KXRE6	FDC1360KXRE6
Combination unit		FDC504KXRE6 FDC560KXRE6	FDC560KXRE6 FDC560KXRE6	FDC560KXRE6-K FDC615KXRE6	FDC615KXRE6 FDC615KXRE6	FDC615KXRE6 FDC680KXRE6	FDC680KXRE6 FDC680KXRE6
Power source		3 Phase 380-415V 50Hz/380V 60Hz					
Nominal cooling capacity*1	kW	106.5	113.0	118.0	123.5	130.0	136.0
Nominal heating capacity*2		119.5	127.0	132.0	138.0	142.0	146.0
Power consumption	Cool	33.13	35.9	39.42	42.94	47.46	51.98
	Heat	31.91	33.58	35.9	38.22	38.8	39.38
Running current	Cool	52.2/47.8	56.8/52.0	63.1/57.8	69.4/63.6	79.6/72.9	89.8/82.2
	Heat	53.2/48.8	56.0/51.4	59.6/54.6	63.2/57.8	65.6/60.0	68.0/62.2
Power factor	Cool	96/96	96/96	95/95	94/94	91/91	88/88
	Heat	91/91	91/91	92/91	92/92	90/90	88/88
Net weight	kg	722	722	750	750	750	750
Refrigerant piping size	Liquid line	Liquid line : ϕ 19.05 (3/4")					
	Suction gas line	Suction gas line : ϕ 38.1 (1 \cdot 1/2") (ϕ 34.92 (1 \cdot 3/8"))					
	Discharge gas line	Discharge gas line : ϕ 31.75 (1 \cdot 1/4") (ϕ 28.58 (1 \cdot 1/8"))					
	Oil equalization	ϕ 9.52 (3/8")					

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C	—	7 °C	6 °C	

- (2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"
- (3) Refrigerant piping size applicable to European installations are shown in parentheses.

Adapted to RoHS directive

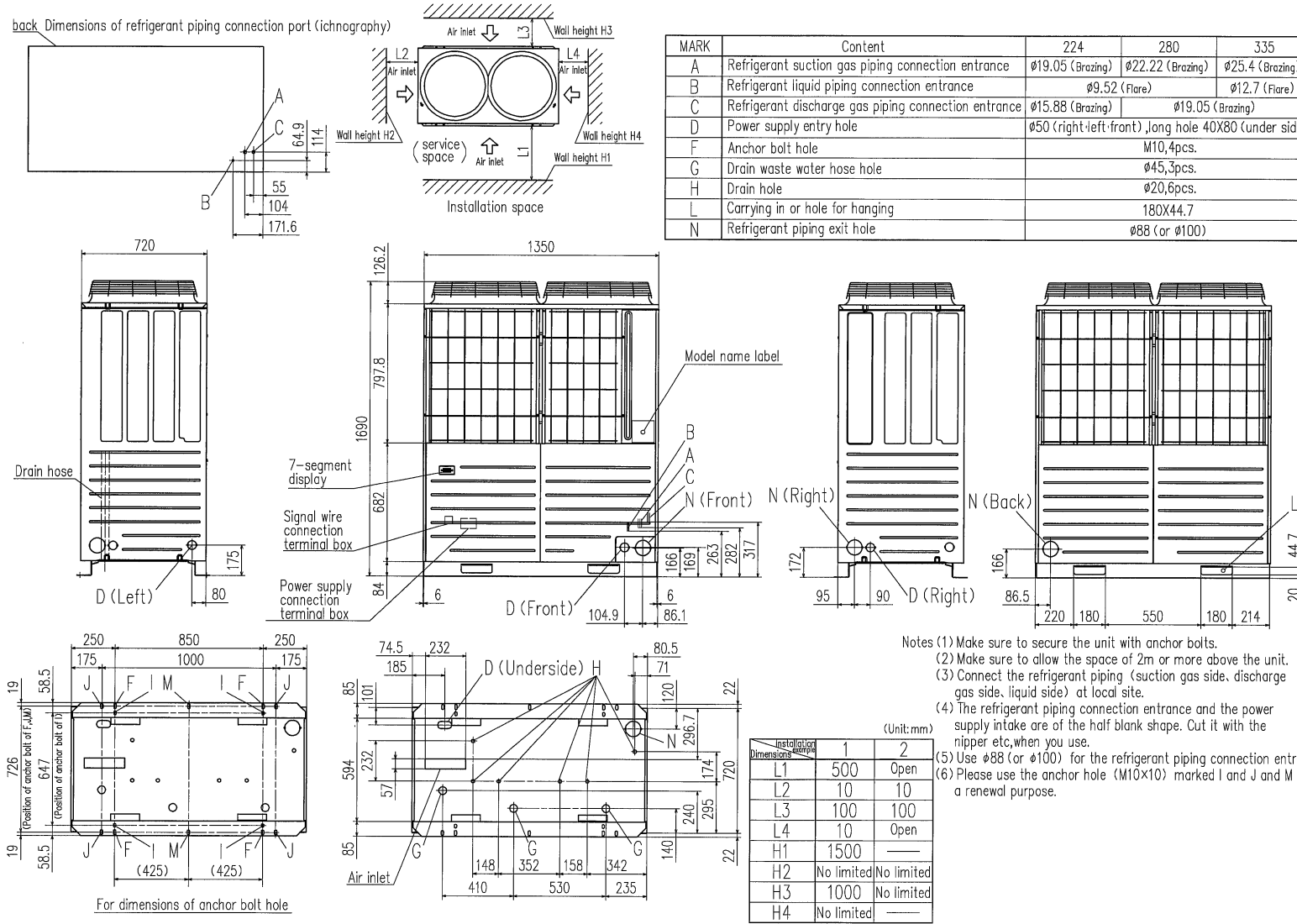
PCB003Z073 

*

2.2 Exterior dimensions

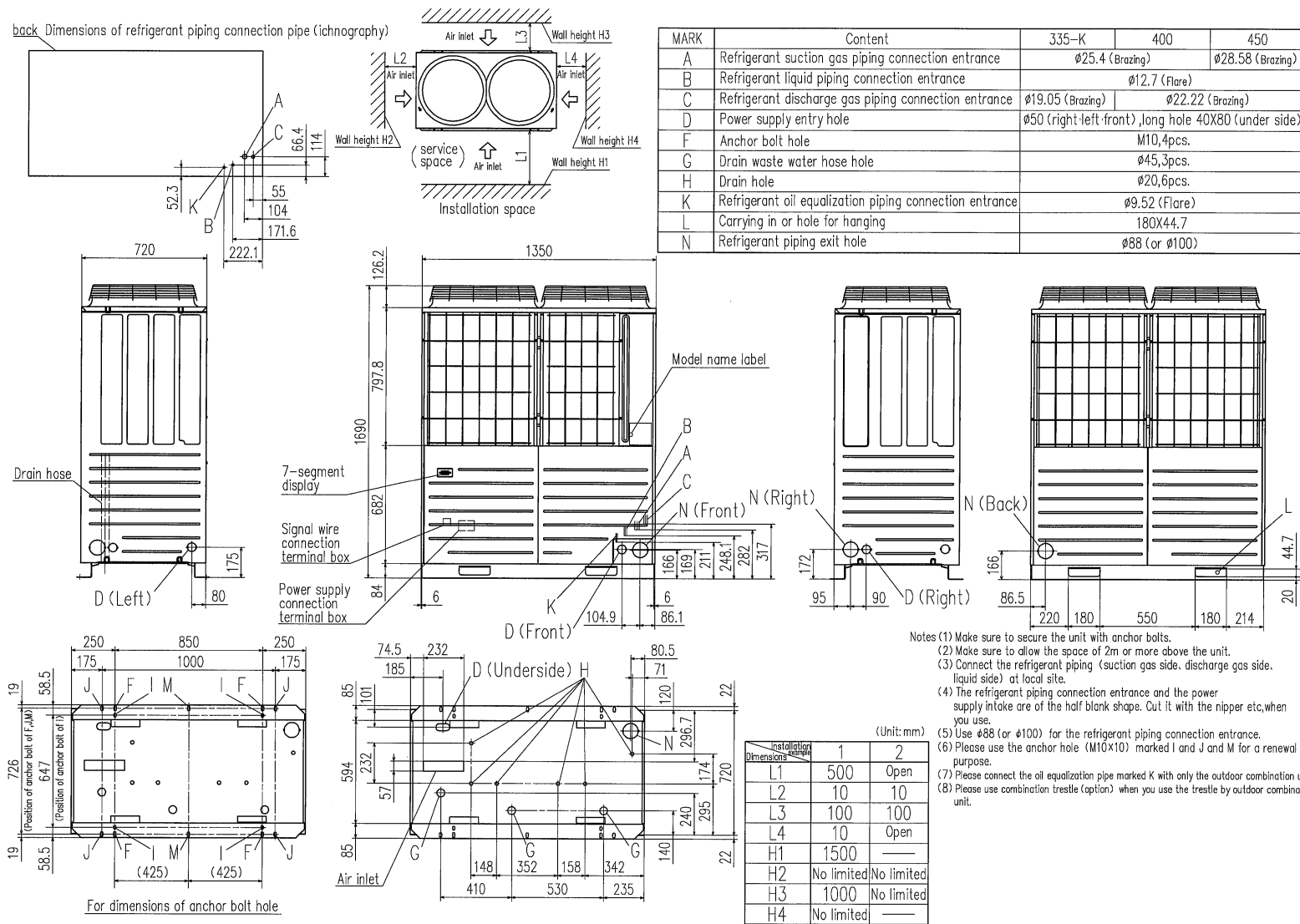
(a) Outdoor units

Models FDC224KXRE6, 280KXRE6, 335KXRE6

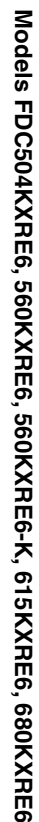


PCB003Z074

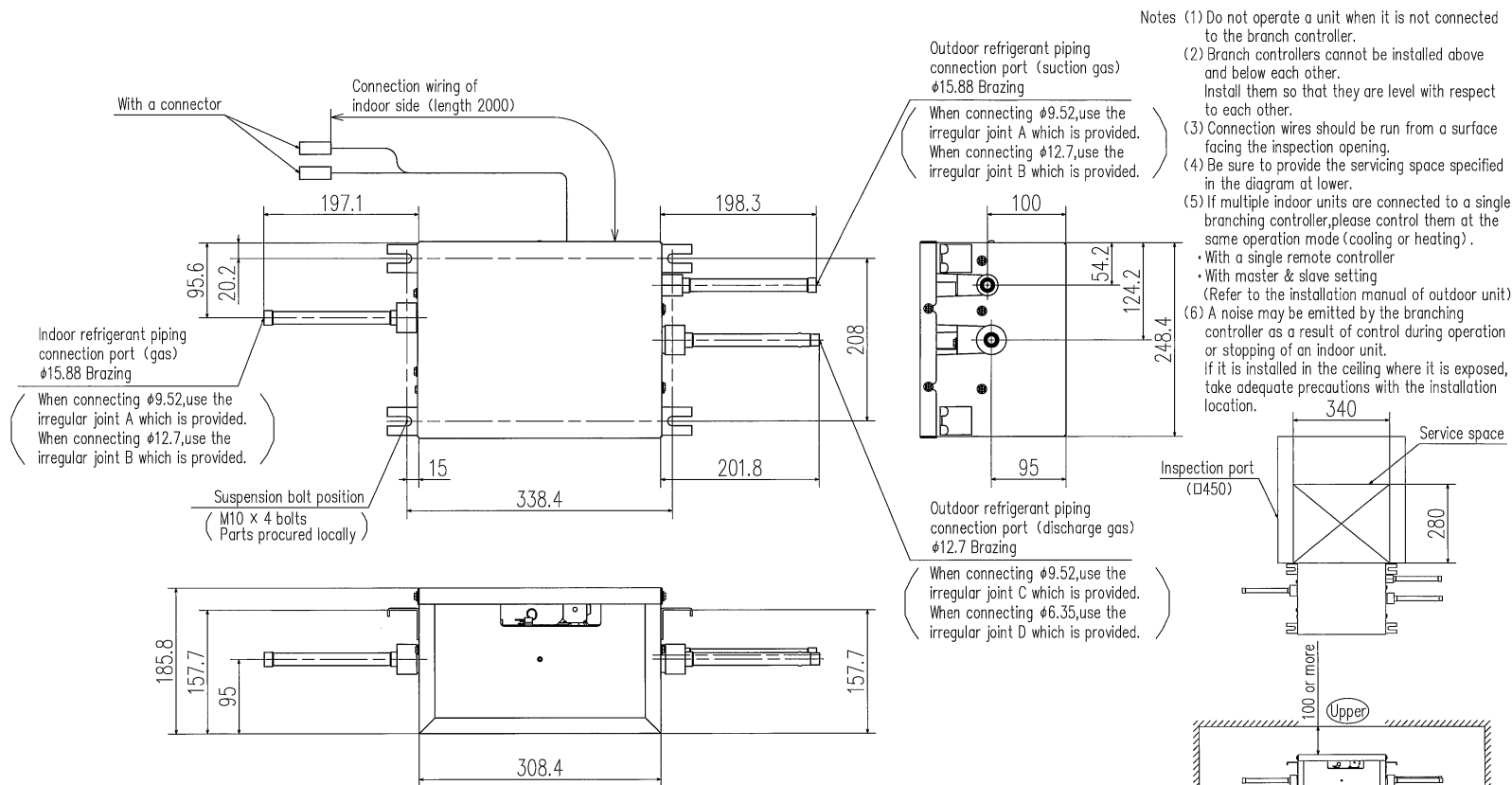
PCB003Z075



Models FDC335KXRE6-K, 400KXRE6, 450KXRE6



(b) Branching controller
Model PFD1123-E



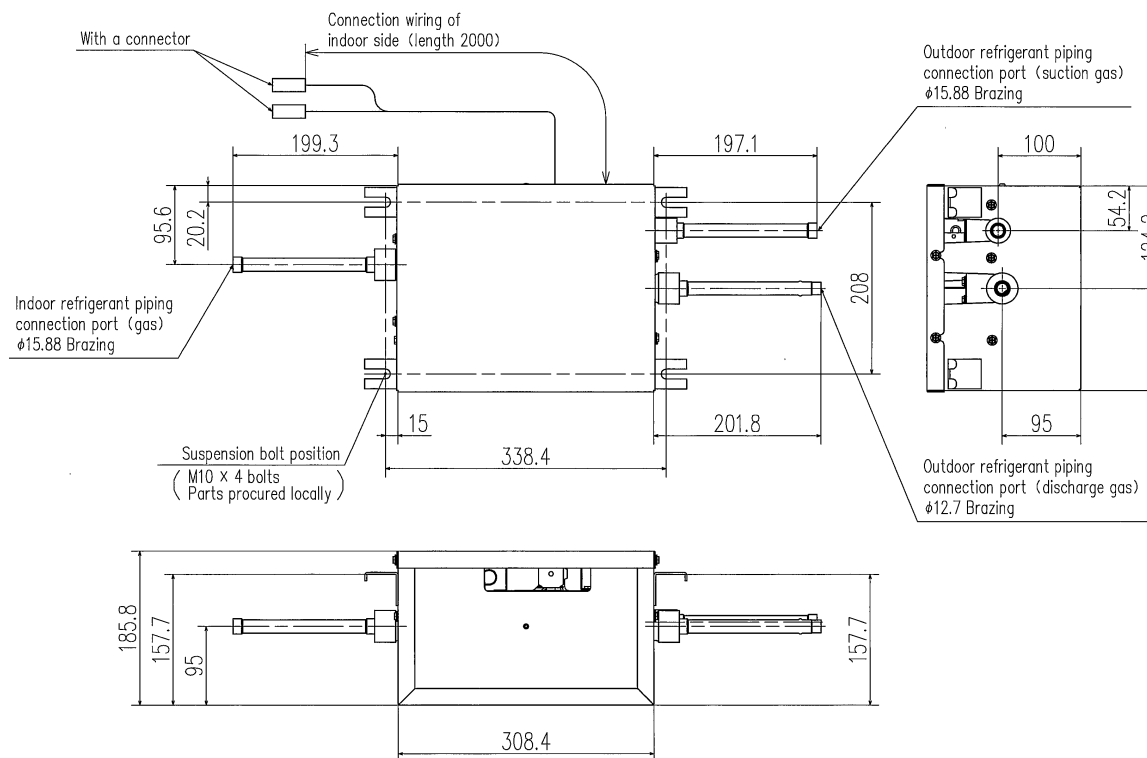
(7) Connect the irregular joints shown in the following table in accordance with the connection pipe diameter.

Irregular size Joints			
For outdoor unit suction gas piping For indoor unit gas piping 2 pcs.	For outdoor unit suction gas piping For indoor unit gas piping 2 pcs.	For outdoor unit discharge gas piping 1 pc.	For outdoor unit discharge gas piping 1 pc.
<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>

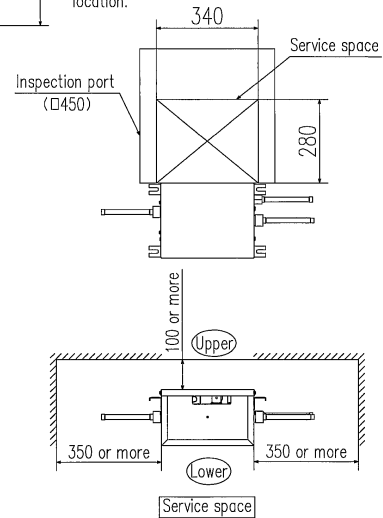
Model	Weight
PFD1123-E	7.2kg

PCB003Z081

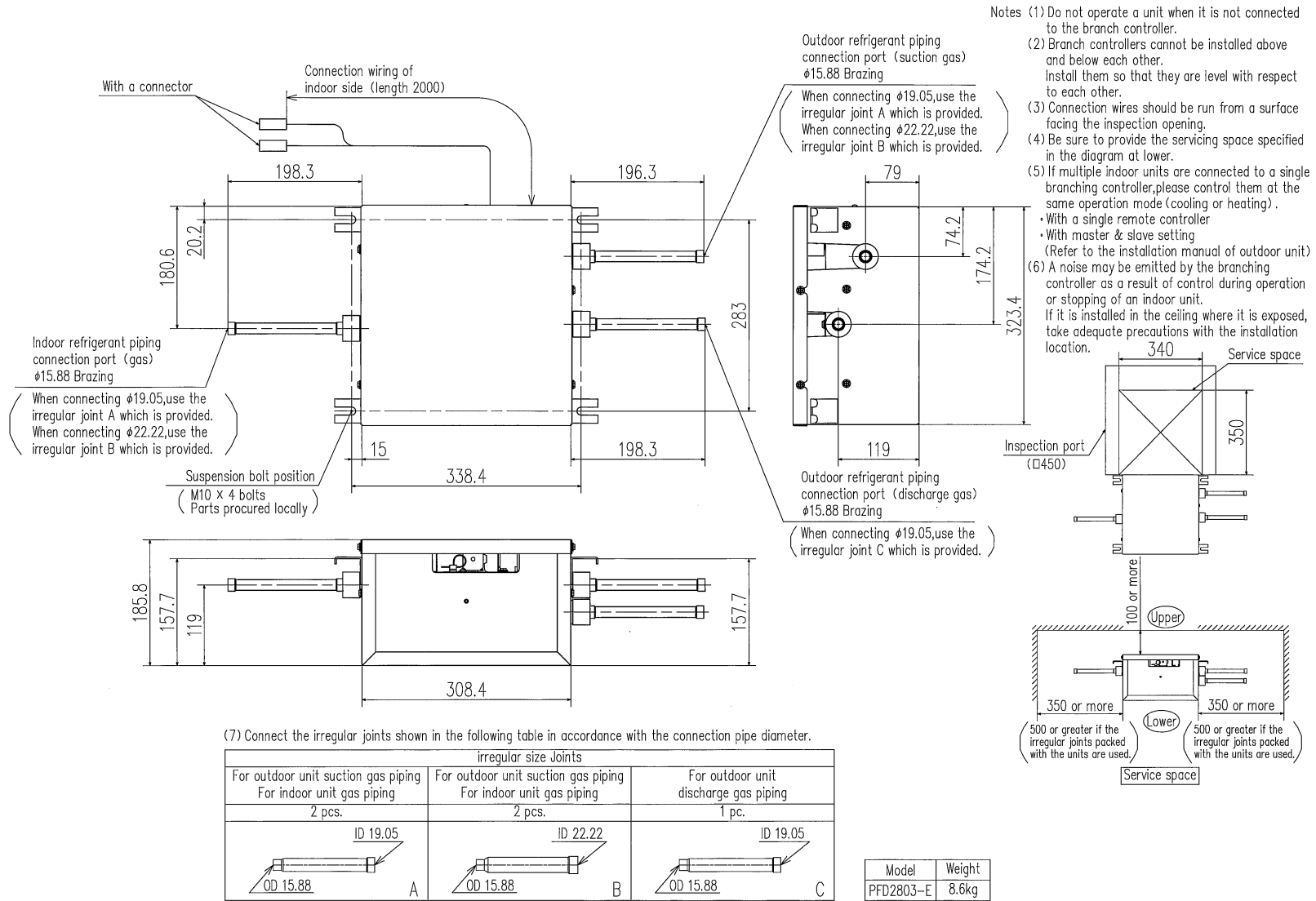
PCB003Z082



- Notes
- (1) Do not operate a unit when it is not connected to the branch controller.
 - (2) Branch controllers cannot be installed above and below each other. Install them so that they are level with respect to each other.
 - (3) Connection wires should be run from a surface facing the inspection opening.
 - (4) Be sure to provide the servicing space specified in the diagram at lower.
 - (5) If multiple indoor units are connected to a single branching controller, please control them at the same operation mode (cooling or heating).
 - With a single remote controller
 - With master & slave setting (Refer to the installation manual of outdoor unit)
 - (6) A noise may be emitted by the branching controller as a result of control during operation or stopping of an indoor unit. If it is installed in the ceiling where it is exposed, take adequate precautions with the installation location.

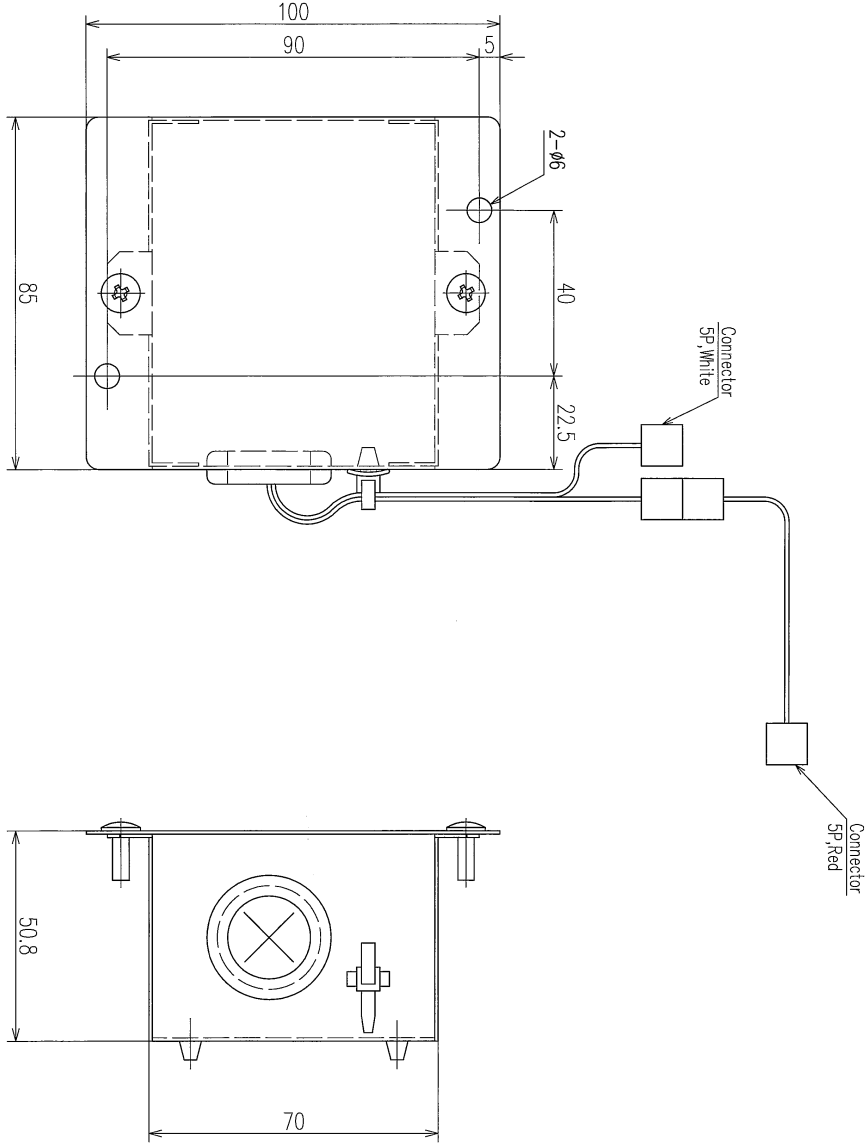


Model	Weight
PFD1803-E	7.5kg



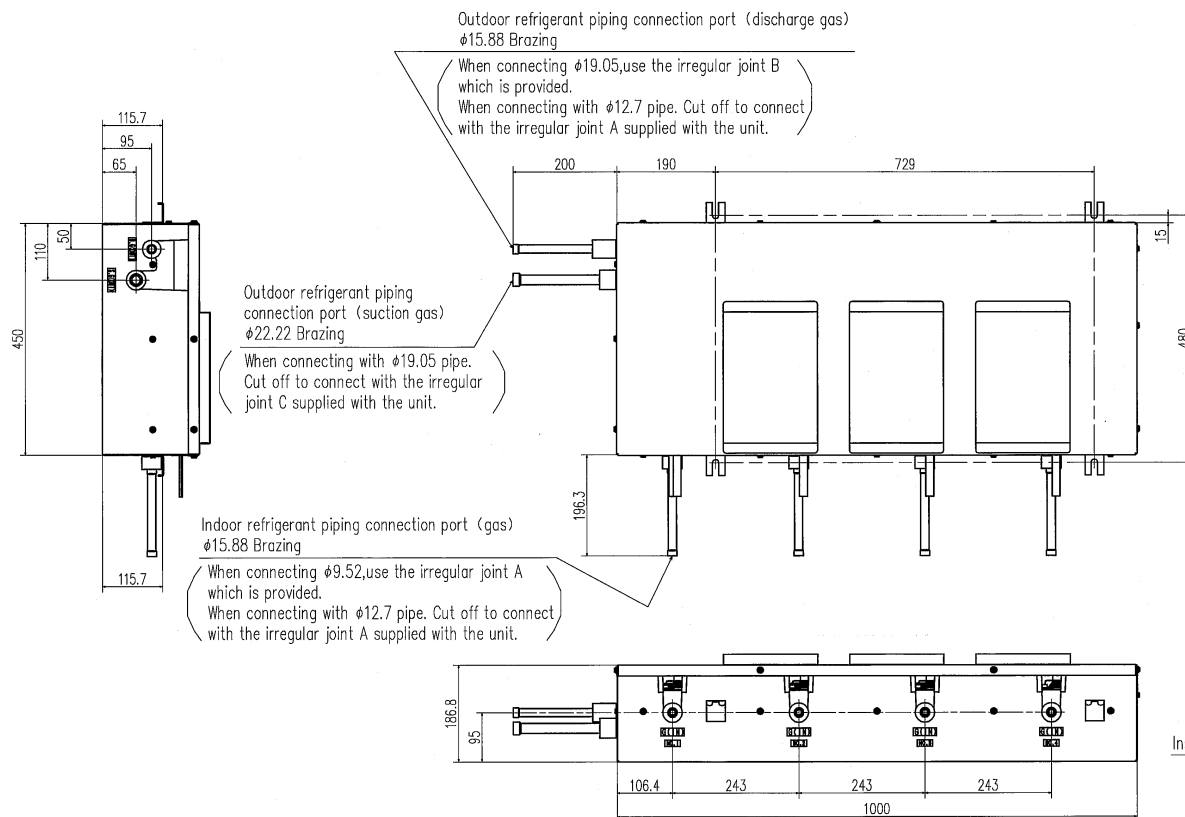
PCB003Z083

Relay kit with branch controller

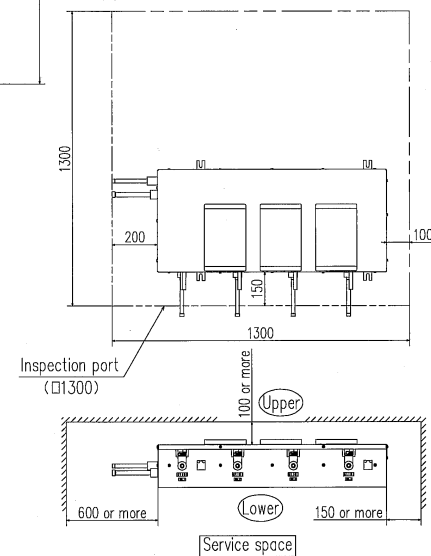


PCB003Z085

(c) Integrated branching controller
Model PFD1123X4-E



- Notes
- (1) Branch controllers cannot be installed above and below each other. Install them so that they are level with respect to each other.
 - (2) Be sure to provide the servicing space specified in the diagram at lower.
 - (3) If multiple indoor units are connected to a single branching controller, please control them at the same operation mode (cooling or heating).
 - With a single remote controller
 - With master & slave setting (Refer to the installation manual of outdoor unit)
 - (4) A noise may be emitted by the branching controller as a result of control during operation or stopping of an indoor unit. If it is installed in the ceiling where it is exposed, take adequate precautions with the installation location.
 - (5) Use the provided liquid header to connect the liquid pipe via the horizontal branch.



(6) Connect the irregular joints shown in the following table in accordance with the connection pipe diameter.

Irregular size Joints		
For outdoor unit suction gas piping For indoor unit gas piping 5 pcs.	For outdoor unit discharge gas piping 1 pc.	For outdoor unit suction gas piping 1 pc.
<p>Diagram A shows a joint connecting an OD 15.88 pipe to an ID 12.7 pipe, with an ID 9.52 label.</p>	<p>Diagram B shows a joint connecting an OD 15.88 pipe to an ID 19.05 pipe.</p>	<p>Diagram C shows a joint connecting an OD 22.22 pipe to an ID 19.05 pipe, with an ID 15.88 label.</p>
A	B	C

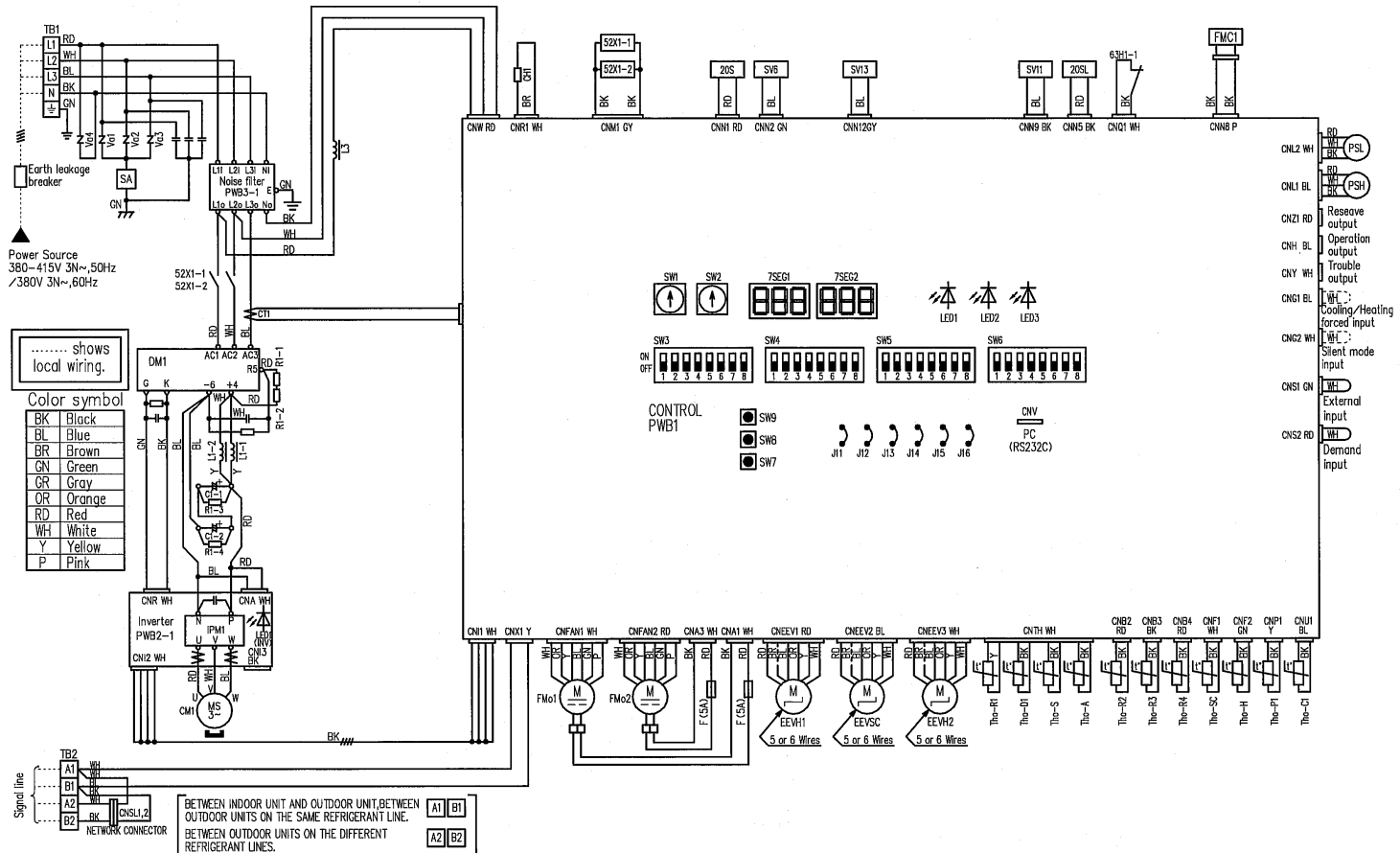
Model	Weight
PFD1123X4-E	31.6kg

PCB003Z084 A

2.3 Electrical wiring

(a) Outdoor units

Models FDC224KXRE6, 280KXRE6, 335KXRE6



CH1	Crankcase heater
CM1	Compressor motor
CNA-Z	Connector
CT1	Current sensor
CI-1,2	Electrolytic capacitor
DM	Diode module
EEVH1,2	Expansion valve for heating
EEVSC	Expansion valve for SC
F	Fuse
FMC1	Fan for IPM
FMo1,2	Blower motor
IPM	Intelligent power module
J11,12	Set up model (volt)
J13	External input select level/pulse
J14	Defrost recover temp
J15	Defrost start temp
J16	Heat recovery unit
LED1	Inspection (Red)
LED1 (INV)	Normal (Yellow) -Flashing
LED2	Normal (Green)
LED3	Service (green for service)
LI-1,2	D.C.reactor
LI3	D.C.reactor

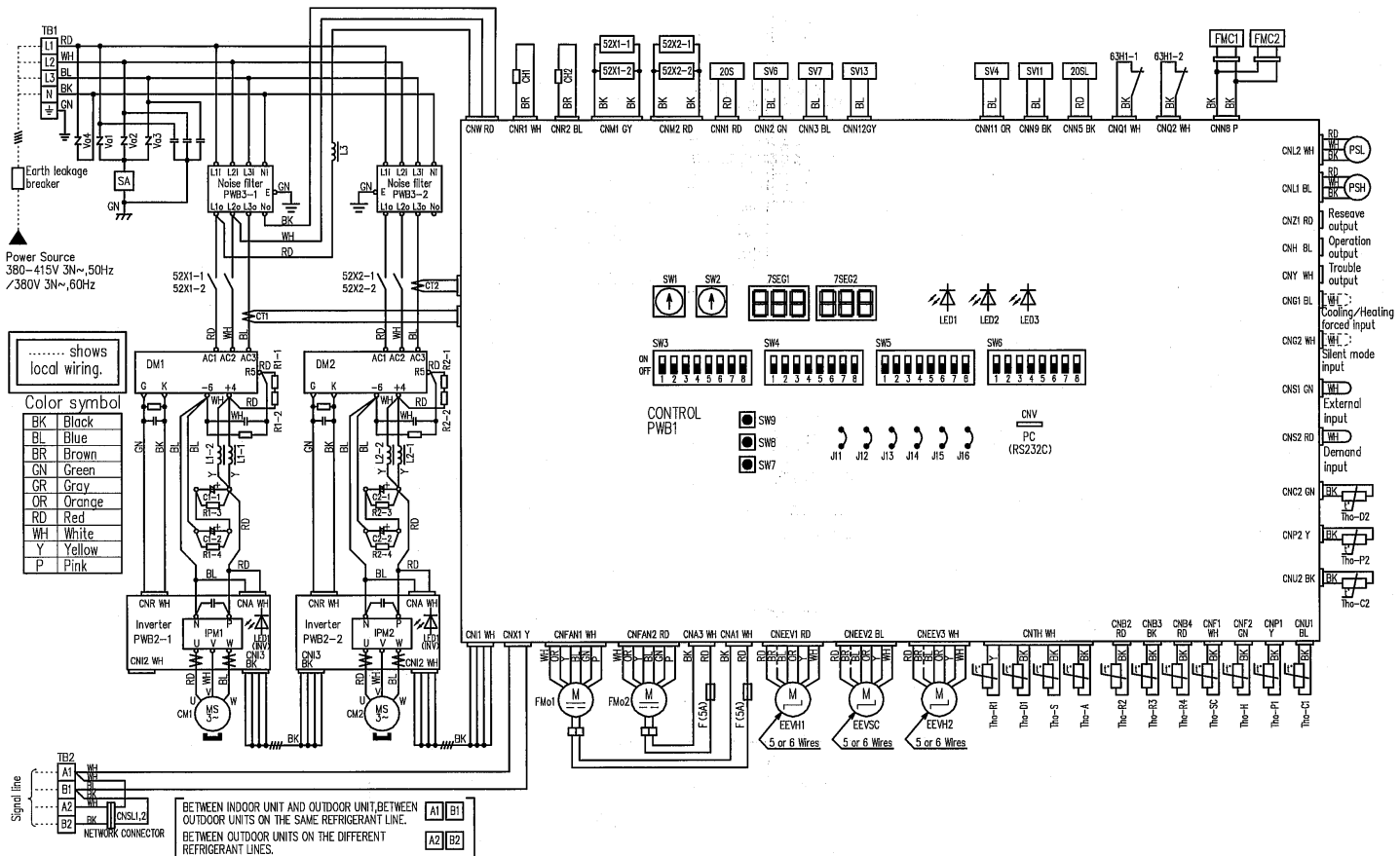
PSH	High pressure sensor
PSL	Low pressure sensor
PWB1-3	Printed wiring board (PCB)
R1,2	Rush current suppression resistor
SA	Arrestor
SV6	Solenoid valve (oil separator CM1)
SV11	Solenoid valve (gas bypass)
SV13	Solenoid valve (gas bypass)
SW1	Address setting SW outdoor unit No. (2 digits)
SW2	Address setting SW outdoor unit No. (1 digit)
SW3-1	Inspection LED reset
SW3-2	ON Auto backup operation
SW3-2	OFF Regular operation
SW3-3	Spare
SW3-4	Spare
SW3-5	ON Check operation
SW3-5	OFF Regular operation
SW3-6	Spare
SW3-7	ON Forced cooling/heating
SW3-7	OFF Regular operation
SW3-8	ON Test mode
SW3-8	OFF Regular operation
SW4-1~4	Model setting

SW4-5	Demand
SW4-6	Demand
SW4-7	Address setting switch (master·slave)
SW4-8	Address setting switch (master·slave)
SW5-1	ON Trial operation
SW5-1	OFF Regular operation
SW5-2	ON Trial operation mode/cooling
SW5-2	OFF Trial operation mode/heating
SW5-3	ON Pump down operation
SW5-3	OFF Regular operation
SW5-4	Spare
SW5-5	ON Super Link communication
SW5-5	OFF Super Link II communication
SW5-6~8	Spare
SW6-1,2	Spare
SW6-3	ON High static pressure mode
SW6-3	OFF Regular operation
SW6-5~8	Spare
SW7	Data clear/insert
SW8	7seg indicate (unit's place)
SW9	7seg indicate (ten's place)
SW10	Reset
TB1,2	Terminal block

Tho-A	External air thermistor
Tho-C1	Under-dome thermistor
Tho-D1	Discharge pipe thermistor
Tho-H	Sub-cooling coil thermistor 2
Tho-P1	Power transistor thermistor
Tho-R1	Heat exchanger thermistor (exhaust)
Tho-R2	Heat exchanger thermistor (exhaust)
Tho-R3	Heat exchanger thermistor (inlet)
Tho-R4	Heat exchanger thermistor (inlet)
Tho-S	Suction pipe thermistor
Tho-SC	Sub-cooling coil thermistor 1
Va1~4	Varistor
20S	4way valve
20SL	4way valve
52X1-1,2	Solenoid for CM1
63H1-1	High pressure switch (for protection)
7SEG1	7seg L.E.D. (function indication)
7SEG2	7seg L.E.D. (data indication)

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Models FDC35KXRE6-K, 400KXRE6, 450KXRE6, 504KXRE6,
FDC560KXRE6, 560KXRE6-K, 615KXRE6, 680KXRE6



CH1,2	Crankcase heater
CM1,2	Compressor motor
CNA-7	Connector
CT1,CT2	Current sensor
C1-1,C2-1,2	Electrolytic capacitor
DM	Diode module
EEVH1,2	Expansion valve for heating
EEVSC	Expansion valve for SC
F	Fuse
FMC1,2	Fan for IPM
FMo1,2	Blower motor
IPM	Intelligent power module
J11,12	Set up model (volt)
J13	External input select level/pulse
J14	Defrost recover temp
J15	Defrost start temp
J16	Heat recovery unit
LED1	Inspection (Red)
LED1 (INV)	Normal (Yellow) -Flashing
LED2	Normal (Green)
LED3	Service (green for service)
U1-1,U2-1,2	D.C reactor
U3	D.C reactor

PSH	High pressure sensor
PSL	Low pressure sensor
PWB1~3	Printed wiring board (PCB)
RT1,2	Rush current suppression resistor
SA	Arrestor
SV4	Solenoid valve (capacity control)
SV6	Solenoid valve (oil separator CM1)
SV7	Solenoid valve (oil separator CM2)
SV11	Solenoid valve (gas bypass)
SV13	Solenoid valve (gas bypass)
SW1	Address setting SW outdoor unit No. (2 digits)
SW2	Address setting SW outdoor unit No. (1 digit)
SW3-1	Inspection LED reset
SW3-2 ON	Auto backup operation
SW3-2 OFF	Regular operation
SW3-3	Spare
SW3-4	Spare
SW3-5 ON	Check operation
SW3-5 OFF	Regular operation
SW3-6	Spare
SW3-7 ON	Forced cooling/heating
SW3-7 OFF	Regular operation
SW3-8 ON	Test mode
SW3-8 OFF	Regular operation

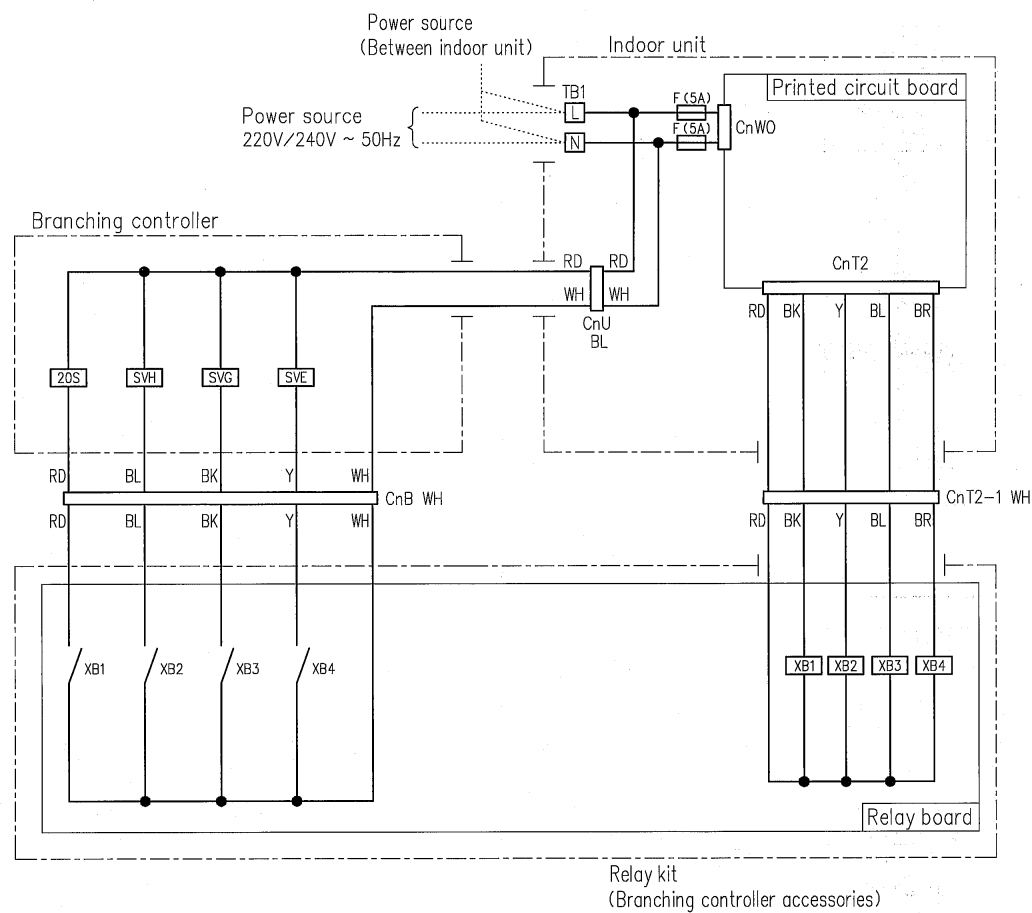
SW4-1~4	Model setting
SW4-5	Demand
SW4-6	Demand
SW4-7	Address setting switch (master+slave)
SW4-8	Address setting switch (master+slave)
SW5-1 ON	Trial operation
SW5-1 OFF	Regular operation
SW5-2 ON	Trial operation mode/cooling
SW5-2 OFF	Trial operation mode/heating
SW5-3 ON	Pump down operation
SW5-3 OFF	Regular operation
SW5-4	Spare
SW5-5 ON	Super Link communication
SW5-5 OFF	Super Link II communication
SW5-6~8	Spare
SW6-1,2	Spare
SW6-3 ON	High static pressure mode
SW6-3 OFF	Regular operation
SW6-5~8	Spare
SW7	Data clear/insert
SW8	7seg indicate (unit's place)
SW9	7seg indicate (ten's place)
SW10	Reset

TB1,2	Terminal block
Tho-A	External air thermistor
Tho-C1,2	Under-dome thermistor
Tho-D1,2	Discharge pipe thermistor
Tho-H	Sub-cooling coil thermistor 2
Tho-P1,2	Power transistor thermistor
Tho-R1	Heat exchanger thermistor (exhaust)
Tho-R2	Heat exchanger thermistor (exhaust)
Tho-R3	Heat exchanger thermistor (inlet)
Tho-R4	Heat exchanger thermistor (inlet)
Tho-S	Suction pipe thermistor
Tho-SC	Sub-cooling coil thermistor 1
Va1~4	Varistor
ZOS	4way valve
ZOSL	4way valve
52X1-1,2	Solenoid for CM1
52X2-1,2	Solenoid for CM2
63H1-1,2	High pressure switch (for protection)
7SEG1	7seg L.E.D. (function indication)
7SEG2	7seg L.E.D. (data indication)

PCB003Z078 A

(b) Branching controller
Models PFD1123-E, 1803-E, 2803-E

- Notes 1. This diagram shows the circuit diagram when the branch flow controller and relay kit (product with a branching controller attached) is connected.
2. ----- shows the current wiring.

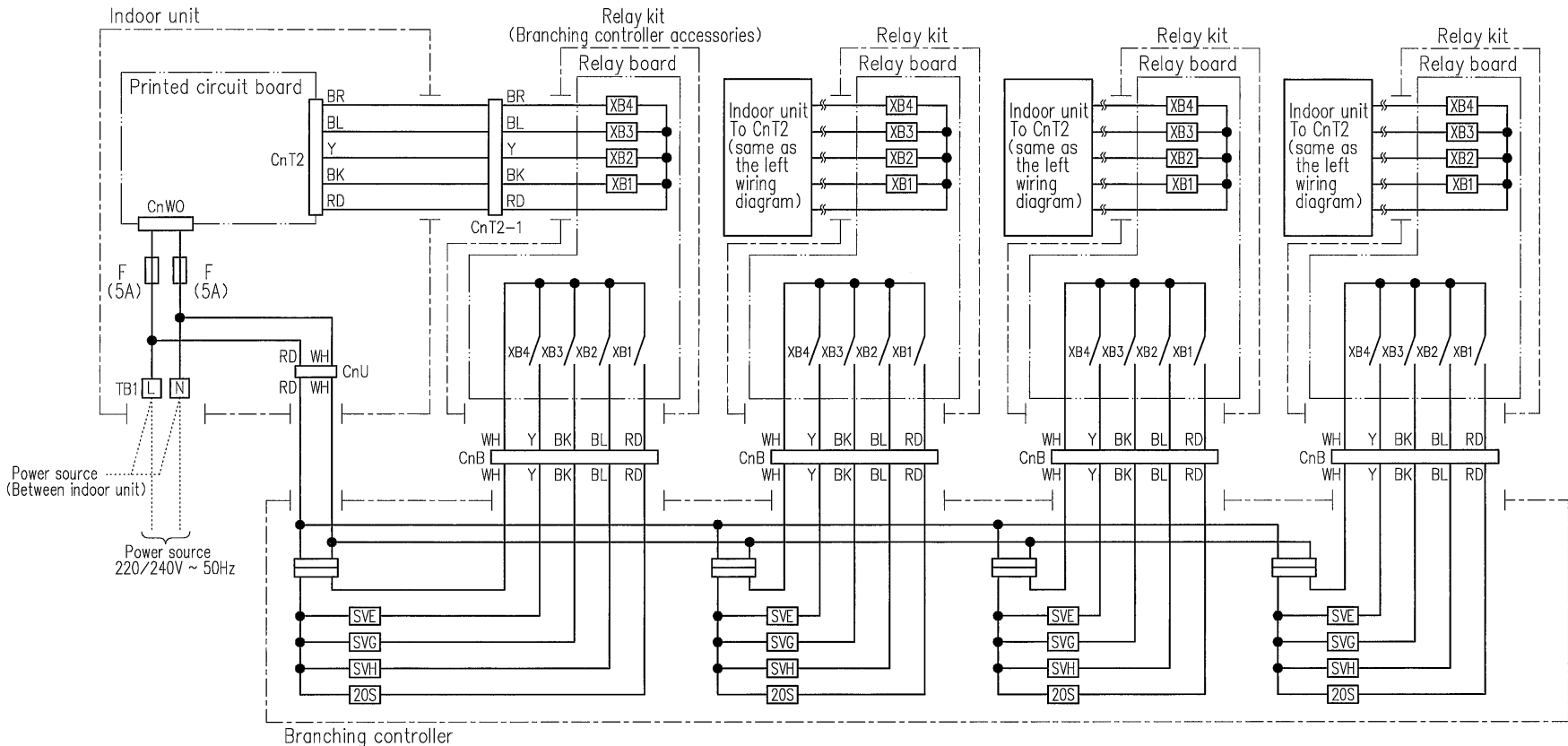


Color symbol

BK	Black
BL	Blue
BR	Brown
RD	Red
WH	White
Y	Yellow

CnB~U	Connector
F	Fuse
SVE	Solenoid valve for switching between cooling and heating
SVG	Solenoid valve for oil return
SVH	Solenoid valve for heating
TB1	Terminal block (□ Mark)
XB1	Relay for heating output
XB2-4	Operating mode switching
20S	Solenoid valve for switching 4 way

PCB003Z086 



CnB~U	Connector
F	Fuse
SVE	Solenoid valve for switching between cooling and heating
SVG	Solenoid valve for oil return
SVH	Solenoid valve for heating
TB1	Terminal block (□ Mark)
XB1	Relay for heating output
XB2-4	Operating mode switching
20S	Solenoid valve for switching 4 way

Color symbol	
BK	Black
BL	Blue
BR	Brawn
RD	Red
WH	White
Y	Yellow

- Notes 1.This figure indicates the circuit diagram of connecting 4 branching controllers and 4 relay kits (branching controller accessories) respectively.
2. ----- shows the current wiring.
3.Connect the signal line between a branching controller and an indoor unit to the connector of the corresponding refrigerant system.

2.4 Noise level

Measured based on JIS B 8616

Mike position as highest noise level in position as below

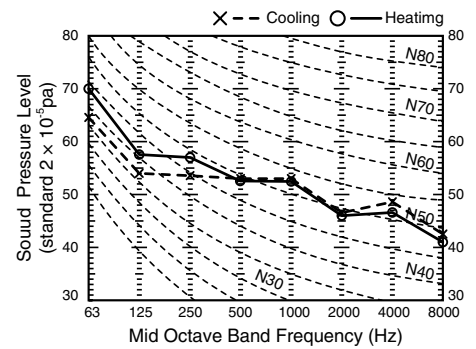
Distance from front side 1m

Height 1m

Model FDC224KXRE6

Noise level 57 dB (A) at cooling

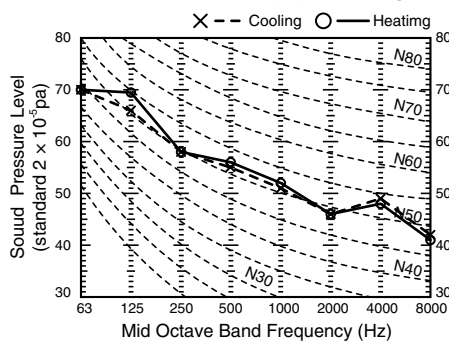
57 dB (A) at heating



Model FDC280KXRE6

Noise level 58 dB (A) at cooling

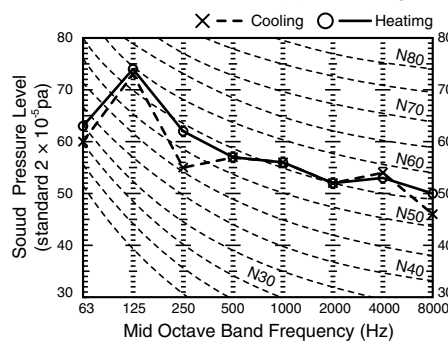
59 dB (A) at heating



Model FDC335KXRE6

Noise level 62 dB (A) at cooling

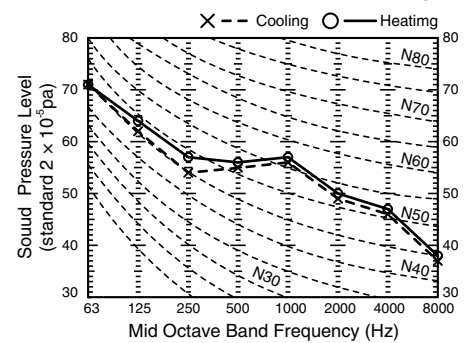
63 dB (A) at heating



Model FDC335KXRE6-K

Noise level 59 dB (A) at cooling

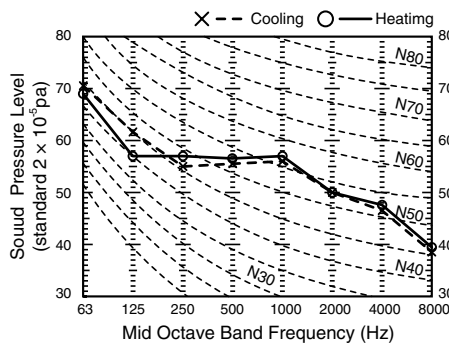
59.5 dB (A) at heating



Model FDC400KXRE6

Noise level 60 dB (A) at cooling

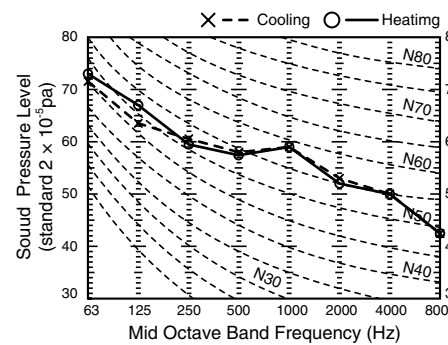
60 dB (A) at heating



Model FDC450KXRE6

Noise level 62.5 dB (A) at cooling

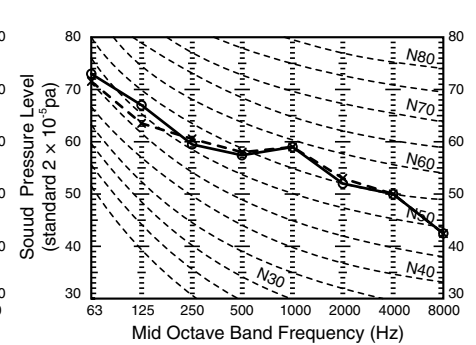
62.5 dB (A) at heating



Model FDC504KXRE6

Noise level 62 dB (A) at cooling

62 dB (A) at heating

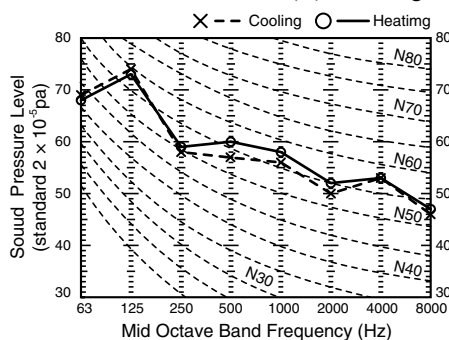


Models FDC560KXRE6

560KXRE6-K

Noise level 63.5 dB (A) at cooling

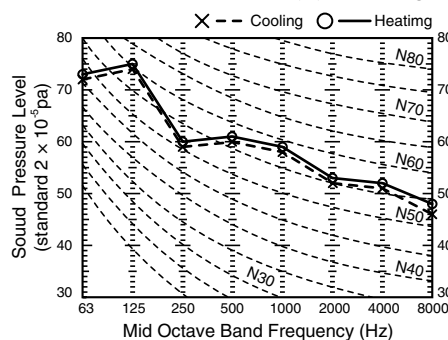
63.5 dB (A) at heating



Model FDC615KXRE6

Noise level 64 dB (A) at cooling

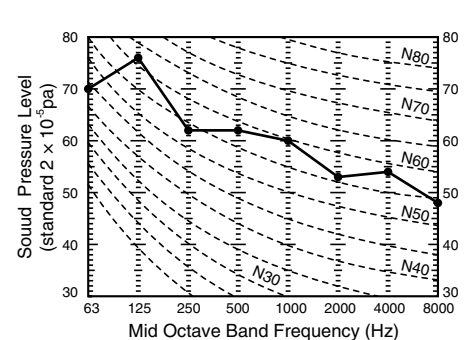
64.5 dB (A) at heating



Model FDC680KXRE6

Noise level 65.5 dB (A) at cooling

65.5 dB (A) at heating



3 INDOOR UNITS

3.1 Specifications

(a) Ceiling cassette-4 way type (FDT)

Models FDT28KXE6A, 36KXE6A, 45KXE6A


Models			FDT28KXE6A	FDT36KXE6A	FDT45KXE6A
Panel model (Option)			T-PSA-36W-E	T-PSA-36W-E	T-PSA-36W-E
Nominal cooling capacity*1	kW		2.8	3.6	4.5
Nominal heating capacity*2			3.2	4.0	5.0
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03
	Heat		0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03
Running current	Cool	A	0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20
	Heat		0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20
Sound Pressure Level		dB(A)	Hi : 33 Me : 31 Lo : 30	Hi : 33 Me : 31 Lo : 30	Hi : 33 Me : 31 Lo : 30
Exterior dimensions Height × Width × Depth		mm	Unit : 246 × 840 × 840 Panel : 35 × 950 × 950	Unit : 246 × 840 × 840 Panel : 35 × 950 × 950	Unit : 246 × 840 × 840 Panel : 35 × 950 × 950
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 22 Panel : 5.5	Unit : 22 Panel : 5.5	Unit : 22 Panel : 5.5
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1	Turbo fan × 1
Motor		W	50	50	50
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 18 Me : 16 Lo : 14	Hi : 18 Me : 16 Lo : 14	Hi : 18 Me : 16 Lo : 14
Available static pressure		Pa	0	0	0
Outside air intake			Possible	possible	possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJF000Z051	PJF000Z051	PJF000Z051
Electrical wiring			PJF000Z053	PJF000Z053	PJF000Z053

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJF000Z049 

Models FDT56KXE6A, 71KXE6A, 90KXE6A


Models			FDT56KXE6A	FDT71KXE6A	FDT90KXE6A
Panel model (Option)			T-PSA-36W-E	T-PSA-36W-E	T-PSA-36W-E
Nominal cooling capacity*1	kW		5.6	7.1	9.0
Nominal heating capacity*2			6.3	8.0	10.0
Power source			220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz
Power consumption	Cool	kW	0.04 - 0.04 / 0.04	0.10 - 0.10 / 0.10	0.14 - 0.14 / 0.14
	Heat		0.04 - 0.04 / 0.04	0.10 - 0.10 / 0.10	0.14 - 0.14 / 0.14
Running current	Cool	A	0.20 - 0.18 / 0.20	0.30 - 0.28 / 0.30	0.45 - 0.40 / 0.45
	Heat		0.20 - 0.18 / 0.20	0.30 - 0.28 / 0.30	0.45 - 0.40 / 0.45
Sound Pressure Level		dB(A)	Hi : 33 Me : 31 Lo : 30	Hi : 33 Me : 31 Lo : 30	Hi : 40 Me : 37 Lo : 35
Exterior dimensions Height × Width × Depth		mm	Unit : 246 × 840 × 840 Panel : 35 × 950 × 950	Unit : 246 × 840 × 840 Panel : 35 × 950 × 950	Unit : 298 × 840 × 840 Panel : 35 × 950 × 950
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 24 Panel : 5.5	Unit : 24 Panel : 5.5	Unit : 27 Panel : 5.5
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1	Turbo fan × 1
Motor		W	50	50	50
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 18 Me : 16 Lo : 14	Hi : 18 Me : 16 Lo : 14	Hi : 27 Me : 24 Lo : 20
Available static pressure		Pa	0	0	0
Outside air intake			Possible	possible	possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJF000Z051	PJF000Z051	PJF000Z051
Electrical wiring			PJF000Z053	PJF000Z053	PJF000Z053

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJF000Z049 

Models FDT112KXE6A, 140KXE6A, 160KXE6A


Models			FDT112KXE6A	FDT140KXE6A	FDT160KXE6A
Panel model (Option)			T-PSA-36W-E	T-PSA-36W-E	T-PSA-36W-E
Nominal cooling capacity*1	kW		11.2	14.0	16.0
Nominal heating capacity*2			12.5	16.0	18.0
Power source			220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz
Power consumption	Cool	kW	0.14 - 0.14 / 0.14	0.14 - 0.14 / 0.14	0.14 - 0.14 / 0.14
	Heat		0.14 - 0.14 / 0.14	0.14 - 0.14 / 0.14	0.14 - 0.14 / 0.14
Running current	Cool	A	0.45 - 0.40 / 0.45	0.45 - 0.40 / 0.45	0.45 - 0.40 / 0.45
	Heat		0.45 - 0.40 / 0.45	0.45 - 0.40 / 0.45	0.45 - 0.40 / 0.45
Sound Pressure Level		dB(A)	Hi : 40 Me : 37 Lo : 35	Hi : 42 Me : 40 Lo : 37	Hi : 43 Me : 41 Lo : 38
Exterior dimensions Height × Width × Depth		mm	Unit : 298 × 840 × 840 Panel : 35 × 950 × 950	Unit : 298 × 840 × 840 Panel : 35 × 950 × 950	Unit : 298 × 840 × 840 Panel : 35 × 950 × 950
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 27 Panel : 5.5	Unit : 27 Panel : 5.5	Unit : 27 Panel : 5.5
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1	Turbo fan × 1
Motor		W	140	140	140
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 27 Me : 24 Lo : 20	Hi : 30 Me : 27 Lo : 23	Hi : 30 Me : 27 Lo : 23
Available static pressure		Pa	0	0	0
Outside air intake			Possible	possible	possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJF000Z052	PJF000Z052	PJF000Z052
Electrical wiring			PJF000Z053	PJF000Z053	PJF000Z053

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJF000Z049 

(b) Ceiling cassette-4 way compact type (FDTC)

Models FDTC22KXE6B, 28KXE6B, 36KXE6B

Models			FDTC22KXE6B	FDTC28KXE6B	FDTC36KXE6B
Panel model (Option)			TC-PSA-25W-E	TC-PSA-25W-E	TC-PSA-25W-E
Nominal cooling capacity*1	kW		2.2	2.8	3.6
Nominal heating capacity*2			2.5	3.2	4.0
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03
	Heat		0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03
Running current	Cool	A	0.10 - 0.09 / 0.10	0.10 - 0.09 / 0.10	0.11 - 0.10 / 0.11
	Heat		0.10 - 0.09 / 0.10	0.10 - 0.09 / 0.10	0.11 - 0.10 / 0.11
Sound Pressure Level	Cool	dB(A)	Hi : 35 Me : 33 Lo : 30	Hi : 35 Me : 33 Lo : 30	Hi : 38 Me : 36 Lo : 31
	Heat		Hi : 35 Me : 33 Lo : 32	Hi : 35 Me : 33 Lo : 32	Hi : 38 Me : 36 Lo : 34
Exterior dimensions Height × Width × Depth		mm	Unit : 248 × 570 × 570 Panel : 35 × 700 × 700	Unit : 248 × 570 × 570 Panel : 35 × 700 × 700	Unit : 248 × 570 × 570 Panel : 35 × 700 × 700
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 14 Panel : 3.5	Unit : 14 Panel : 3.5	Unit : 15 Panel : 3.5
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1	Turbo fan × 1
Motor		W	33	33	33
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)	Cool	CMM	Hi : 9.5 Me : 8.5 Lo : 7	Hi : 9.5 Me : 8.5 Lo : 7	Hi : 10 Me : 9 Lo : 7
	Heat		Hi : 9.5 Me : 8.5 Lo : 8	Hi : 9.5 Me : 8.5 Lo : 8	Hi : 10 Me : 9 Lo : 8
Available static pressure		Pa	0	0	0
Outside air intake			Not possible	Not possible	Not possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJA003Z339	PJA003Z339	PJA003Z339
Electrical wiring			PJA003Z341	PJA003Z341	PJA003Z341

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJA003Z344

Models FDTC45KXE6B, 56KXE6B

Models			FDTC45KXE6B	FDTC56KXE6B
Panel model (Option)			TC-PSA-25W-E	TC-PSA-25W-E
Nominal cooling capacity*1	kW		4.5	5.6
Nominal heating capacity*2			5.0	6.3
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.04 - 0.04 / 0.04	0.04 - 0.04 / 0.04
	Heat		0.04 - 0.04 / 0.04	0.04 - 0.04 / 0.04
Running current	Cool	A	0.14 - 0.13 / 0.14	0.15 - 0.14 / 0.15
	Heat		0.14 - 0.13 / 0.14	0.15 - 0.14 / 0.15
Sound Pressure Level	Cool	dB(A)	Hi : 40 Me : 37 Lo : 31	Hi : 45 Me : 39 Lo : 31
	Heat		Hi : 40 Me : 37 Lo : 34	Hi : 45 Me : 39 Lo : 34
Exterior dimensions Height × Width × Depth		mm	Unit : 248 × 570 × 570 Panel : 35 × 700 × 700	Unit : 248 × 570 × 570 Panel : 35 × 700 × 700
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 15 Panel : 3.5	Unit : 15 Panel : 3.5
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1
Motor		W	33	33
Starting method			Direct line start	Direct line start
Air flow (Standard)	Cool	CMM	Hi : 11 Me : 9 Lo : 7	Hi : 13 Me : 10 Lo : 7
	Heat		Hi : 11 Me : 9 Lo : 8	Hi : 13 Me : 10 Lo : 8
Available static pressure		Pa	0	0
Outside air intake			Not possible	Not possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping
Refrigerant			R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJA003Z339	PJA003Z339
Electrical wiring			PJA003Z341	PJA003Z341

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJA003Z344

(c) Ceiling cassette-2 way type (FDTW)

Models FDTW28KXE6, 45KXE6, 56KXE6

Models			FDTW28KXE6	FDTW45KXE6	FDTW56KXE6
Panel model (Option)			TW-PSA-24W-E	TW-PSA-24W-E	TW-PSA-24W-E
Nominal cooling capacity*1	kW		2.8	4.5	5.6
Nominal heating capacity*2			3.2	5.0	6.3
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.09 - 0.10 / 0.09	0.09 - 0.10 / 0.09	0.09 - 0.10 / 0.09
	Heat		0.09 - 0.10 / 0.09	0.09 - 0.10 / 0.09	0.09 - 0.10 / 0.09
Running current	Cool	A	0.43 - 0.44 / 0.43	0.43 - 0.44 / 0.43	0.43 - 0.44 / 0.43
	Heat		0.43 - 0.44 / 0.43	0.43 - 0.44 / 0.43	0.43 - 0.44 / 0.43
Sound Pressure Level		dB(A)	Hi : 39 Me : 34 Lo : 32	Hi : 39 Me : 34 Lo : 32	Hi : 39 Me : 34 Lo : 32
Exterior dimensions Height × Width × Depth		mm	Unit : 267 × 817 × 620 Panel : 8 × 1,055 × 680	Unit : 287 × 817 × 620 Panel : 8 × 1,055 × 680	Unit : 287 × 817 × 620 Panel : 8 × 1,055 × 680
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 18 Panel : 7	Unit : 19 Panel : 7	Unit : 19 Panel : 7
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1	Turbo fan × 1
Motor		W	30	30	30
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 14 Me : 12 Lo : 10	Hi : 14 Me : 12 Lo : 10	Hi : 14 Me : 12 Lo : 10
Available static pressure		Pa	0	0	0
Outside air intake			Possible	possible	possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJB001Z557	PJB001Z557	PJB001Z557
Electrical wiring			PJB001Z560	PJB001Z560	PJB001Z560

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJB001Z555

Models FDTW71KXE6, 90KXE6

Models			FDTW71KXE6	FDTW90KXE6
Panel model (Option)			TW-PSA-34W-E	TW-PSA-34W-E
Nominal cooling capacity*1	kW		7.1	9.0
Nominal heating capacity*2			8.0	10.0
Power source			220-240V ~ 50Hz	220-240V ~ 50Hz
Power consumption	Cool	kW	0.10 - 0.11	0.12 - 0.13
	Heat		0.10 - 0.11	0.12 - 0.13
Running current	Cool	A	0.48 - 0.50	0.57 - 0.59
	Heat		0.48 - 0.50	0.57 - 0.59
Sound Pressure Level		dB(A)	Hi : 41 Me : 36 Lo : 35	Hi : 41 Me : 37 Lo : 36
Exterior dimensions Height × Width × Depth		mm	Unit : 342 × 1,054 × 520 Panel : 8 × 1,300 × 680	Unit : 342 × 1,054 × 620 Panel : 8 × 1,300 × 680
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 26 Panel : 9	Unit : 26 Panel : 9
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1
Motor		W	35	40
Starting method			Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 16 Me : 13 Lo : 11	Hi : 19 Me : 16 Lo : 12
Available static pressure		Pa	0	0
Outside air intake			possible	possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping
Refrigerant			R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJB001Z558	PJB001Z558
Electrical wiring			PJB001Z561	PJB001Z561

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJB001Z555

Models FDTW112KXE6, 140KXE6

Models			FDTW112KXE6	FDTW140KXE6
Panel model (Option)			TW-PSA-44W-E	TW-PSA-44W-E
Nominal cooling capacity*1	kW		11.2	14.0
Nominal heating capacity*2			12.5	16.0
Power source			220-240V ~ 50Hz	220-240V ~ 50Hz
Power consumption	Cool	kW	0.18 - 0.20	0.20 - 0.24
	Heat		0.18 - 0.20	0.20 - 0.24
Running current	Cool	A	0.86 - 0.89	0.90 - 0.98
	Heat		0.86 - 0.89	0.90 - 0.98
Sound Pressure Level		dB(A)	Hi : 44 Me : 38 Lo : 37	Hi : 45 Me : 41 Lo : 39
Exterior dimensions Height × Width × Depth		mm	Unit : 357 × 1,524 × 620 Panel : 8 × 1,770 × 680	Unit : 357 × 1,524 × 620 Panel : 8 × 1,770 × 680
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 38 Panel : 11	Unit : 38 Panel : 11
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 2	Turbo fan × 2
Motor		W	40 × 2	50 × 2
Starting method			Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 28 Me : 25 Lo : 23	Hi : 32 Me : 28 Lo : 24
Available static pressure		Pa	0	0
Outside air intake			possible	possible
Air filter, Q'ty			Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping
Refrigerant			R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJB001Z559	PJB001Z559
Electrical wiring			PJB001Z562	PJB001Z562

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJB001Z555

(d) Ceiling cassette-1 way type (FDTS)

Models FDTS45KXE6, 71KXE6

Models			FDTS45KXE6	FDTS71KXE6
Panel model (Option)			TS-PSA-29W-E	TS-PSA-39W-E
Nominal cooling capacity*1	kW		4.5	7.1
Nominal heating capacity*2			5.0	8.0
Power source			220-240V ∼ 50Hz / 220V ∼ 60Hz	220-240V ∼ 50Hz / 220V ∼ 60Hz
Power consumption	Cool	kW	0.09 - 0.11 / 0.09	0.12 - 0.15 / 0.12
	Heat		0.09 - 0.11 / 0.09	0.12 - 0.15 / 0.12
Running current	Cool	A	0.43 - 0.46 / 0.43	0.58 - 0.63 / 0.58
	Heat		0.43 - 0.46 / 0.43	0.58 - 0.63 / 0.58
Sound Pressure Level		dB(A)	Hi : 43 Me : 38 Lo : 36	Hi : 44 Me : 38 Lo : 36
Exterior dimensions Height x Width x Depth		mm	Unit : 194 × 1,040 × 650 Panel : 10 × 1,290 × 770	Unit : 194 × 1,300 × 650 Panel : 10 × 1,500 × 770
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight	kg		Unit : 27 Panel : 6	Unit : 31 Panel : 7
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 4
Motor	W		40	35 × 2
Starting method			Direct line start	Direct line start
Air flow (Standard)	CMM		Hi : 14 Me : 12 Lo : 10	Hi : 18 Me : 15 Lo : 12
Available static pressure	Pa		0	0
Outside air intake			Possible	possible
Air filter, Q'ty			Pocket plastic net × 2 (Washable)	Pocket plastic net × 3 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping
Refrigerant			R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJC001Z193	PJC001Z194
Electrical wiring			PJC001Z195	PJC001Z196

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJC001Z191

(e) Ceiling cassette-1 way compact type (FDTQ)

Model FDTQ22KXE6

Models			FDTQ22KXE6	FDTQ22KXE6	FDTQ22KXE6	FDTQ22KXE6
Panel model (Option)			Direct blow panel TQ-PSA-15W-E	Direct blow panel TQ-PSB-15W-E	Duct panel QR-PNA-14W-ER	Duct panel QR-PNB-14W-ER
Nominal cooling capacity*1	kW		2.2	2.2	2.2	2.2
Nominal heating capacity*2			2.5	2.5	2.5	2.5
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
	Heat		0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
Running current	Cool	A	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
	Heat		0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
Sound Pressure Level		dB(A)	Hi : 38 Lo : 33	Hi : 38 Lo : 33	Hi : 42 Lo : 39	Hi : 42 Lo : 39
Exterior dimensions Height × Width × Depth		mm	Unit : 250 × 570 × 570 Panel : 35 × 625 × 650	Unit : 250 × 570 × 570 Panel : 35 × 780 × 650	Unit : 250 × 570 × 570 Panel : 35 × 625 × 650	Unit : 250 × 570 × 570 Panel : 35 × 780 × 650
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight	kg		Unit : 19 Panel : 2.5	Unit : 19 Panel : 3	Unit : 19 Panel : 2.5	Unit : 19 Panel : 3
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1
Motor	W		20	20	20	20
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow (Standard)	CMM		Hi : 7 Lo : 5.4	Hi : 7 Lo : 5.4	Hi : 7 Lo : 6.5	Hi : 7 Lo : 6.5
Available static pressure	Pa		0	0	30	30
Outside air intake			Possible	Possible	possible	possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJC001Z188	PJC001Z189	PJC001Z236	PJC001Z237
Electrical wiring			PJC001Z190	PJC001Z190	PJC001Z240	PJC001Z240

Notes (1) The data are measured at the following conditions.

Adapted to RoHS directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJC001Z185

Model FDTQ28KXE6

Models			FDTQ28KXE6	FDTQ28KXE6	FDTQ28KXE6	FDTQ28KXE6
Panel model (Option)			Direct blow panel TQ-PSA-15W-E	Direct blow panel TQ-PSB-15W-E	Duct panel QR-PNA-14W-ER	Duct panel QR-PNB-14W-ER
Nominal cooling capacity*1	kW		2.8	2.8	2.8	2.8
Nominal heating capacity*2			3.2	3.2	3.2	3.2
Power source			220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz
Power consumption	Cool	kW	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
	Heat		0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
Running current	Cool	A	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
	Heat		0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
Sound Pressure Level		dB(A)	Hi : 38 Lo : 33	Hi : 38 Lo : 33	Hi : 42 Lo : 39	Hi : 42 Lo : 39
Exterior dimensions Height × Width × Depth		mm	Unit : 250 × 570 × 570 Panel : 35 × 625 × 650	Unit : 250 × 570 × 570 Panel : 35 × 780 × 650	Unit : 250 × 570 × 570 Panel : 35 × 625 × 650	Unit : 250 × 570 × 570 Panel : 35 × 780 × 650
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 19 Panel : 2.5	Unit : 19 Panel : 3	Unit : 19 Panel : 2.5	Unit : 19 Panel : 3
Refrigerant equipment Heat exchanger			Slit fin & inner grooved tubing	Slit fin & inner grooved tubing	Slit fin & inner grooved tubing	Slit fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1
Motor		W	20	20	20	20
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 7 Lo : 5.4	Hi : 7 Lo : 5.4	Hi : 7 Lo : 6.5	Hi : 7 Lo : 6.5
Available static pressure		Pa	0	0	30	30
Outside air intake			Possible	Possible	possible	possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJC001Z188	PJC001Z189	PJC001Z236	PJC001Z237
Electrical wiring			PJC001Z190	PJC001Z190	PJC001Z240	PJC001Z240

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJC001Z185

Model FDTQ36KXE6

Models			FDTQ36KXE6	FDTQ36KXE6	FDTQ36KXE6	FDTQ36KXE6
Panel model (Option)			Direct blow panel TQ-PSA-15W-E	Direct blow panel TQ-PSB-15W-E	Duct panel QR-PNA-14W-ER	Duct panel QR-PNB-14W-ER
Nominal cooling capacity*1	kW		3.6	3.6	3.6	3.6
Nominal heating capacity*2			4.0	4.0	4.0	4.0
Power source			220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz
Power consumption	Cool	kW	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
	Heat		0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
Running current	Cool	A	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
	Heat		0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
Sound Pressure Level		dB(A)	Hi : 38 Lo : 33	Hi : 38 Lo : 33	Hi : 42 Lo : 39	Hi : 42 Lo : 39
Exterior dimensions Height × Width × Depth		mm	Unit : 250 × 570 × 570 Panel : 35 × 625 × 650	Unit : 250 × 570 × 570 Panel : 35 × 780 × 650	Unit : 250 × 570 × 570 Panel : 35 × 625 × 650	Unit : 250 × 570 × 570 Panel : 35 × 780 × 650
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	Unit : 19 Panel : 2.5	Unit : 19 Panel : 3	Unit : 19 Panel : 2.5	Unit : 19 Panel : 3
Refrigerant equipment Heat exchanger			Slit fin & inner grooved tubing	Slit fin & inner grooved tubing	Slit fin & inner grooved tubing	Slit fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1
Motor		W	20	20	20	20
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 7 Lo : 5.4	Hi : 7 Lo : 5.4	Hi : 7 Lo : 6.5	Hi : 7 Lo : 6.5
Available static pressure		Pa	0	0	30	30
Outside air intake			Possible	Possible	possible	possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJC001Z188	PJC001Z189	PJC001Z236	PJC001Z237
Electrical wiring			PJC001Z190	PJC001Z190	PJC001Z240	PJC001Z240

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJC001Z185

(f) Duct connected - High static pressure type (FDU)

Models FDU71KXE6, 90KXE6, 112KXE6, 140KXE6


Models			FDU71KXE6	FDU90KXE6	FDU112KXE6	FDU140KXE6
Nominal cooling capacity*1	kW		7.1	9.0	11.2	14.0
Nominal heating capacity*2			8.0	10.0	12.5	16.0
Power source			220-240V～50Hz	220-240V～50Hz	220-240V～50Hz	220-240V～50Hz
Power consumption	Cool	kW	0.29 - 0.32	0.35 - 0.39	0.39 - 0.45	0.39 - 0.45
	Heat		0.27 - 0.30	0.34 - 0.38	0.34 - 0.39	0.34 - 0.39
Running current	Cool	A	1.40 - 1.44	1.65 - 1.79	1.83 - 1.94	1.83 - 1.94
	Heat		1.33 -1.37	1.63 - 1.74	1.65 - 1.76	1.65 - 1.76
Sound Pressure Level	dB(A)		Hi : 41 Lo : 37	Hi : 42 Lo : 37	Hi : 42 Lo : 38	Hi : 43 Lo : 39
Exterior dimensions Height × Width × Depth	mm		295 ×850 × 650	350 × 1,370 × 650	350 × 1,370 × 650	350 × 1,370 × 650
Net weight	kg		40	63	63	63
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor	W		230	280	280	370
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow (Standard)	CMM		Hi : 25 Lo : 20	Hi : 34 Lo : 27	Hi : 34 Lo : 27	Hi : 42 Lo : 33.5
Available static pressure	Pa		Standrd : 50 Max : 130	Standrd : 50 Max : 130	Standrd : 50 Max : 130	Standrd : 50 Max : 130
Outside air intake			Possible (on Return duct)	Possible (on Return duct)	Possible (on Return duct)	Possible (on Return duct)
Air filter, Q'ty			Installed on site	Installed on site	Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Drain hose	Drain hose	Drain hose	Drain hose
Exterior dimensions			PJD001Z226	PJD001Z227	PJD001Z227	PJD001Z227
Electrical wiring			-	PJD001Z229	PJD001Z229	PJD001Z229

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJD001Z224 

Models FDU224KXE6, 280KXE6


Models			FDU224KXE6	FDU280KXE6
Nominal cooling capacity*1	kW		22.4	28.0
Nominal heating capacity*2			25.0	31.5
Power source			220-240V〜50Hz / 220V〜60Hz	220-240V〜50Hz / 220V〜60Hz
Power consumption	Cool	kW	0.94 - 1.03 / 1.46	0.96 - 1.05 / 1.48
	Heat		0.86 - 0.90 / 1.28	0.88 - 0.96 / 1.36
Running current	Cool	A	4.30 - 4.34 / 6.60	4.36 - 4.38 / 6.72
	Heat		3.74 - 3.77 / 5.74	3.98 - 4.00/ 6.13
Sound Pressure Level		dB(A)	Hi : 51	Hi : 52
Exterior dimensions Height x Width x Depth		mm	360 × 1,570 × 830	360 × 1,570 × 830
Net weight		kg	92	92
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 4	Centrifugal fan × 4
Motor		W	270 × 2	270 × 2
Starting method			Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 51 / 60	Hi : 68 / 80
Available static pressure		Pa	Max : 200	Max : 200
Outside air intake			Possible (on Return duct)	Possible (on Return duct)
Air filter, Q'ty			Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø9.52 (3/8") Gas line: Ø19.05 (3/4")	Liquid line : Ø9.52 (3/8") Gas line: Ø22.2 (7/8")
Connecting method			Brazing	Brazing
Refrigerant			R410A	R410A
Drain hose			Connectable with VP25	Connectable with VP25
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Exterior dimensions			PJD001Z228	PJD001Z228
Electrical wiring			PJD001Z230	PJD001Z230

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJD001Z224 

(g) Duct connected-Middle static pressure type (FDUM)

Models FDUM22KXE6, 28KXE6, 36KXE6


Models			FDUM22KXE6	FDUM28KXE6	FDUM36KXE6
Nominal cooling capacity*1	kW		2.2	2.8	3.6
Nominal heating capacity*2			2.5	3.2	4.0
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.09 - 0.11 / 0.09	0.11 - 0.13 / 0.11	0.11 - 0.13 / 0.11
	Heat		0.09 - 0.11 / 0.09	0.11 - 0.13 / 0.11	0.11 - 0.13 / 0.11
Running current	Cool	A	0.41 - 0.46 / 0.41	0.51 - 0.56 / 0.51	0.51 - 0.56 / 0.51
	Heat		0.41 - 0.46 / 0.41	0.51 - 0.56 / 0.51	0.51 - 0.56 / 0.51
Sound Pressure Level		dB(A)	Hi : 33 Me : 31 Lo : 28	Hi : 34 Me : 31 Lo : 28	Hi : 34 Me : 31 Lo : 28
Exterior dimensions Height × Width × Depth		mm	299 × 750 × 635	299 × 750 × 635	299 × 750 × 635
Net weight		kg	33	34	34
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor		W	32	60	60
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 10 Me : 9 Lo : 8	Hi : 12 Me : 11 Lo : 10	Hi : 12 Me : 11 Lo : 10
Available static pressure		Pa	Standard : 50/40 Max : 85/90	Standard : 50/40 Max : 85/90	Standard : 50/40 Max : 85/90
Outside air intake			Possible	possible	possible
Air filter, Q'ty			Installed on site	Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP 20	Connectable with VP 20	Connectable with VP 20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Drain hose	Drain hose	Drain hose
Exterior dimensions			PJR002Z254	PJR002Z255	PJR002Z255
Electrical wiring			PJR002Z258	PJR002Z258	PJR002Z258

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJR002Z252 

Models FDUM45KXE6, 56KXE6, 71KXE6


Models			FDUM45KXE6	FDUM56KXE6	FDUM71KXE6
Nominal cooling capacity*1	kW		4.5	5.6	7.1
Nominal heating capacity*2			5.0	6.3	8.0
Power source			220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz
Power consumption	Cool	kW	0.14 - 0.16 / 0.14	0.14 - 0.16 / 0.14	0.15 - 0.17 / 0.15
	Heat		0.14 - 0.16 / 0.14	0.14 - 0.16 / 0.14	0.15 - 0.17 / 0.15
Running current	Cool	A	0.63 - 0.67 / 0.63	0.63 - 0.67 / 0.63	0.68 - 0.71 / 0.71
	Heat		0.63 - 0.67 / 0.63	0.63 - 0.67 / 0.63	0.68 - 0.71 / 0.71
Sound Pressure Level		dB(A)	Hi : 35 Me : 32 Lo : 29	Hi : 35 Me : 32 Lo : 29	Hi : 35 Me : 32 Lo : 29
Exterior dimensions Height × Width × Depth		mm	299 × 750 × 635	299 × 750 × 635	299 × 950 × 635
Net weight		kg	34	34	40
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor		W	60	60	100
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 14 Me : 12 Lo : 11	Hi : 14 Me : 12 Lo : 11	Hi : 18 Me : 16 Lo : 14
Available static pressure		Pa	Standard : 50/40 Max : 85/90	Standard : 50/40 Max : 85/90	Standard : 50/40 Max : 85/100
Outside air intake			Possible	possible	possible
Air filter, Q'ty			Installed on site	Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP 20	Connectable with VP 20	Connectable with VP 20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Drain hose	Drain hose	Drain hose
Exterior dimensions			PJR002Z255	PJR002Z255	PJR002Z256
Electrical wiring			PJR002Z258	PJR002Z258	PJR002Z258

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJR002Z252 

Models FDUM90KXE6, 112KXE6, 140KXE6


Models			FDUM90KXE6	FDUM112KXE6	FDUM140KXE6
Nominal cooling capacity*1	kW		9.0	11.2	14.0
Nominal heating capacity*2			10.0	12.5	16.0
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.16 - 0.19 / 0.16	0.24 - 0.28 / 0.24	0.28 - 0.32 / 0.32
	Heat		0.16 - 0.19 / 0.16	0.24 - 0.28 / 0.24	0.28 - 0.32 / 0.28
Running current	Cool	A	0.73 - 0.79 / 0.73	1.07 - 1.17 / 1.07	1.28 - 1.32 / 1.28
	Heat		0.73 - 0.79 / 0.73	1.07 - 1.17 / 1.07	1.28 - 1.32 / 1.28
Sound Pressure Level		dB(A)	Hi : 36 Me : 33 Lo : 30	Hi : 37 Me : 35 Lo : 32	Hi : 38 Me : 36 Lo : 33
Exterior dimensions Height × Width × Depth		mm	299 × 950 × 635	350 × 1,370 × 635	350 × 1,370 × 635
Net weight		kg	40	59	59
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor		W	100	50 + 100	50 + 100
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 20 Me : 18 Lo : 15	Hi : 28 Me : 25 Lo : 22	Hi : 34 Me : 31 Lo : 27
Available static pressure		Pa	Standard : 50/40 Max : 85/100	Standard : 60/60 Max : 90/100	Standard : 60/55 Max : 85/100
Outside air intake			Possible	possible	possible
Air filter, Q'ty			Installed on site	Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP 20	Connectable with VP 20	Connectable with VP 20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Drain hose	Drain hose	Drain hose
Exterior dimensions			PJR002Z256	PJR002Z257	PJR002Z257
Electrical wiring			PJR002Z258	PJR002Z259	PJR002Z259

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJR002Z252 

(h) Duct connected (Ultra thin) - Low static pressure type (FDQS)

Models FDQS22KXE6, 28KXE6


Models		FDQS22KXE6		FDQS22KXE6		FDQS28KXE6		FDQS28KXE6		
		Rear air return -		Bottom air return -		Rear air return -		Bottom air return -		
Nominal cooling capacity*1	kW	2.2		2.2		2.8		2.8		
Nominal heating capacity*2		2.5		2.5		3.2		3.2		
Power source		220-240V～50Hz / -		220-240V～50Hz / -		220-240V～50Hz / -		220-240V～50Hz / -		
Power consumption	Cool	kW	0.06 - 0.07 / -		0.06 - 0.07 / -		0.06 - 0.07 / -		0.06 - 0.07 / -	
	Heat		0.06 - 0.07 / -		0.06 - 0.07 / -		0.06 - 0.07 / -		0.06 - 0.07 / -	
Running current	Cool	A	0.35 - 0.38 / -		0.35 - 0.38 / -		0.35 - 0.38 / -		0.35 - 0.38 / -	
	Heat		0.35 - 0.38 / -		0.35 - 0.38 / -		0.35 - 0.38 / -		0.35 - 0.38 / -	
Sound Pressure Level	dB(A)	Hi : 37 Me : 35 Lo : 33		Hi : 43 Me : 41 Lo : 39		Hi : 37 Me : 35 Lo : 33		Hi : 43 Me : 41 Lo : 39		
Exterior dimensions Height × Width × Depth	mm	180 × 940 × 580		180 × 940 × 580		180 × 940 × 580		180 × 940 × 580		
Net weight	kg	27		27		27		27		
Refrigerant equipment Heat exchanger		Louver fin & inner grooved tubing		Louver fin & inner grooved tubing		Louver fin & inner grooved tubing		Louver fin & inner grooved tubing		
Refrigerant control		Electronic Expansion Valve		Electronic Expansion Valve		Electronic Expansion Valve		Electronic Expansion Valve		
Air handling equipment Fan type & Q'ty		Centrifugal fan × 1		Centrifugal fan ×1		Centrifugal fan ×1		Centrifugal fan ×1		
Motor	W	25		25		25		25		
Starting method		Direct line start		Direct line start		Direct line start		Direct line start		
Air flow (Standard)	CMM	Hi : 9 Me : 8 Lo : 7.5		Hi : 9 Me : 8 Lo : 7.5		Hi : 9 Me : 8 Lo : 7.5		Hi : 9 Me : 8 Lo : 7.5		
Available static pressure	Pa	Standrd : 15, Max : 30		Standrd : 15 , Max : 30		Standrd : 15 , Max : 30		Standrd : 15 , Max : 30		
Outside air intake		-		-		-		-		
Air filter, Q'ty		Installed on site		Installed on site		Installed on site		Installed on site		
Shock & vibration absorber		Rubber sleeve (for fan motor)		Rubber sleeve (for fan motor)		Rubber sleeve (for fan motor)		Rubber sleeve (for fan motor)		
Insulation (noise & heat)		Polyurethane form		Polyurethane form		Polyurethane form		Polyurethane form		
Operation control Operation switch		Remote control switch Option: RC-E3		Remote control switch Option: RC-E3		Remote control switch Option : RC-E3		Remote control switch Option : RC-E3		
Room temperature control		Thermostat by electronics		Thermostat by electronics		Thermostat by electronics		Thermostat by electronics		
Safety equipment		Internal thermostat for fan motor Frost protection thermostat		Internal thermostat for fan motor Frost protection thermostat		Internal thermostat for fan motor Frost protection thermostat		Internal thermostat for fan motor Frost protection thermostat		
Installation data Refrigerant piping size		Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")		Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")		Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")		Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")		
Connecting method		Flare piping		Flare piping		Flare piping		Flare piping		
Refrigerant		R410A		R410A		R410A		R410A		
Drain pump		Built-in Drain pump		Built-in Drain pump		Built-in Drain pump		Built-in Drain pump		
Drain hose		Connectable with VP20		Connectable with VP20		Connectable with VP20		Connectable with VP20		
Insulation for piping		Necessary (both Liquid & Gas line)		Necessary (both Liquid & Gas line)		Necessary (both Liquid & Gas line)		Necessary (both Liquid & Gas line)		
Accessories		Mounting kit,Drain hose		Mounting kit,Drain hose		Mounting kit, Drain hose		Mounting kit, Drain hose		
Exterior dimensions		PJC001Z199		PJC001Z241		PJC001Z199		PJC001Z241		
Electrical wiring		PJC001Z200		PJC001Z200		PJC001Z200		PJC001Z200		

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive


Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJC001Z197 

Model FDQS36KXE6

Models			FDQS36KXE6	FDQS36KXE6																						
			Rear air return -	Bottom air return -																						
Nominal cooling capacity*1	kW		3.6	3.6																						
Nominal heating capacity*2			4.0	4.0																						
Power source			220-240V～50Hz / -	220-240V～50Hz / -																						
Power consumption	Cool	kW	0.07 - 0.08 / -	0.07 - 0.08 / -																						
	Heat		0.07 - 0.08 / -	0.07 - 0.08 / -																						
Running current	Cool	A	0.36 - 0.39 / -	0.36 - 0.39 / -																						
	Heat		0.36 - 0.39 / -	0.36 - 0.39 / -																						
Sound Pressure Level		dB(A)	Hi : 37 Me : 35 Lo : 33	Hi : 43 Me : 41 Lo : 39																						
Exterior dimensions Height × Width × Depth		mm	180 × 940 × 580	180 × 940 × 580																						
Net weight		kg	28	28																						
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing																						
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve																						
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1																						
Motor		W	25	25																						
Starting method			Direct line start	Direct line start																						
Air flow (Standard)		CMM	Hi : 9 Me : 8 Lo : 7.5	Hi : 9 Me : 8 Lo : 7.5																						
Available static pressure		Pa	Standrd : 15 , Max : 30	Standrd : 15 , Max : 30																						
Outside air intake			-	-																						
Air filter, Q'ty			Installed on site	Installed on site																						
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)																						
Insulation (noise & heat)			Polyurethane form	Polyurethane form																						
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3																						
Room temperature control			Thermostat by electronics	Thermostat by electronics																						
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat																						
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")																						
Connecting method			Flare piping	Flare piping																						
Refrigerant			R410A	R410A																						
Drain pump			Built-in Drain pump	Built-in Drain pump																						
Drain hose			Connectable with VP20	Connectable with VP20																						
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)																						
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose																						
Exterior dimensions			PJC001Z199	PJC001Z241																						
Electrical wiring			PJC001Z200	PJC001Z200																						
Notes (1) The data are measured at the following conditions.																										
Adapted to RoHS directive																										
<table><tr><td>Item</td><td colspan="2">Indoor air temperature</td><td colspan="2">Outdoor air temperature</td><td rowspan="2">Standards</td></tr><tr><td>Operation</td><td>DB</td><td>WB</td><td>DB</td><td>WB</td></tr><tr><td>Cooling*1</td><td>27℃</td><td>19℃</td><td>35℃</td><td>24℃</td><td rowspan="2">ISO-T1</td></tr><tr><td>Heating*2</td><td colspan="2">20℃</td><td>7℃</td><td>6℃</td></tr></table>					Item	Indoor air temperature		Outdoor air temperature		Standards	Operation	DB	WB	DB	WB	Cooling*1	27℃	19℃	35℃	24℃	ISO-T1	Heating*2	20℃		7℃	6℃
Item	Indoor air temperature		Outdoor air temperature		Standards																					
Operation	DB	WB	DB	WB																						
Cooling*1	27℃	19℃	35℃	24℃	ISO-T1																					
Heating*2	20℃		7℃	6℃																						
(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard. ISO-T1 "UNITARY AIR-CONDITIONERS"																										

PJC001Z197 

Models FDQS45KXE6, 56KXE6


Models			FDQS45KXE6	FDQS45KXE6	FDQS56KXE6	FDQS56KXE6
			Rear air return -	Bottom air return -	Rear air return -	Bottom air return -
Nominal cooling capacity*1	kW		4.5	4.5	5.6	5.6
Nominal heating capacity*2			5.0	5.0	6.0	6.0
Power source			220-240V～50Hz / -	220-240V～50Hz / -	220-240V～50Hz / -	220-240V～50Hz / -
Power consumption	Cool	kW	0.07 - 0.08 / -	0.07 - 0.08 / -	0.08 - 0.09 / -	0.08 - 0.09 / -
	Heat		0.07 - 0.08 / -	0.07 - 0.08 / -	0.08 - 0.09 / -	0.08 - 0.09 / -
Running current	Cool	A	0.36 - 0.39 / -	0.36 - 0.39 / -	0.37 - 0.40 / -	0.37 - 0.40 / -
	Heat		0.36 - 0.39 / -	0.36 - 0.39 / -	0.37 - 0.40 / -	0.37 - 0.40 / -
Sound Pressure Level	dB(A)		Hi : 37 Me : 35 Lo : 33	Hi : 43 Me : 41 Lo : 39	Hi : 37 Me : 35 Lo : 33	Hi : 43 Me : 41 Lo : 39
Exterior dimensions Height × Width × Depth	mm		180 × 940 × 580	180 × 940 × 580	180 × 940 × 580	180 × 940 × 580
Net weight	kg		28	28	28	28
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan ×1	Centrifugal fan ×1	Centrifugal fan ×1
Motor	W		25	25	25	25
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow (Standard)	CMM		Hi : 11 Me : 10 Lo : 9	Hi : 11 Me : 10 Lo : 9	Hi : 11 Me : 10 Lo : 9	Hi : 11 Me : 10 Lo : 9
Available static pressure	Pa		Standrd : 15 , Max : 30	Standrd : 15 , Max : 30	Standrd : 15 , Max : 30	Standrd : 15 , Max : 30
Outside air intake			-	-	-	-
Air filter, Q'ty			Installed on site	Installed on site	Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJC001Z199	PJC001Z241	PJC001Z199	PJC001Z241
Electrical wiring			PJC001Z200	PJC001Z200	PJC001Z200	PJC001Z200

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PJC001Z197 

(i) Wall-mounted type (FDK)

Models FDK22KXE6, 28KXE6, 36KXE6


Models			FDK22KXE6	FDK28KXE6	FDK36KXE6
Nominal cooling capacity*1	kW		2.2	2.8	3.6
Nominal heating capacity*2			2.5	3.2	4.0
Power source			220-240V ～50Hz / 220V ～60Hz	220-240V ～50Hz / 220V ～60Hz	220-240V ～50Hz / 220V ～60Hz
Power consumption	Cool	kW	0.05	0.05	0.05
	Heat		0.04	0.04	0.04
Running current	Cool	A	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23
	Heat		0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23
Sound Pressure Level		dB(A)	Hi : 35 Me : 33 Lo : 31	Hi : 35 Me : 33 Lo : 31	Hi : 39 Me : 35 Lo : 31
Exterior dimensions Height × Width × Depth		mm	298 × 840 × 259	298 × 840 × 259	298 × 840 × 259
Exterior appearance (Munsell color)			Cool White (9.3G8.7 / 0.1) near equivalent	Cool White (9.3G8.7 / 0.1) near equivalent	Cool White (9.3G8.7 / 0.1) near equivalent
Net weight		kg	12	12	12
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Tangential fan × 1	Tangential fan × 1	Tangential fan × 1
Motor		W	33	33	33
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 8 Me : 7 Lo : 6	Hi : 8 Me : 7 Lo : 6	Hi : 10 Me : 9 Lo : 7
Available static pressure		Pa	0	0	0
Outside air intake			Not possible	Not possible	Not possible
Air filter, Q'ty			Polypropylene net × 2 (Washable)	Polypropylene net × 2 (Washable)	Polypropylene net × 2 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line : Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain hose			Connectable with VP16	Connectable with VP16	Connectable with VP16
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Standard Accessories			Mounting kit	Mounting kit	Mounting kit
Exterior dimensions			PHA000Z981	PHA000Z981	PHA000Z981
Electrical wiring			PHA000Z983	PHA000Z983	PHA000Z983

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PHA000Z979 

Models FDK45KXE6, 56KXE6, 71KXE6


Models			FDK45KXE6	FDK56KXE6	FDK71KXE6
Nominal cooling capacity*1	kW		4.5	5.6	7.1
Nominal heating capacity*2			5.0	6.3	8.0
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.05	0.05	0.09
	Heat		0.05	0.05	0.09
Running current	Cool	A	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.41 - 0.48 / 0.41
	Heat		0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.41 - 0.48 / 0.41
Sound Pressure Level		dB(A)	Hi : 42 Me : 37 Lo : 33	Hi : 46 Me : 42 Lo : 37	Hi : 47 Me : 43 Lo : 39
Exterior dimensions Height × Width × Depth		mm	298 × 840 × 259	298 × 840 × 259	318 × 1,098 × 248
Exterior appearance (Munsell color)			Cool White (9.3G8.7 / 0.1) near equivalent	Cool White (9.3G8.7 / 0.1) near equivalent	Cool White (9.3G8.7 / 0.1) near equivalent
Net weight		kg	12.5	13	15.5
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Tangential fan × 1	Tangential fan × 1	Tangential fan × 1
Motor		W	33	33	45
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 11 Me : 9 Lo : 7	Hi : 14 Me : 12 Lo : 10	Hi : 21 Me : 18 Lo : 15
Available static pressure		Pa	0	0	0
Outside air intake			Not possible	Not possible	Not possible
Air filter, Q'ty			Polypropylene net × 2 (Washable)	Polypropylene net × 2 (Washable)	Polypropylene net × 2 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø9.52 (3/8") Gas line : Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain hose			Connectable with VP16	Connectable with VP16	Connectable with VP16
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Standard Accessories			Mounting kit	Mounting kit	Mounting kit
Exterior dimensions			PHA000Z981	PHA000Z981	PHA000Z982
Electrical wiring			PHA000Z983	PHA000Z983	PHA000Z984

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PHA000Z979 

(j) Ceiling suspended type (FDE)

Models FDE36KXE6A, 45KXE6A, 56KXE6A

Models			FDE36KXE6A	FDE45KXE6A	FDE56KXE6A
Nominal cooling capacity*1	kW		3.6	4.5	5.6
Nominal heating capacity*2			4.0	5.0	6.3
Power source			220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz
Power consumption	Cool	kW	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
	Heat		0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
Running current	Cool	A	0.19 - 0.21 / 0.23	0.19 - 0.21 / 0.23	0.19 - 0.21 / 0.23
	Heat		0.19 - 0.21 / 0.23	0.19 - 0.21 / 0.23	0.19 - 0.21 / 0.23
Sound Pressure Level		dB(A)	Hi : 39 Me : 38 Lo : 36	Hi : 39 Me : 38 Lo : 36	Hi : 39 Me : 38 Lo : 36
Exterior dimensions Height × Width × Depth		mm	210 × 1,070 × 690	210 × 1,070 × 690	210 × 1,070 × 690
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	28	28	28
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor		W	25	25	25
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 11 Me : 9 Lo : 7	Hi : 11 Me : 9 Lo : 7	Hi : 11 Me : 9 Lo : 7
Available static pressure		Pa	0	0	0
Outside air intake			Not possible	Not possible	Not possible
Air filter, Q'ty			Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PFA003Z823	PFA003Z823	PFA003Z823
Electrical wiring			PFA003Z826	PFA003Z826	PFA003Z826

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PFA003Z821

Models FDE71KXE6A, 112KXE6A, 140KXE6A

Models			FDE71KXE6A	FDE112KXE6A	FDE140KXE6A
Nominal cooling capacity*1	kW		7.0	11.2	14.0
Nominal heating capacity*2			8.0	12.5	16.0
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.08 - 0.09 / 0.09	0.12 - 0.14 / 0.14	0.14 - 0.15 / 0.16
	Heat		0.07 - 0.08 / 0.08	0.11 - 0.13 / 0.13	0.13 - 0.14 / 0.15
Running current	Cool	A	0.37 - 0.38 / 0.41	0.56 - 0.59 / 0.65	0.64 - 0.65 / 0.73
	Heat		0.34 - 0.35 / 0.37	0.52 - 0.54 / 0.59	0.59 - 0.59 / 0.68
Sound Pressure Level		dB(A)	Hi : 41 Me : 39 Lo : 37	Hi : 44 Me : 41 Lo : 39	Hi : 46 Me : 44 Lo : 43
Exterior dimensions Height × Width × Depth		mm	210 × 1,320 × 690	250 × 1,620 × 690	250 × 1,620 × 690
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent	Plaster White (6.8Y8.9 / 0.2) near equivalent
Net weight		kg	37	49	49
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan ×4	Centrifugal fan ×4	Centrifugal fan ×4
Motor		W	20 × 2	30 × 2	40 × 2
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 18 Me : 14 Lo : 12	Hi : 26 Me : 23 Lo : 21	Hi : 29 Me : 26 Lo : 23
Available static pressure		Pa	0	0	0
Outside air intake			Not possible	Not possible	Not possible
Air filter, Q'ty			Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")	Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PFA003Z824	PFA003Z825	PFA003Z825
Electrical wiring			PFA003Z827	PFA003Z827	PFA003Z827

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PFA003Z821

(k) Floor standing (with casing)type [FDFL]**Model FDFL71KXE6**

Models			FDL71KXE6
Nominal cooling capacity*1	kW		7.1
Nominal heating capacity*2			8.0
Power source			220-240V ~ 50Hz
Power consumption	Cool	kW	0.09 - 0.10
	Heat		0.09 - 0.10
Running current	Cool	A	0.40 - 0.41
	Heat		0.40 - 0.41
Sound Pressure Level		dB(A)	Hi : 43 Me : 41 Lo : 40
Exterior dimensions Height × Width × Depth		mm	630 × 1,481 × 225
Exterior appearance (Munsell color)			Ceramic White (N8.0) near equivalent
Net weight	kg		40
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2
Motor	W		40
Starting method			Direct line start
Air flow (Standard)	CMM		Hi : 18 Me : 15 Lo : 12
Available static pressure	Pa		0
Outside air intake			Not possible
Air filter, Q'ty			Polypropylene net × 2 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø9.52 (3/8") Gas line: Ø15.88 (5/8")
Connecting method			Flare piping
Refrigerant			R410A
Drain hose			Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)
Accessories			Mounting kit, Drain hose
Exterior dimensions			PGD000Z052
Electrical wiring			PGD000Z053

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PGD000Z049

(I) Floor standing (without casing) type [FDFU]

Models FDFU28KXE6, 45KXE6, 56KXET, 71KXE6

Models			FDFU28KXE6	FDFU45KXE6	FDFU56KXE6	FDFU71KXE6
Nominal cooling capacity*1	kW		2.8	4.5	5.6	7.1
Nominal heating capacity*2			3.2	5.0	6.3	8.0
Power source			220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Power consumption	Cool	kW	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10
	Heat		0.09 - 0.10	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10
Running current	Cool	A	0.41 - 0.42	0.40 - 0.41	0.40 - 0.41	0.40 - 0.41
	Heat		0.41 - 0.42	0.40 - 0.41	0.40 - 0.41	0.40 - 0.41
Sound Pressure Level		dB(A)	Hi : 41 Me : 38 Lo : 36	Hi : 43 Me : 41 Lo : 40	Hi : 43 Me : 41 Lo : 40	Hi : 43 Me : 41 Lo : 40
Exterior dimensions Height × Width × Depth		mm	630 × 1,077 × 225	630 × 1,077 × 225	630 × 1,077 × 225	630 × 1,362 × 225
Net weight		kg	25	25	25	32
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor		W	30	40	40	40
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 12 Me : 11 Lo : 10	Hi : 14 Me : 12 Lo : 10	Hi : 14 Me : 12 Lo : 10	Hi : 18 Me : 15 Lo : 12
Available static pressure		Pa	0	0	0	0
Outside air intake			Not possible	Not possible	Not possible	Not possible
Air filter, Q'ty			Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PGD000Z056	PGD000Z056	PGD000Z056	PGD000Z057
Electrical wiring			PGD000Z058	PGD000Z058	PGD000Z058	PGD000Z058

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PGD000Z054

(m) Floor standing-2 way type (FDFW)

Models FDFW28KXE6, 45KXE6, 56KXE6

Models			FDFW28KXE6	FDFW45KXE6	FDFW56KXE6
Nominal cooling capacity*1	kW		2.8	4.5	5.6
Nominal heating capacity*2			3.2	5.0	6.3
Power source			220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.02 - 0.02 / 0.02	0.03 - 0.03 / 0.03	0.05 - 0.05 / 0.05
	Heat		0.02 - 0.02 / 0.02	0.03 - 0.03 / 0.03	0.04 - 0.05 / 0.05
Running current	Cool	A	0.17 - 0.16 / 0.17	0.189 - 0.17 / 0.18	0.27 - 0.25 / 0.27
	Heat		0.17 - 0.16 / 0.17	0.18 - 0.17 / 0.18	0.27 - 0.25 / 0.27
Sound Pressure Level		dB(A)	Hi : 36 Me : 34 Lo : 30	Hi : 38 Me : 36 Lo : 33	Hi : 44 Me : 37 Lo : 33
Exterior dimensions Height × Width × Depth		mm	600 × 860 × 238	600 × 860 × 238	600 × 860 × 238
Exterior appearance (Munsell color)			Fine Sonow (8.0Y9.3 / 0.1) near equivalent	Fine Sonow (8.0Y9.3 / 0.1) near equivalent	Fine Sonow (8.0Y9.3 / 0.1) near equivalent
Net weight		kg	19	20	20
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan ×1	Turbo fan ×1	Turbo fan ×1
Motor		W	40	40	40
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 9 Me : 8 Lo : 7	Hi : 9 Me : 8 Lo : 7	Hi : 11 Me : 9 Lo : 8
Available static pressure		Pa	0	0	0
Outside air intake			Not possible	Not possible	Not possible
Air filter, Q'ty			Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain hose			Connectable with VP16 (I.D. 16.0)	Connectable with VP16 (I.D. 16.0)	Connectable with VP16 (I.D. 16.0)
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit	Mounting kit	Mounting kit
Exterior dimensions			PGF000Z003	PGF000Z003	PGF000Z003
Electrical wiring			PGF000Z004	PGF000Z004	PGF000Z004

Notes (1) The data are measured at the following conditions.

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

PGF000Z001

(n) Duct Connected - Compact and Flexible - type (FDUH)

Models FDUH22KXE6, 28KXE6, 36KXE6

Models			FDUH22KXE6	FDUH28KXE6	FDUH36KXE6
Nominal cooling capacity*1	kW		2.2	2.8	3.6
Nominal heating capacity*2			2.5	3.2	4.0
Power source			220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz
Power consumption	Cool	kW	0.050 - 0.055 / 0.053	0.050 - 0.055 / 0.053	0.050 - 0.055 / 0.053
	Heat		0.050 - 0.055 / 0.053	0.050 - 0.055 / 0.053	0.050 - 0.055 / 0.053
Running current	Cool	A	0.23 - 0.24 / 0.26	0.23 - 0.24 / 0.26	0.23 - 0.24 / 0.26
	Heat		0.23 - 0.24 / 0.26	0.23 - 0.24 / 0.26	0.23 - 0.24 / 0.26
Sound Pressure Level		dB(A)	Hi : 33 Me : 30 Lo : 27	Hi : 33 Me : 30 Lo : 27	Hi : 33 Me : 30 Lo : 27
Exterior dimensions Height × Width × Depth		mm	Unit : 257 × 570 × 530	Unit : 257 × 570 × 530	Unit : 257 × 570 × 530
Net weight		kg	20	20	20
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Slit fin & inner grooved tubing	Slit fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1
Motor		W	20	20	20
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 7 Me : 6.5 Lo : 6	Hi : 7 Me : 6.5 Lo : 6	Hi : 7 Me : 6.5 Lo : 6
Available static pressure		Pa	30	30	30
Outside air intake			Not possible	Not possible	Not possible
Air filter, Q'ty			Procure locally	Procure locally	Procure locally
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option : RC-E3	Remote control switch Option : RC-E3	Remote control switch Option : RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line: Ø9.52 (3/8")	Liquid line : Ø6.35 (1/4") Gas line: Ø12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain hose			Connectable with VP20	Connectable with VP20	Connectable with VP20
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Standard Accessories			Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions			PJC001Z253	PJC001Z253	PJC001Z253
Electrical wiring			PJC001Z255	PJC001Z255	PJC001Z255

Notes (1) The data are measured at the following conditions.


Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.

ISO-T1 "UNITARY AIR-CONDITIONERS"

(3) As for "Exterior dimensions" of <Bottom suction setting> , refer to "PJC001Z254".

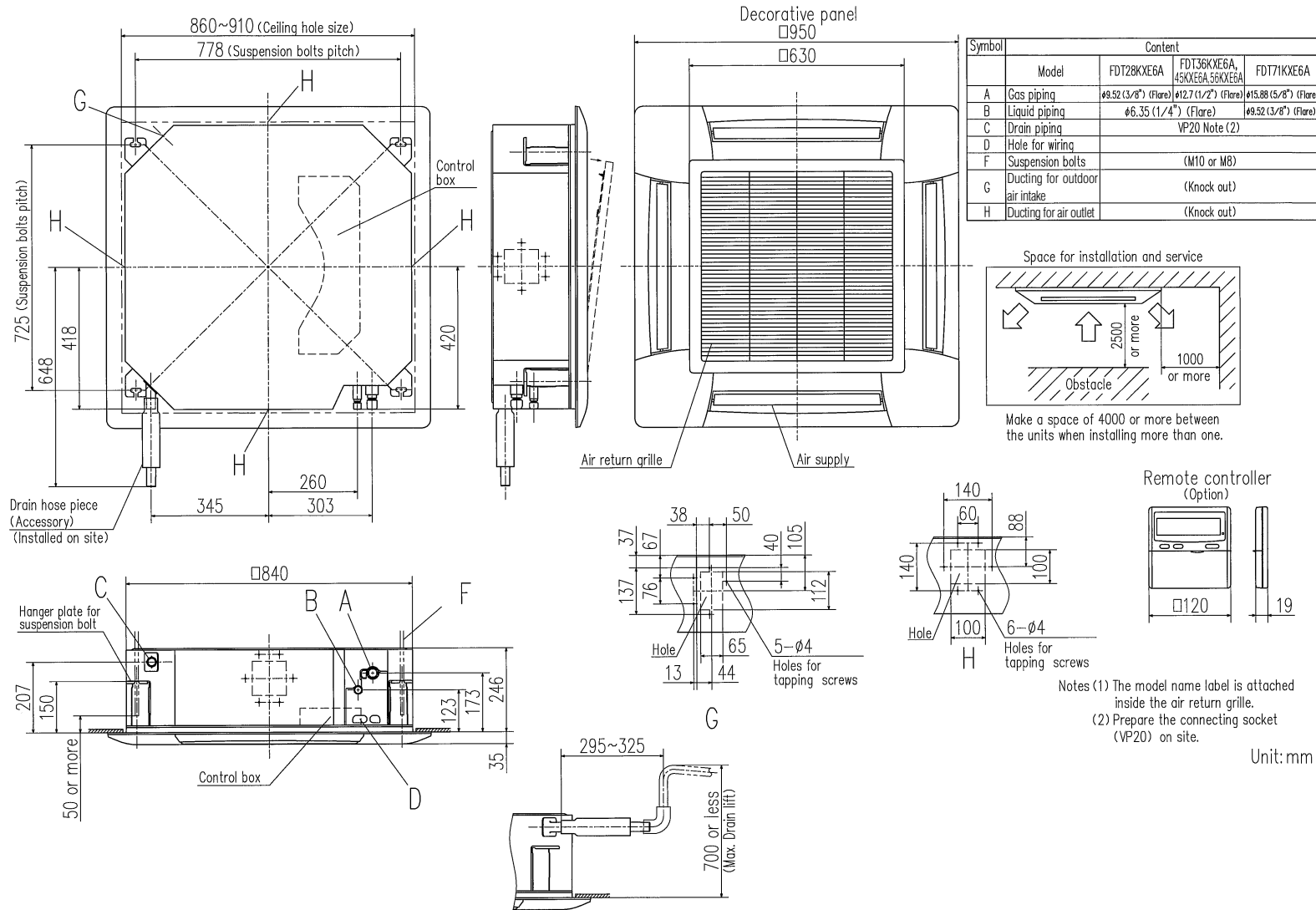
PJC001Z250 

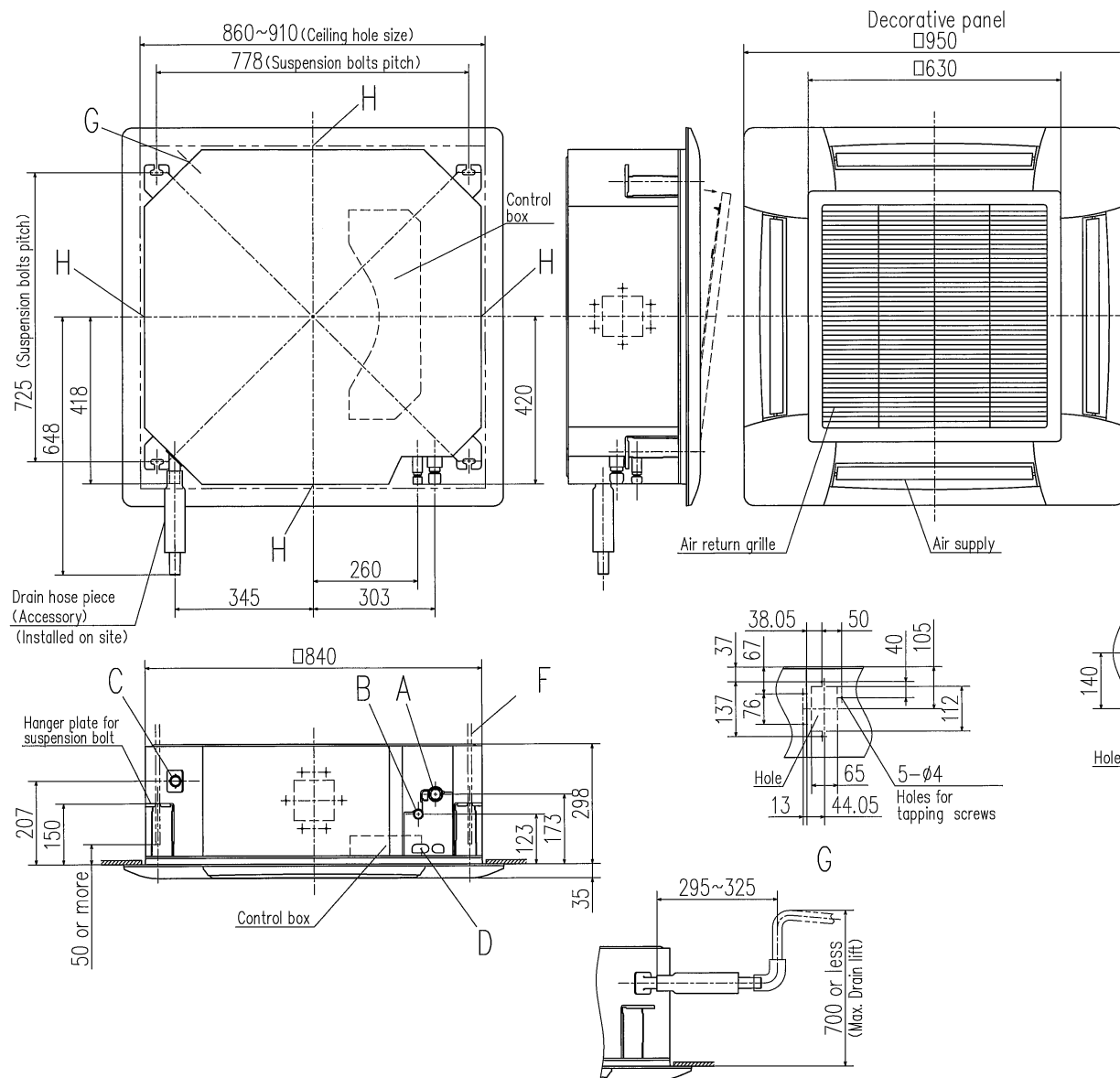
3.2 Exterior dimensions

(1) Indoor unit

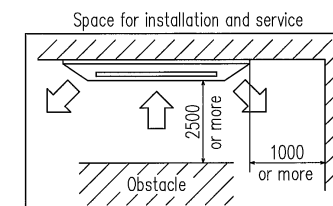
(a) Ceiling cassette-4 way type (FDT)

Models FDT28KXE6A, 36KXE6A, 45KXE6A, 56KXE6A, 71KXE6A



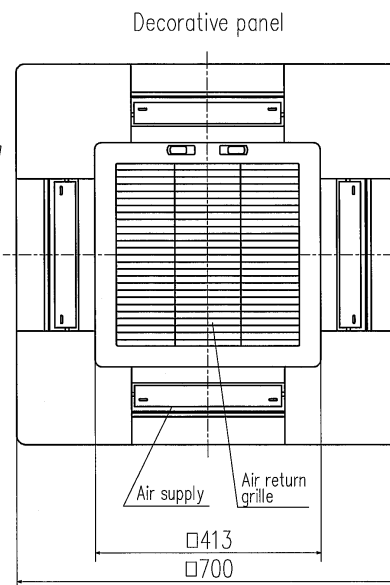
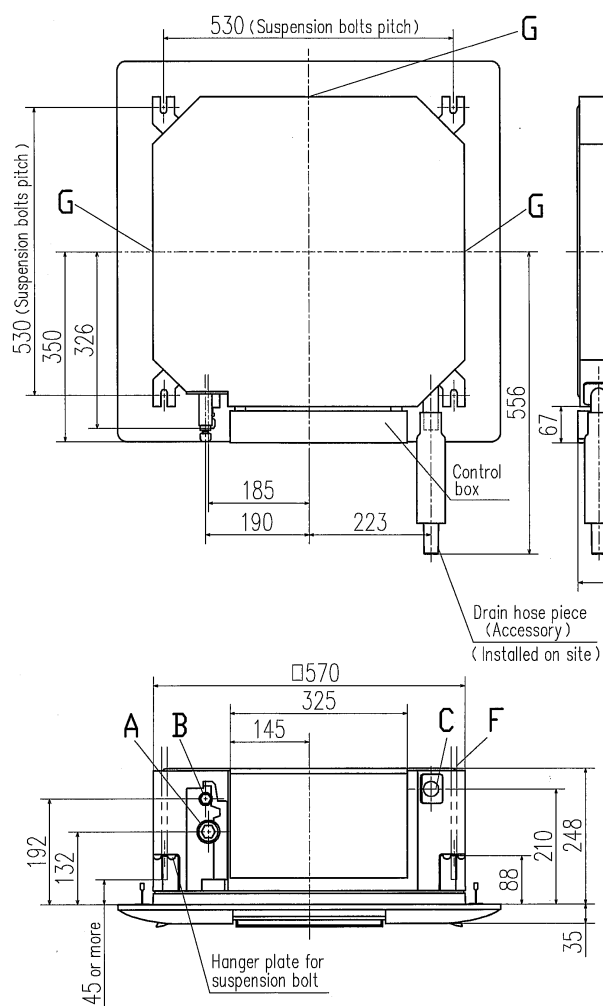


Symbol	Content
A	Gas piping φ15.88 (5/8") (Flare)
B	Liquid piping φ9.52 (3/8") (Flare)
C	Drain piping VP20 Note (2)
D	Hole for wiring
F	Suspension bolts (M10 or M8)
G	Ducting for outdoor air intake (Knock out)
H	Ducting for air outlet (Knock out)

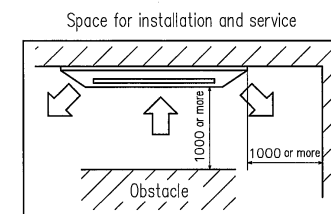


Make a space of 5000 or more between the units when installing more than one.

(b) Ceiling cassette-4 way compact type (FDTC)
Models FDTC22KXE6B, 28KXE6B, 36KXE6B, 45KXE6B, 56KXE6B

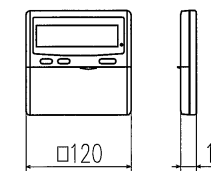


Symbol	Content	
	Model	FDTC22KXE6B, 28KXE6B
		FDTC36KXE6B, 45KXE6B, 56KXE6B
A	Gas piping	φ9.52 (3/8") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C	Drain piping	VP20 (I.D.20,O.D.26) Note (2)
D	Hole for wiring	φ25
F	Suspension bolts	(M10 or M8)
G	Air outlet opening for ducting	(Knock out)



Make a space of 4000 or more between the units when installing more than one.

Remote controller (Option)



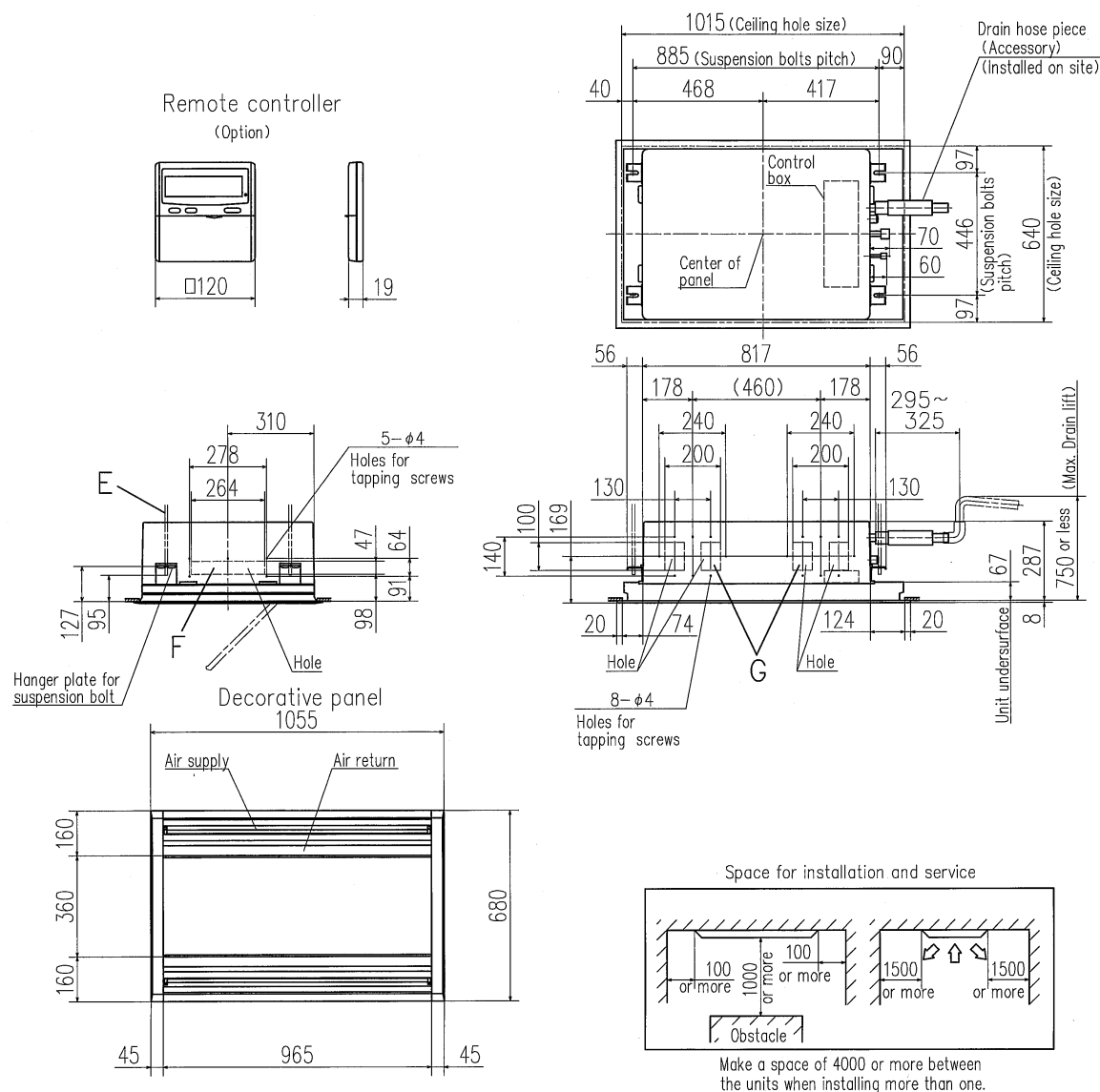
Unit: mm

- Notes (1) The model name label is attached on the control box lid.
 (2) Prepare the connecting socket (VP20) on site.
 (3) This unit is designed for 2x2 grid ceiling.
 If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection port on the control box side.

PJA003Z339

(C) Ceiling cassette-2 way type (FDTW)
Models FDTW28KXE6, 45KXE6, 56KXE6

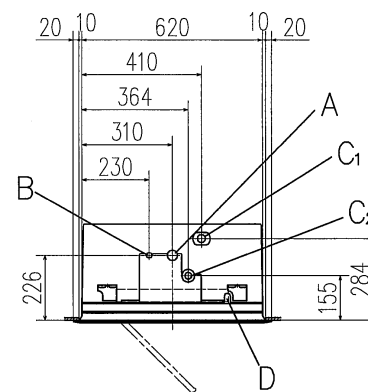
Symbol	Content
	Model
	FDTW28KXE6
	FDTW45KXE6, 56KXE6
A	Gas piping $\phi 9.52$ (3/8") (Flare) $\phi 12.7$ (1/2") (Flare)
B	Liquid piping $\phi 6.35$ (1/4") (Flare)
C1	Drain piping VP20 Note (2)
C2	Drain piping (Gravity drainage) VP20
D	Hole for wiring
E	Suspension bolts (M10)
F	Ducting for outdoor air intake (Knock out)
G	Ducting for air outlet (Knock out)



Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

Unit: mm

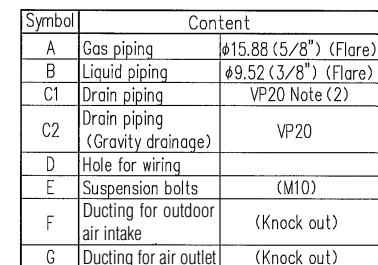
PJB001Z557



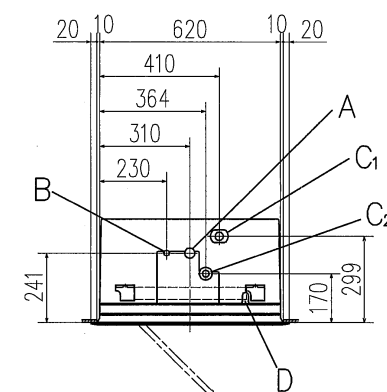
Symbol	Content
A	Gas piping ø15.88 (5/8") (Flare)
B	Liquid piping ø9.52 (3/8") (Flare)
C1	Drain piping VP20 Note (2)
C2	Drain piping (Gravity drainage) VP20
D	Hole for wiring
E	Suspension bolts (M10)
F	Ducting for outdoor air intake (Knock out)
G	Ducting for air outlet (Knock out)

Notes (1) The model name label is attached on the lid of control box.
(2) Prepare the connecting socket (VP20) on site.

Unit: mm



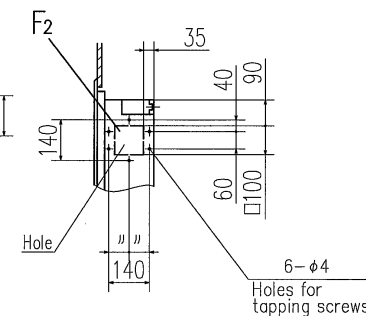
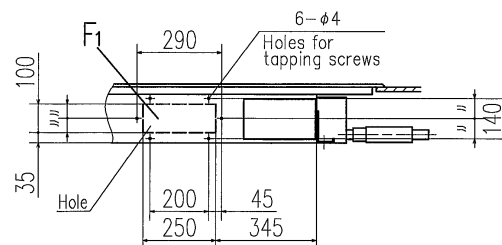
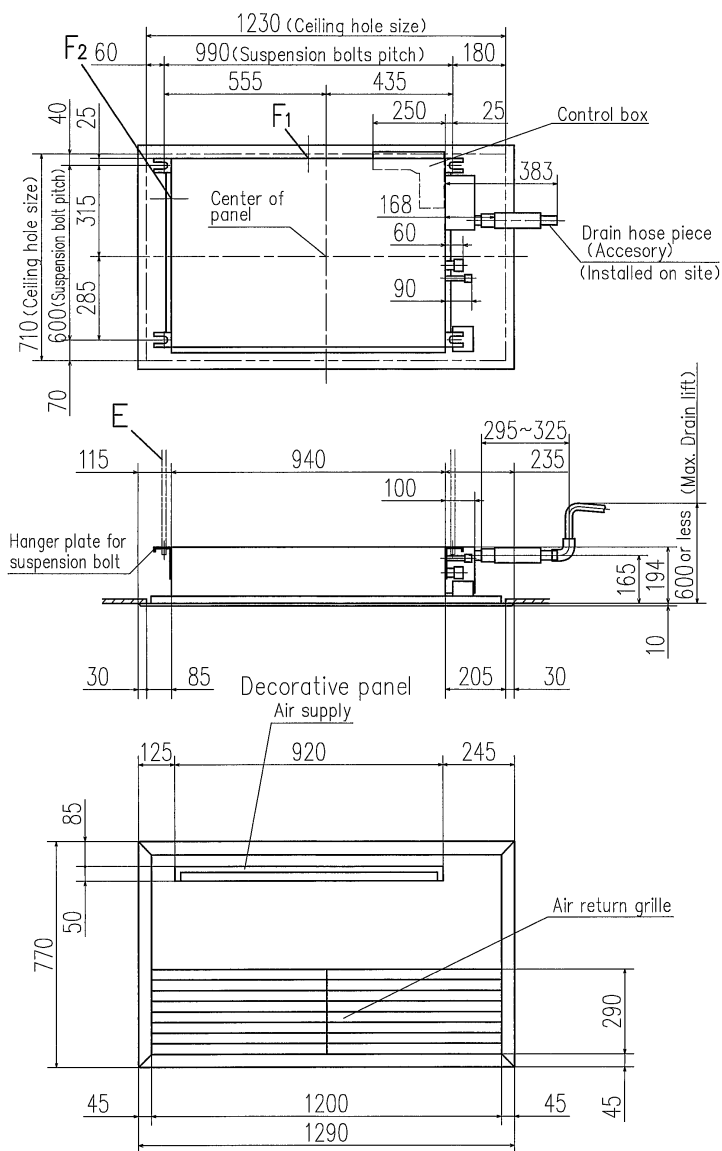
Models FDTW112KXE6, 140KXE6



Notes (1) The model name label is attached on the lid of control box.
(2) Prepare the connecting socket (VP20) on site.

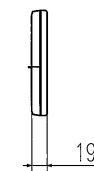
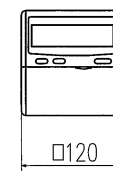
Unit: mm

(d) Ceiling cassette-1 way type (FDTS)
Model FDTS45KXE6



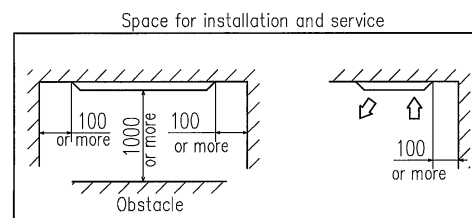
Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C	Drain piping	VP20 Note (2)
D	Hole for wiring	φ35
E	Suspension bolts	(M10)
F1,2	Ducting for outdoor air intake	(Knock out)

Remote controller
(Option)



- Notes (1) The model name label is attached on the fan case inside the air return grille.
(2) Prepare the connecting socket (VP20) on site.

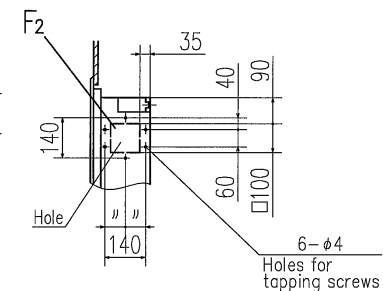
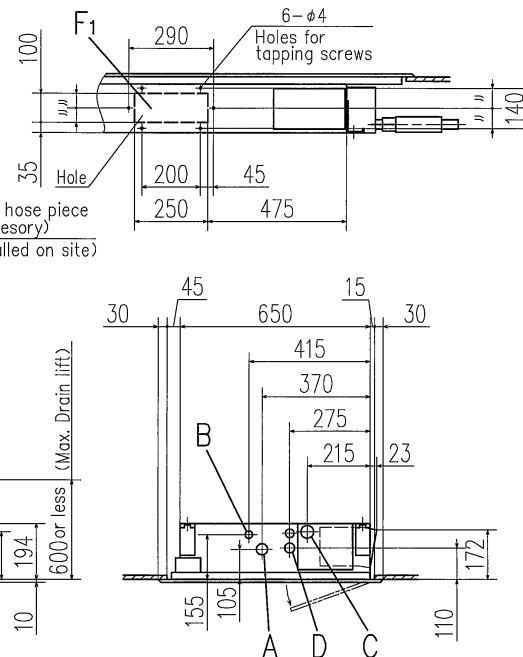
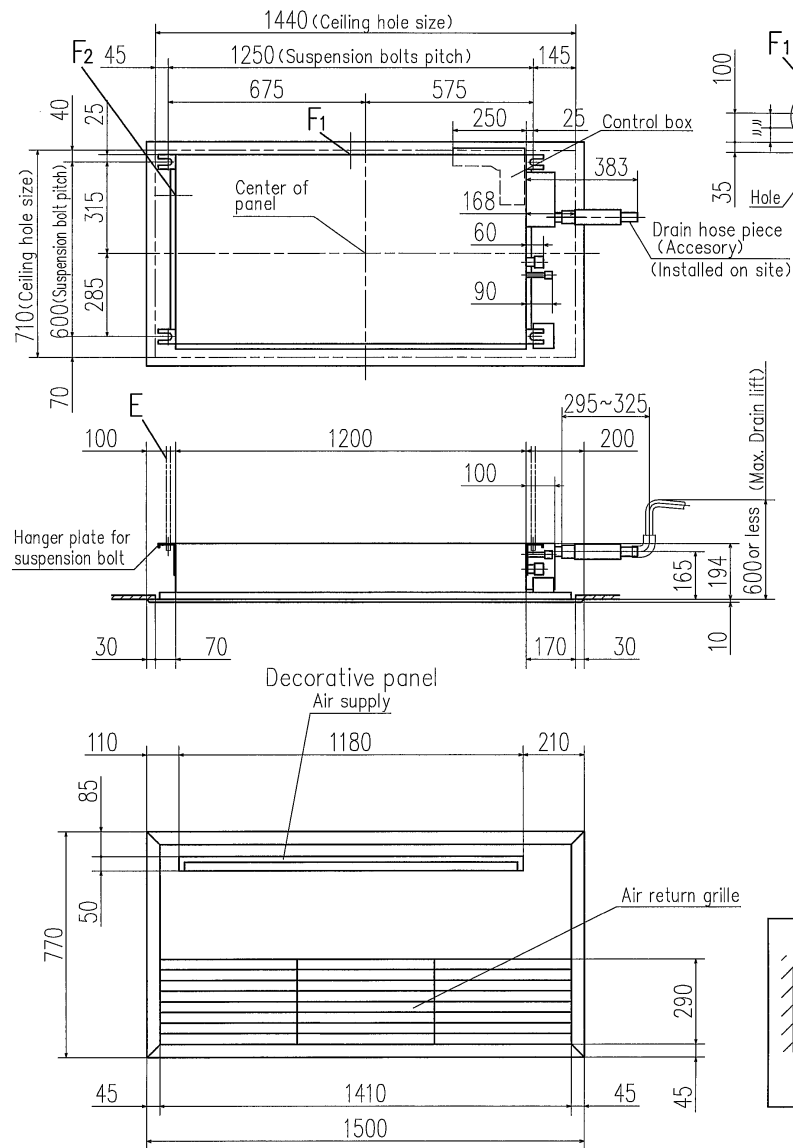
Unit:mm



Make a space of 4000 or more between the units when installing more than one.

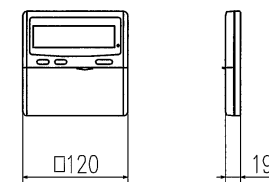
PJC001Z193

PJC001Z194



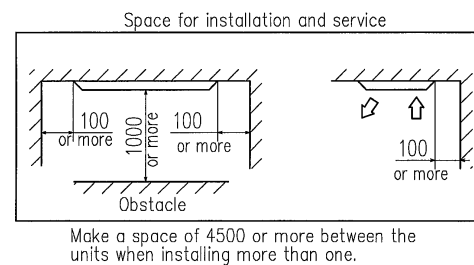
Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C	Drain piping	VP20 Note (2)
D	Hole for wiring	φ35
E	Suspension bolts	(M10)
F1,2	Ducting for outdoor air intake	(Knock out)

Remote controller
(Option)



- Notes (1) The model name label is attached on the fan case inside the air return grille.
(2) Prepare the connecting socket (VP20) on site.

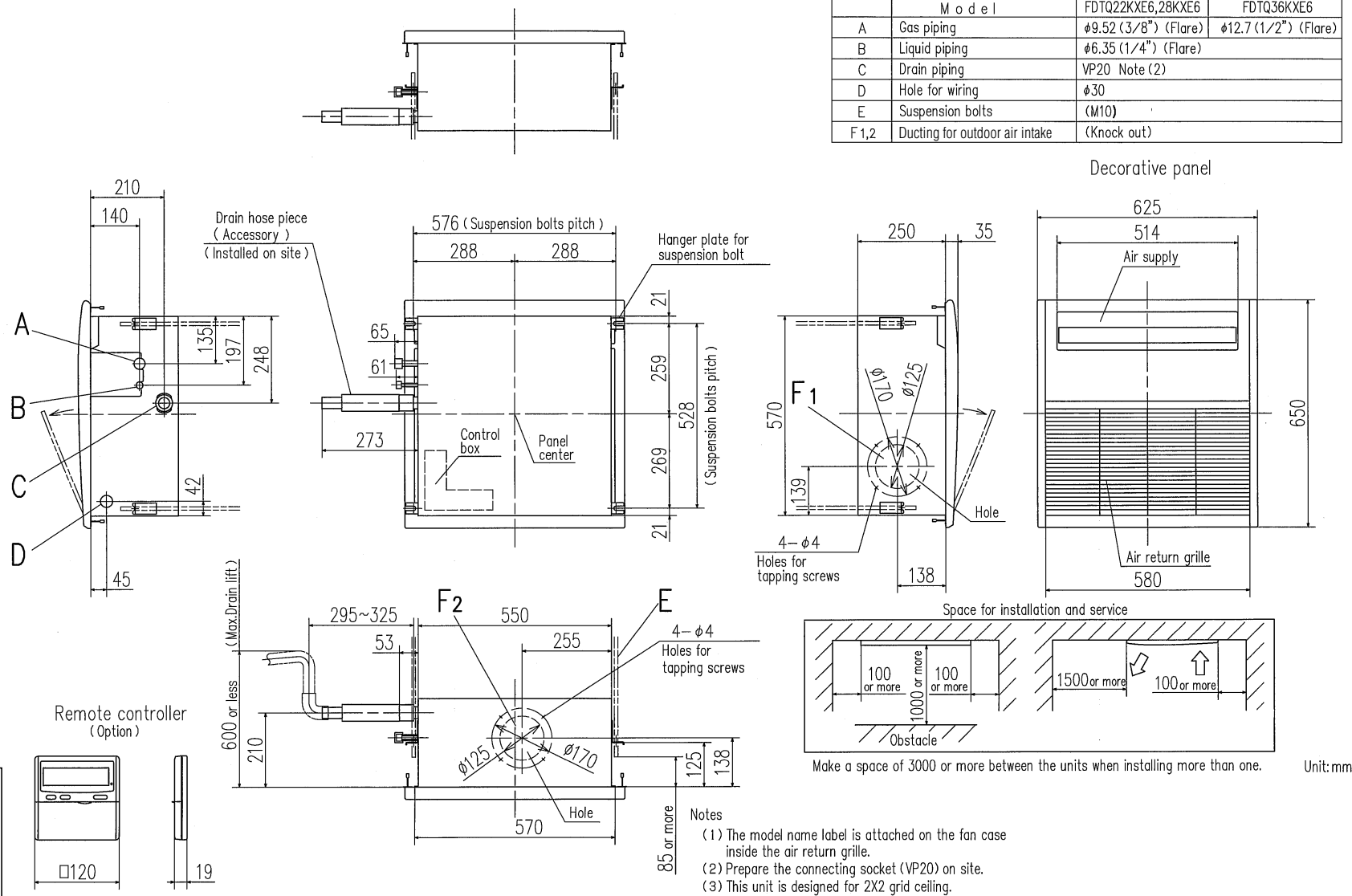
Unit: mm



(e) Ceiling cassette-1 way compact type (FDTQ)
Models FDTQ22KXE6, 28KXE6, 36KXE6

Symbol	Content		
	Model	FDTQ22KXE6, 28KXE6	FDTQ36KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D	Hole for wiring	φ30	
E	Suspension bolts	(M10)	
F 1,2	Ducting for outdoor air intake	(Knock out)	

Decorative panel



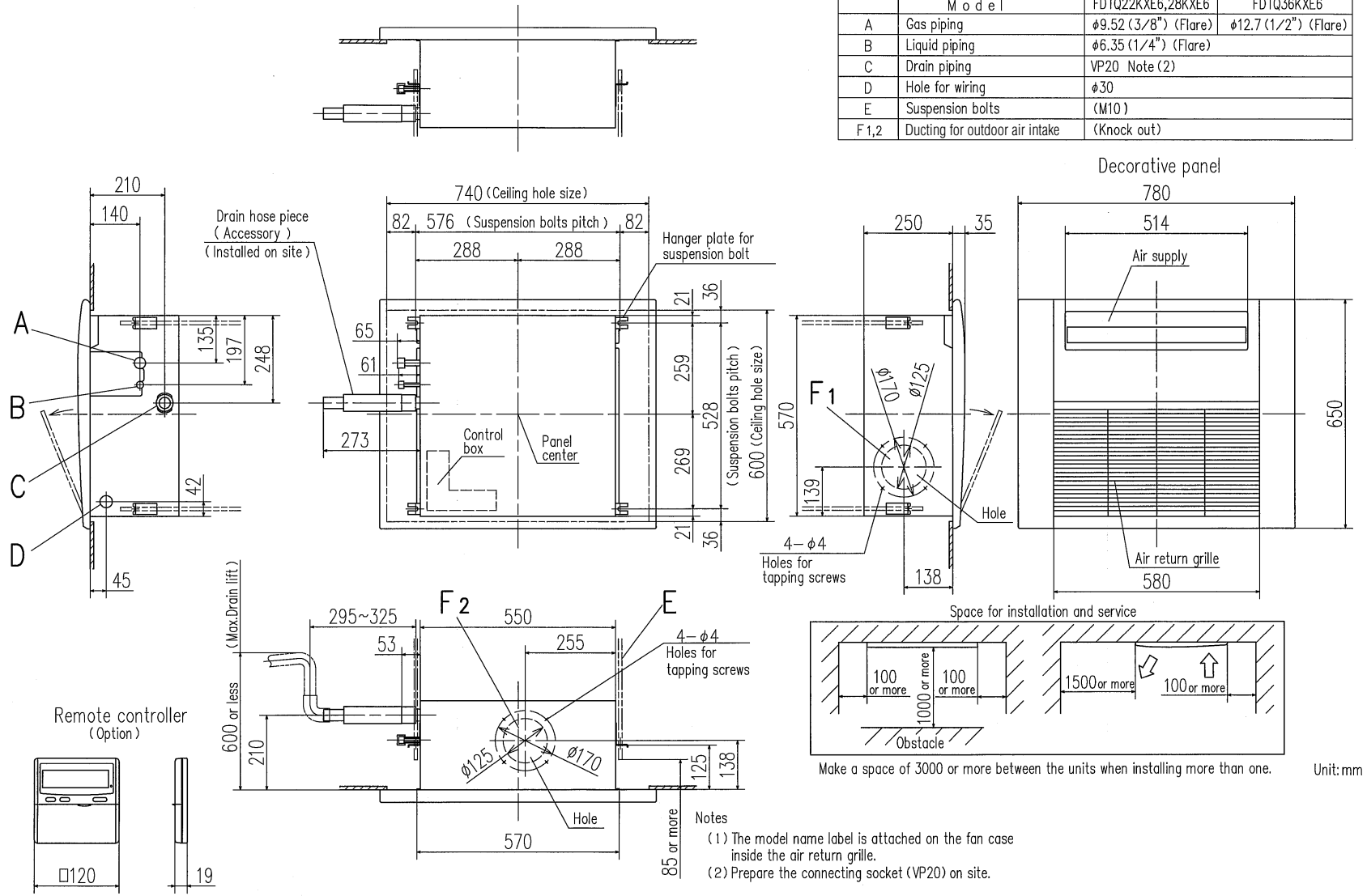
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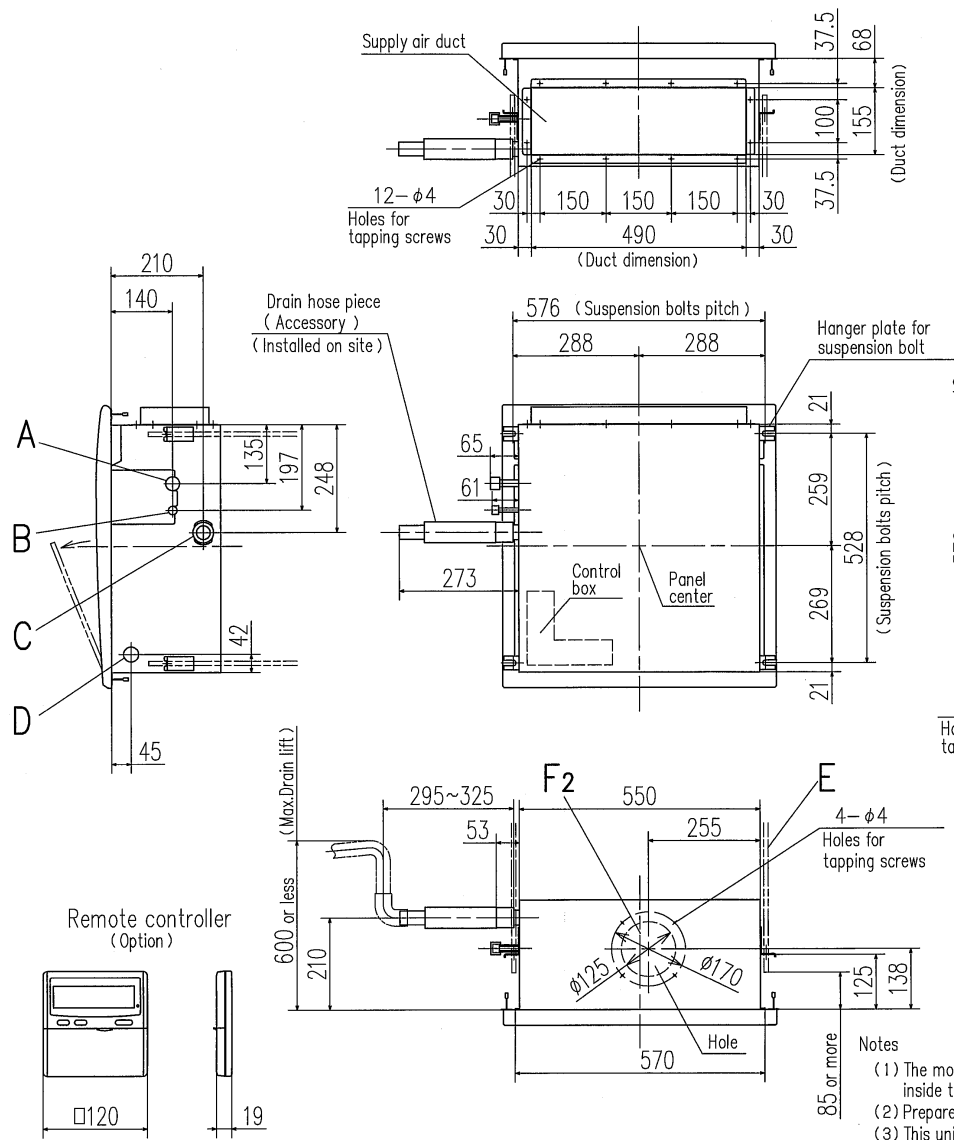
- (1) The model name label is attached on the fan case inside the air return grille.
- (2) Prepare the connecting socket (VP20) on site.
- (3) This unit is designed for 2X2 grid ceiling.

Direct blow panel (TQ-PSA-15W-E)

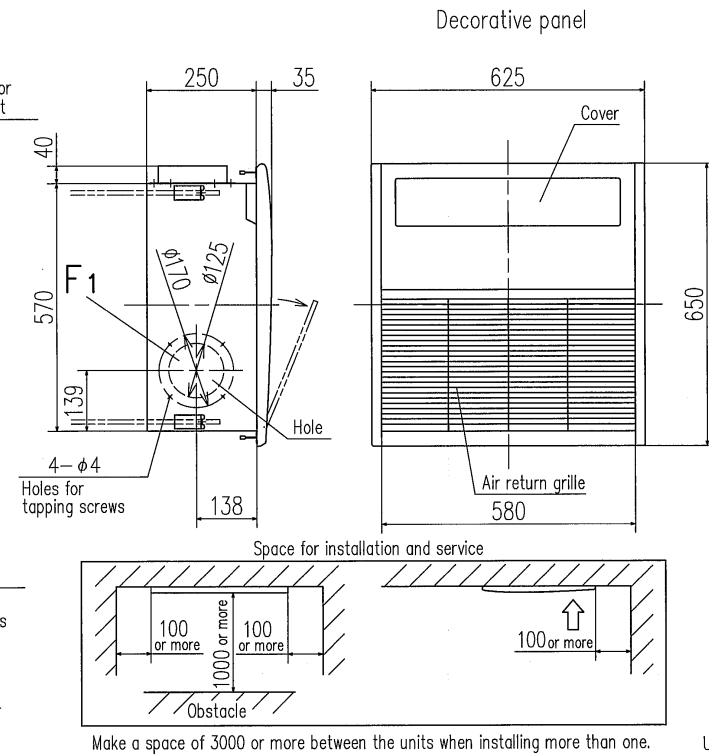
PJC001Z188

Symbol	Content		
	Model	FDTQ22KXE6, 28KXE6	FDTQ36KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D	Hole for wiring	φ30	
E	Suspension bolts	(M10)	
F 1,2	Ducting for outdoor air intake	(Knock out)	





Symbol	Content
	Model
A	Gas piping
B	Liquid piping
C	Drain piping
D	Hole for wiring
E	Suspension bolts
F 1,2	Ducting for outdoor air intake

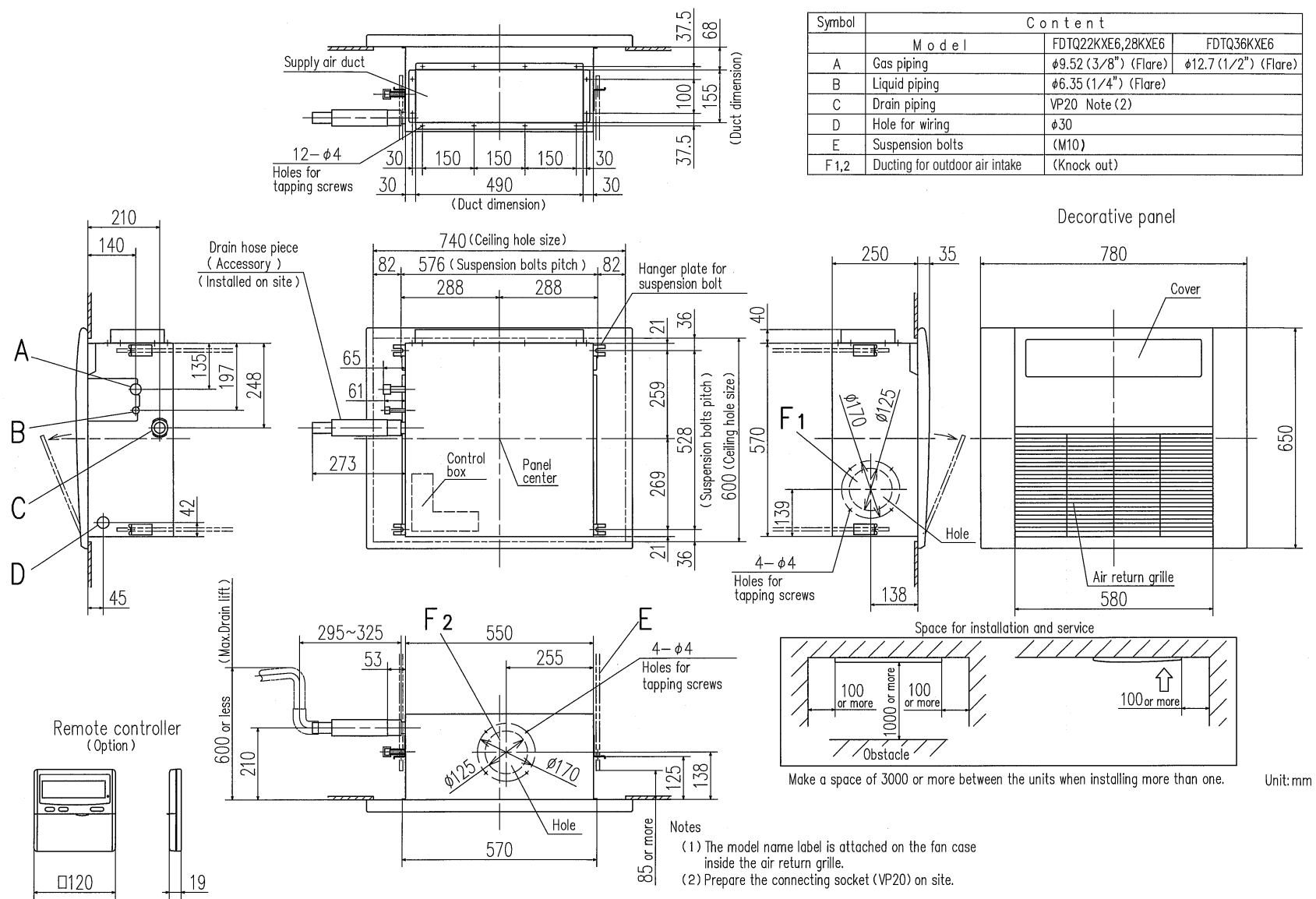


- Notes
- (1) The model name label is attached on the fan case inside the air return grille.
 - (2) Prepare the connecting socket (VP20) on site.
 - (3) This unit is designed for 2X2 grid ceiling.

Duct panel (QR-PNA-14W-ER)

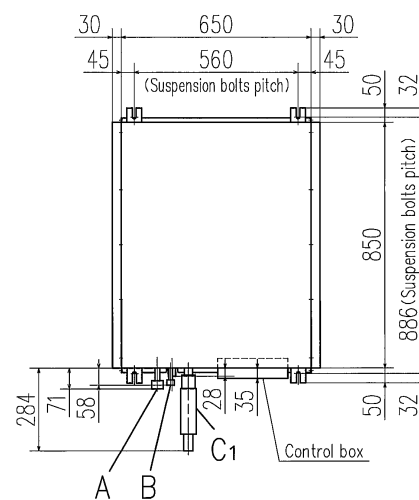
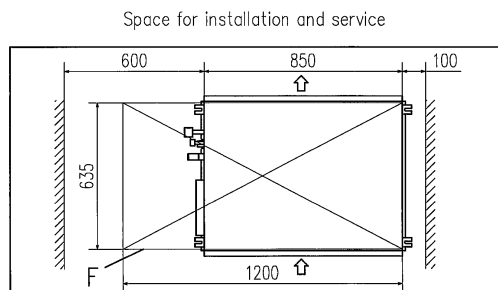
PJC001Z236

Symbol	Content		
	Model	FDTQ22KXE6,28KXE6	FDTQ36KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D	Hole for wiring	φ30	
E	Suspension bolts	(M10)	
F 1,2	Ducting for outdoor air intake	(Knock out)	



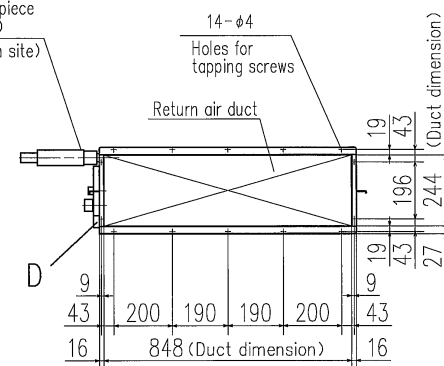
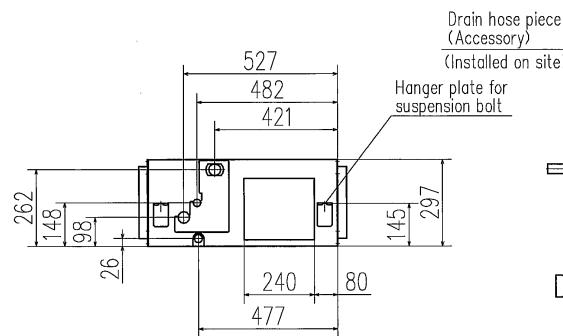
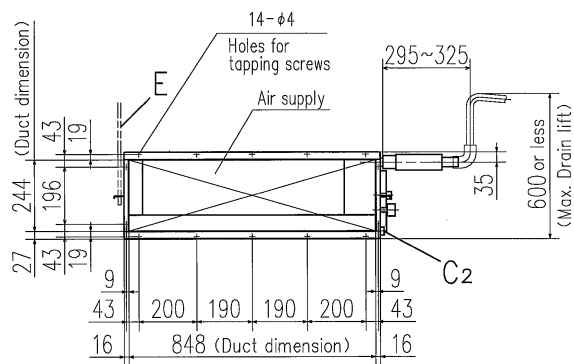
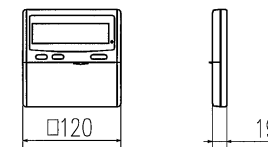
Unit: mm

(f) Duct connected-High static pressure type (FDU)
Model FDU71KXE6



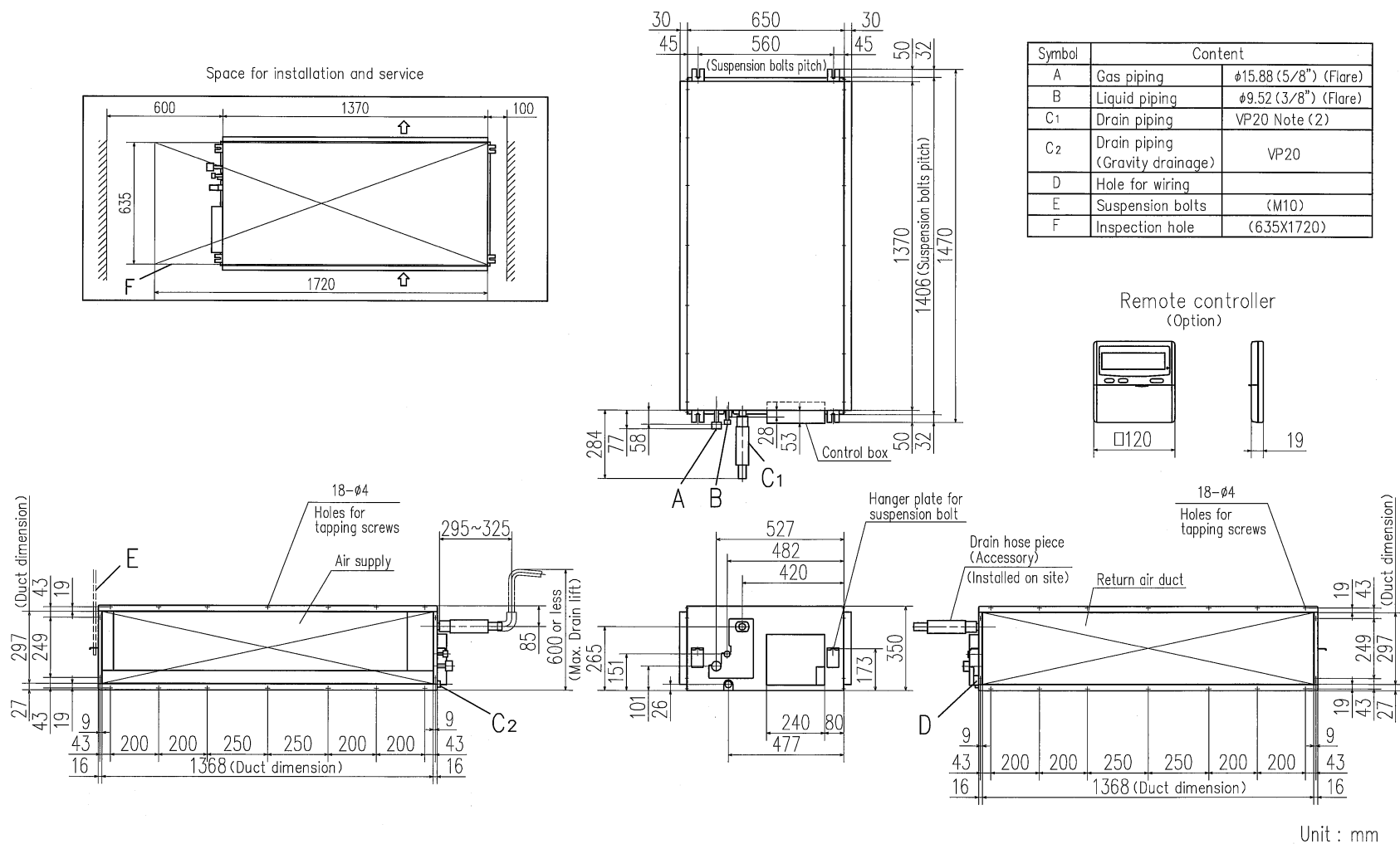
Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(635X1200)

Remote controller
(Option)

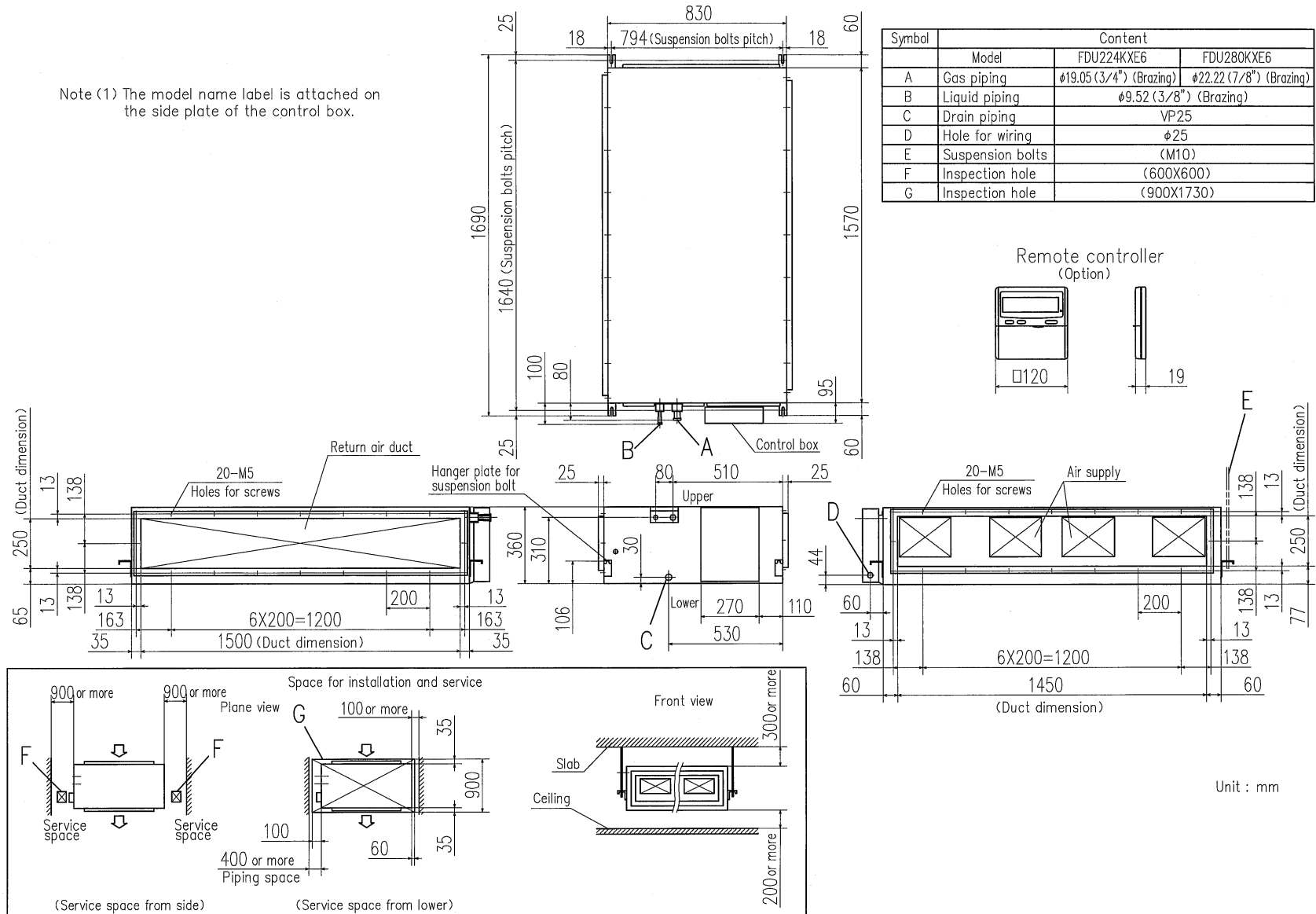


Unit : mm

- Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

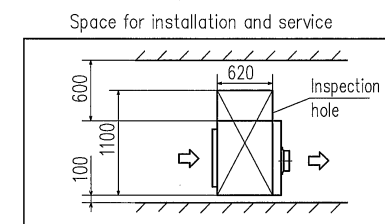


Note (1) The model name label is attached on the side plate of the control box.



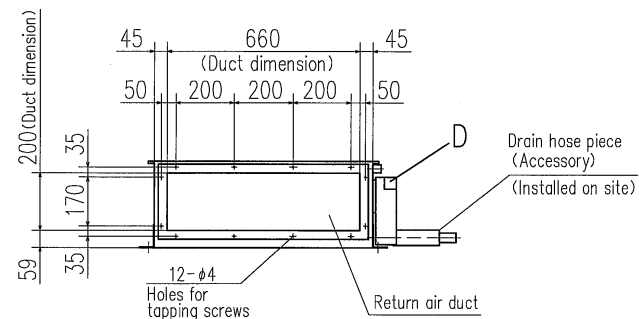
(g) Duct connected-Middle static pressure type (FDUM)
Model FDUM22KXE6

Symbol	Content	
A	Gas piping	φ9.52 (3/8") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Ducting for outdoor air intake	(φ150) (Knock out)
G	Ducting for air outlet	(φ125) (Knock out)

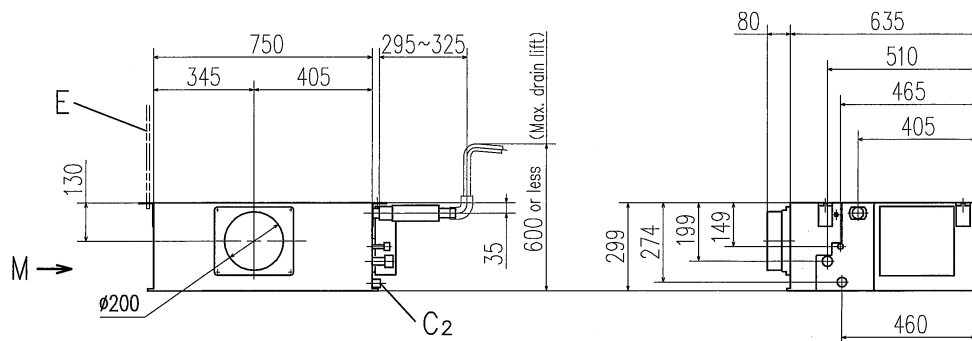
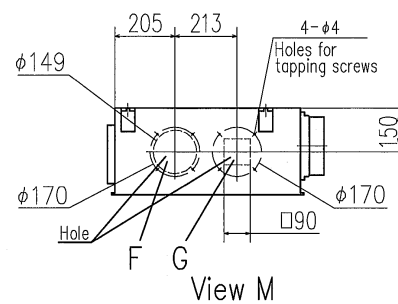
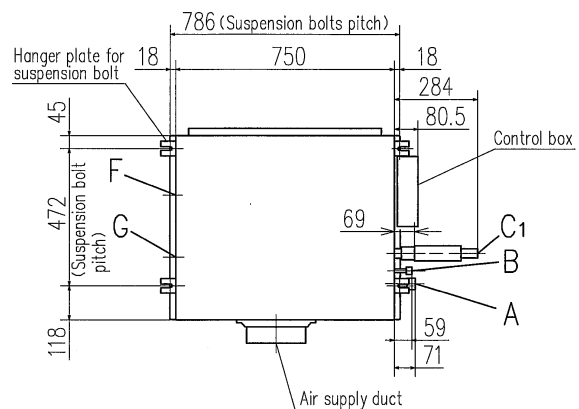
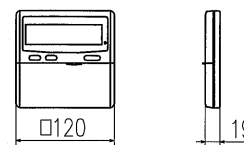


- Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

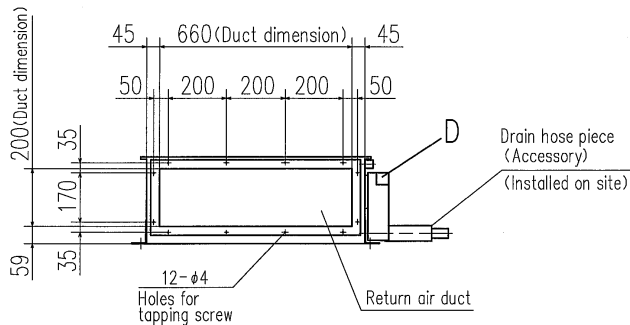
Unit: mm



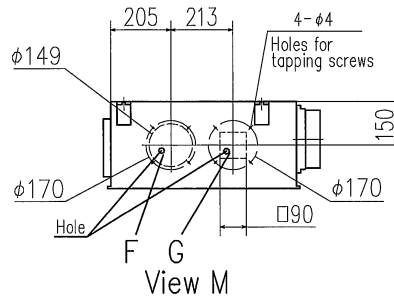
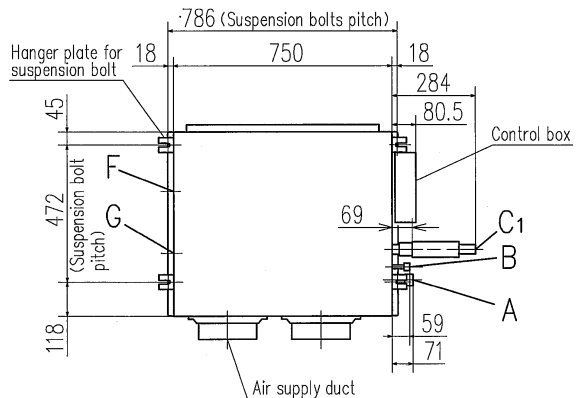
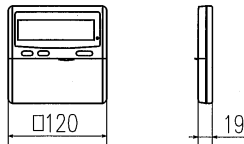
Remote controller
(Option)



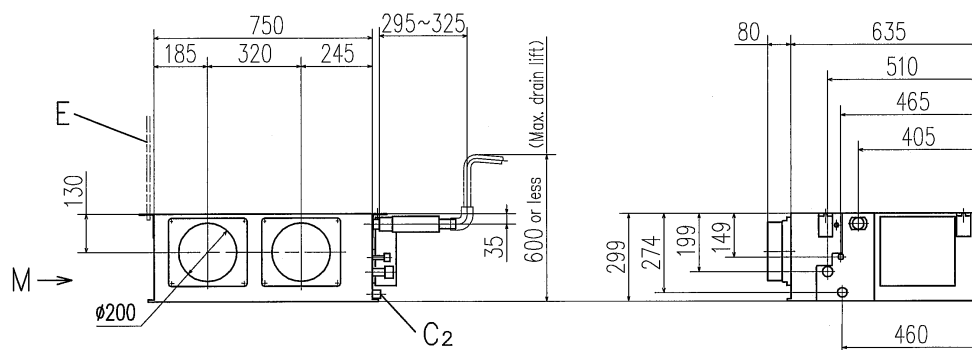
PJR0022254



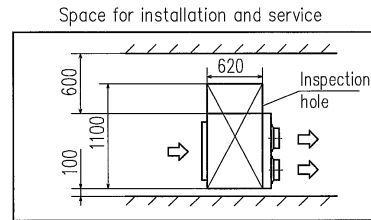
Remote controller
(Option)



View M

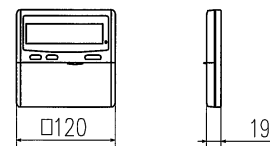


Symbol	Content		
	Model	FDUM28KXE6	FDUM36KXE6, 45KXE6,56KXE6
A	Gas piping	ø9.52 (3/8") (Flare)	ø12.7 (1/2") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)	
C1	Drain piping	VP20 Note (2)	
C2	Drain piping (Gravity drainage)	VP20	
D	Hole for wiring		
E	Suspension bolts	(M10)	
F	Ducting for outdoor air intake	(ø150) (Knock out)	
G	Ducting for air outlet	(ø125) (Knock out)	

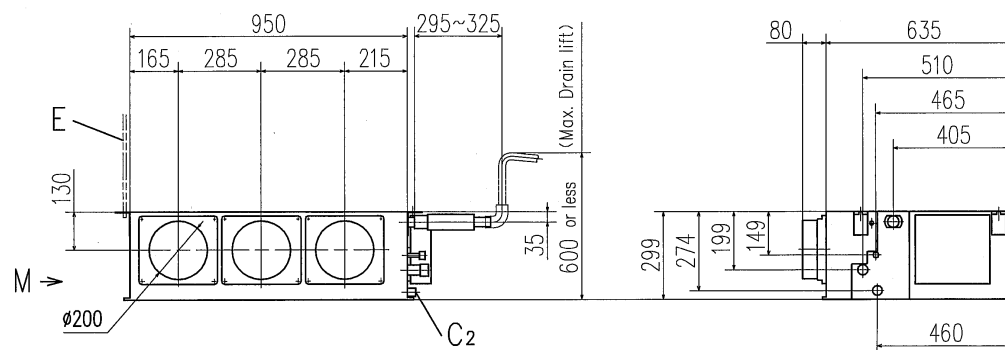
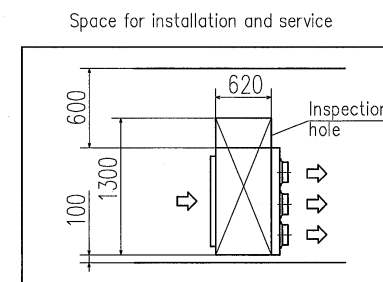
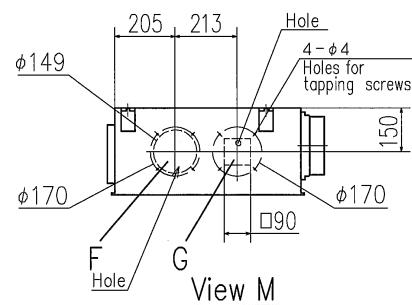


Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

Unit: mm



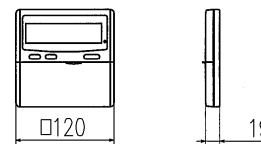
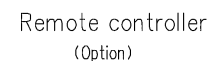
Symbol	Content
A	Gas piping (ø15.88 (5/8") (Flare))
B	Liquid piping (ø9.52 (3/8") (Flare))
C1	Drain piping (VP20 Note (2))
C2	Drain piping (Gravity drainage) (VP20)
D	Hole for wiring
E	Suspension bolts (M10)
F	Ducting for outdoor air intake (ø150) (Knock out)
G	Ducting for air outlet (ø125) (Knock out)



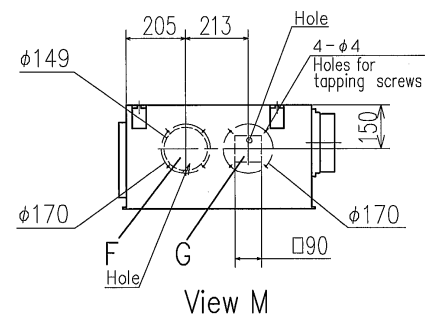
Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

Unit: mm

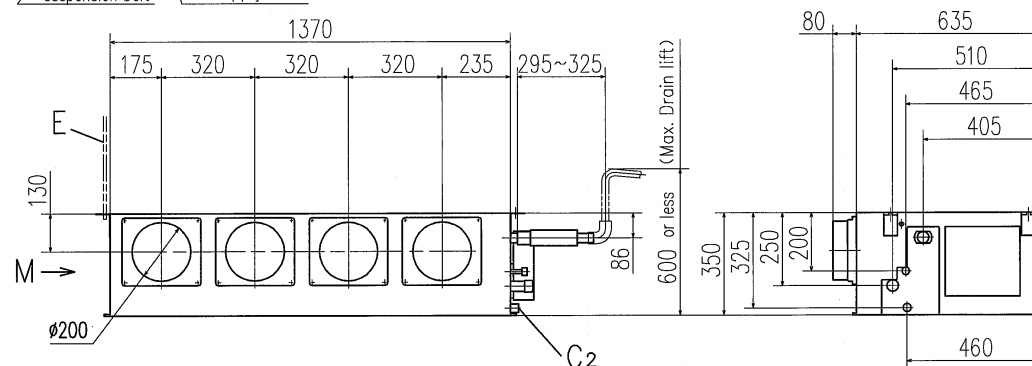
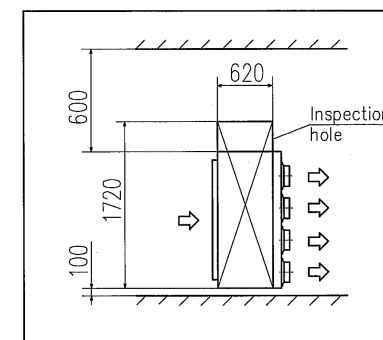
PJR002Z256



Symbol	Content
A	Gas piping
B	Liquid piping
C1	Drain piping
C2	Drain piping (Gravity drainage)
D	Hole for wiring
E	Suspension bolts
F	Ducting for outdoor air intake
G	Ducting for air outlet



View M

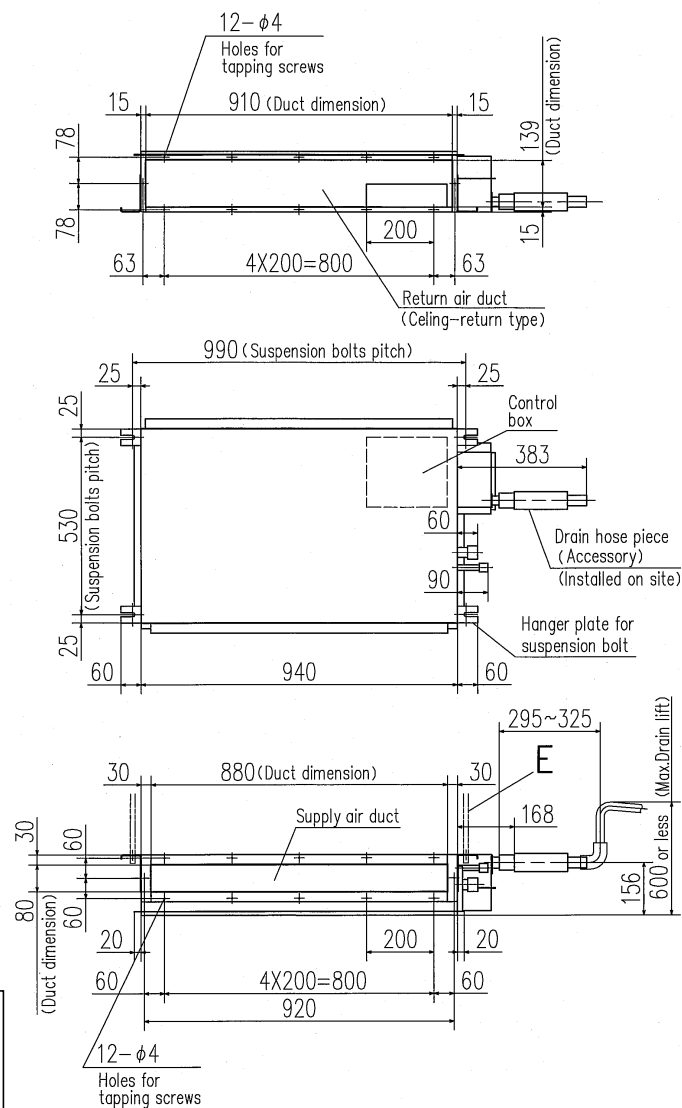


Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

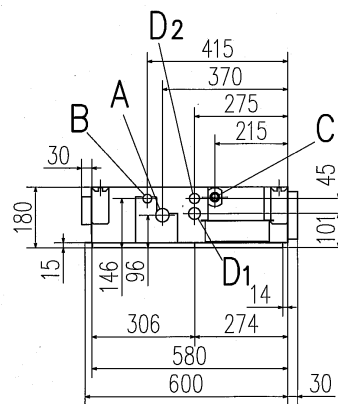
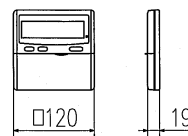
Unit: mm

(h) Duct connected (Ultra thin)-Low static pressure type (FDQS)
 Models FDQS22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6 (Rear air return type)

Symbol	Content		
	Model	FDQS22KXE6, 28KXE6	FDQS36KXE6, 45KXE6, 56KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D1	Hole for power source wiring	φ35	
D2	Hole for remote controller wiring and signal wiring	φ30	
E	Suspension bolts	(M10)	

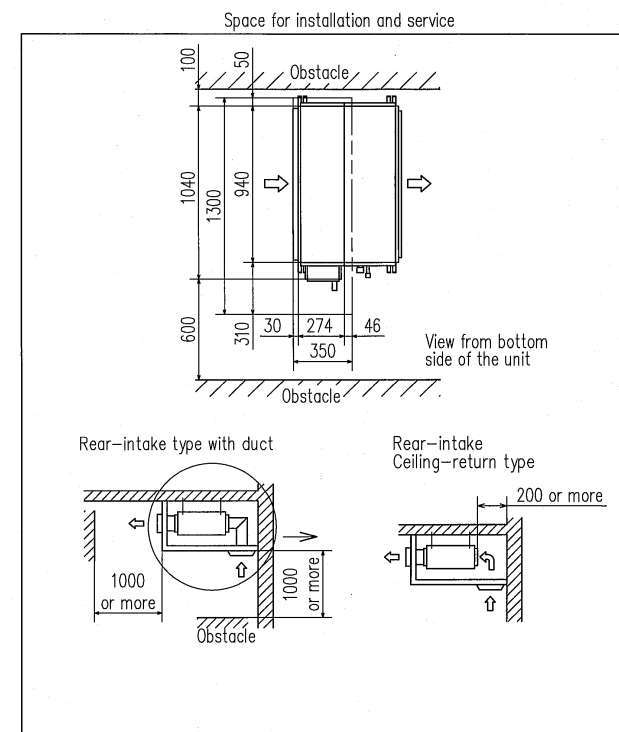


Remote controller
(Option)



Notes

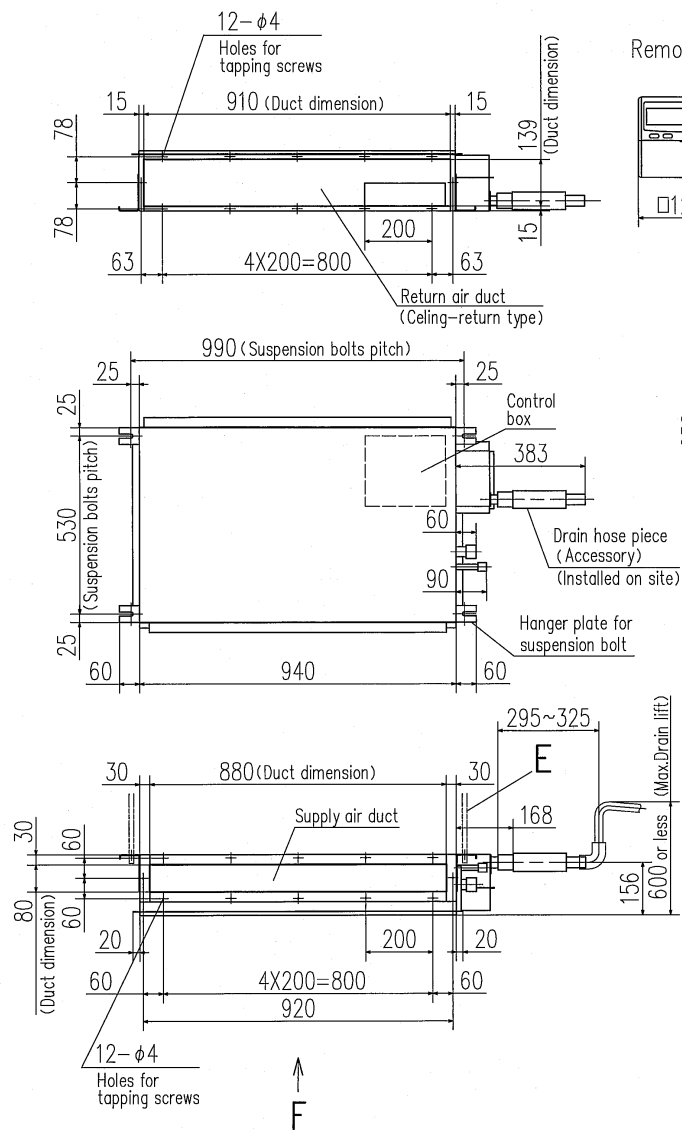
- (1) The model name label is attached on the side plate.
- (2) Prepare the connecting socket (VP20) on site.



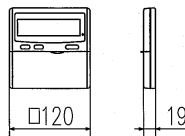
Unit: mm

PJC001Z199

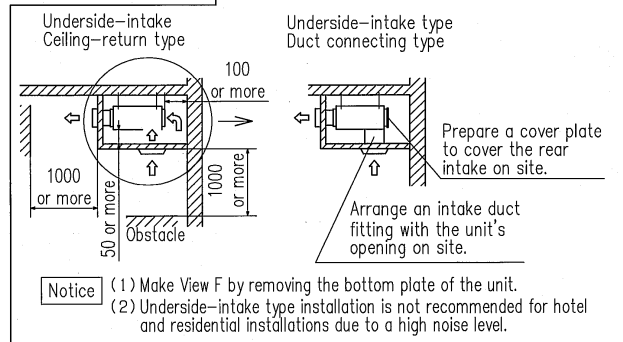
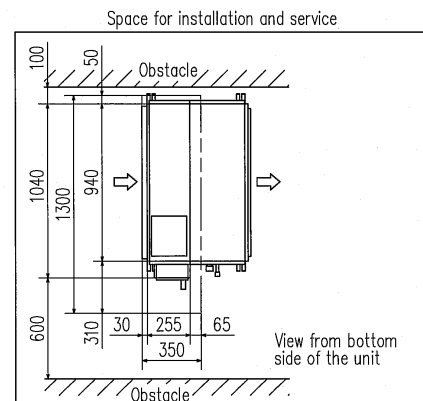
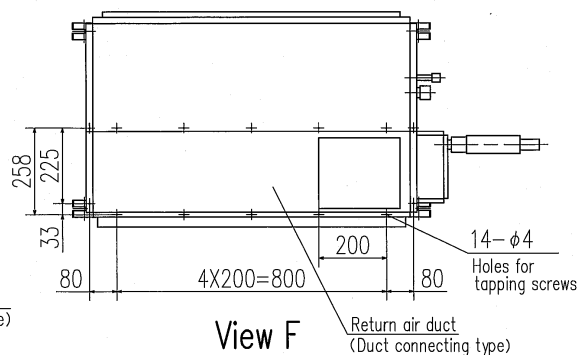
PJC001Z241



Remote controller
(Option)



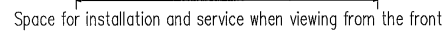
Symbol	Content	
	Model	
	FDQS22KXE6, 28KXE6	FDQS36KXE6, 45KXE6, 56KXE6
A	Gas piping	φ9.52 (3/8") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C	Drain piping	VP20 Note (2)
D1	Hole for power source wiring	φ35
D2	Hole for remote controller wiring and signal wiring	φ30
E	Suspension bolts	(M10)




- Notes
- (1) The model name label is attached on the side plate.
 - (2) Prepare the connecting socket (VP20) on site.

Unit: mm

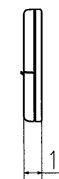
Models FDQS22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6 (Underside air return type)



Technical drawing of the rear view of the seat base. The drawing shows a curved backrest and a rectangular base. Dimensions are indicated with arrows and numbers: 259 (width of the backrest), 67 (Right) and 60 (Left) (height of the backrest), 9 (height of the base), 44 (height of the base), and 60 (width of the base). A dimension line labeled 'G' indicates the distance from the center of the base to the center of the backrest.



□120




Note (1) The model name label is attached on the underside of the panel.

(i) Wall-mounted type (FDK)

Note (1) The model name label is attached on the underside of the panel.

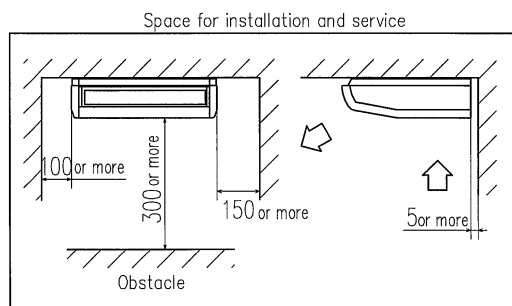
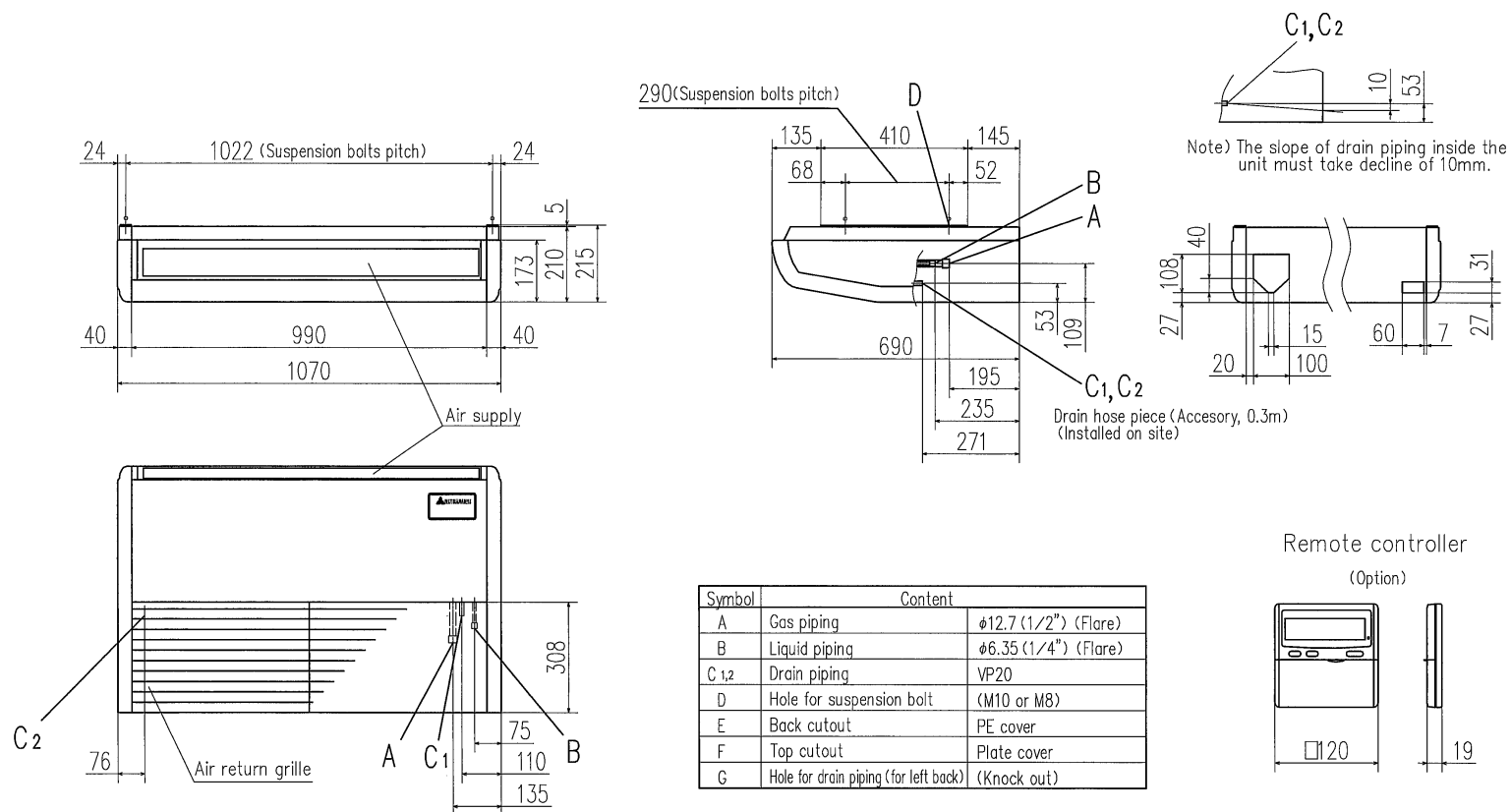
Unit: mm



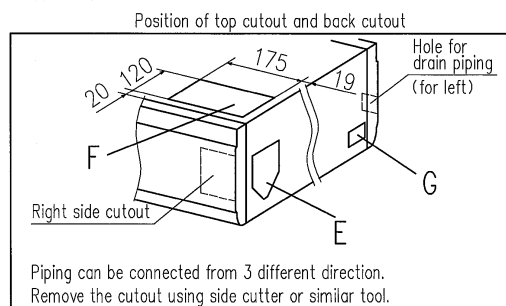
□120

A diagram of a vertical cylinder. A horizontal line is drawn across the middle of the cylinder. A dimension line is shown below the cylinder, with an arrow pointing to the horizontal line and the number '1' next to it.

(i) Ceiling suspended type (FDE)
Models FDE36KXE6A, 45KXE6A, 56KXE6A



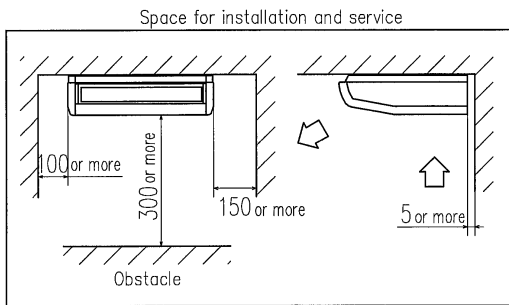
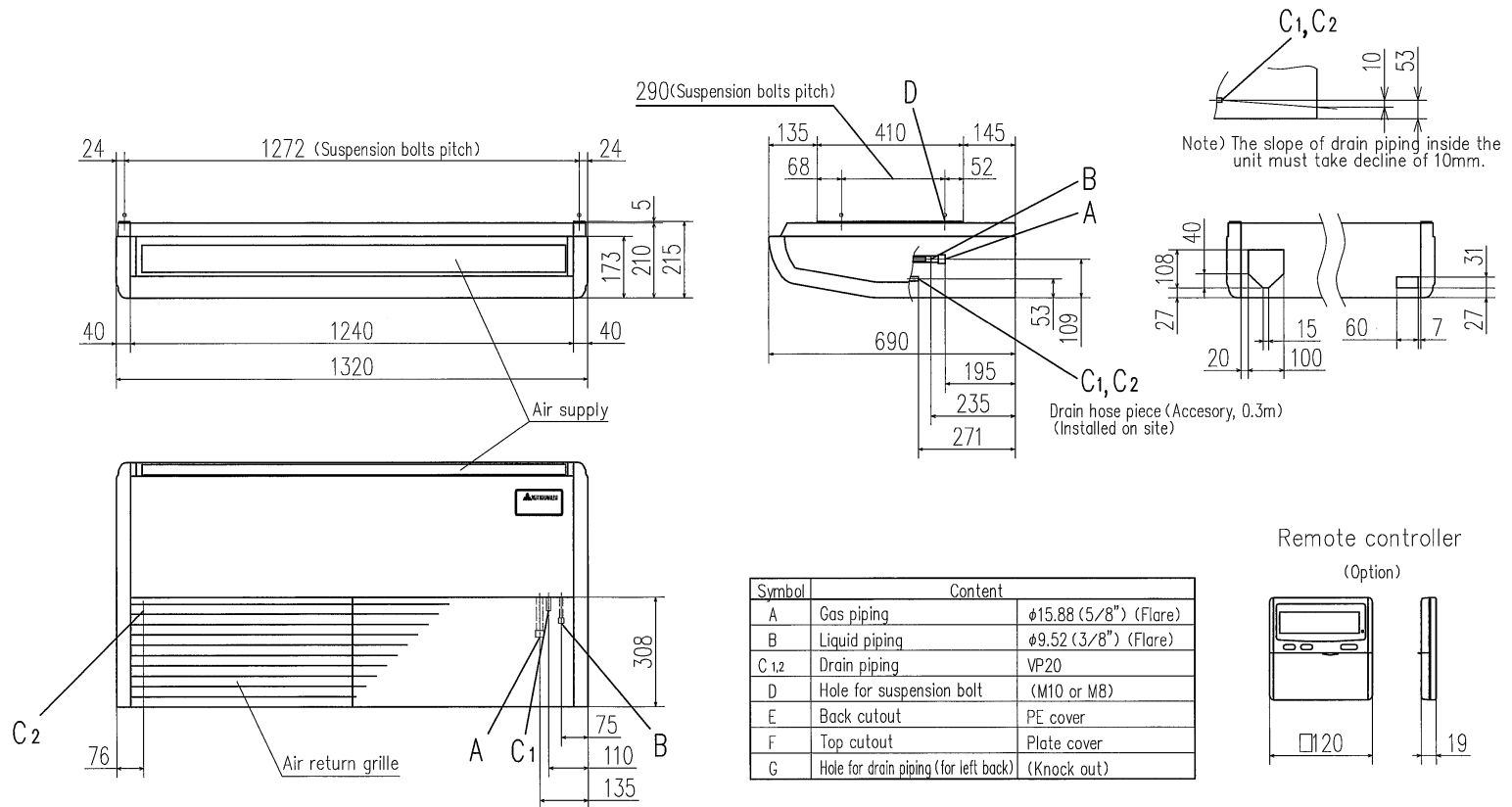
Make a space of 4000 or more between the units when installing more than one.



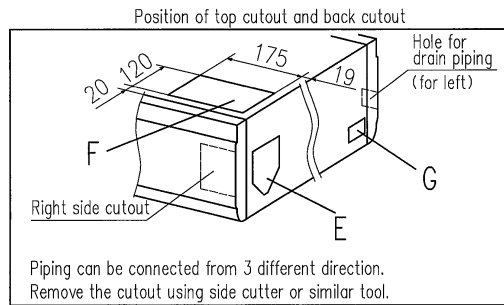
Note (1) The model name label is attached on the fan casing inside the air return grille.

Unit:mm

PFA003Z823



Make a space of 4500 or more between the units when installing more than one.

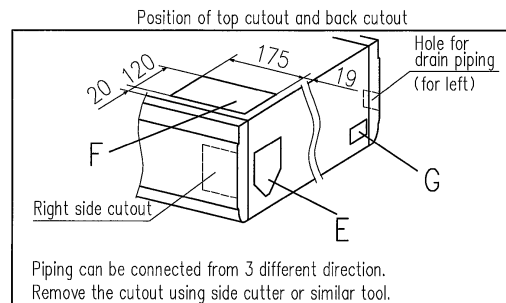
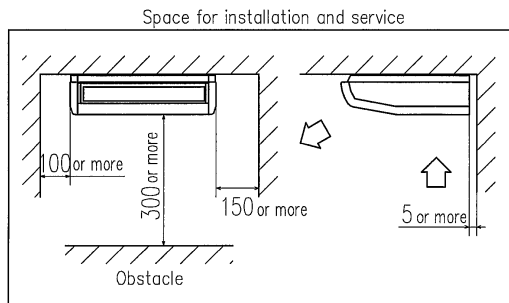
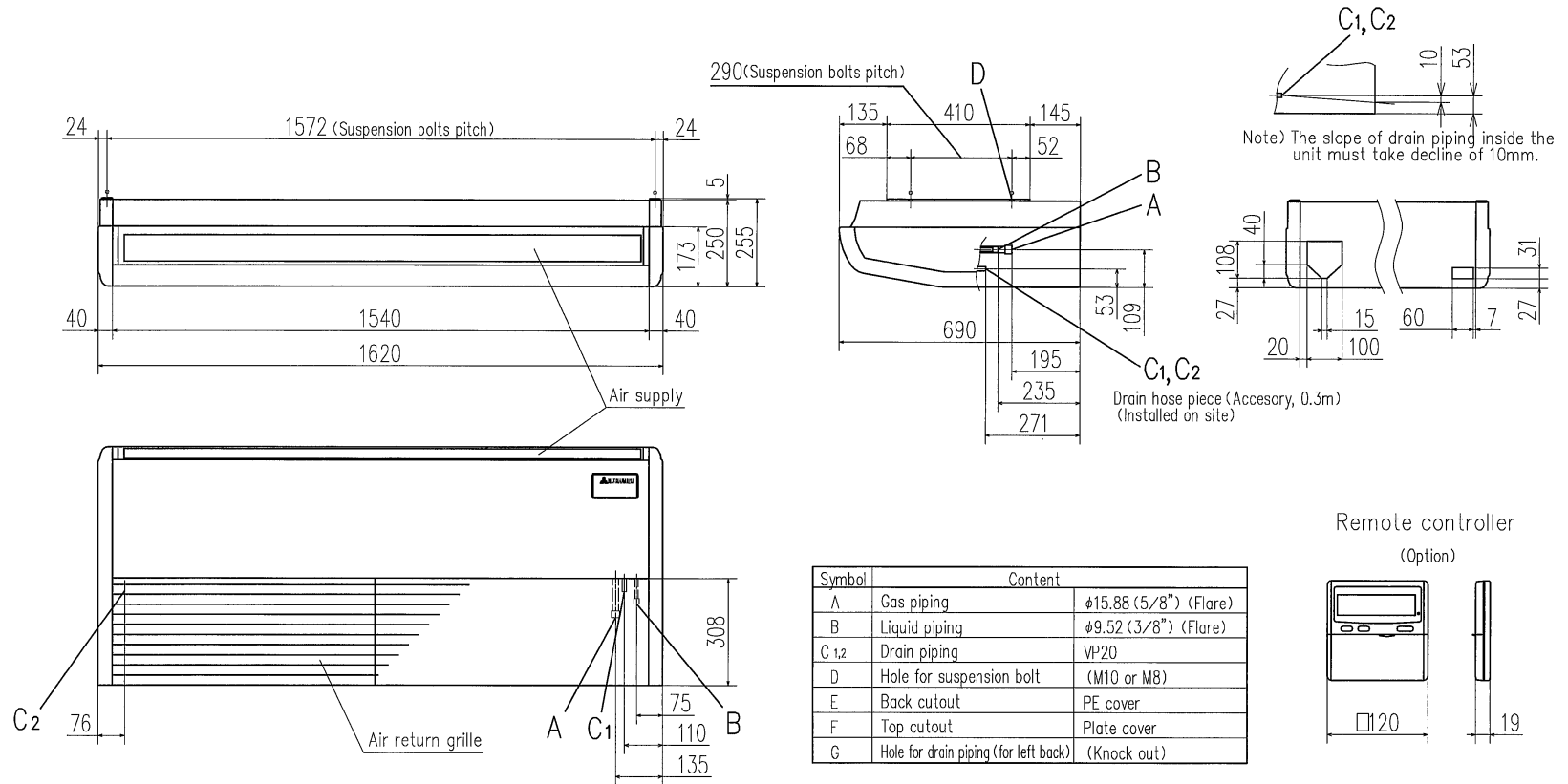


Piping can be connected from 3 different direction. Remove the cutout using side cutter or similar tool.

Note (1) The model name label is attached on the fan casing inside the air return grille.

Unit: mm

PFA003Z824

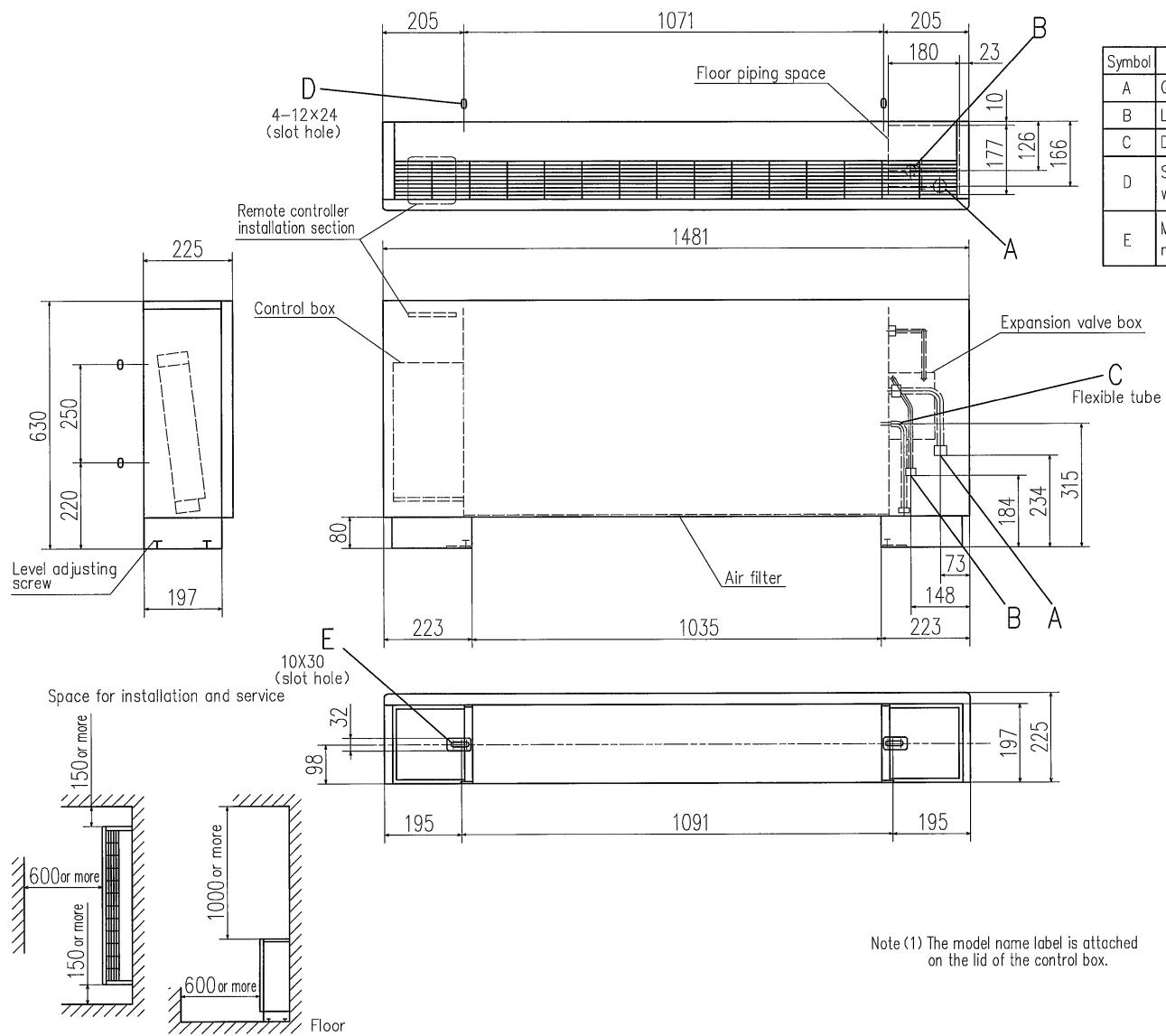


Note (1) The model name label is attached on the fan casing inside the air return grille.

Unit:mm

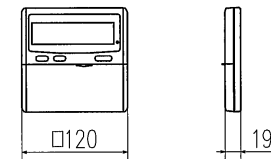
PFA003Z825

(k) Floor standing (with casing) type (FDFL)



Symbol	Content	
A	Gas piping (Accessory)	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C	Drain piping (Accessory)	PT20A female screw, 360mm
D	Slot hole for wall mounting	(M10)
E	Metal plate for floor mounting (Accessory)	(M8)

Remote controller
(Option)

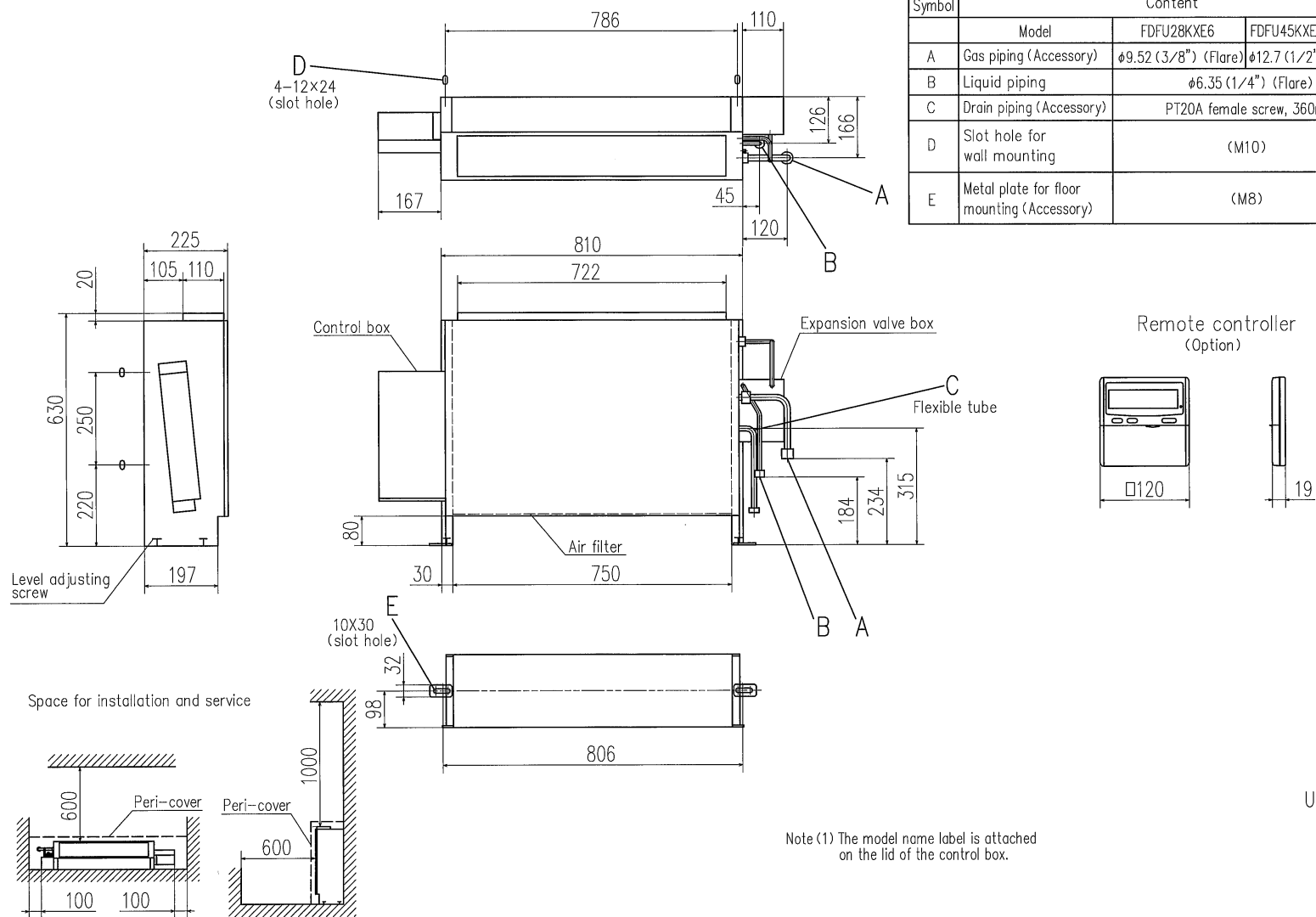


Unit : mm

Note (1) The model name label is attached on the lid of the control box.

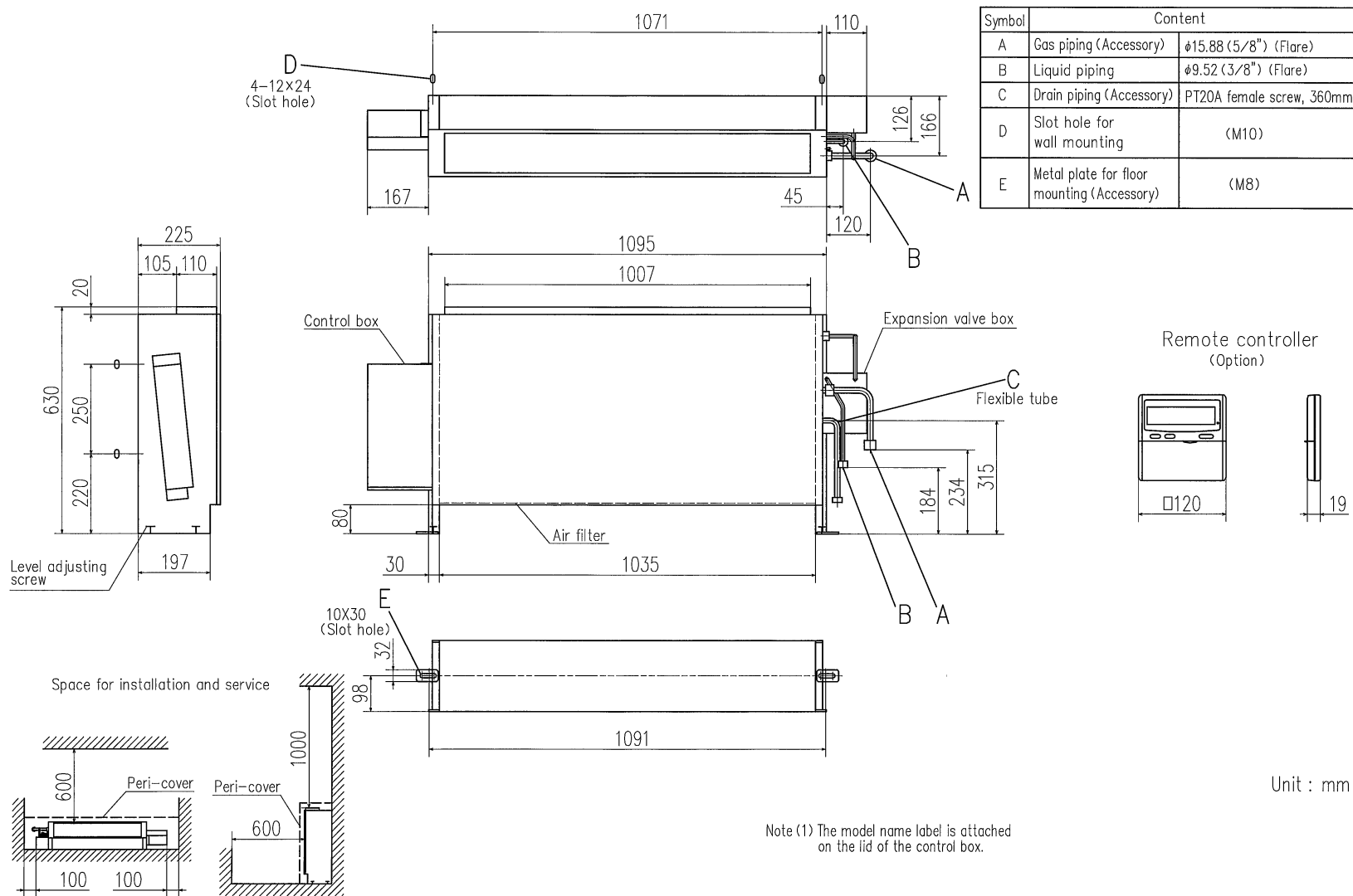
(i) Floor standing (with casing) type (FDFU)
Models FDFU28KXE6, 45KXE6, 56KXE6

Symbol	Content		
	Model	FDFU28KXE6	FDFU45KXE6, 56KXE6
A	Gas piping (Accessory)	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping (Accessory)	PT20A female screw, 360mm	
D	Slot hole for wall mounting	(M10)	
E	Metal plate for floor mounting (Accessory)	(M8)	



Unit : mm

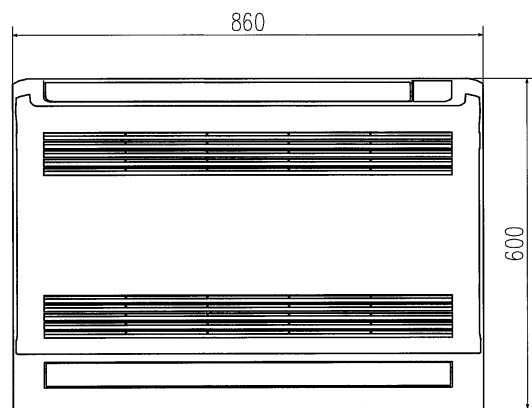
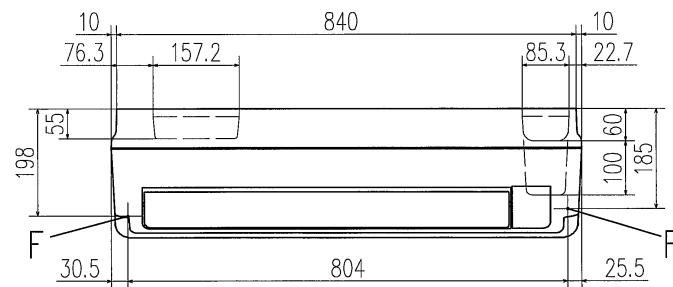
PGD0000Z056



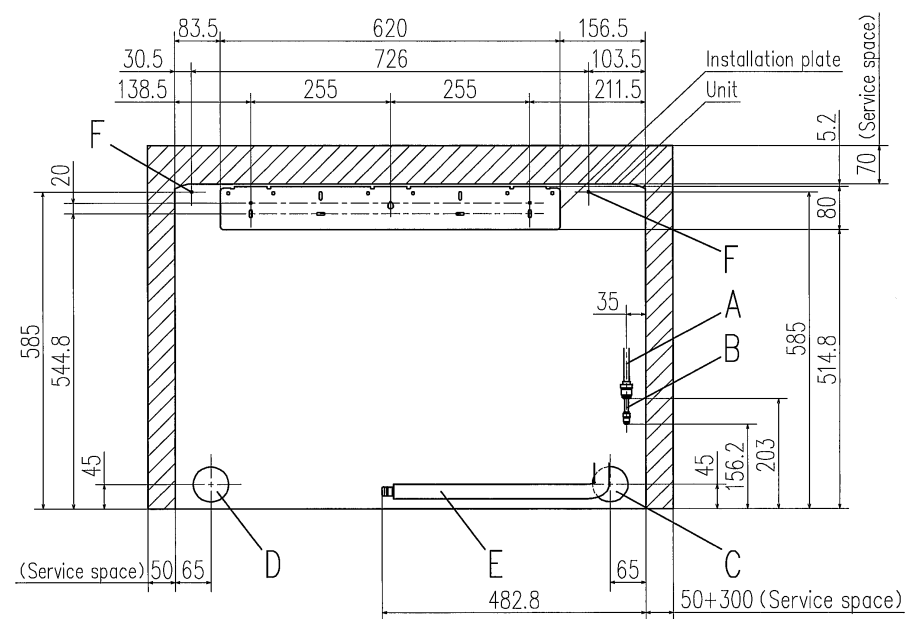
PGD000Z057

(m) Floor standing-2 way type (FDFW)
Models FDFW28KXE6, 45KXE6, 56KXE6

Symbol	Content		
	Model	FDFW28KXE6	FDFW45KXE6, 56KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Hole on wall for right rear piping	(φ65)	
D	Hole on wall for left rear piping	(φ65)	
E	Drain hose	VP16	
F	Screw point fasten the indoor unit	φ5	
G	Outlet for piping (on both side)		

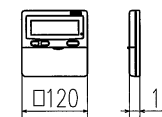


Outlet for down piping
(Refer to the above view)



Space for installation and service when viewing from the front

Remote controller
(Option)



Notes

- (1) The model name label is attached on the rightside of the unit.
- (2) In case of wall installation, leave the unit 150mm or less from the floor.

Unit:mm

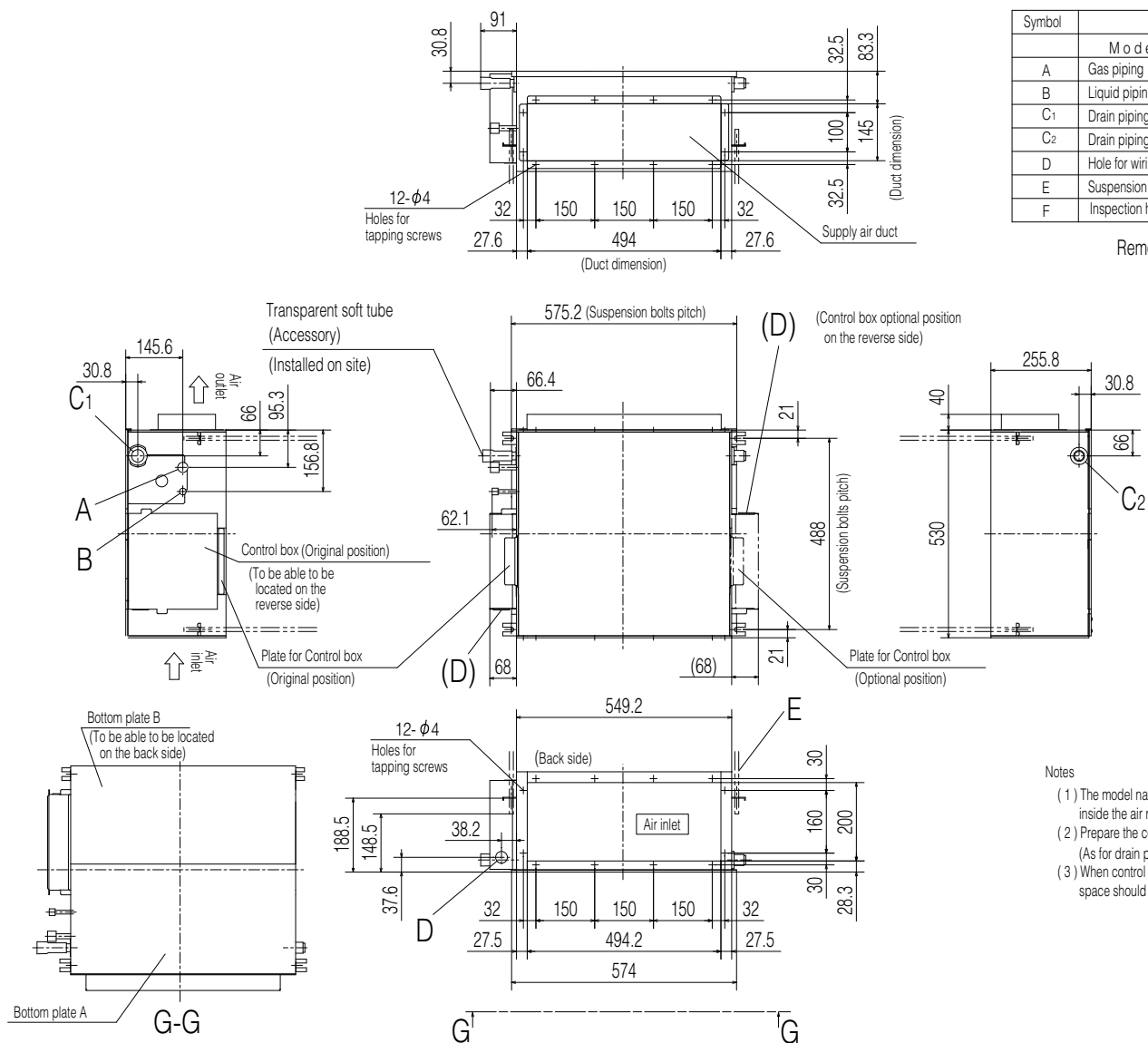
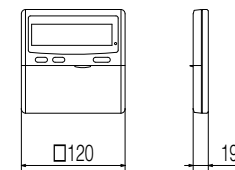
PGF000Z003

(n) Duct Connected-Compact and Flexible-type (FDUH)
Models FDUH22KXE6, 28KXE6, 36KXE6 (Rear air return type)

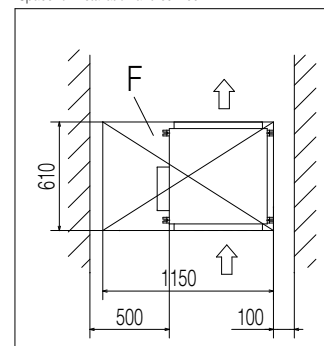
Unit:mm

Symbol	Content		
	Model	FDUH22KXE6, 28KXE6	FDUH36KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C ₁	Drain piping	VP20 Note (2)	
C ₂	Drain piping	To be used instead of "C ₁ "	
D	Hole for wiring	φ30	
E	Suspension bolts	(M10)	
F	Inspection hole	(610X1150) Note (3)	

Remote controller
(Option)



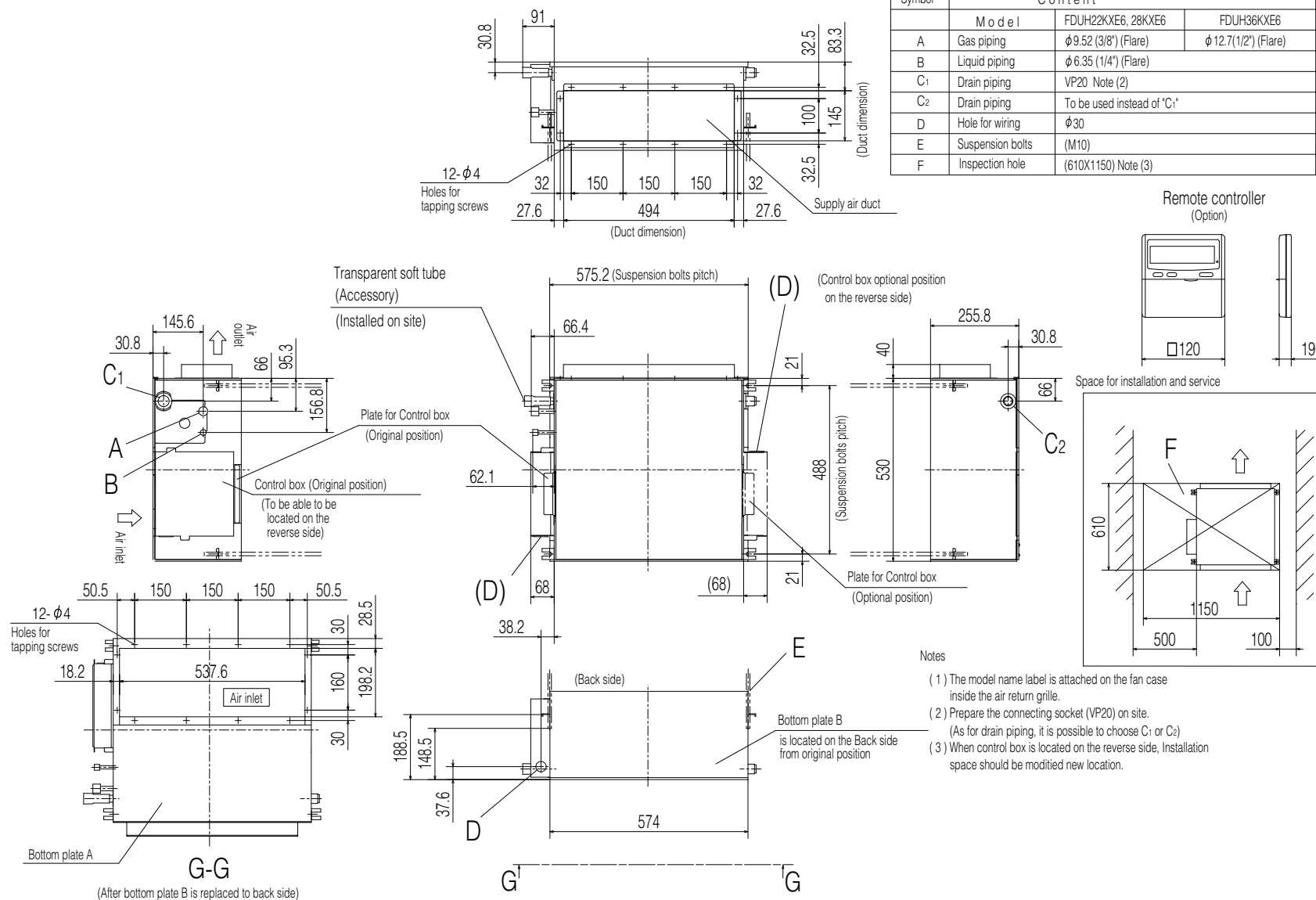
Space for installation and service



Notes

- (1) The model name label is attached on the fan case inside the air return grille.
- (2) Prepare the connecting socket (VP20) on site.
(As for drain piping, it is possible to choose C₁ or C₂)
- (3) When control box is located on the reverse side, installation space should be modified new location.

PJC001Z253 

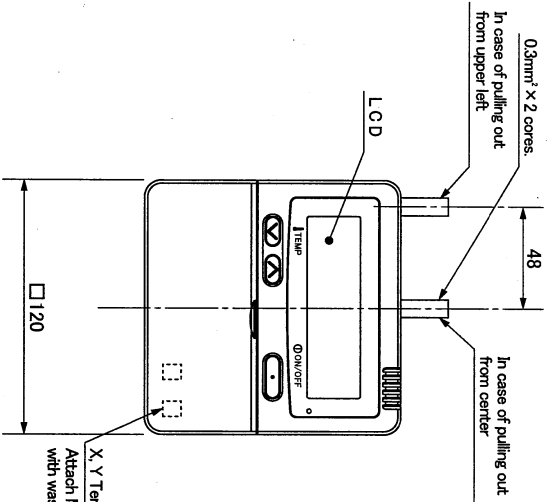


Notes

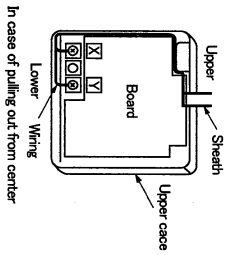
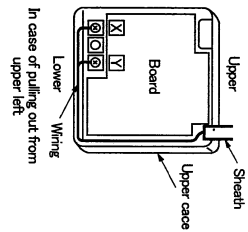
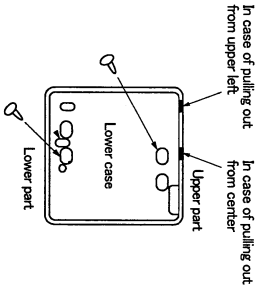
- (1) The model name label is attached on the fan case inside the air return grille.
- (2) Prepare the connecting socket (VP20) on site.
(As for drain piping, it is possible to choose C₁ or C₂.)
- (3) When control box is located on the reverse side, installation space should be modified new location.

(2) Remote controller (Optional parts)
• Wired remote controller (Model : RC-E3)

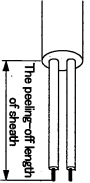
Exposed mounting



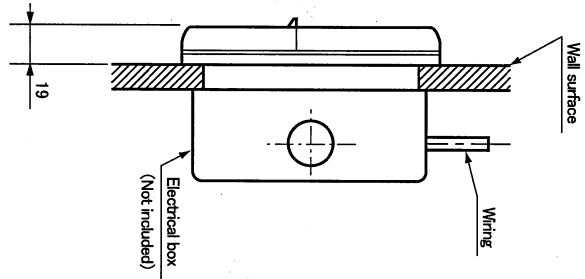
Wiring outlet
Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.



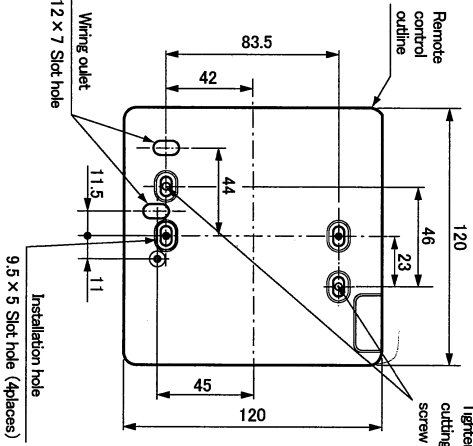
The peeling-off length of sheath	
Pulling out from upper left	Pulling out from center
X wiring : 215mm	X wiring : 170mm
Y wiring : 195mm	Y wiring : 190mm



Embedded mounting



Remote control installation dimensions



Tighten the screws after cutting off the thin part of screw mounting part.

(1) Installation screw for remote control
M4 Screw (2 pieces)

Unit:mm

Wiring specifications

(1) If the prolongation is over 100m, change to the size below.
But, wiring in the remote controller case should be under 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

Length	Wiring thickness
100 to 200m	0.5mm ² x 2 cores
Under 300m	0.75mm ² x 2 cores
Under 400m	1.25mm ² x 2 cores
Under 600m	2.0mm ² x 2 cores

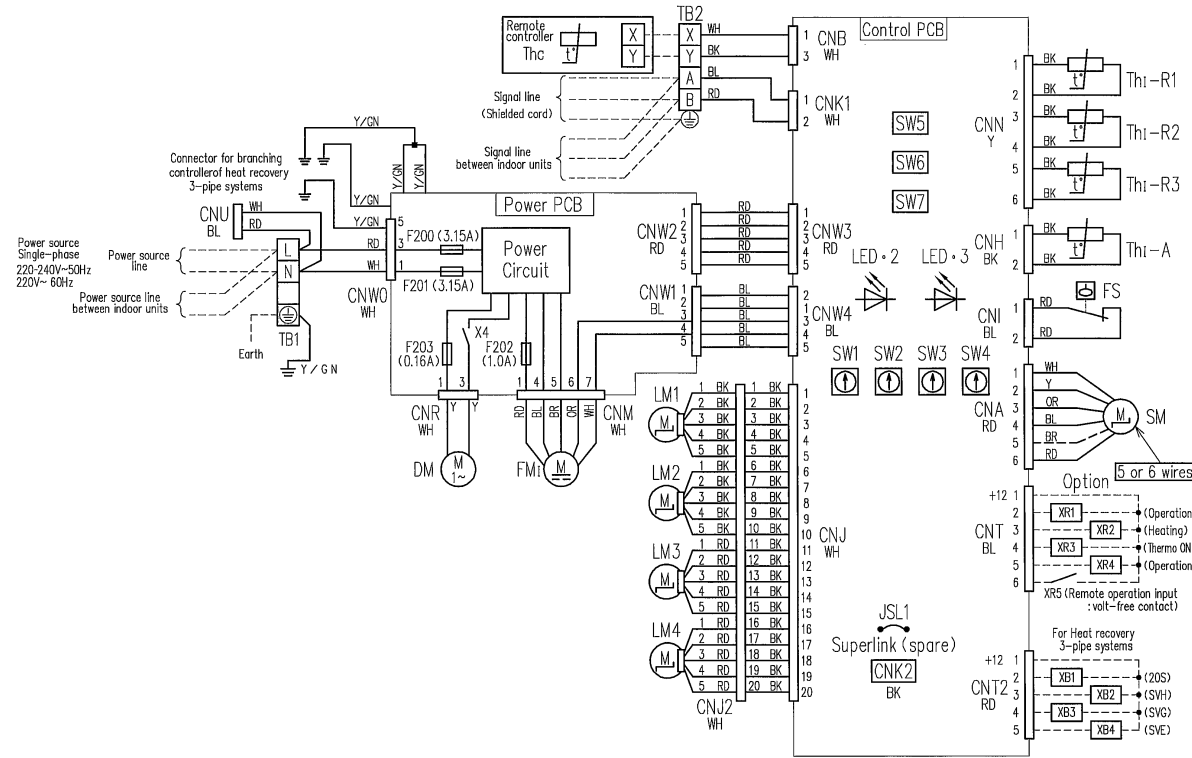
Adapted to **RoHS** directive

PJZ000Z262 

3.3 Electrical wiring

(a) Ceiling cassette-4 way type (FDT)

Models All : models



CNA~Z	Connector
DM	Drain motor
F200-203	Fuse
FMi	Fan motor
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green-Normal operation)
LED • 3	Indication lamp (Red-Inspection)
LM1~4	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address : tens place
SW2	Indoor unit address : ones place
SW3	Outdoor unit address : tens place
SW4	Outdoor unit address : ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address : hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)
X4	Relay for DM
■mark	Closed-end connector

Notes

1. --- indicates wiring on site.
2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

Color Marks

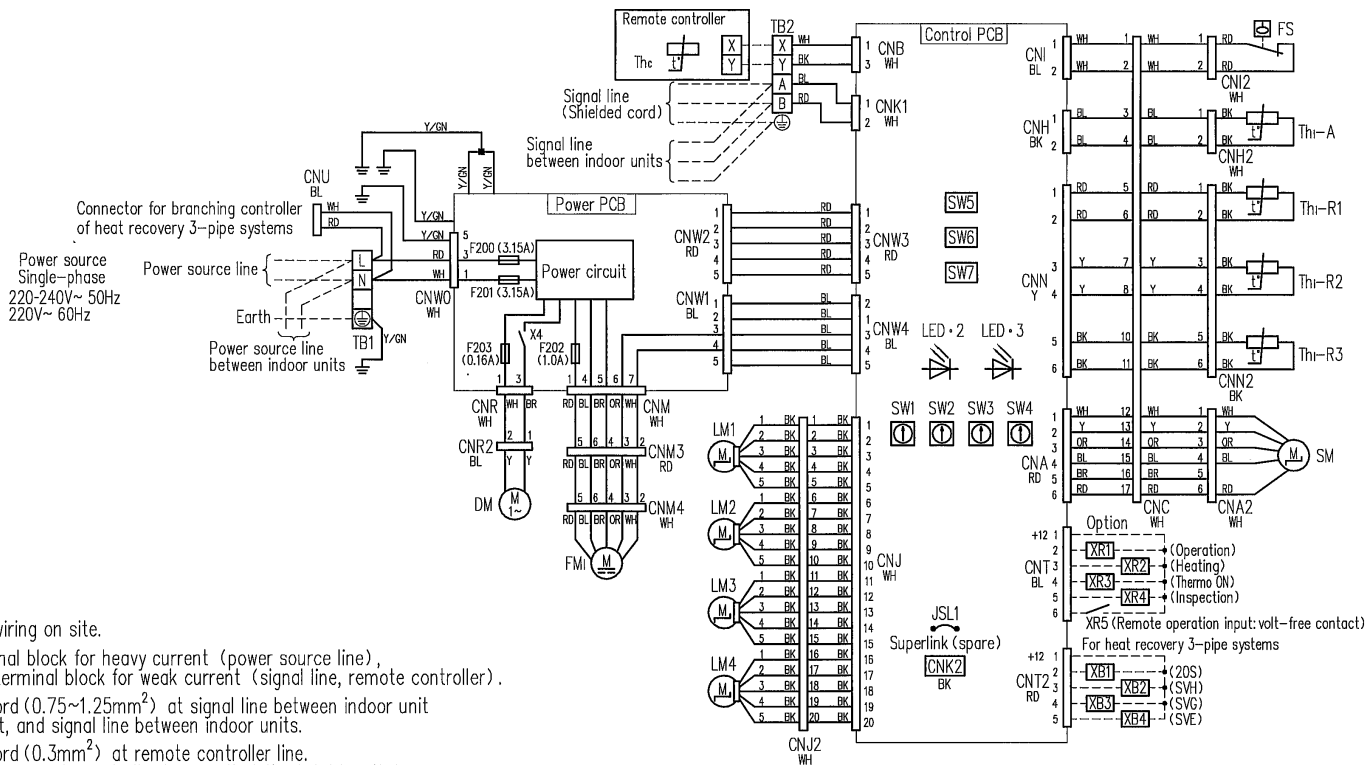
Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	Y	Yellow
OR	Orange	Y/GN	Yellow/Green

CNA~Z	Connector
DM	Drain motor
F200~203	Fuse
FM 1	Fan motor
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green-Normal operation)
LED • 3	Indication lamp (Red-Inspection)
LM1~4	Louver motor

SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address : tens place
SW2	Indoor unit address : ones place
SW3	Outdoor unit address : tens place
SW4	Outdoor unit address : ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address : hundreds place
SW6	Model capacity setting

SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
X4	Relay for DM
■ mark	Closed-end connector

Color Marks	
Mark	Color
BK	Black
BL	Blue
BR	Brown
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



Notes

1. --- indicates wiring on site.
2. TB1 is the terminal block for heavy current (power source line), and TB2 is the terminal block for weak current (signal line, remote controller).
3. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote controller line.
See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

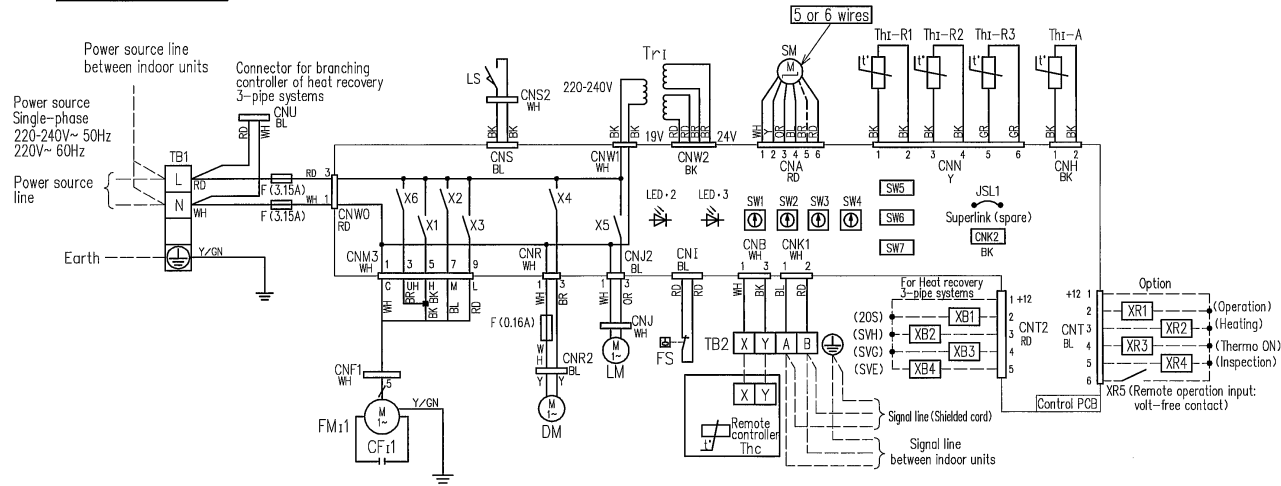
Models All : models
(b) Ceiling cassette-4 way Compact type (FDTC)

PJA003Z341

(c) Ceiling cassette-2 way type (FDTW)
Models FDTW28KXE6, 45KXE6, 56KXE6

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



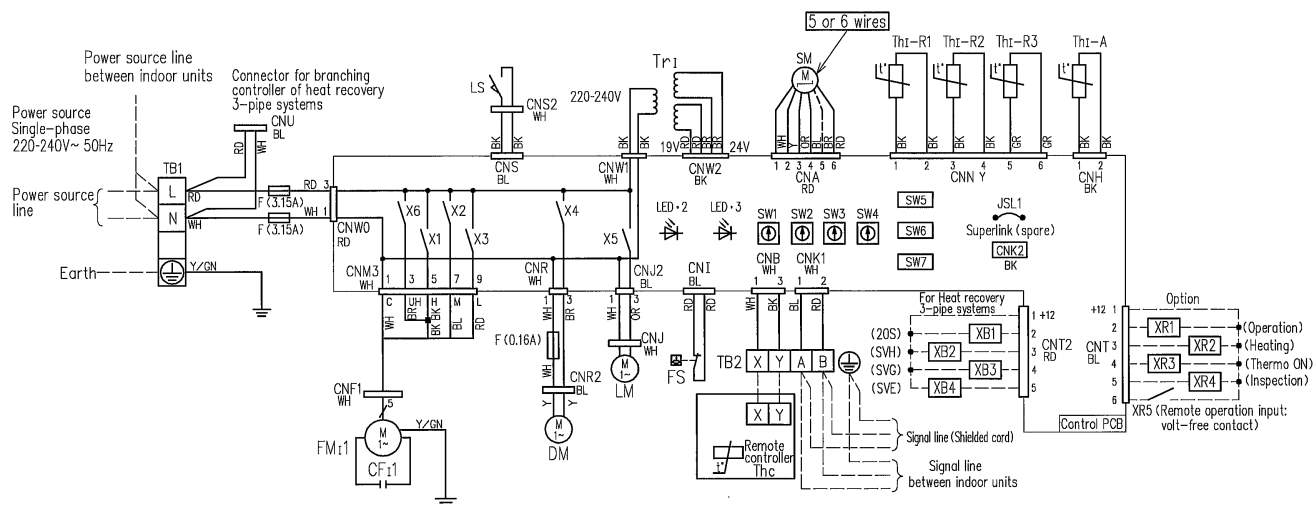
CF1	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED•2	Indication lamp (Green-Normal operation)
LED•3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM

Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



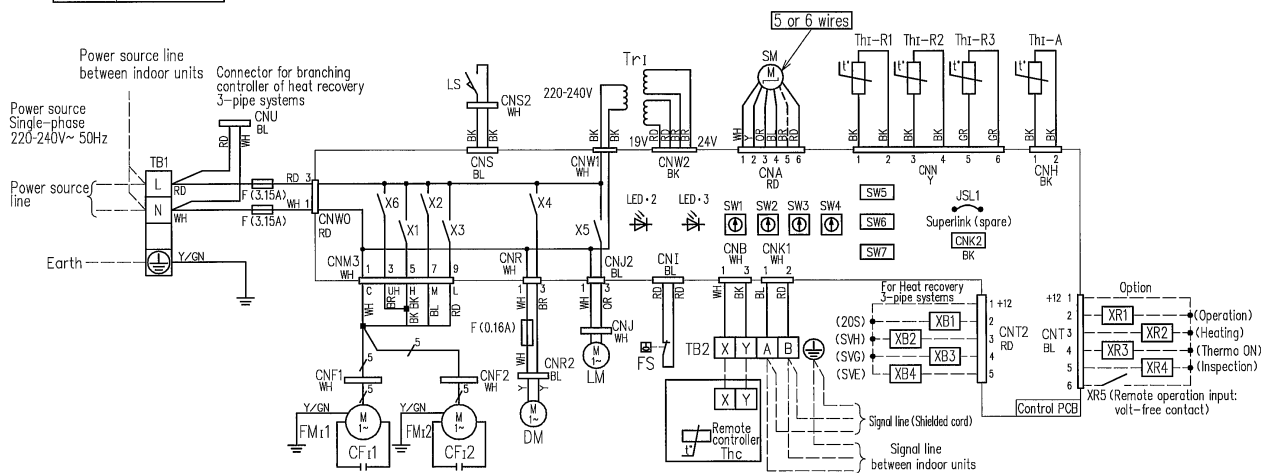
CF11	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM11	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (mark)
TB2	Terminal block (Signal line) (mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM

Notes 1. --- indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green

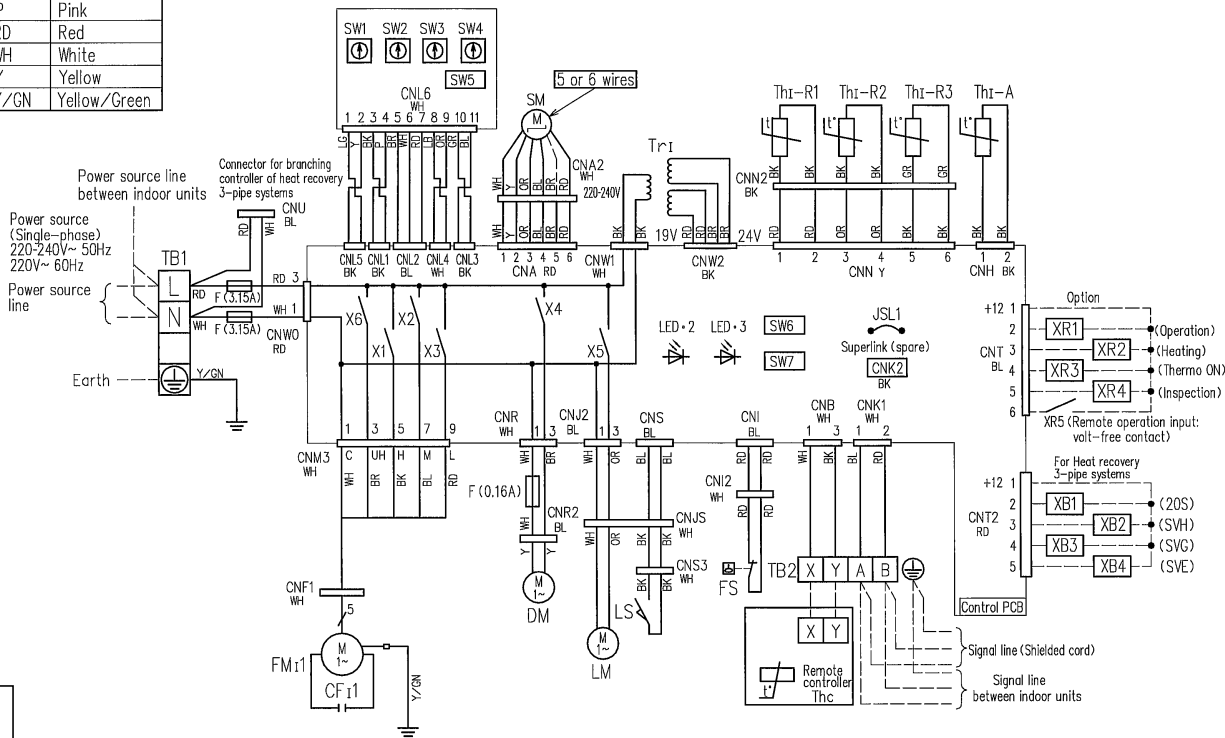


Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

CF1,2	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (mark)
TB2	Terminal block (Signal line) (mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
mark	Closed-end connector

Color Marks	
Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
LB	Light Blue
LG	Light Green
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green

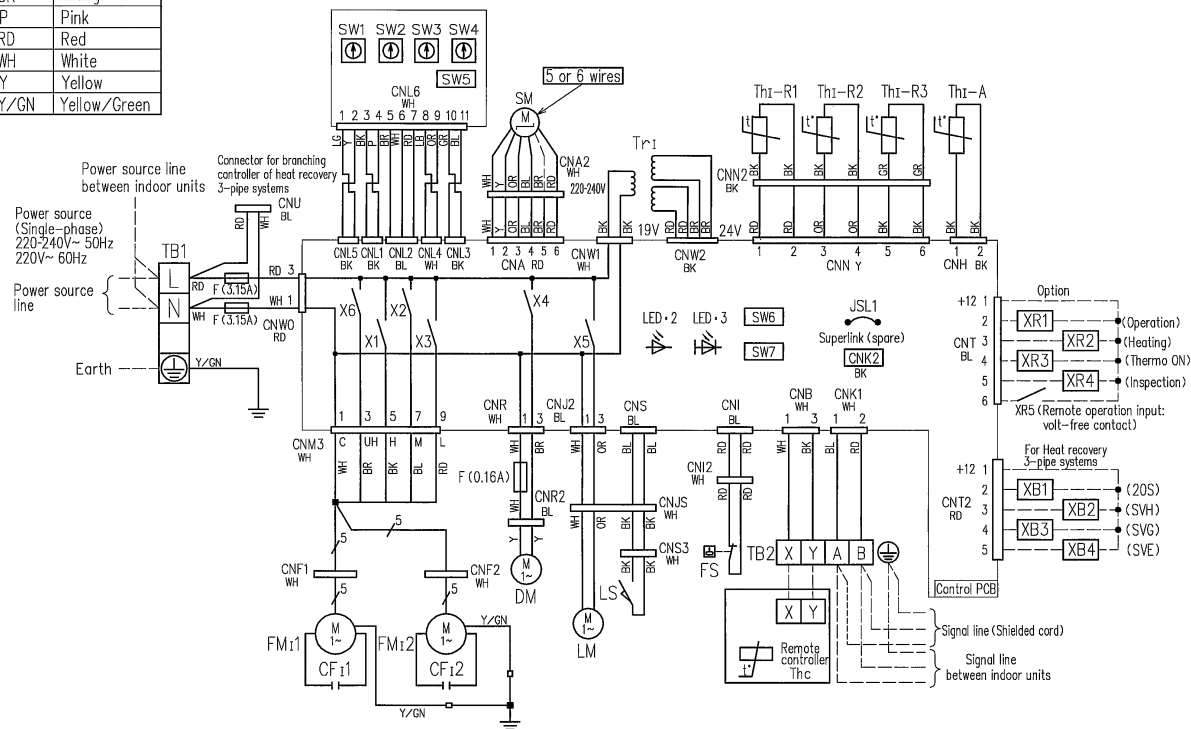


CF11	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM 11	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED・2	Indication lamp (Green—Normal operation)
LED・3	Indication lamp (Red—Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
Tr 1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
■mark	Closed-end connector

Notes 1.— indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

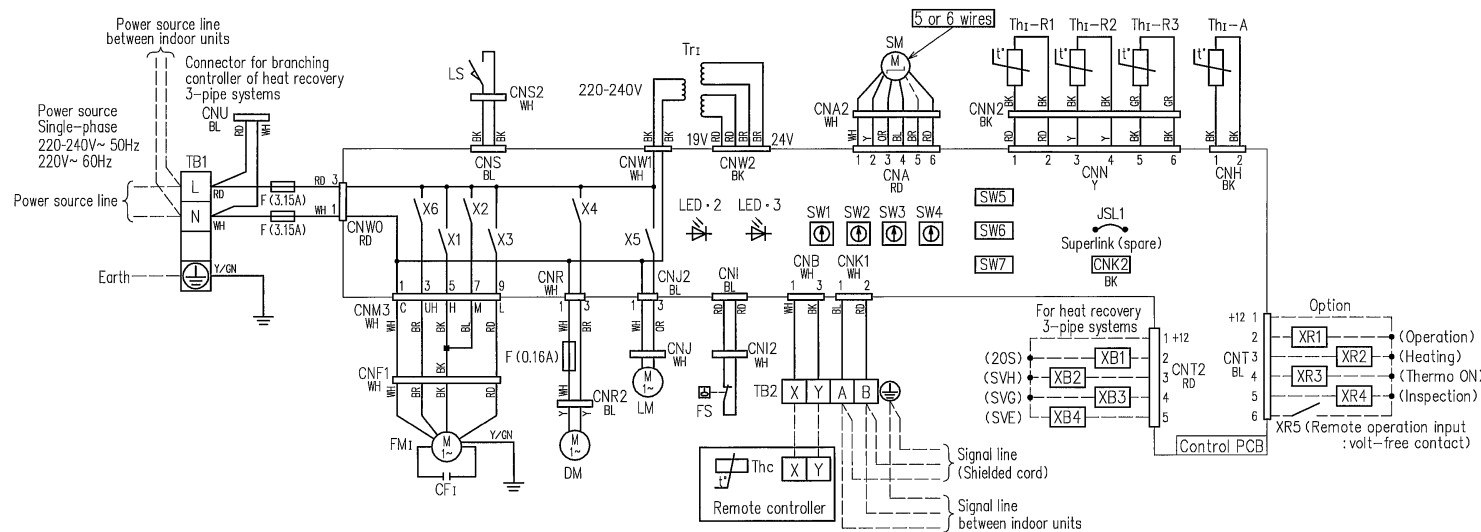
Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
LB	Light Blue
LG	Light Green
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



CF11,2	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM11,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED・2	Indication lamp (Green—Normal operation)
LED・3	Indication lamp (Red—Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
■mark	Closed-end connector

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

(e) Ceiling cassette-1 way compact type (FDTQ)
Models All models



Notes

1. — indicates wiring on site.
2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote controller line.
See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

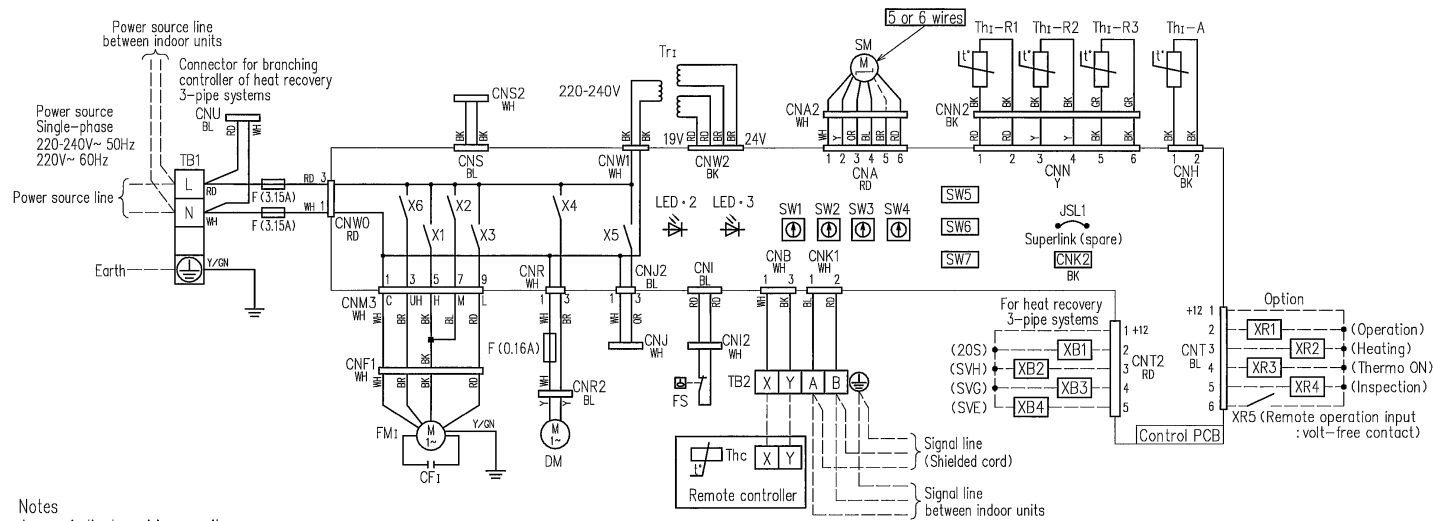
CF1	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED•2	Indication lamp (Green—Normal operation)
LED•3	Indication lamp (Red—Inspection)
LM	Louver motor
LS	Louver switch

SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run

TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□ mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
■mark	Closed-end connector

Color Marks

Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	Y	Yellow
GR	Gray	Y/GN	Yellow/Green
OR	Orange		



Notes

1. — indicates wiring on site.
2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote controller line.
See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

Color Marks

Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	Y	Yellow
GR	Gray	Y/GN	Yellow/Green
OR	Orange		

CF1	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED・2	Indication lamp (Green—Normal operation)
LED・3	Indication lamp (Red—Inspection)

SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run

TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□ mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3, 6	Relay for FM
X4	Relay for DM
X5	Relay for LM
■mark	Closed-end connector

Changing the fan tap

The factory setting of the fan tap is "Standard".
Change the fan tap to "High Speed 1" by using the function setting of the wired remote controller.

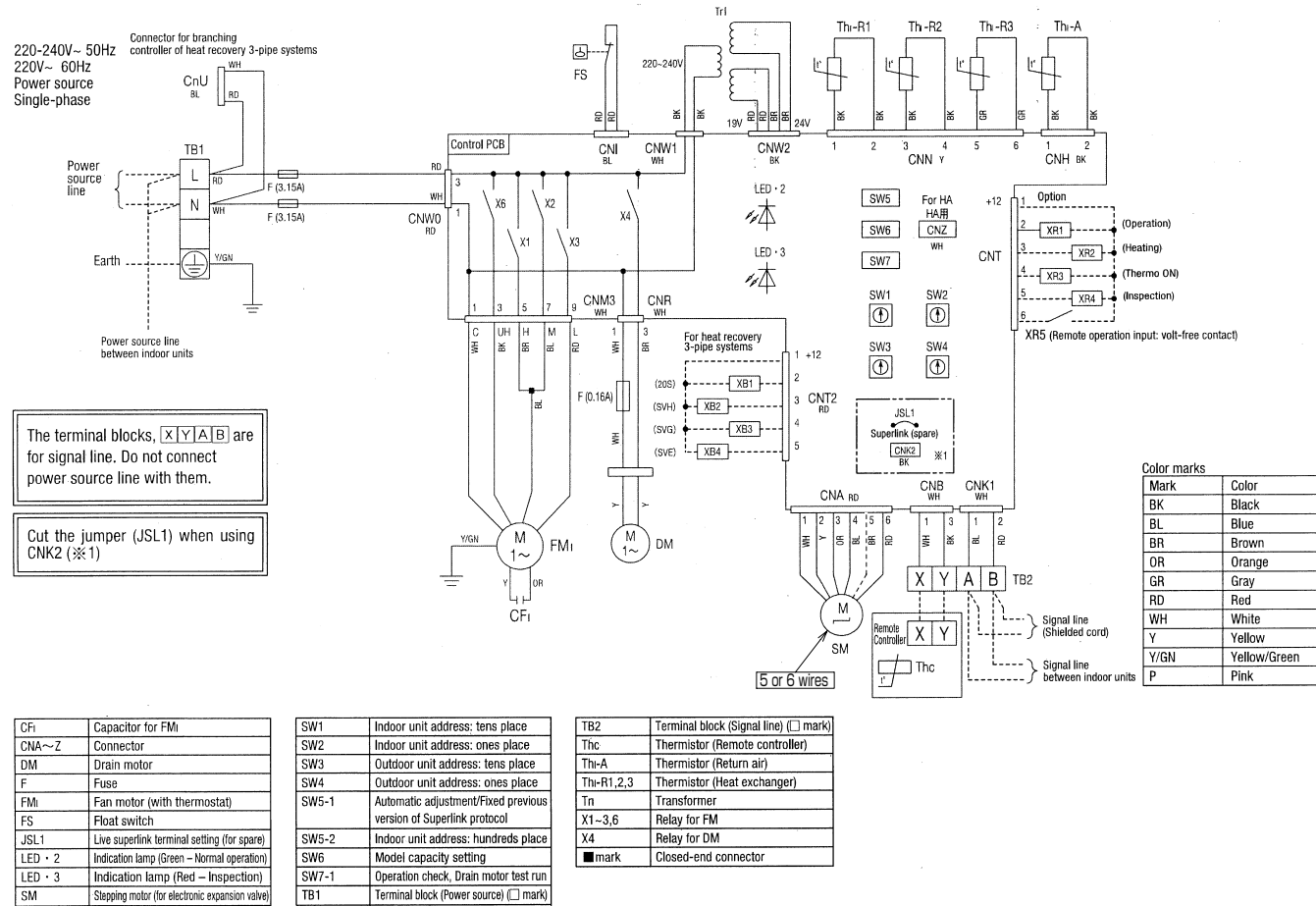
CATEGORY	NUMBER	FUNCTION	SETTING
I/U FUNCTION	02	FAN SPEED SET	HIGH SPEED 1

Invalidating the louver button

The factory setting of the louver button is "Valid".
Change the louver button to "Invalid" by using the function setting of the wired remote controller.

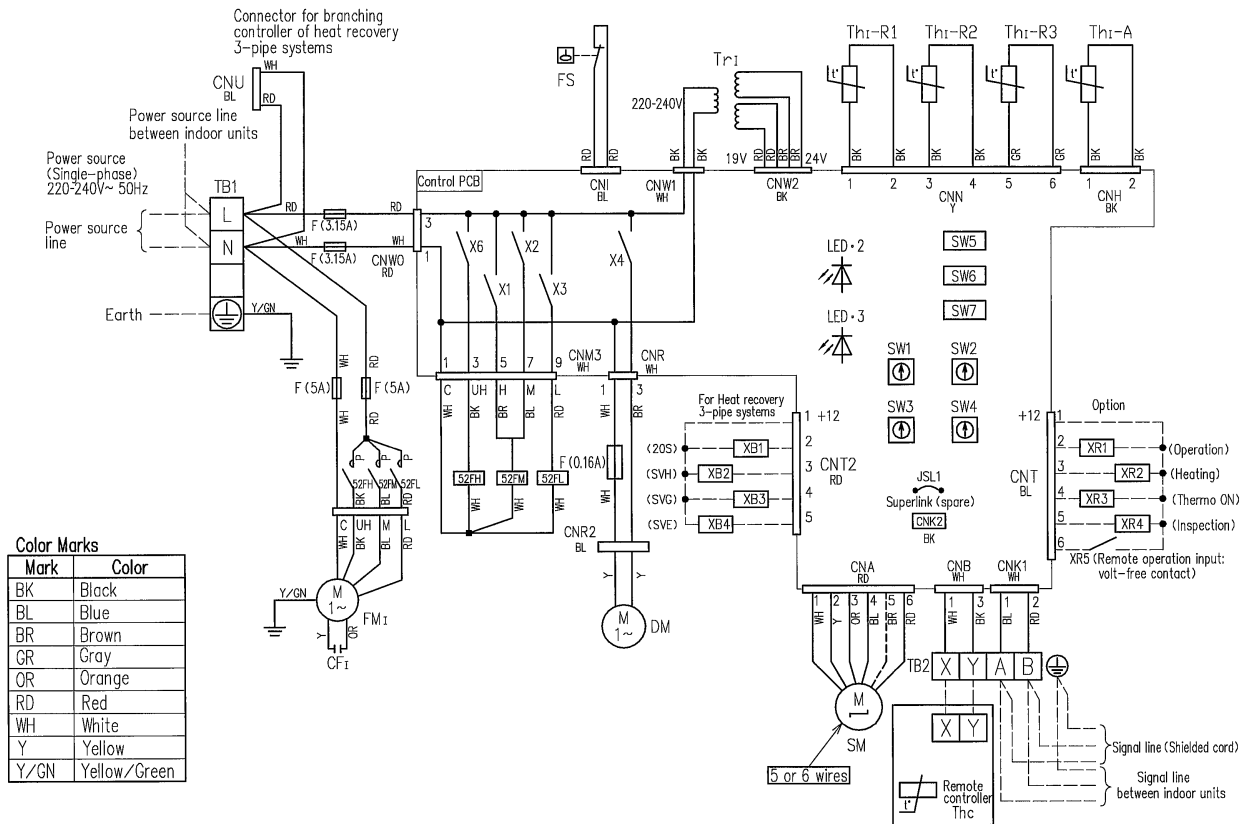
CATEGORY	NUMBER	FUNCTION	SETTING
FUNCTION (REMOTE CONTROLLER FUNCTION)	07	LOUVER SW	INVALID

(f) Duct connected-High static pressure type (FDU)
Model FDU71KXE6

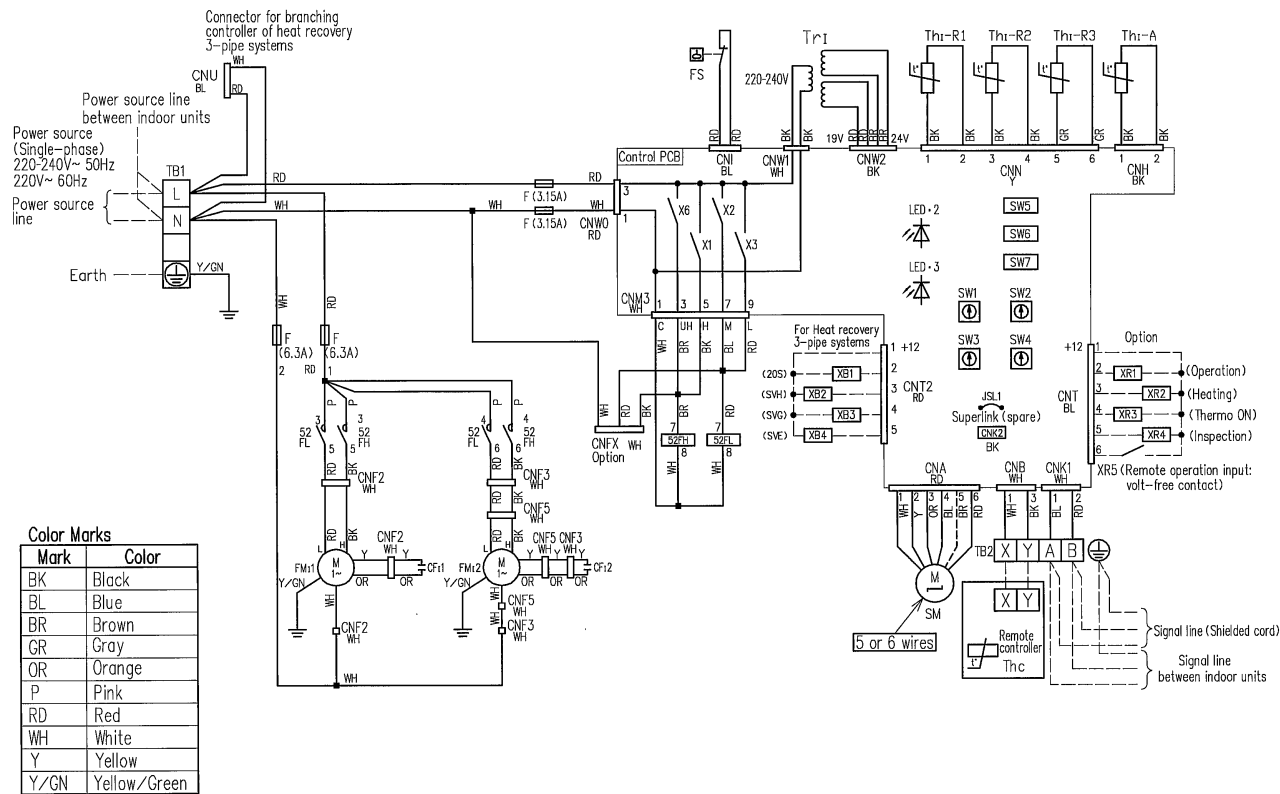


Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.



CF 1	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green—Normal operation)
LED • 3	Indication lamp (Red—Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr 1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
■mark	Closed-end connector
52FL,FM,FH	Electromagnetic contactor for FM1



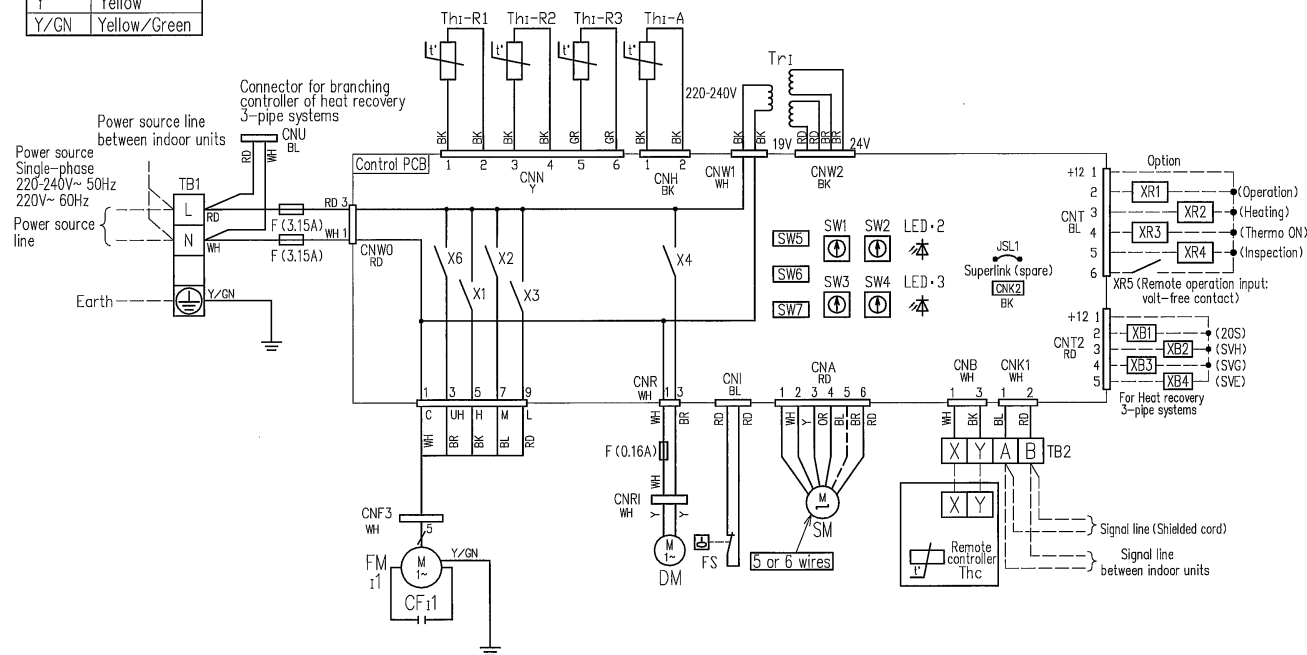
Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

CF 1,2	Capacitor for FM1
CNA~Z	Connector
F	Fuse
FM 1,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED•2	Indication lamp (Green—Normal operation)
LED•3	Indication lamp (Red—Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr 1	Transformer
X1-3,6	Relay for FM
■mark	Closed-end connector
52FL,FH	Electromagnetic contactor for FM1

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



Notes 1. — indicates wiring on site.

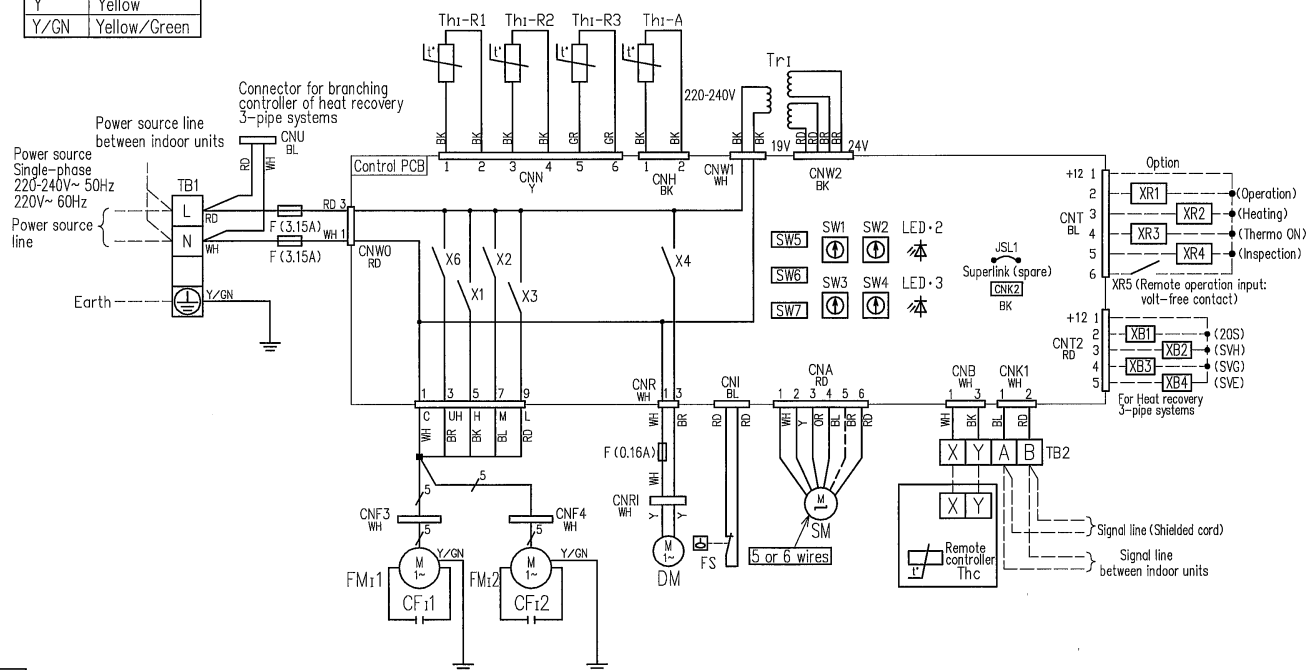
2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

CF1	Capacitor for FM
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green—Normal operation)
LED • 3	Indication lamp (Red—Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3, 6	Relay for FM
X4	Relay for DM
■mark	Closed-end connector

(g) Duct connected-Middle static pressure type (FDUM)
Models FDUM22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6, 71KXE6, 90KXE6

Color Marks

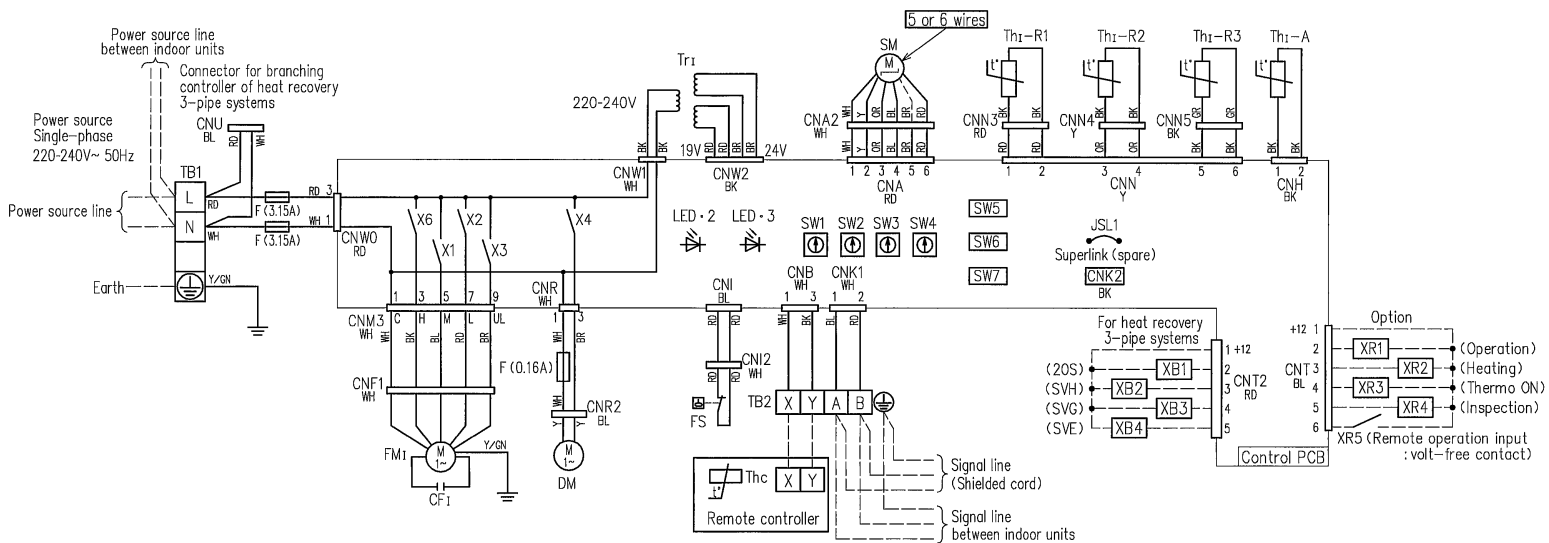
Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



CF1,2	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM 1,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green—Normal operation)
LED • 3	Indication lamp (Red—Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (mark)
TB2	Terminal block (Signal line) (mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
mark	Closed-end connector

Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.



Notes

1. — indicates wiring on site.
2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

CF1	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green—Normal operation)
LED • 3	Indication lamp (Red—Inspection)

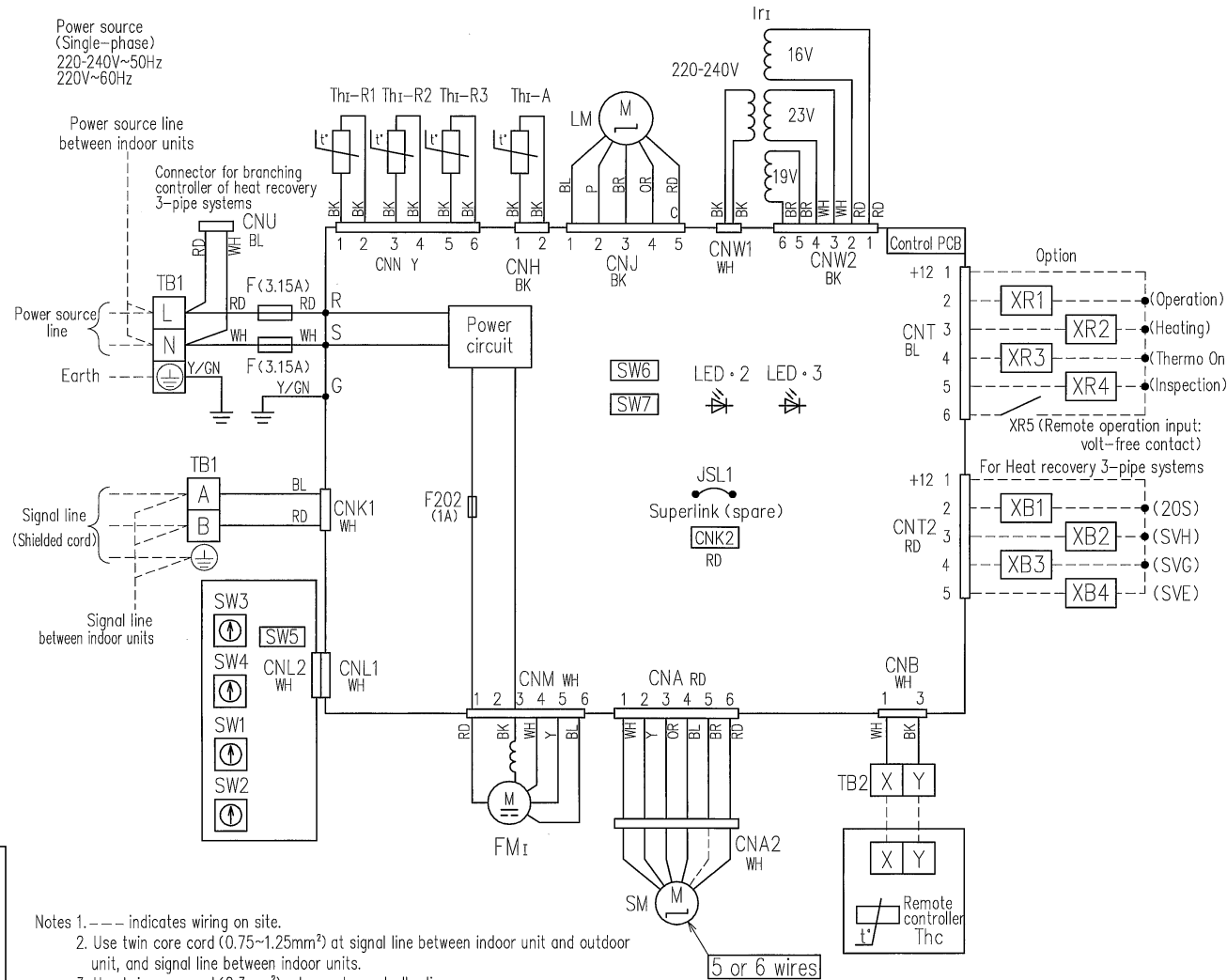
SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting

SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□ mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3, 6	Relay for FM
X4	Relay for DM

Color Marks

Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	Y	Yellow
GR	Gray	Y/GN	Yellow/Green
OR	Orange		

(i) Wall-mounted type (FDK)
Models FDK22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6



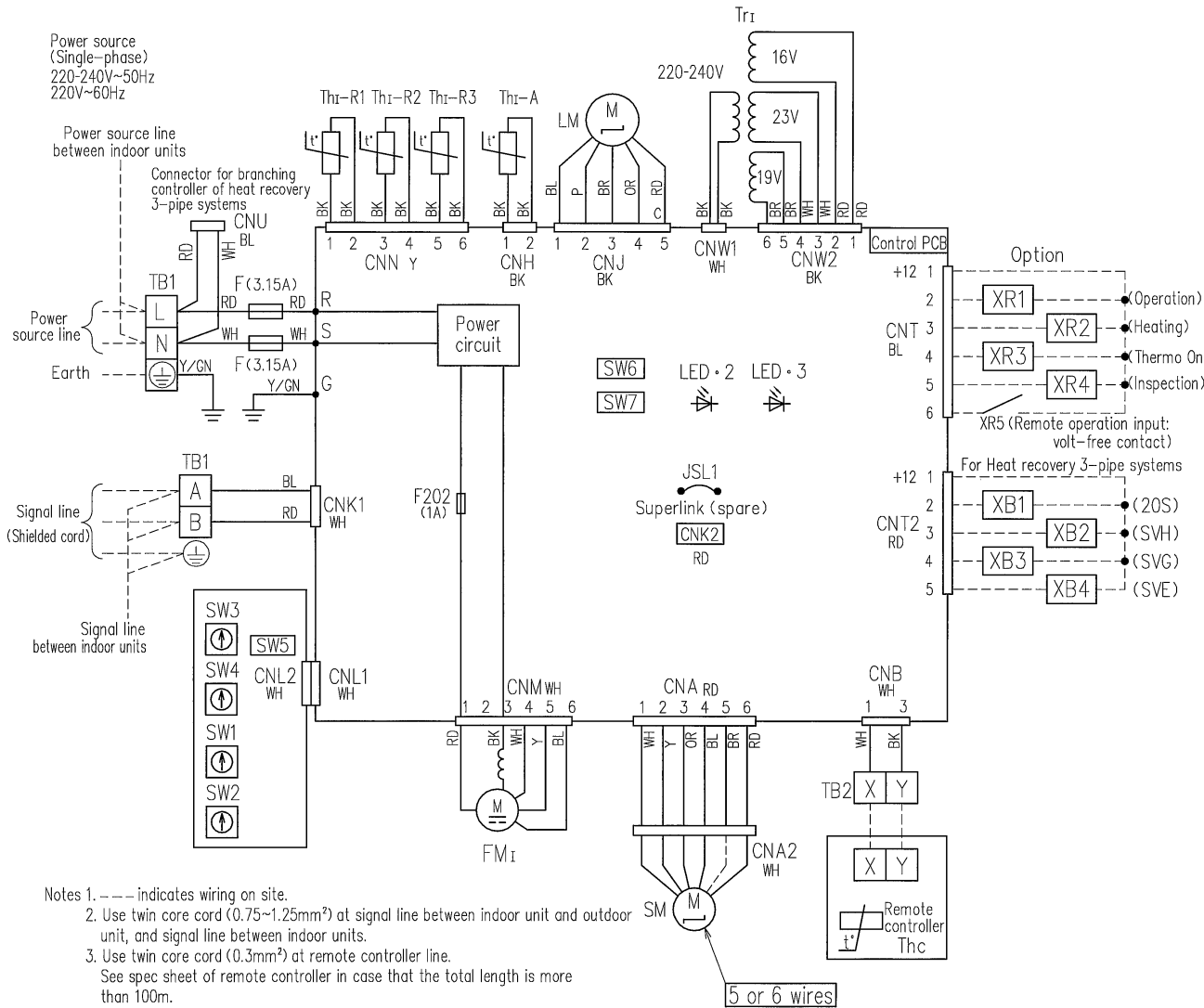
CNA~Z	Connector
F,F202	Fuse
FM1	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green—Normal operation)
LED • 3	Indication lamp (Red—Inspection)
LM	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check/Drain motor test run
TB1	Terminal block (□mark)
TB2	Terminal block (Remote Controller) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer

Color Marks

Mark	Color	Mark	Color
BK	Black	P	Pink
BL	Blue	RD	Red
BR	Brown	WH	White
GN	Green	Y	Yellow
OR	Orange	Y/GN	Yellow/Green

- Notes 1. --- indicates wiring on site.
2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote controller line.
See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

PHA000Z983B



CNA~Z	Connector
F,F202	Fuse
FM1	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
LM	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check/Drain motor test run
TB1	Terminal block (□mark)
TB2	Terminal block (Remote Controller) (□mark)
Thc	Thermistor (Remote controller)
Thi-A	Thermistor (Return air)
Thi-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer

Color Marks			
Mark	Color	Mark	Color
BK	Black	P	Pink
BL	Blue	RD	Red
BR	Brown	WH	White
GN	Green	Y	Yellow
OR	Orange	Y/GN	Yellow/Green

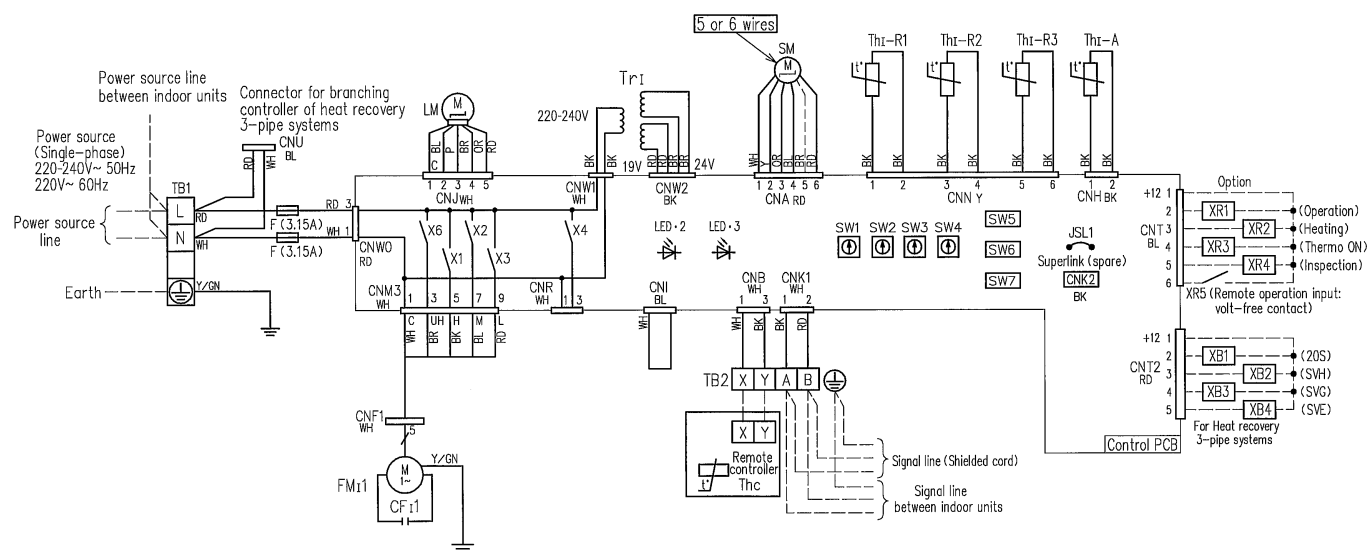
- Notes 1. --- indicates wiring on site.
 2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
 3. Use twin core cord (0.3mm²) at remote controller line.
 See spec sheet of remote controller in case that the total length is more than 100m.
 4. Do not put signal line and remote controller line alongside power source line.

PHA000Z984/B

(I) Ceiling suspended type (FDE)
Models FDE36KXE6A, 45KXE6A, 56KXE6A

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



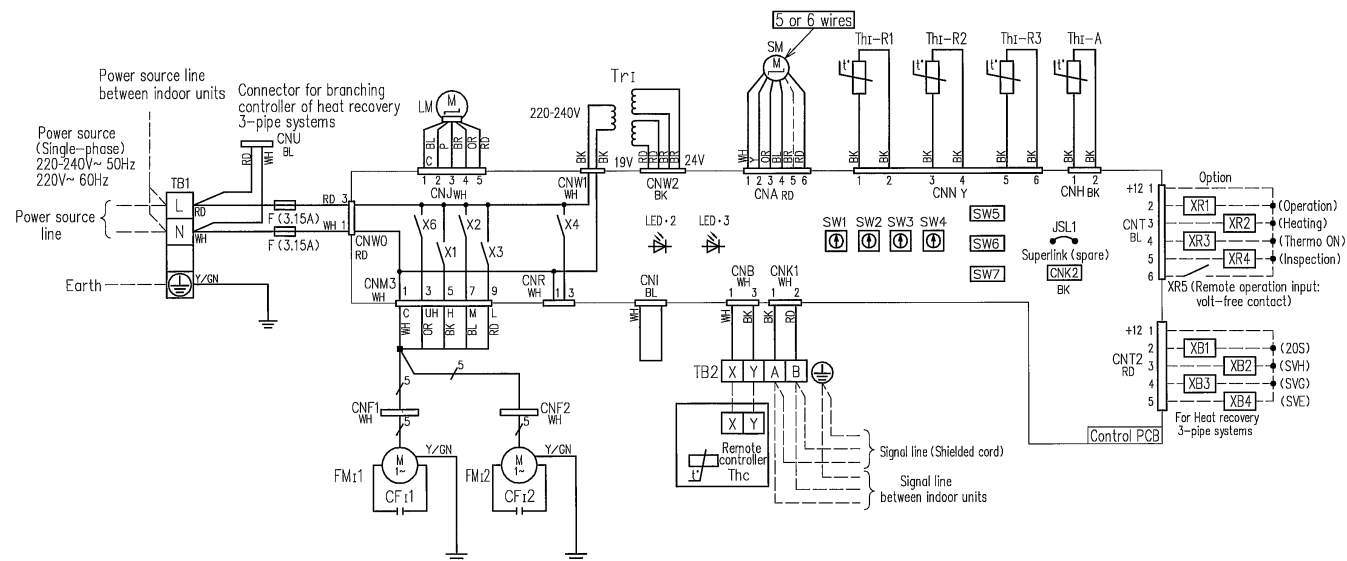
CF1,2	Capacitor for FM1
CNA~Z	Connector
F	Fuse
FM1,2	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
LM	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM

Notes 1. --- indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

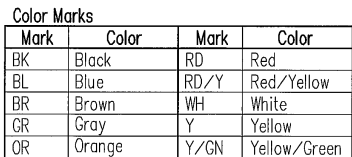
Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



CF1,2	Capacitor for FM1
CNA~Z	Connector
F	Fuse
FM1,2	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green—Normal operation)
LED-3	Indication lamp (Red—Inspection)
LM	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
■mark	Closed-end connector

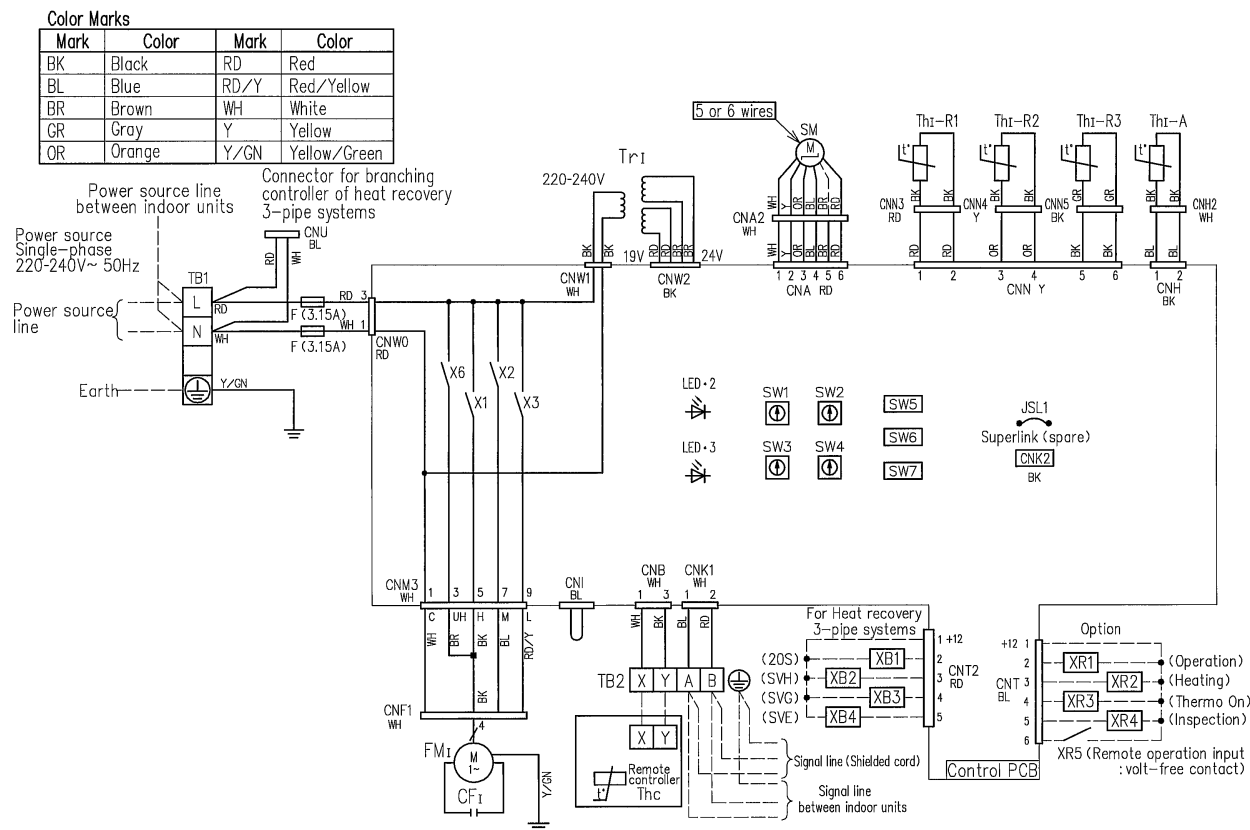
- Notes 1. --- indicates wiring on site.
 2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
 3. Use twin core cable (0.3mm²) at remote controller. See spec sheet of remote controller in case that the total length is more than 100m.
 4. Do not put signal line and remote controller line alongside power source line.



CF1	Capacitor for FMI
CNA~Z	Connector
F	Fuse
FMI	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED・2	Indication lamp (Green—Normal operation)
LED・3	Indication lamp (Red—Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
■mark	Closed-end connector

- Notes 1.— indicates wiring on site.
2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote controller line.
See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

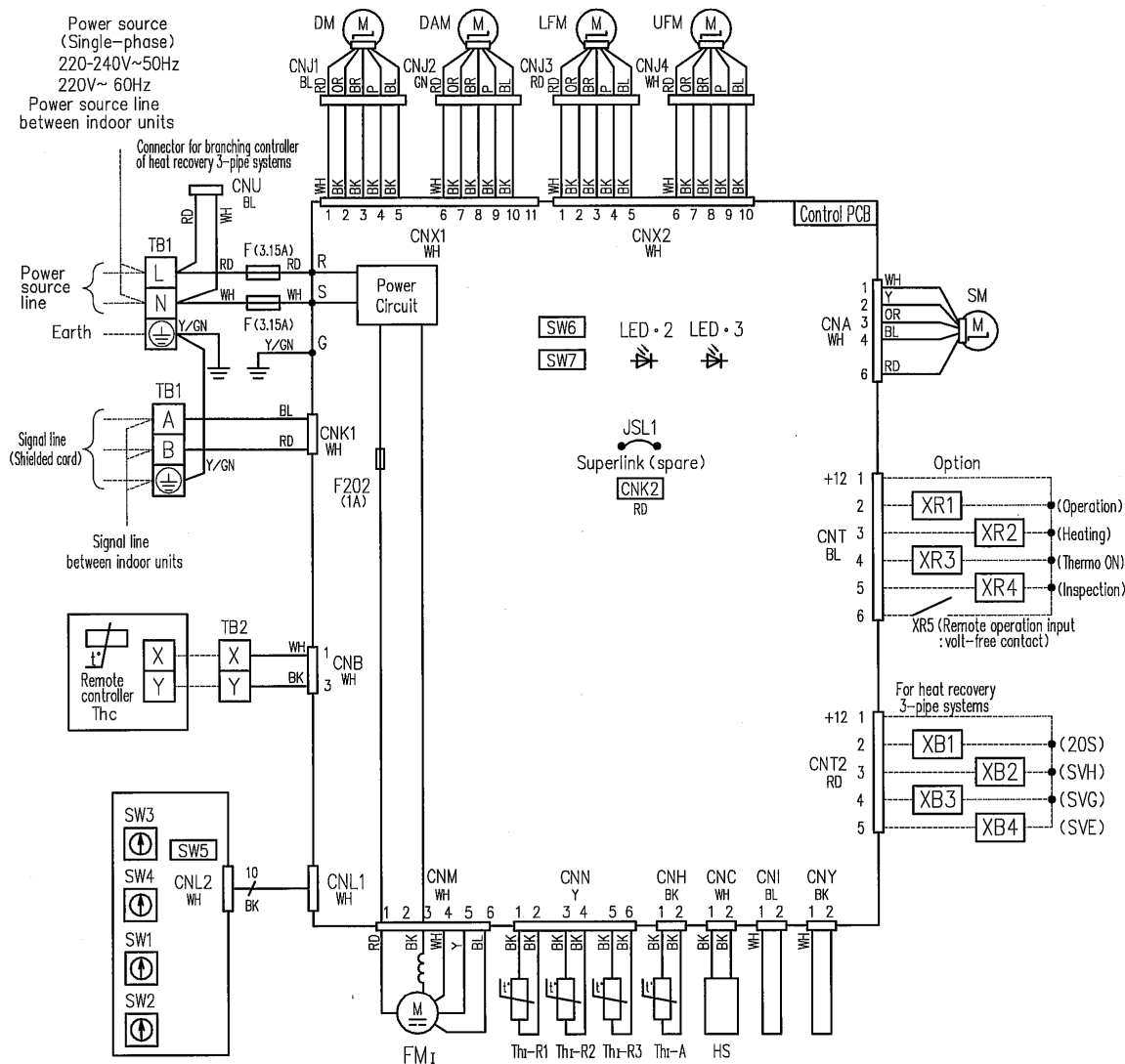
(I) Floor standing (without casing) type (FDFU)
Models All models



CF1	Capacitor for FM1
CNA~Z	Connector
F	Fuse
FM1	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: one place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check/Drain motor test run
TB1	Terminal block (Power source) (mark)
TB2	Terminal block (Signal line) (mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
mark	Closed-end connector

- Notes
1. — indicates wiring on site
 2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
 3. Use twin core cord (0.3mm²) at remote controller line.
See spec sheet of remote controller in case that the total length is more than 100m.
 4. Do not put signal line and remote controller line alongside power source line.

(m) Floor standing-2 way type (FDFW)
Models All models

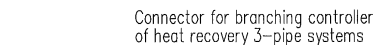


CNA~Z	Connector
F,F202	Fuse
FM ₁	Fan motor (with thermistor)
HS	Humidity sensor
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green-Normal operation)
LED • 3	Indication lamp (Red-Inspection)
DM	Damper motor
DAM	Damper arm motor
LFM	Lower flap motor
UFM	Upper flap motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (□mark)
TB2	Terminal block (Remote controller) (□mark)
Thc	Thermistor (Remote controller)
Thi-A	Thermistor (Return air)
Thi-R1,2,3	Thermistor (Heat exchanger)

- Notes 1. --- indicates wiring on site.
2. Use twin core cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote controller line.
See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

PGF000Z004

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



Power Source
220V-240V~ 50Hz

Power source line {

Earth ---+

Power source line
between indoor units

The terminal blocks **X|Y|A|B** are for signal lines.
Do not connect power source line (220V/240V/380V/415V) with them

Cut the jumper (JSL1)
when using CNK2 (*1)

CF1	Capacitor for FM1
CNA~7	Connector
F	Fuse
FM1	Fan motor (with thermister)
JSL1	Live Superlink terminal setting (for spare)
LED・2	Indication lamp (Green-Normal operation)
LED・3	Indication lamp (Red-Inspection)
SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	terminal block (Power source) (Umark)
TB2	terminal block (Signal line) (Umark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM

Notes 1. — — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

3.4 Noise level

Note (1) The data are based on the following conditions.

Ambient air temperature: Indoor unit 27°CDB, 19°CWB. Outdoor unit 35°CDB

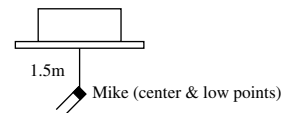
(2) The data in the chart are measured in an anechoic room.

(3) The noise levels measured in the field are usually higher than the data because of reflection.

(a) Ceiling cassette-4 way compact type (FDTC)

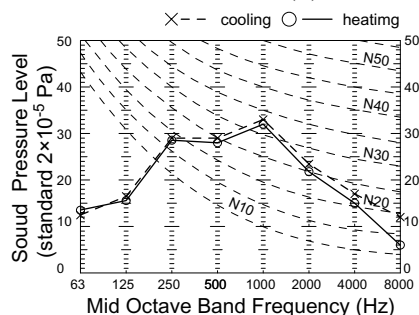
Measured based on JIS B 8616

Mike position as right



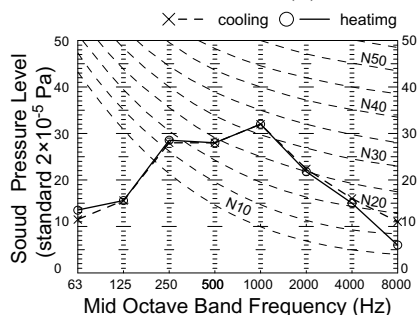
Model FDTC22KXE6B

Noise level 35 [35] dB (A) at HIGH
33 [33] dB (A) at MEDIUM
30 [32] dB (A) at LOW



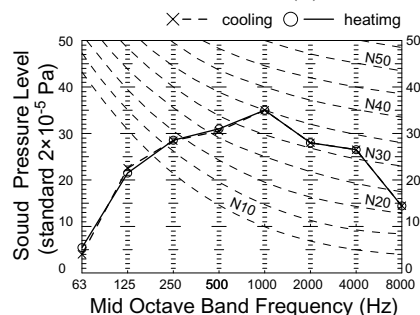
Model FDTC28KXE6B

Noise level 35 [35] dB (A) at HIGH
33 [33] dB (A) at MEDIUM
30 [32] dB (A) at LOW



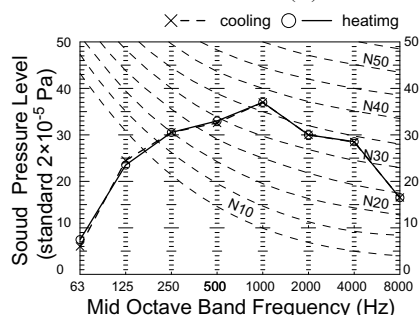
Model FDTC36KXE6B

Noise level 38 [38] dB (A) at HIGH
36 [36] dB (A) at MEDIUM
31 [34] dB (A) at LOW



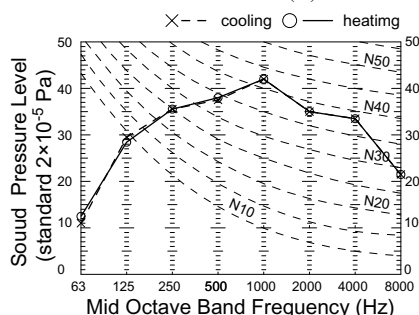
Model FDTC45KXE6B

Noise level 40 [40] dB (A) at HIGH
37 [37] dB (A) at MEDIUM
31 [34] dB (A) at LOW



Model FDTC56KXE6B

Noise level 45 [45] dB (A) at HIGH
39 [39] dB (A) at MEDIUM
31 [34] dB (A) at LOW

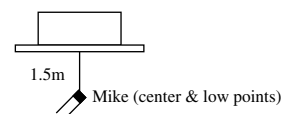


Note (1) Value in [] are for the heating mode.

(b) Ceiling cassette-4 way type (FDT)

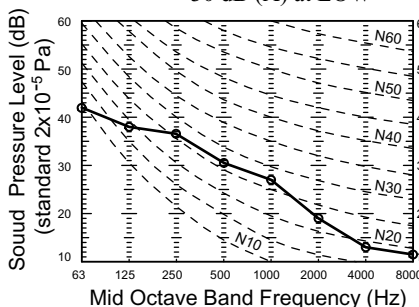
Measured based on JIS B 8616

Mike position as right



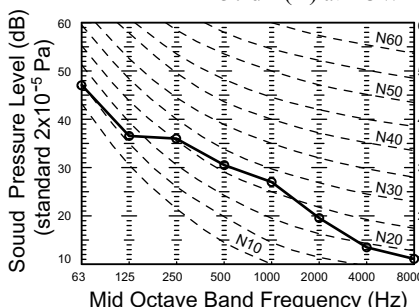
Models FDT28KXE6A, 36KXE6A, 45KXE6A

Noise level 33 dB (A) at HIGH
31 dB (A) at MEDIUM
30 dB (A) at LOW



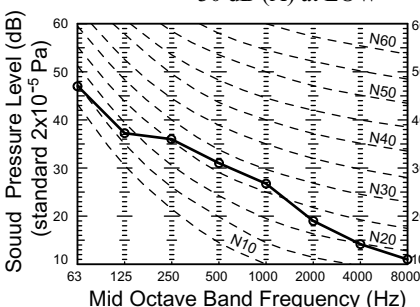
Model FDT56KXE6A

Noise level 33 dB (A) at HIGH
31 dB (A) at MEDIUM
30 dB (A) at LOW



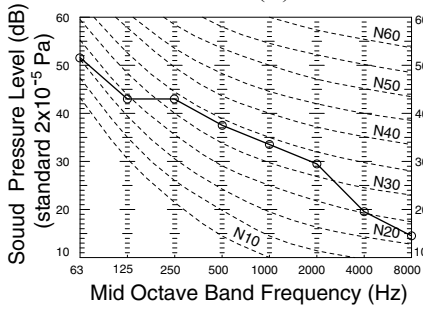
Model FDT71KXE6A

Noise level 33 dB (A) at HIGH
31 dB (A) at MEDIUM
30 dB (A) at LOW

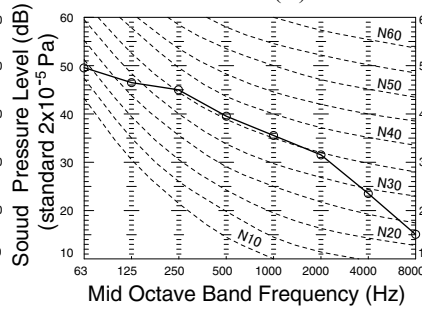


Model FDT90KXE6A, 112KXE6A

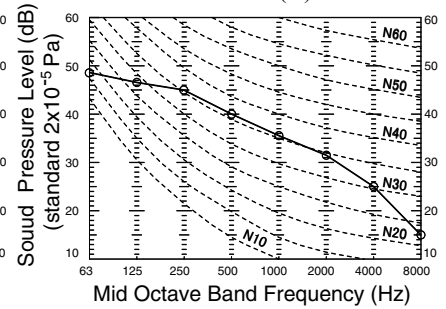
Noise level 40 dB (A) at HIGH
37 dB (A) at MEDIUM
35 dB (A) at LOW

**Model FDT140KXE6A**

Noise level 42 dB (A) at HIGH
40 dB (A) at MEDIUM
37 dB (A) at LOW

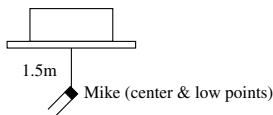
**Model FDT160KXE6A**

Noise level 43 dB (A) at HIGH
41 dB (A) at MEDIUM
38 dB (A) at LOW

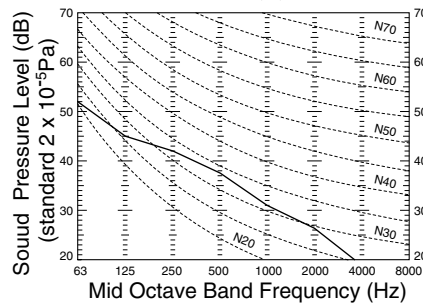
**(c) Ceiling cassette-2 way type (FDTW)**

Measured based on JIS B 8616

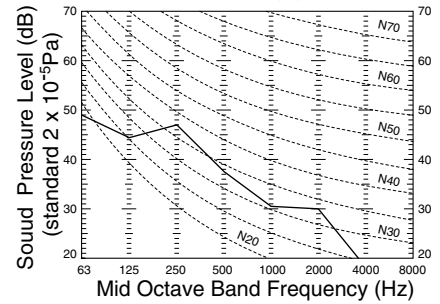
Mike position as below

**Models FDTW28KXE6, 45KXE6, 56KXE6**

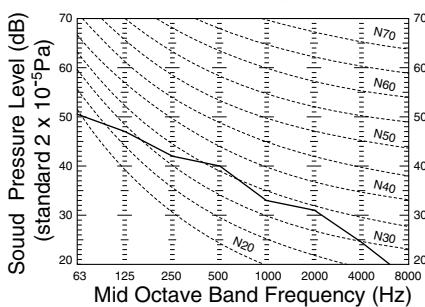
Noise level 39 dB (A) at HIGH
34 dB (A) at MEDIUM
32 dB (A) at LOW

**Model FDTW71KXE6**

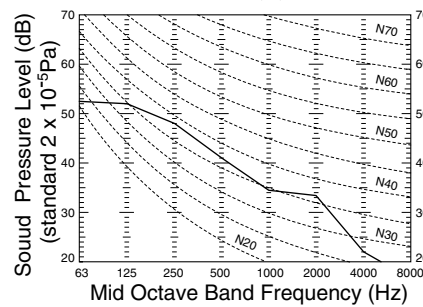
Noise level 41 dB (A) at HIGH
36 dB (A) at MEDIUM
35 dB (A) at LOW

**Model FDTW90KXE6**

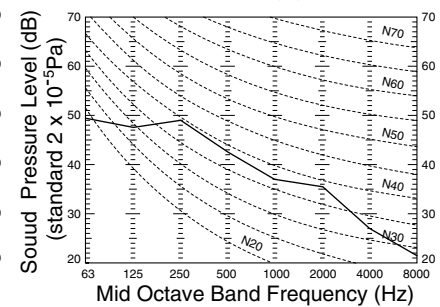
Noise level 41 dB (A) at HIGH
37 dB (A) at MEDIUM
36 dB (A) at LOW

**Model FDTW112KXE6**

Noise level 44 dB (A) at HIGH
38 dB (A) at MEDIUM
37 dB (A) at LOW

**Model FDTW140KXE6**

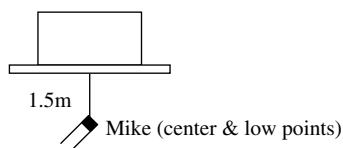
Noise level 45 dB (A) at HIGH
41 dB (A) at MEDIUM
39 dB (A) at LOW



(d) Ceiling cassette-1 way compact type (FDTQ)

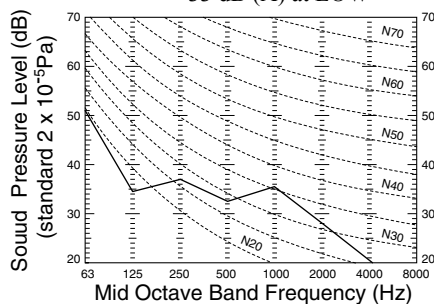
Measured based on JIS B 8616

Mike position as below



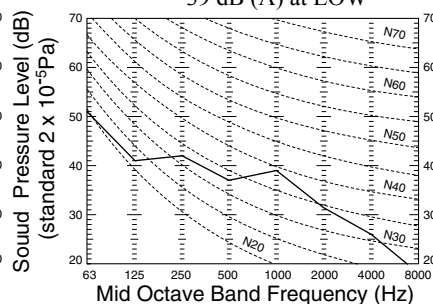
**Models FDTQ22KXE6, 28KXE6
36KXE6**

Noise level 38 dB (A) at HIGH
33 dB (A) at LOW



**When used as the Duct panel type
Models FDTQ22KXE6, 28KXE6
36KXE6**

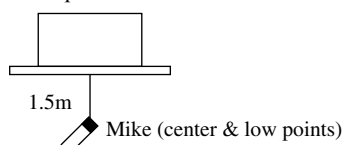
Noise level 42 dB (A) at HIGH
39 dB (A) at LOW



**(e) Ceiling cassette-1 way
type (FDTS)**

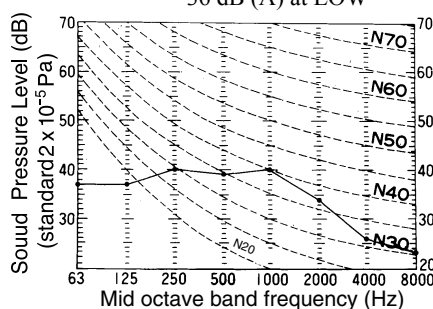
Measured based on JIS B 8616

Mike position as below



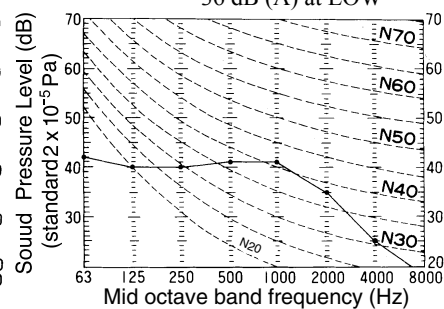
Model FDTS45KXE6

Noise level 43 dB (A) at HIGH
38 dB (A) at MEDIUM
36 dB (A) at LOW



Model FDTS71KXE6

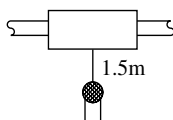
Noise level 44 dB (A) at HIGH
38 dB (A) at MEDIUM
36 dB (A) at LOW



(f) Duct connected-High static pressure type (FDU)

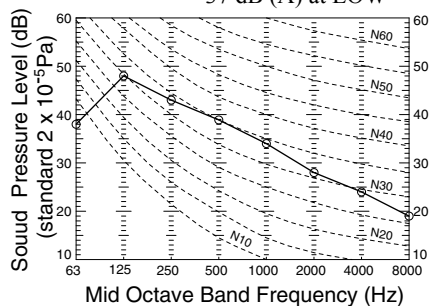
Measured based on JIS B 8616

Mike position as right



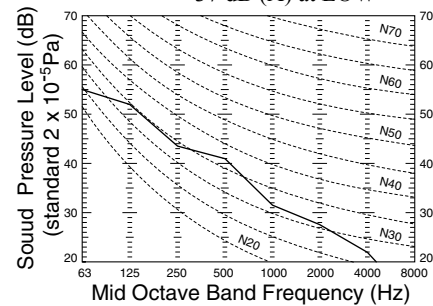
Model FDU71KXE6

Noise level 41 dB (A) at HIGH
37 dB (A) at LOW



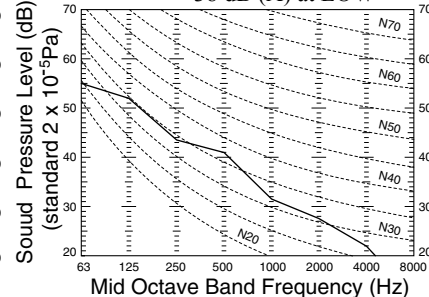
Model FDU90KXE6

Noise level 42 dB (A) at HIGH
37 dB (A) at LOW



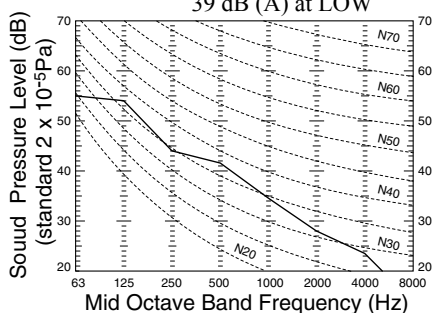
Model FDU112KXE6

Noise level 42 dB (A) at HIGH
38 dB (A) at LOW

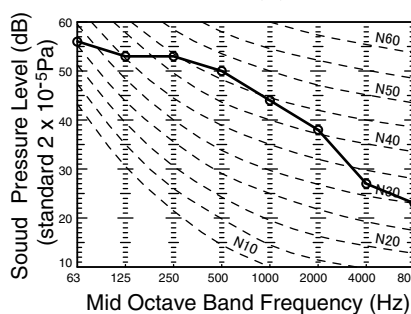


Model FDU140KXE6

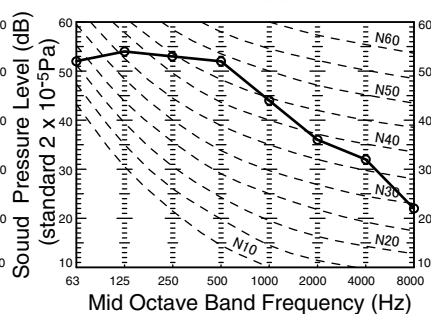
Noise level 43 dB (A) at HIGH
39 dB (A) at LOW

**Model FDU224KXE6**

Noise level 51 dB (A) at HIGH

**Model FDU280KXE6**

Noise level 52 dB (A) at HIGH

**• Power level**

(Measurement conditions: JIS-B8616,
measurement location: reverberation chamber)

(Unit: dB)

MODEL	Outlet side	Inlet side
FDU71KXE6	65	65
FDU90, 112KXE6	66	66
FDU140KXE6	67	67

Note (1) Values are for external static pressure of 50Pa

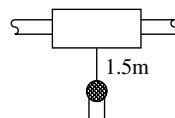
(Unit: dB)

MODEL	Outlet side	Inlet side
FDU224KXE6	75	64
FDU280KXE6	76	65

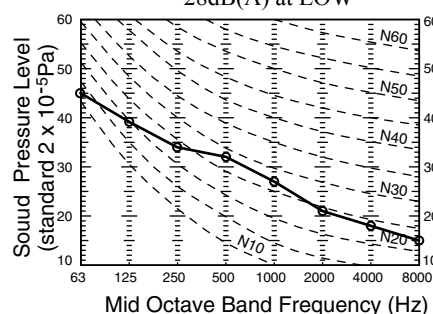
Note (1) Values are for external static pressure of 200Pa

(g) Duct connected-Middle static pressure type (FDUM)

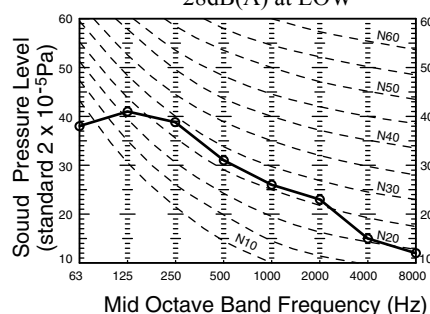
Measured based on JIS B 8616
Mike position as right

**Model FDUM22KXE6**

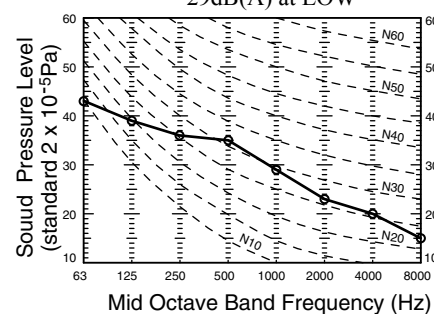
Noise level 33dB(A) at HIGH
31dB(A) at MEDIUM
28dB(A) at LOW

**Models FDUM28KXE6,36KXE6**

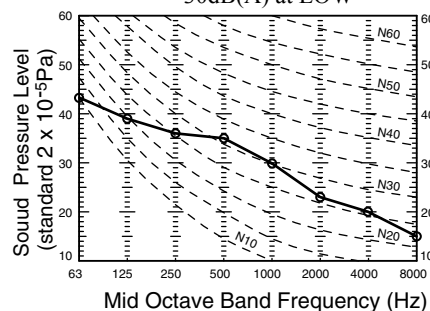
Noise level 34dB(A) at HIGH
31dB(A) at MEDIUM
28dB(A) at LOW

**Models FDUM45KXE6,56KXE6,71KXE6**

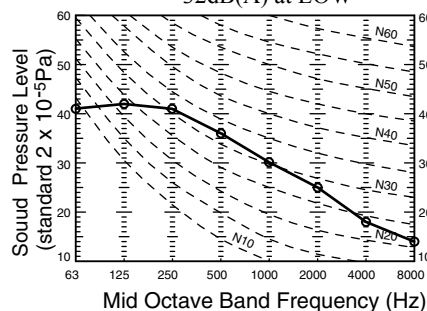
Noise level 35dB(A) at HIGH
32dB(A) at MEDIUM
29dB(A) at LOW

**Model FDUM90KXE6**

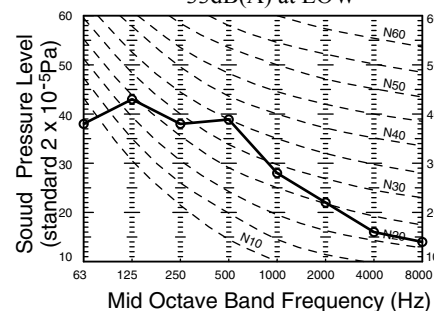
Noise level 36dB(A) at HIGH
33dB(A) at MEDIUM
30dB(A) at LOW

**Model FDUM112KXE6**

Noise level 37dB(A) at HIGH
35dB(A) at MEDIUM
32dB(A) at LOW

**Model FDUM140KXE6**

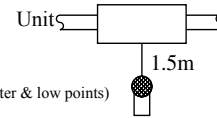
Noise level 38dB(A) at HIGH
36dB(A) at MEDIUM
33dB(A) at LOW



(h) Duct connected (Ultra thin)-Low static pressure type (FDQS)

Measured based on JIS B 8616

Mike position as right



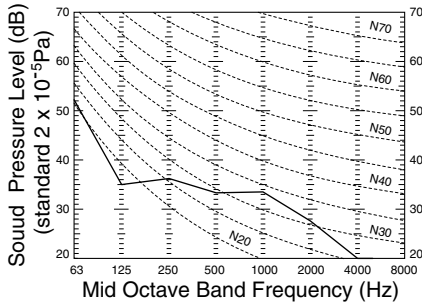
Model FDQS22, 28, 36KXE6

Noise level (Rear air return)

37 dB (A) at HIGH

35 dB (A) at MEDIUM

33 dB (A) at LOW



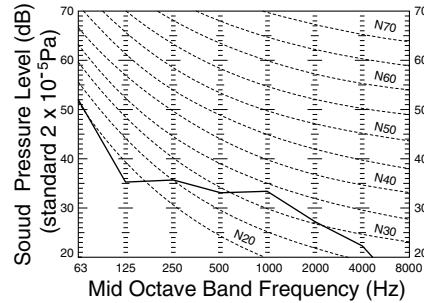
Model FDQS45, 56KXE6

Noise level (Rear air return)

37 dB (A) at HIGH

35 dB (A) at MEDIUM

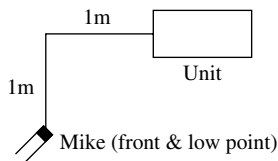
33 dB (A) at LOW



(i) Ceiling suspended type (FDE)

Measured based on JIS B 8616

Mike position as below

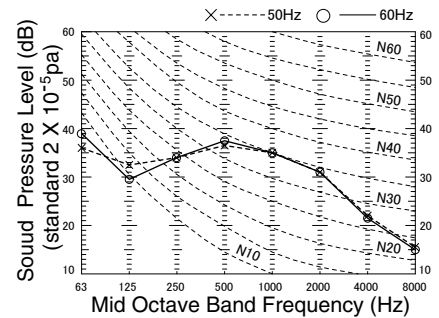


Models FDE36KXE6A, 45KXE6A, 56KXE6A

Noise level 39 dB (A) at HIGH

38 dB (A) at MEDIUM

36 dB (A) at LOW

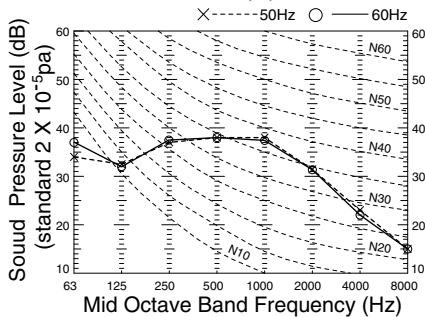


Model FDE71KXE6A

Noise level 41 dB (A) at HIGH

39 dB (A) at MEDIUM

37 dB (A) at LOW

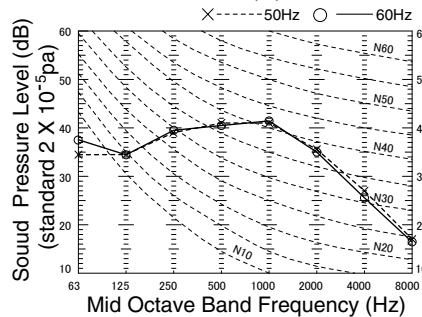


Model FDE112KXE6A

Noise level 44 dB (A) at HIGH

41 dB (A) at MEDIUM

39 dB (A) at LOW

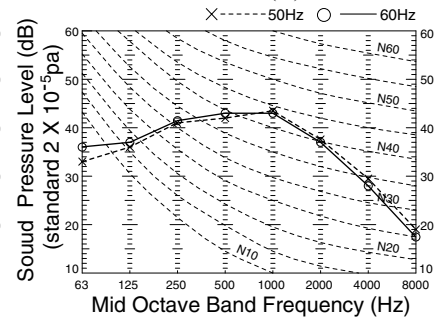


Model FDE140KXE6A

Noise level 46 dB (A) at HIGH

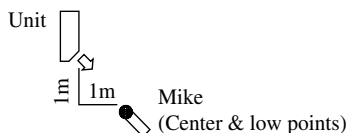
44 dB (A) at MEDIUM

43 dB (A) at LOW



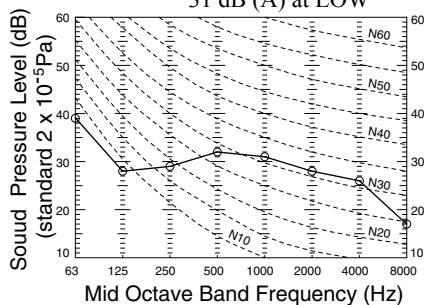
(j) Wall-mounted type (FDK)

Measured based on JIS B 8616
Mike position as right



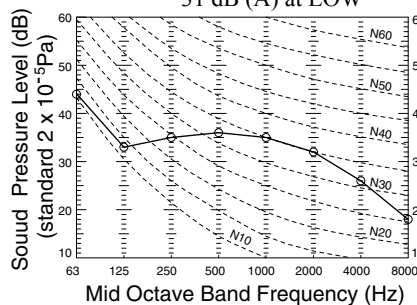
Models FDK22KXE6, 28KXE6

Noise level 35 dB (A) at HIGH
33 dB (A) at MEDIUM
31 dB (A) at LOW



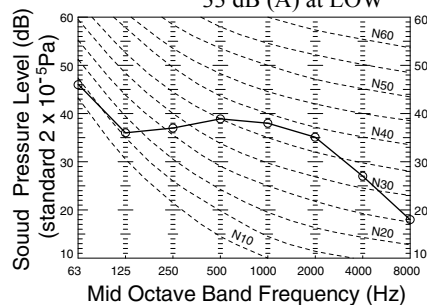
Model FDK36KXE6

Noise level 39 dB (A) at HIGH
35 dB (A) at MEDIUM
31 dB (A) at LOW



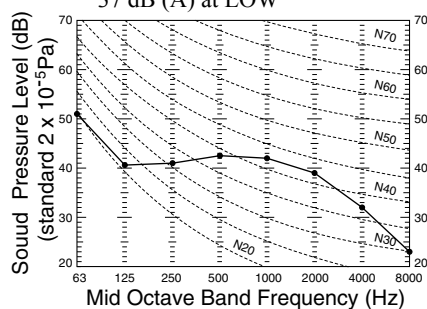
Model FDK45KXE6

Noise level 42 dB (A) at HIGH
37 dB (A) at MEDIUM
33 dB (A) at LOW



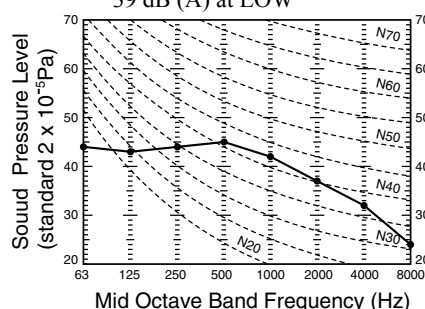
Model FDK56KXE6

Noise level 46 dB (A) at HIGH
42 dB (A) at MEDIUM
37 dB (A) at LOW



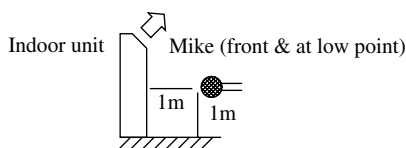
Model FDK71KXE6

Noise level 47 dB (A) at HIGH
43 dB (A) at MEDIUM
39 dB (A) at LOW



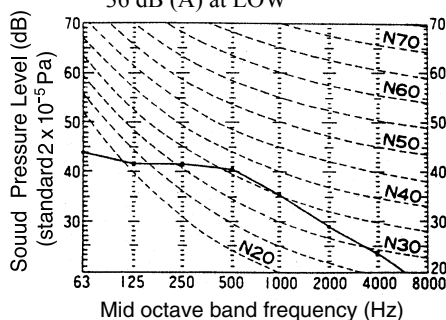
(k) Floor standing type (FDFL, FDFU)

Measured based on JIS B 8616
Mike position as right



Model FDFU28KXE6

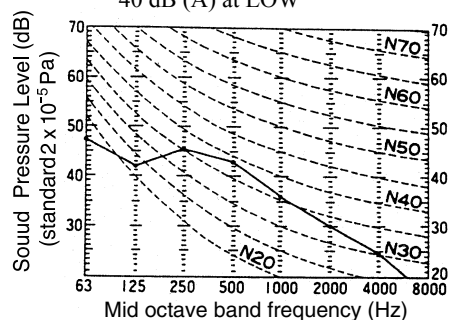
Noise level 41 dB (A) at HIGH
38 dB (A) at MEDIUM
36 dB (A) at LOW



Models FDFL71KXE6

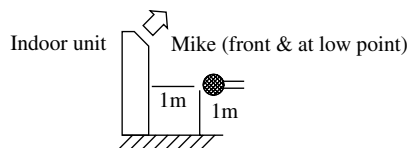
FDFU45KXE6, 56KXE6, 71KXE6

Noise level 43 dB (A) at HIGH
41 dB (A) at MEDIUM
40 dB (A) at LOW



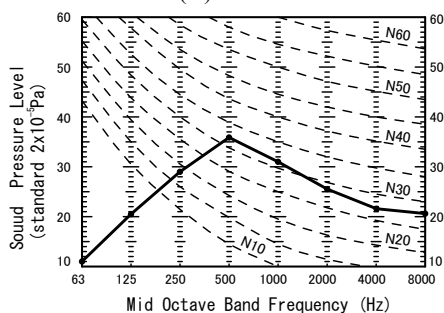
(I) Floor standing-2 way type (FDFW)

Measured based on JIS B 8616
Mike position as right



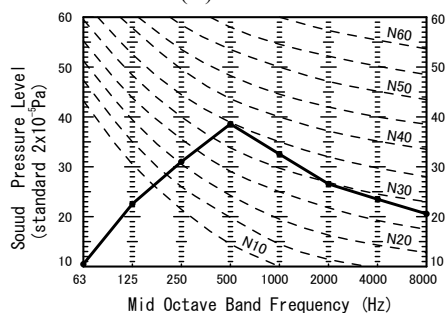
Model FDFW28KXE6

Noise level 36 dB (A) at HIGH
34 dB (A) at MEDIUM
30 dB (A) at LOW



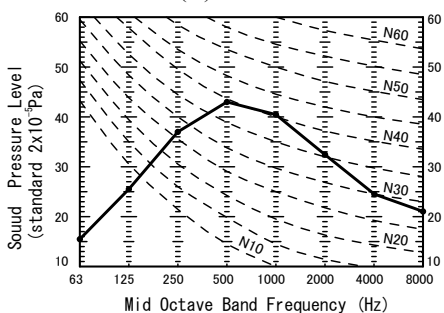
Models FDFW 45KXE6

Noise level 38 dB (A) at HIGH
36 dB (A) at MEDIUM
33 dB (A) at LOW



Model FDFW56KXE6

Noise level 44 dB (A) at HIGH
37 dB (A) at MEDIUM
33 dB (A) at LOW

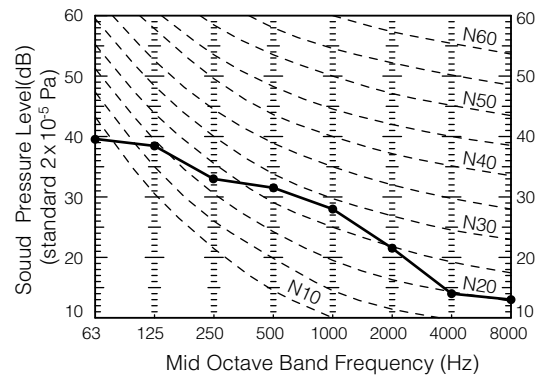
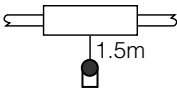


(m) Duct connected-compact and Flexible type (FDUH)

(1) Condition1

Measured based on JIS B8616

Mike position as right



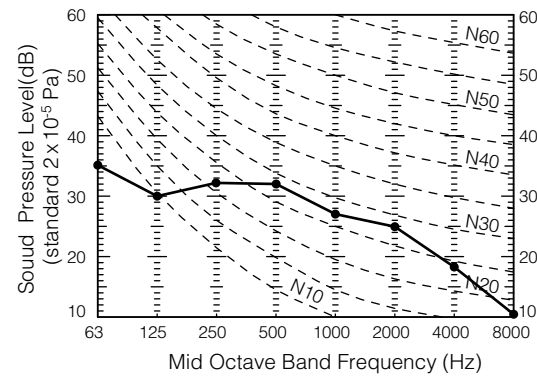
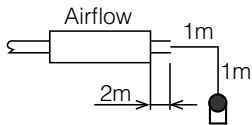
dB(A)

Hi	Me	Lo
33	30	27

(2) Condition2 (For Reference)

Measured based on JIS B8616 ANNEX 3 {Duct Setting}

Mike position as right



dB(A)

Hi	Me	Lo
35	31	28

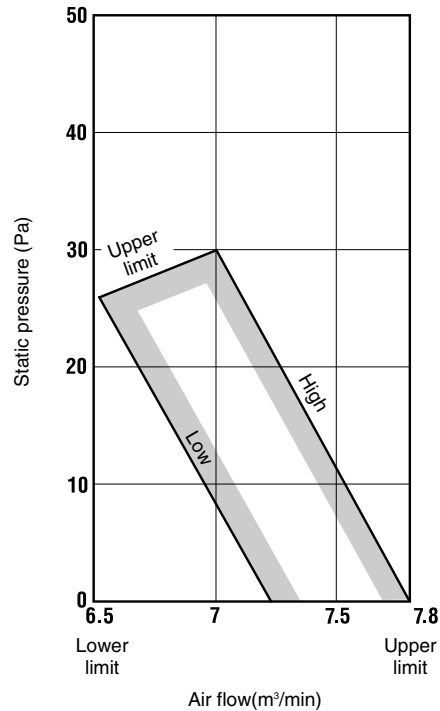
If blowout duct is shorter than above length (2m), sound pressure level will increase.

3.5 Characteristics of fan

(1) Ceiling cassette-1 way compact type (FDTQ)

(Only when FDTQ22, 28 and 36 model are used for the Duct panel type.)

Models FDTQ22, 28 36KXE6



(2) Duct connected-Middle static pressure (FDUM)

• External static pressure table

Unit : Pa

Model	Duct specs. Air flow (m ³ /min)	1 spot closing		Standard		Square duct	
		Stan- dard	High ⁽⁴⁾ speed	Stan- dard	High ⁽⁴⁾ speed	Stan- dard	High ⁽¹⁾ speed
FDUM22	10	-	-	50/40	85/90	40/45	65/75
FDUM28,36	12	-	-	50/40	85/90	40/45	65/75
FDUM45,56	14	-	-	50/40	85/90	50/45	90/90
FDUM71	18	35/30	70/85	50/40	85/100	55/100	90/100
FDUM90	20	30/25	65/80	50/40	85/100	55/50	90/105
FDUM112	28	50/50	80/90	60/60	90/100	65/65	95/105
FDUM140	34	50/45	75/90	60/55	85/100	65/65	95/105

Notes(1) 1 spot closing: Round duct flange at center is removed and shield with a special panel (option).

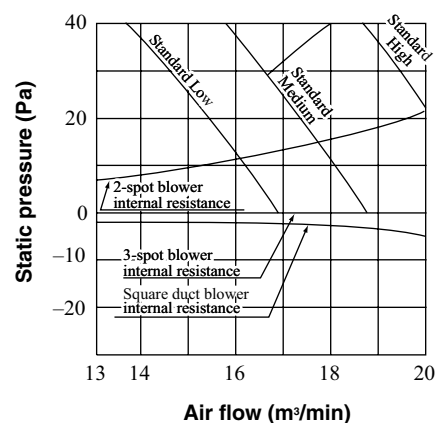
(2) Standard: ø200 duct are installed at all blowout holes.

(3) Square duct: All round ducts are removed and replaced with special square duct flanges (option).

(4) When setting from the remote controller, select "Hi CEILNG 1"

How to interpret the blower characteristics table

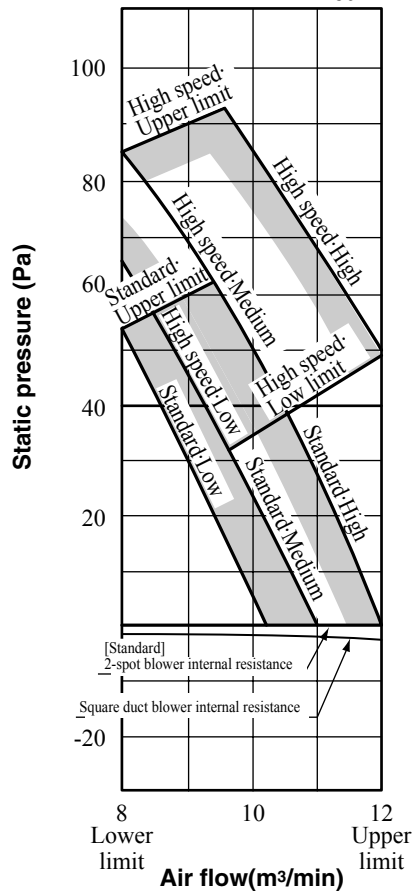
Example : Case of FDUM71KXE6



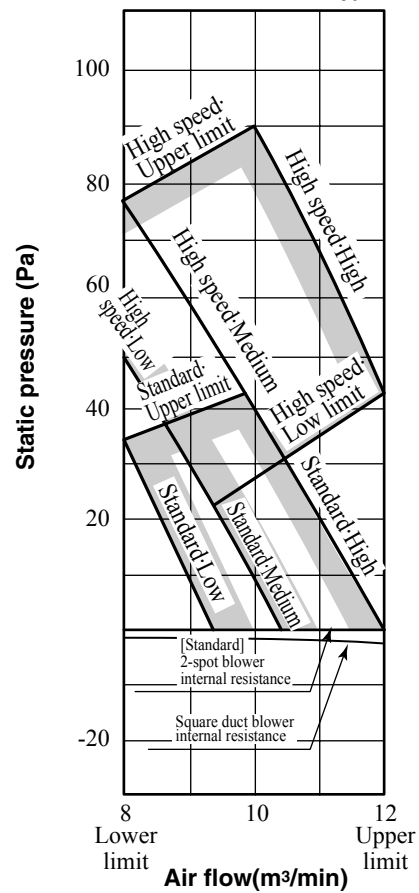
- ① 2-spot blowout.....
Internal resistance increases more than the standard 3-spot blowout.Approx. 14Pa at 17m³/min
- ② Square duct blowout.....
Internal resistance decreases more than the standard round duct (ø200 3-spot). 3Pa at 17m³/min. (External static pressure increases in reverse.)

Model FDUM22KXE6

50Hz

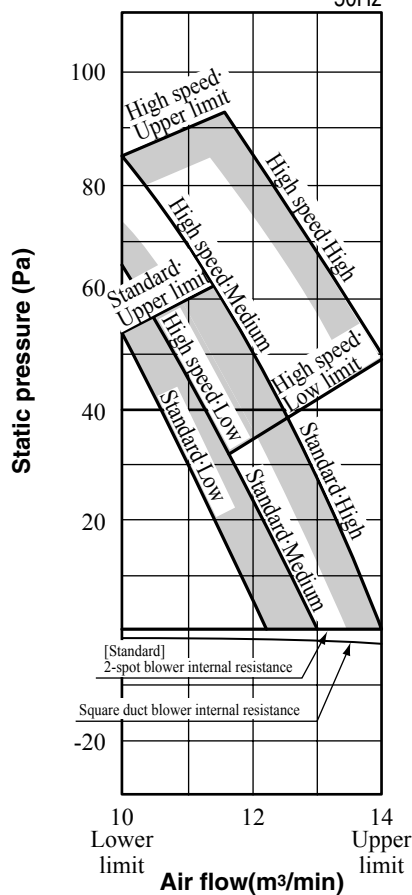


60Hz

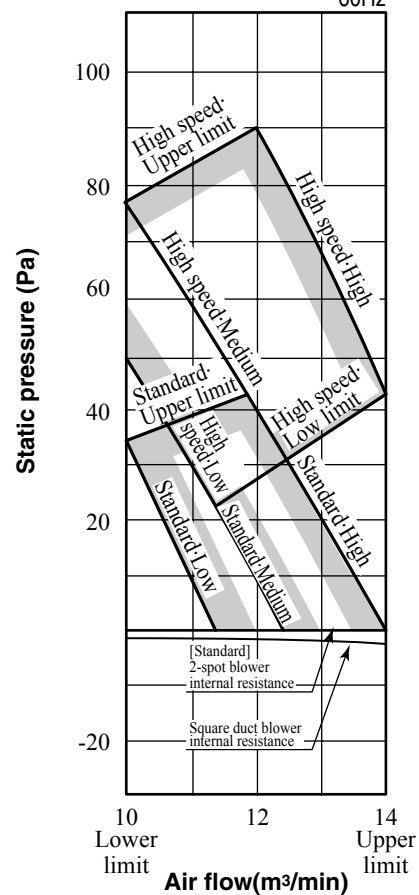


Models FDUM28KXE6,36KXE6

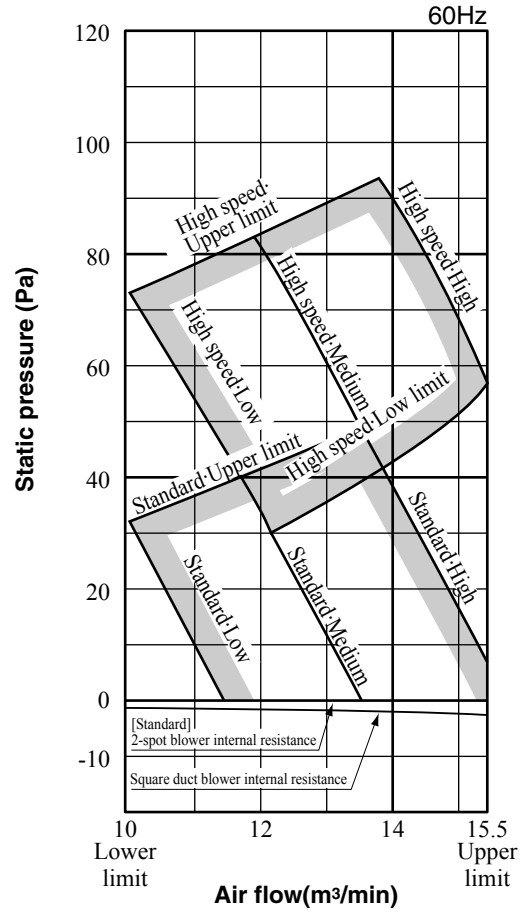
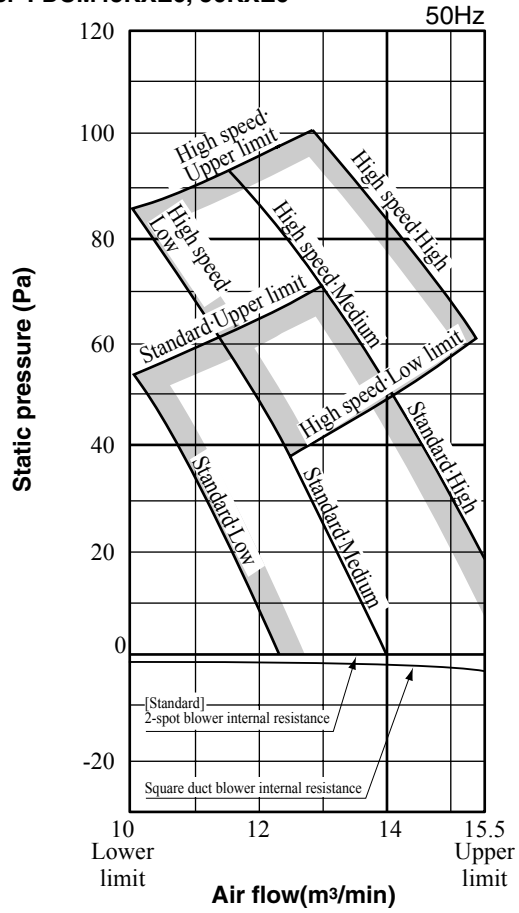
50Hz



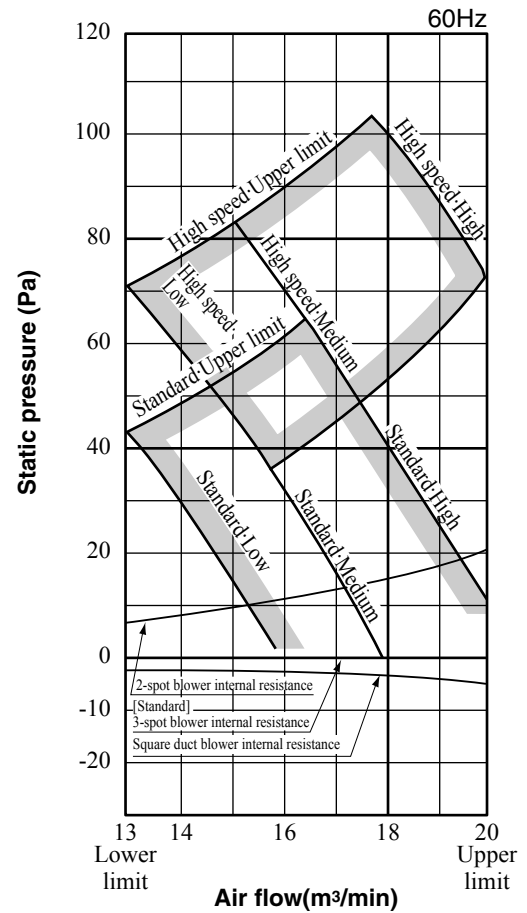
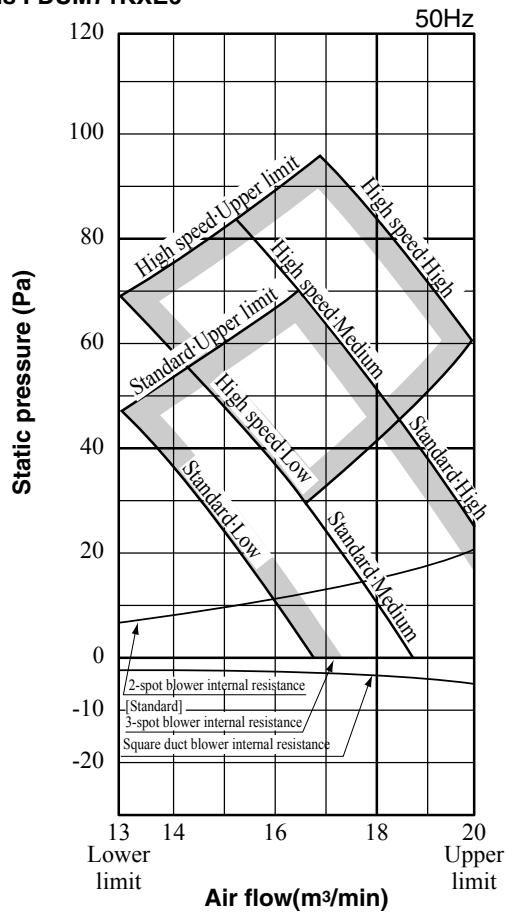
60Hz



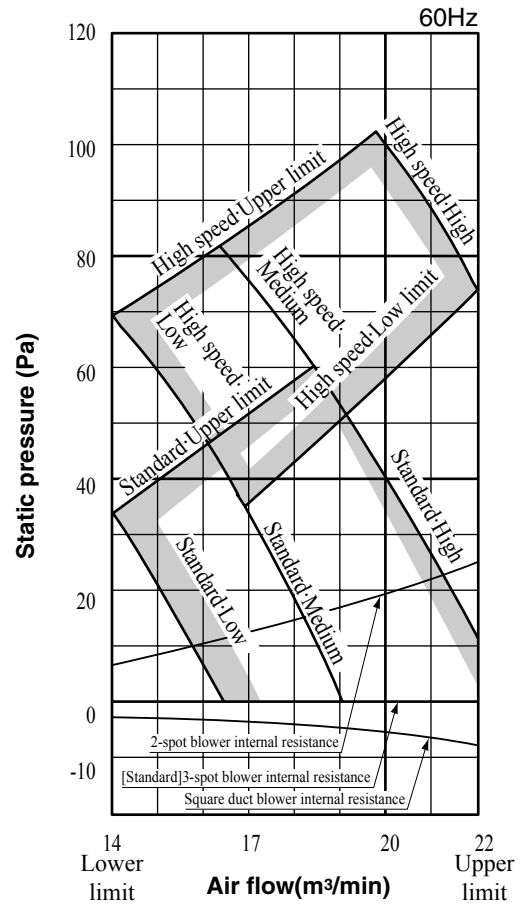
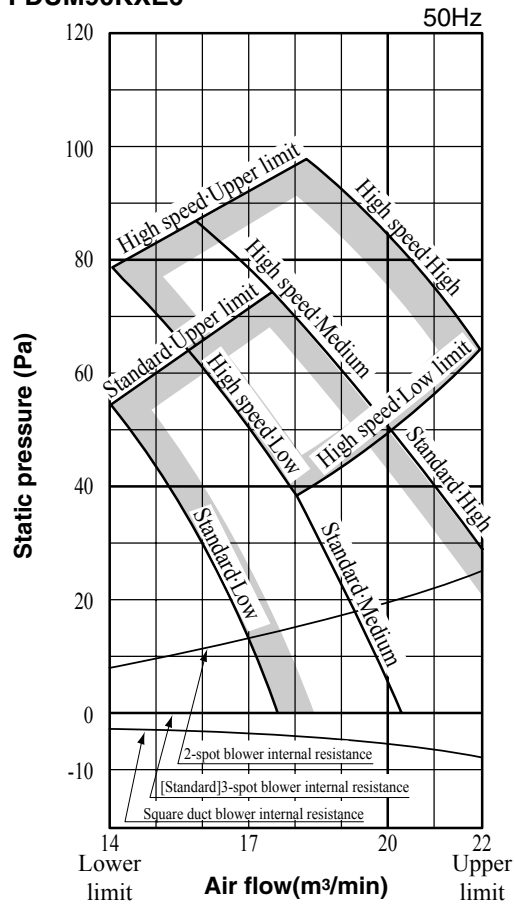
Model FDUM45KXE6, 56KXE6



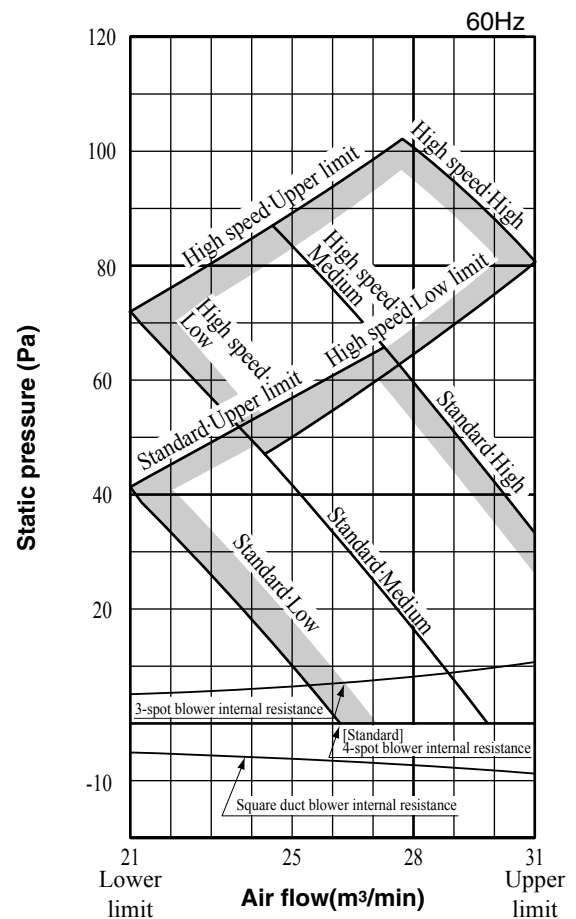
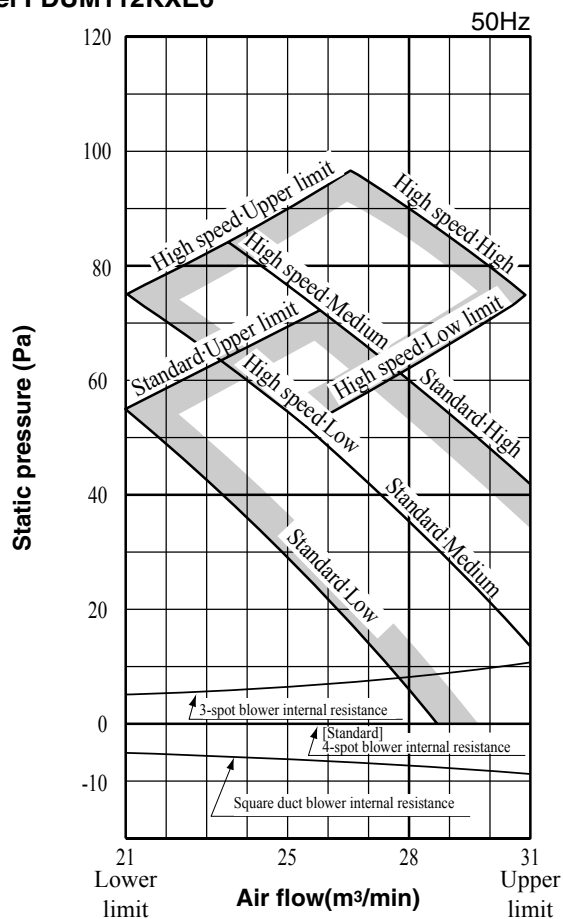
Models FDUM71KXE6



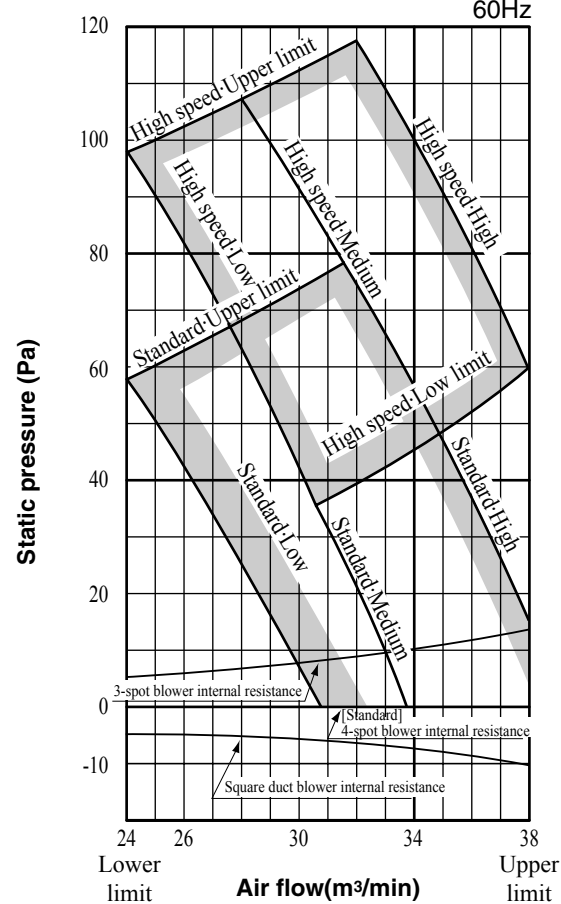
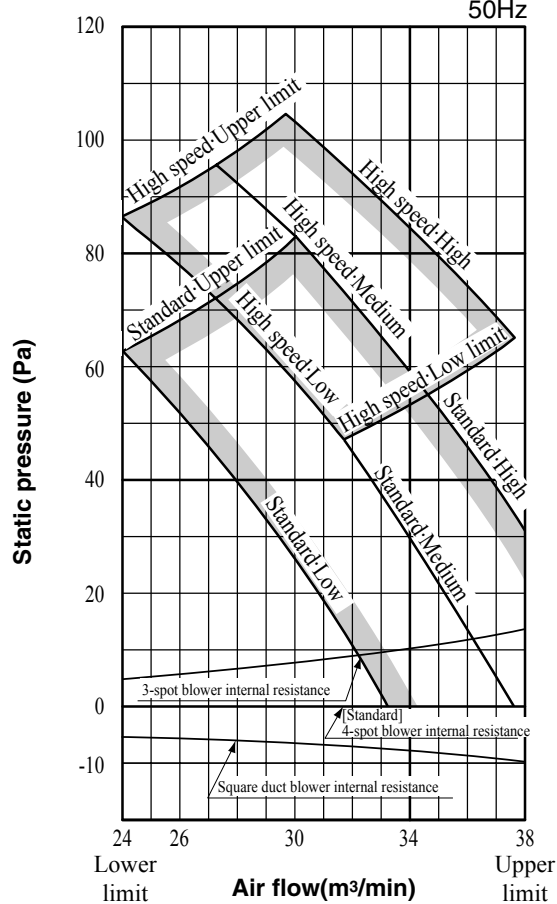
Model FDUM90KXE6



Model FDUM112KXE6

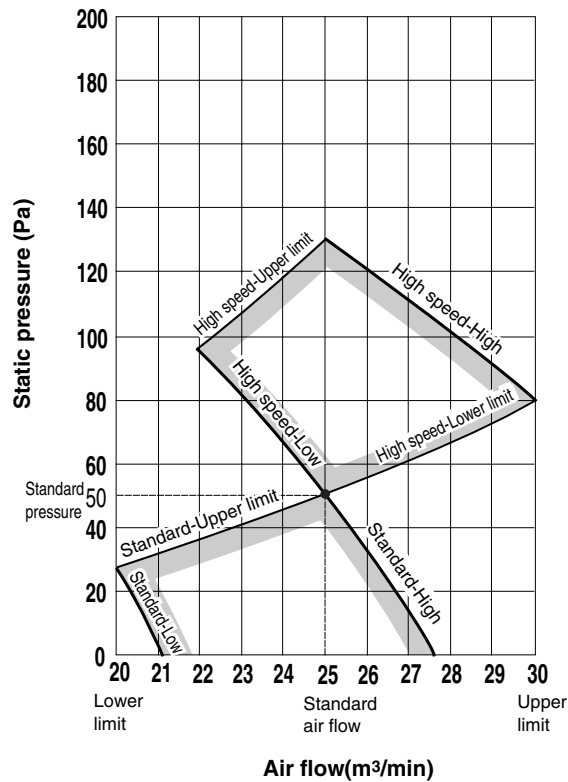


Model FDUM140KXE6

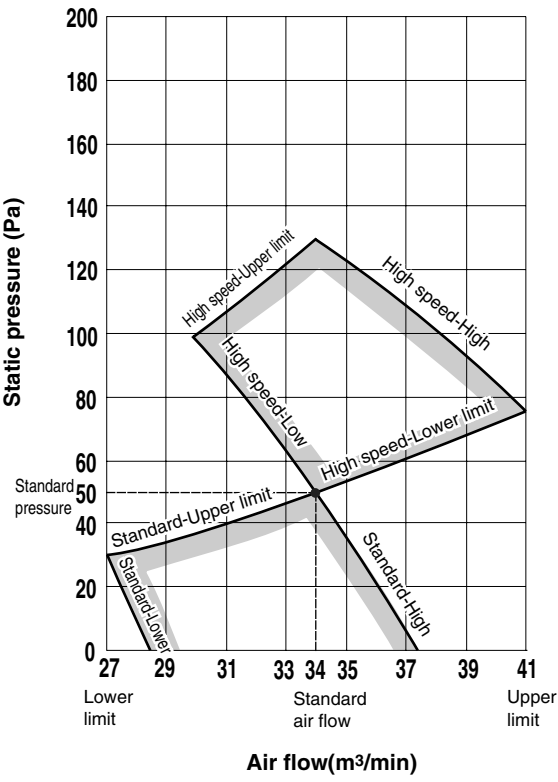


(3) Duct connected-High static pressure type (FDU)

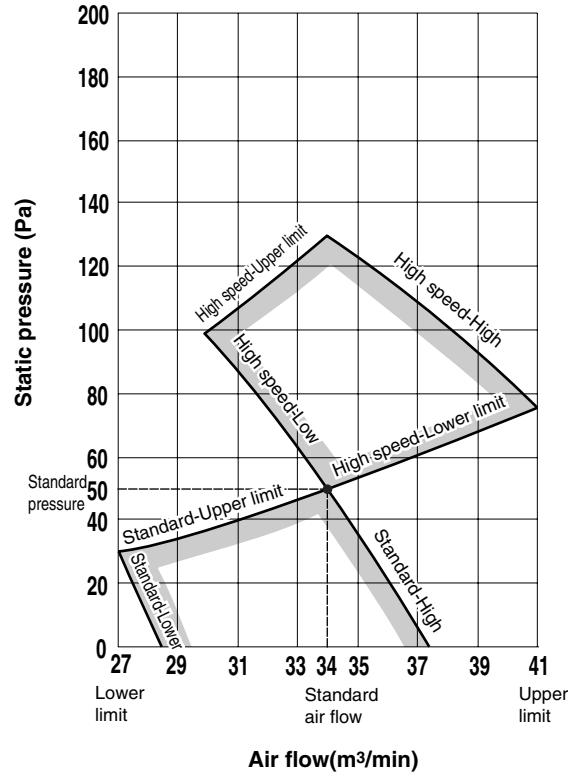
Model FDU71KXE6



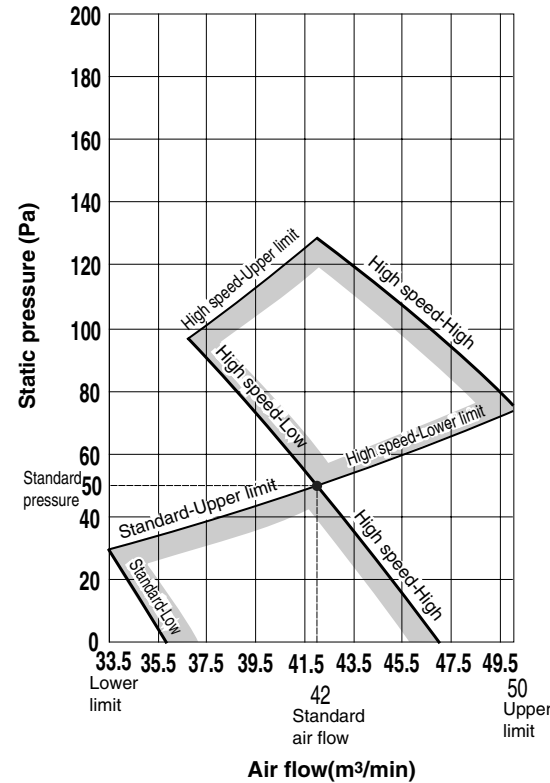
Model FDU90KXE6



Model FDU112KXE6

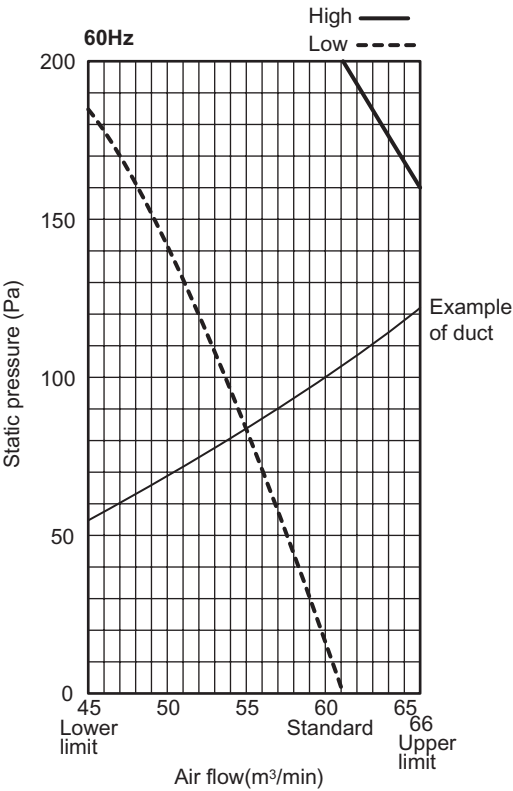
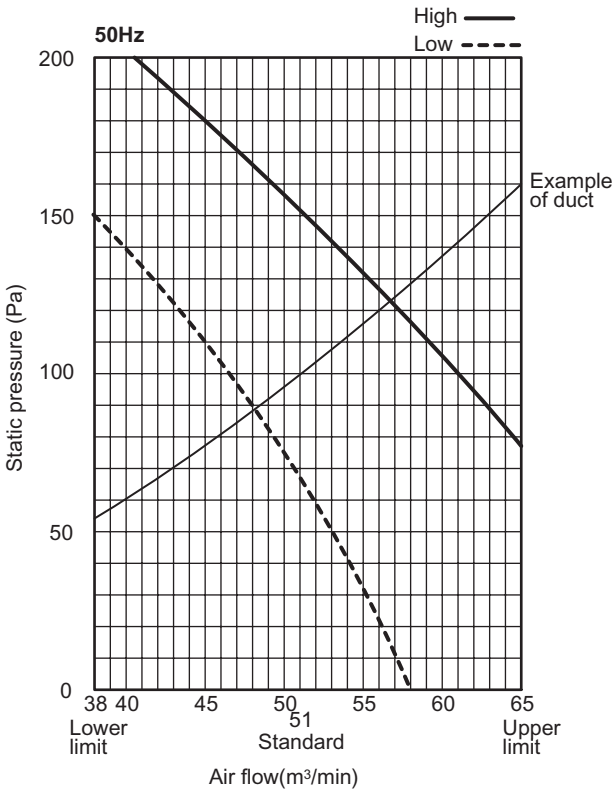


Model FDU140KXE6



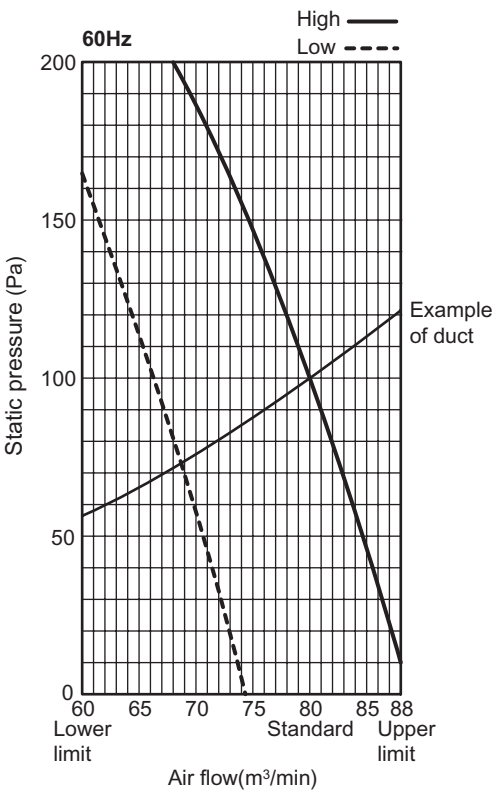
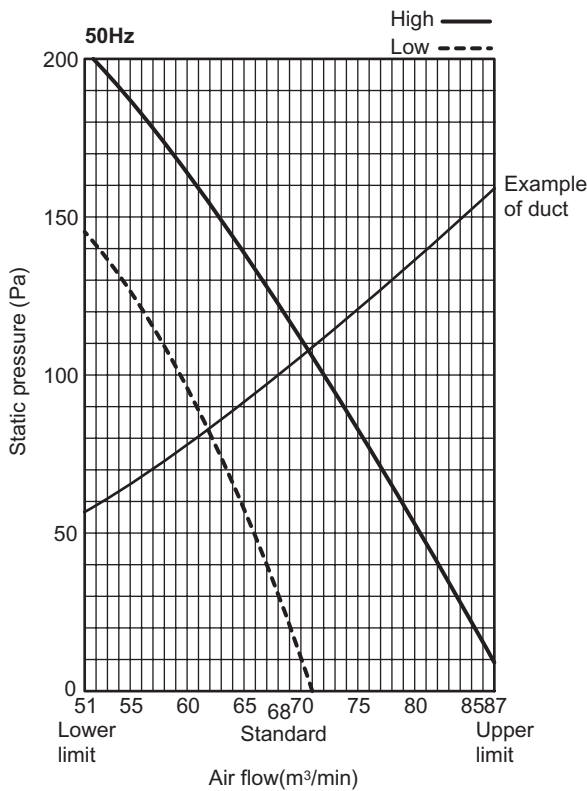
Model FDU224KXE6

■ Standard (Factory Settings)



Model FDU280KXE6

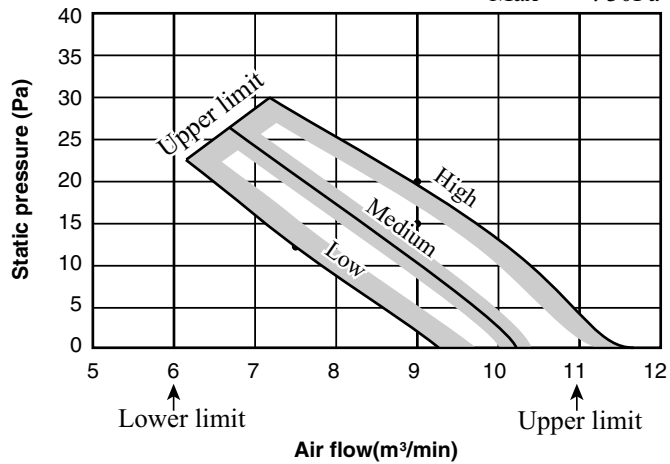
■ Standard (Factory Settings)



(4) Duct connected (Ultra thin)-Low static pressure type (FDQS)

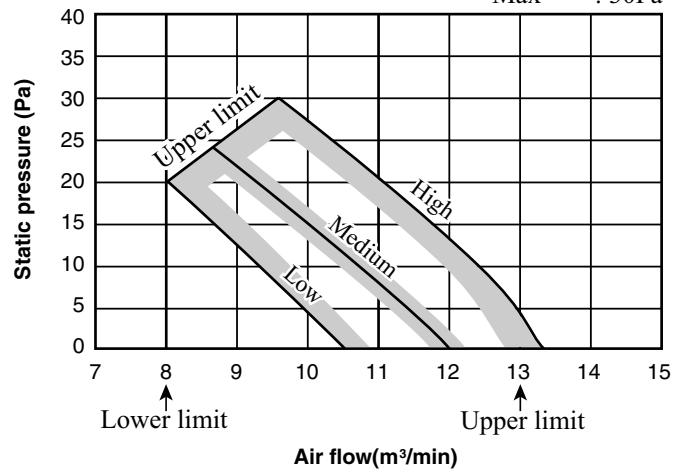
Models FDQS22, 28, 36KXE6

Static pressure
Standard : 15Pa
Max : 30Pa



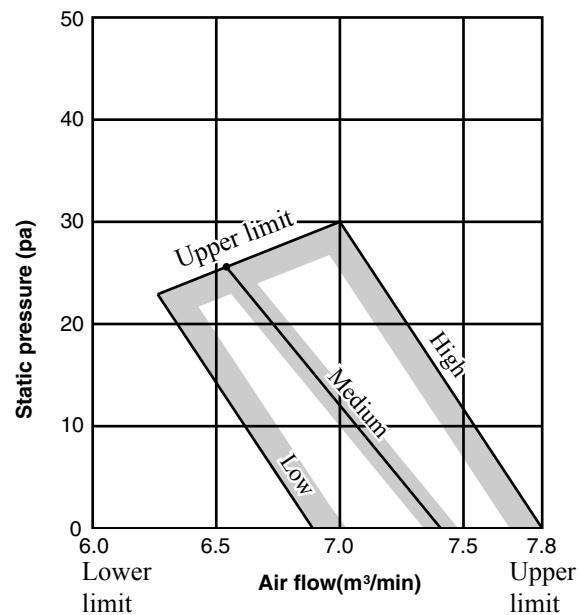
Models FDQS45, 56KXE6

Static pressure
Standard : 15Pa
Max : 30Pa



(5) Duct connected-Compact and Flexible type (FDUH)

Models FDUH22, 28, 36KXE6



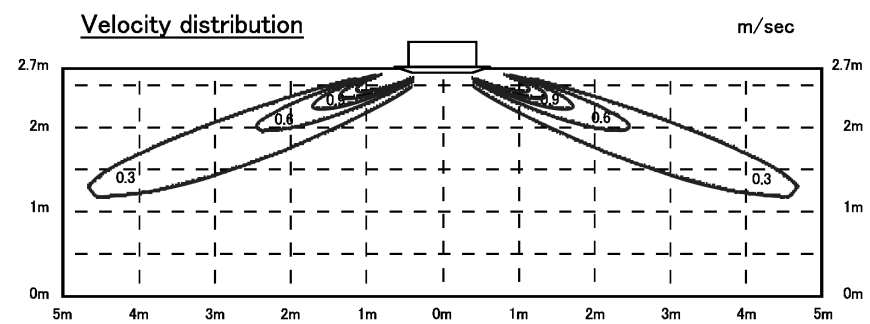
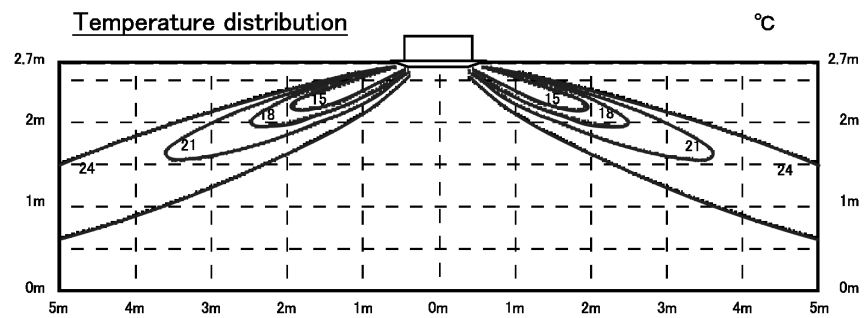
3.6 Temperature and velocity distribution

(a) Ceiling cassett-4 way type (FDT)

Models FDT28, 36, 45, 56, 71KXE6A

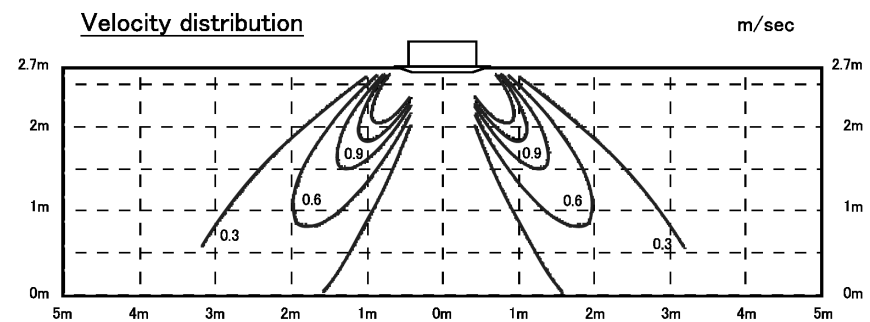
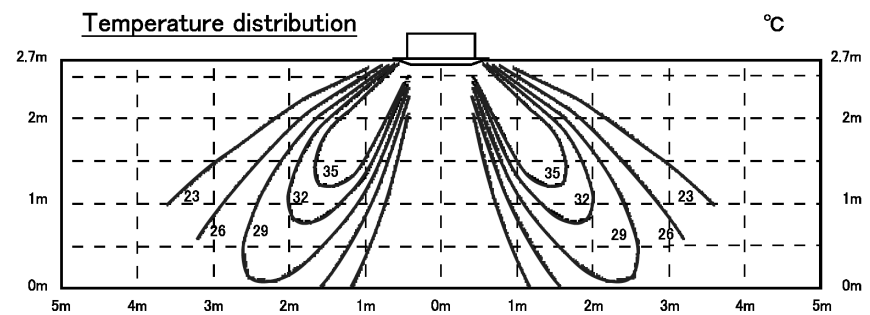
Cooling Air flow Hi

Louver position



Heating Air flow Hi

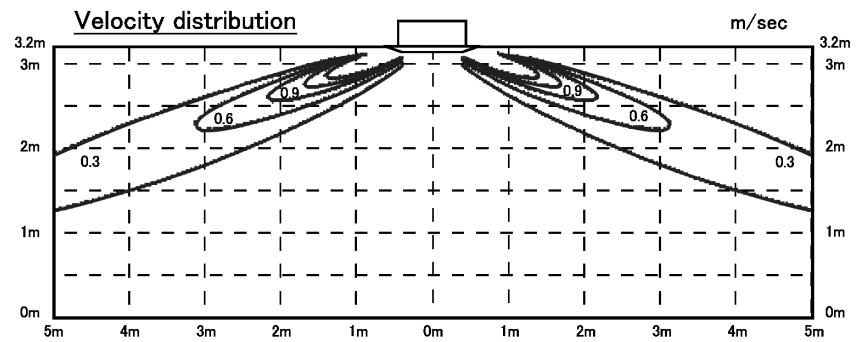
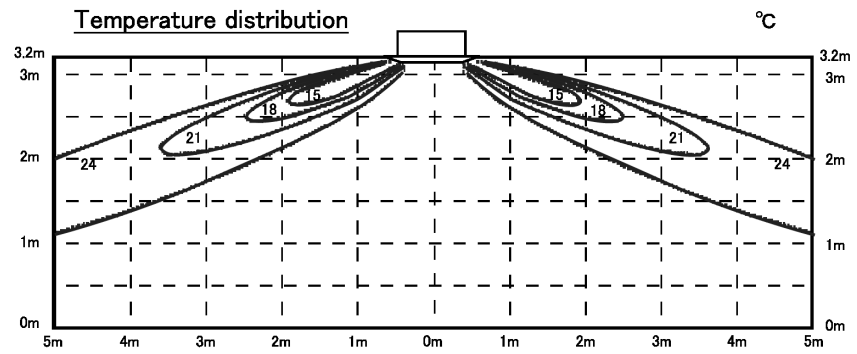
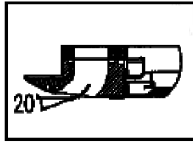
Louver position



Models FDT90, 112KXE6A

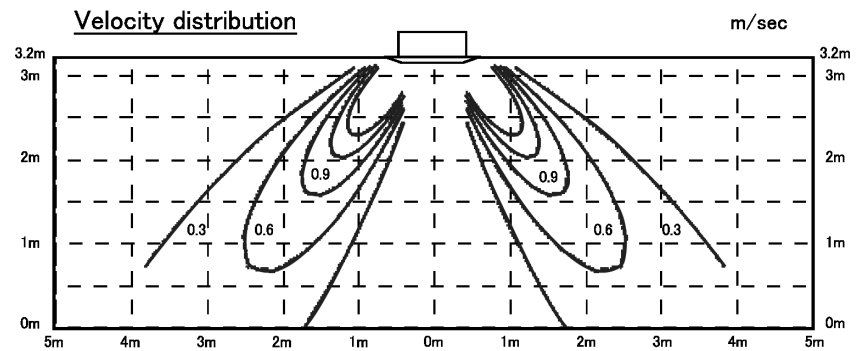
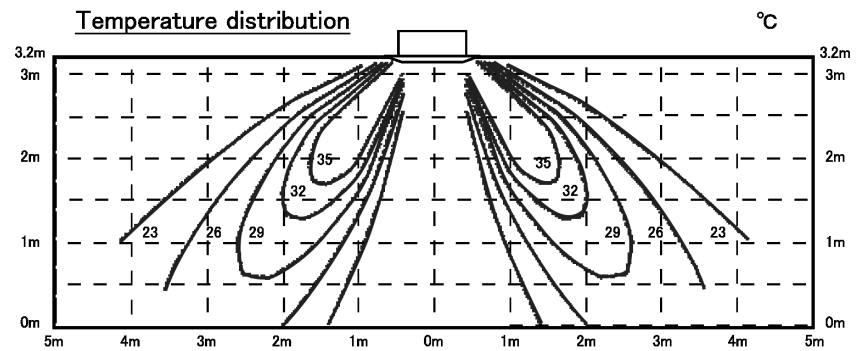
Cooling Air flow Hi

Louver position



Heating Air flow Hi

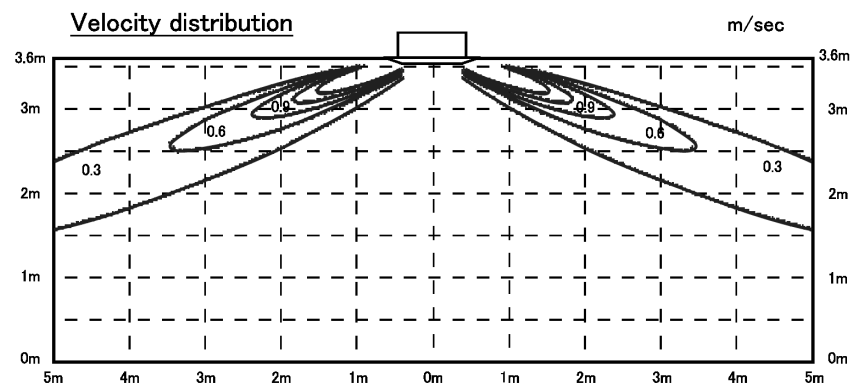
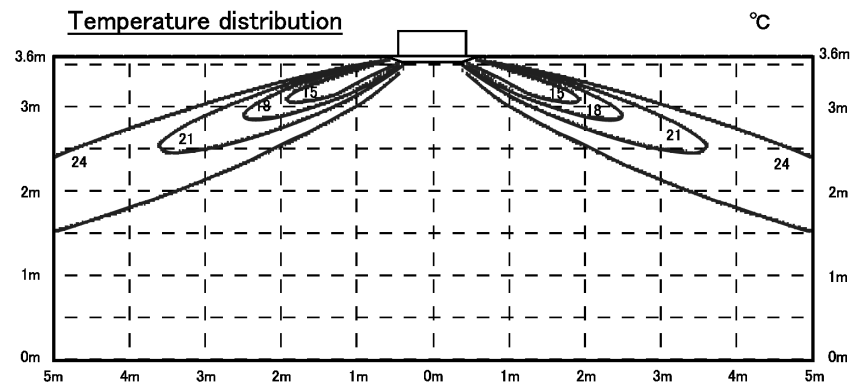
Louver position



Models FDT140, 160KXE6A

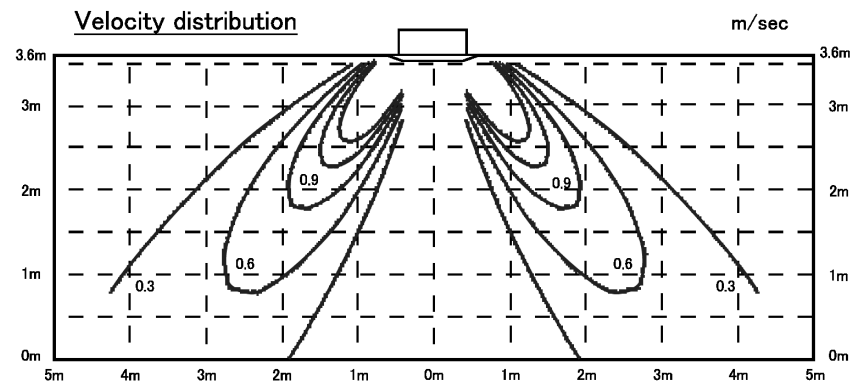
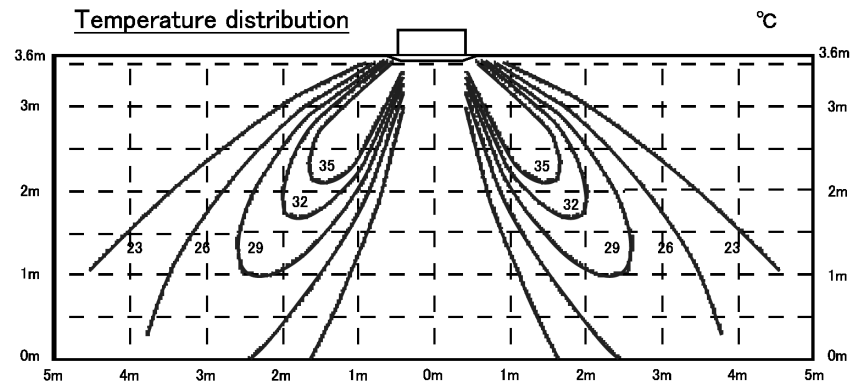
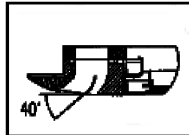
Cooling Air flow Hi

Louver position



Heating Air flow Hi

Louver position

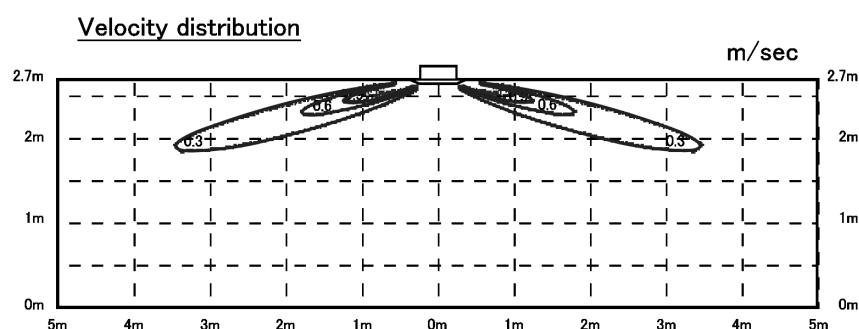
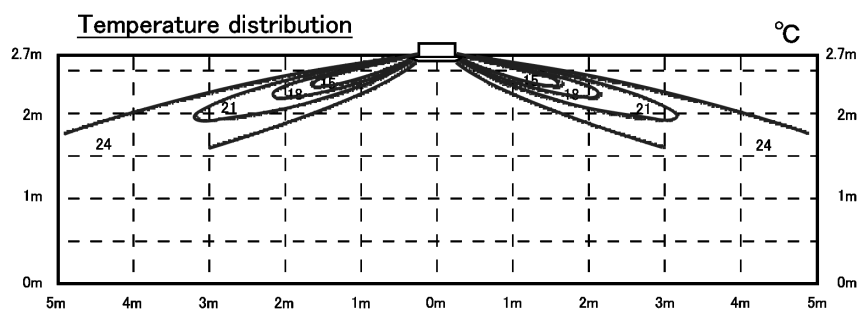
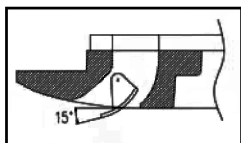


(b) Ceiling cassette-4 way-compact type (FDTC)

Models FDTC22, 28KXE6B

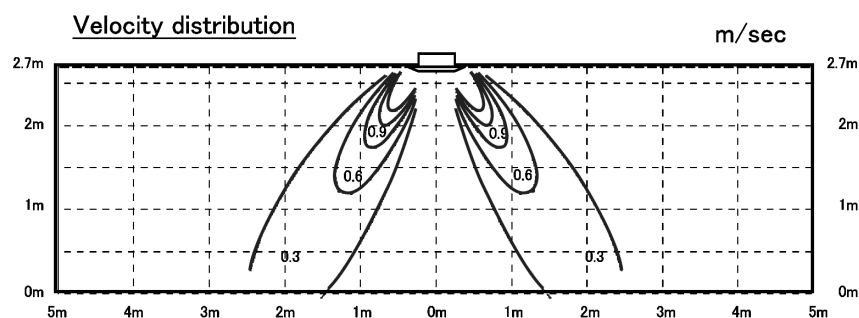
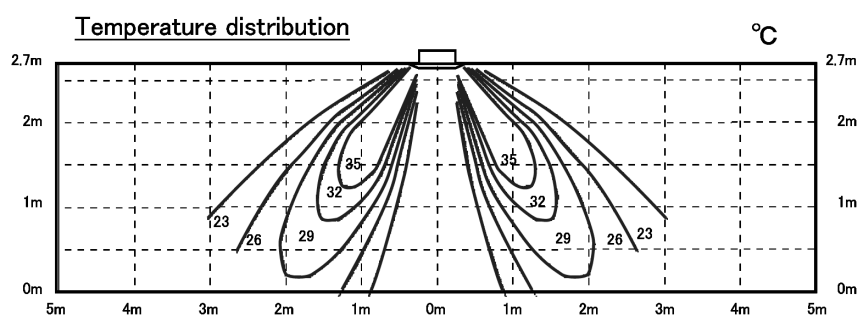
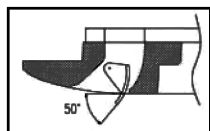
Cooling Air flow Hi

Louver position



Heating Air flow Hi

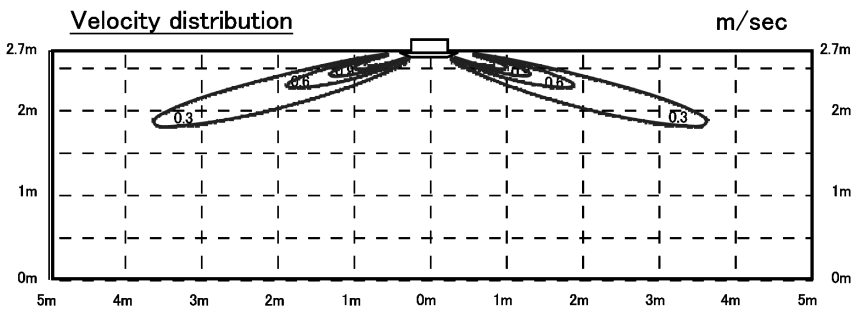
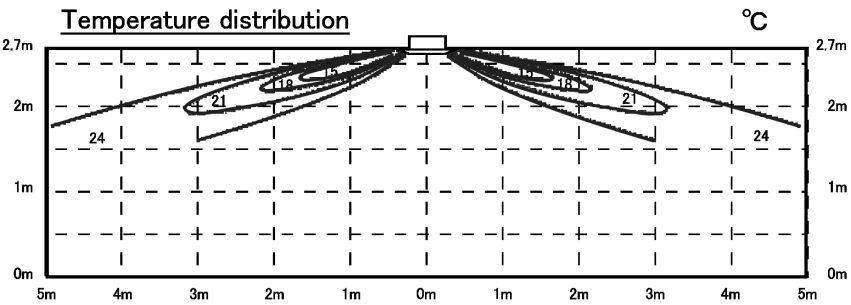
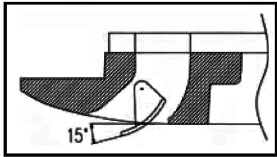
Louver position



Model FDTC36KXE6B

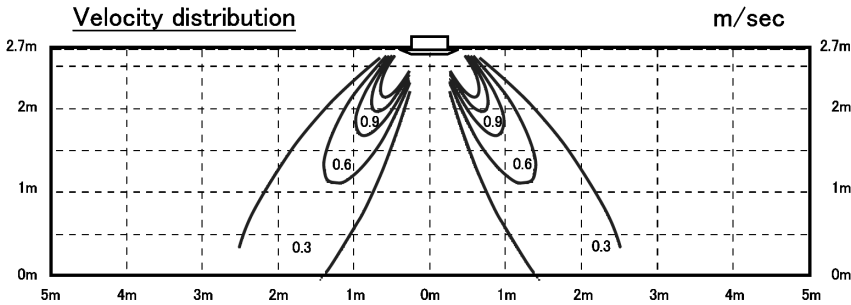
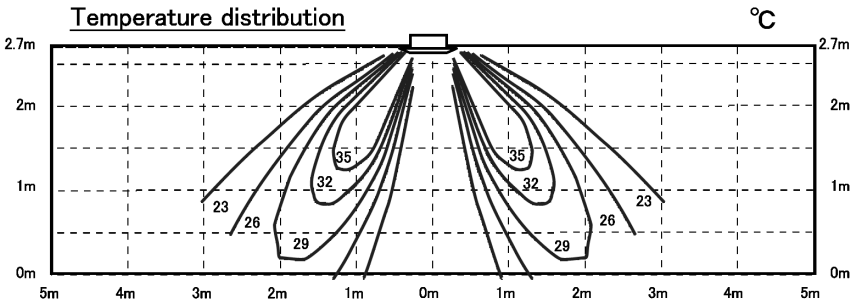
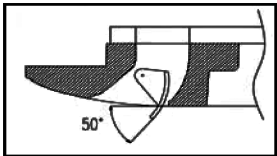
Cooling Air flow Hi

Louver position



Heating Air flow Hi

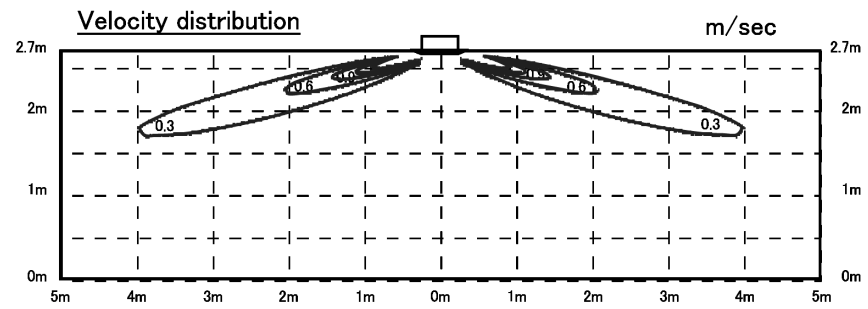
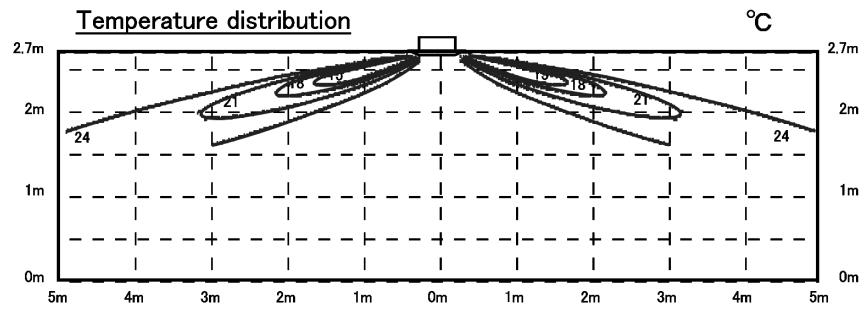
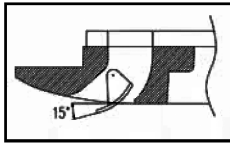
Louver position



Model FDTC45KXE6B

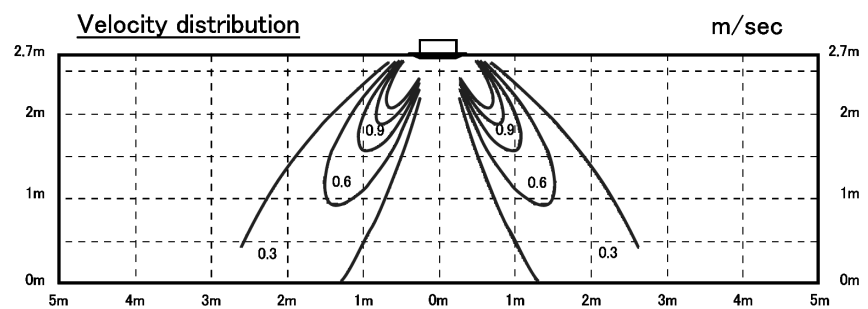
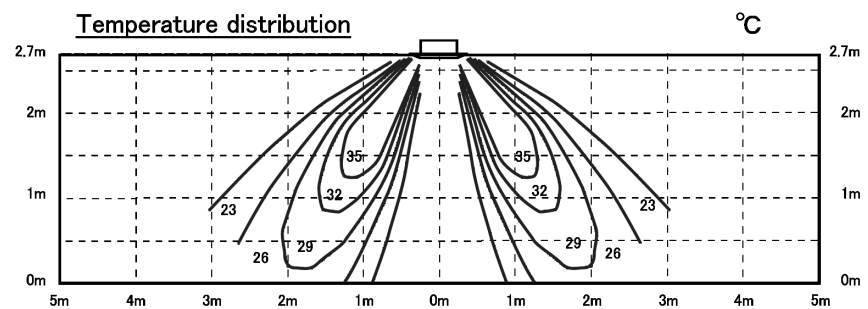
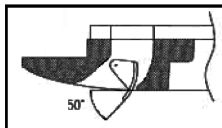
Cooling Air flow Hi

Louver position



Heating Air flow Hi

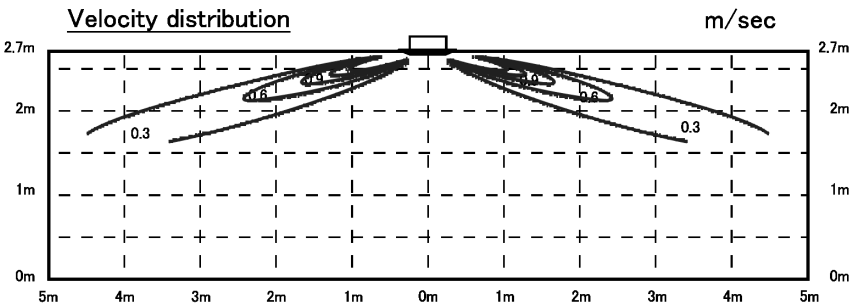
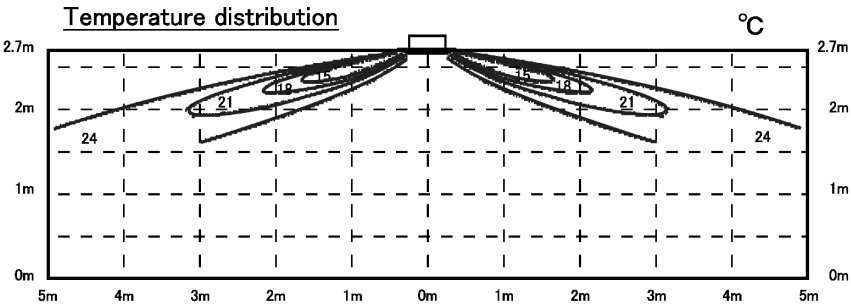
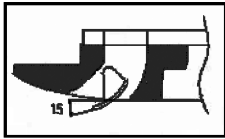
Louver position



Model FDTCS6KXE6B

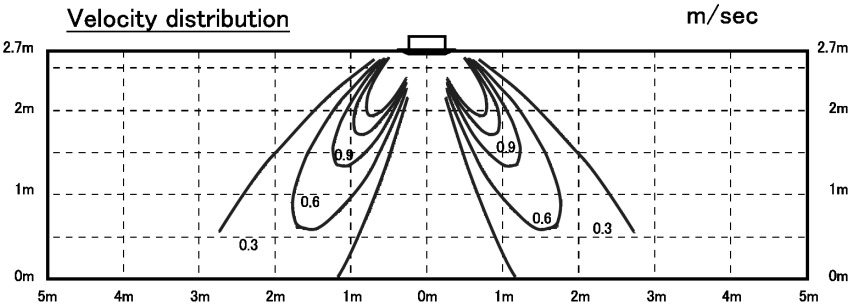
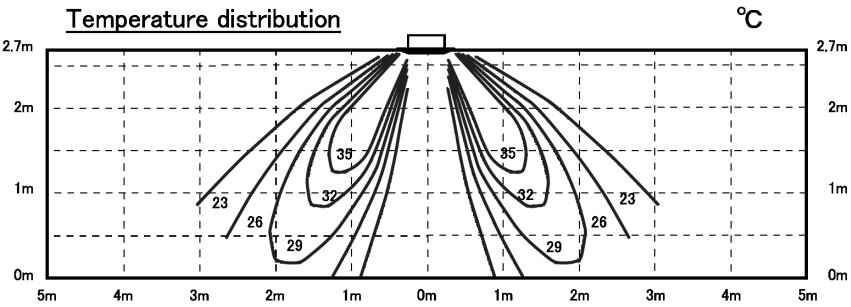
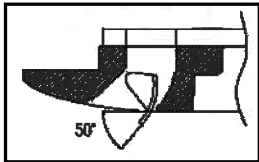
Cooling Air flow Hi

Louver position



Heating Air flow Hi

Louver position

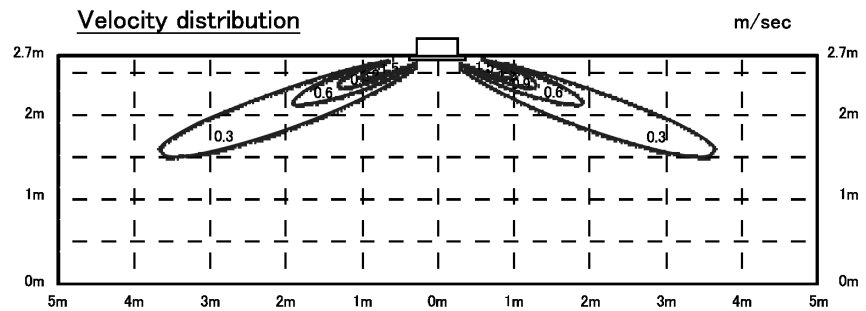
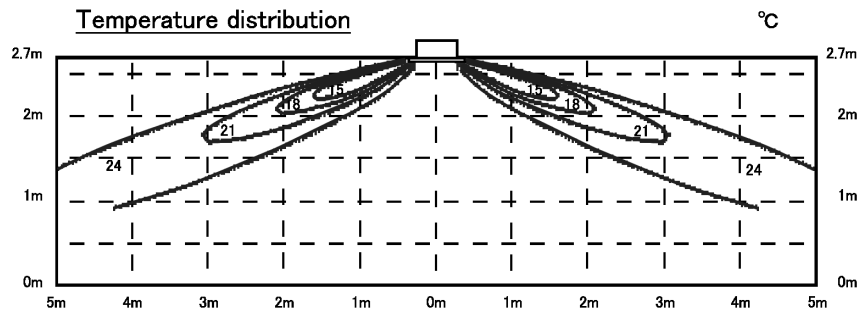
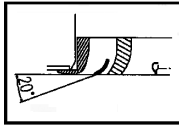


(c) Ceiling cassette-2 way type (FDTW)

Models FDTW28, 45, 56KXE6

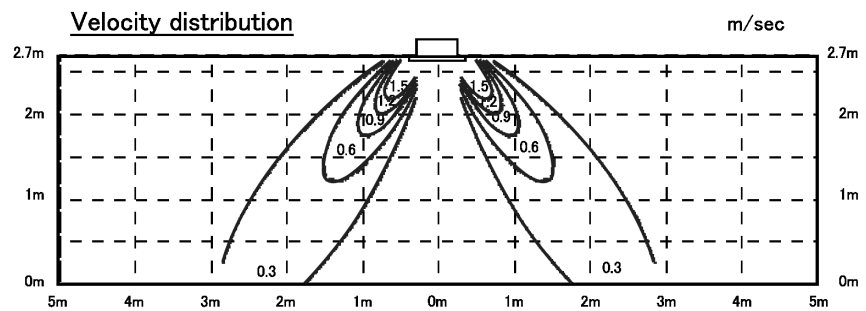
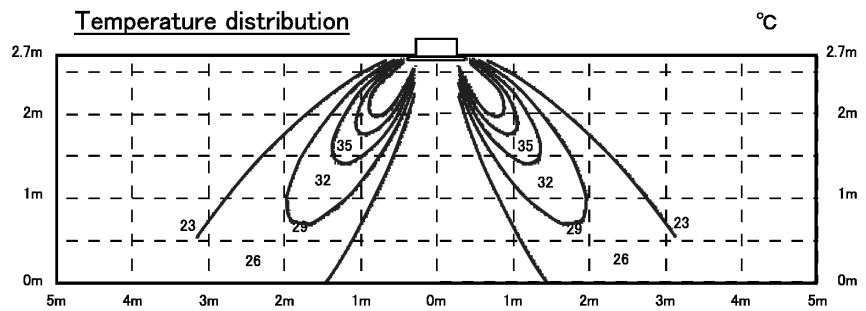
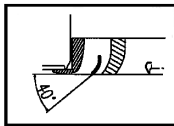
Cooling Air flow Hi

Louver position



Heating Air flow Hi

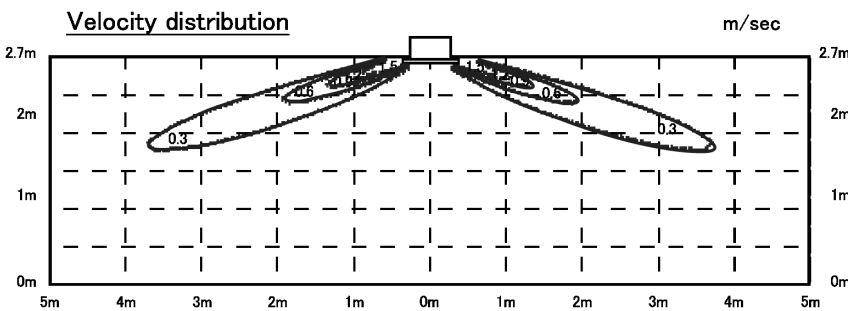
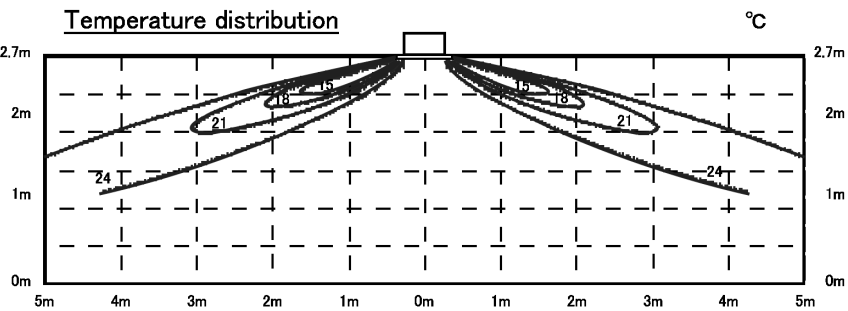
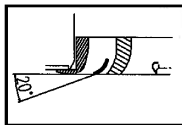
Louver position



Model FDTW71KXE6

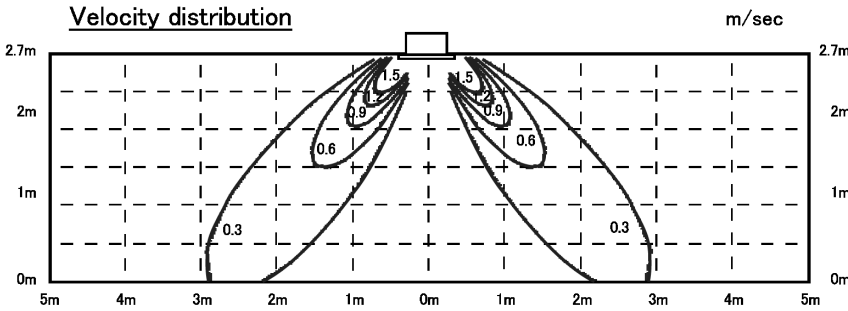
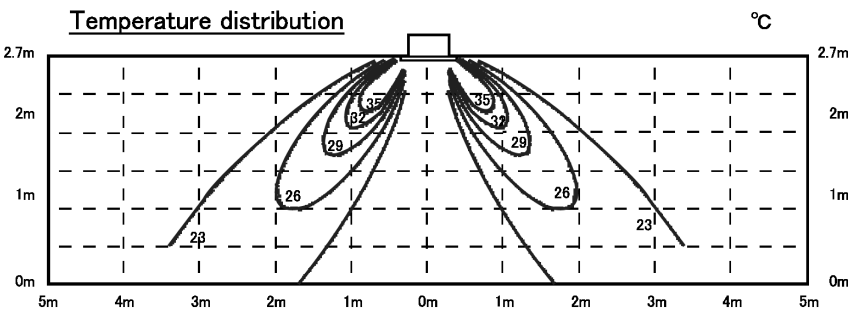
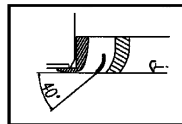
Cooling Air flow Hi

Louver position



Heating Air flow Hi

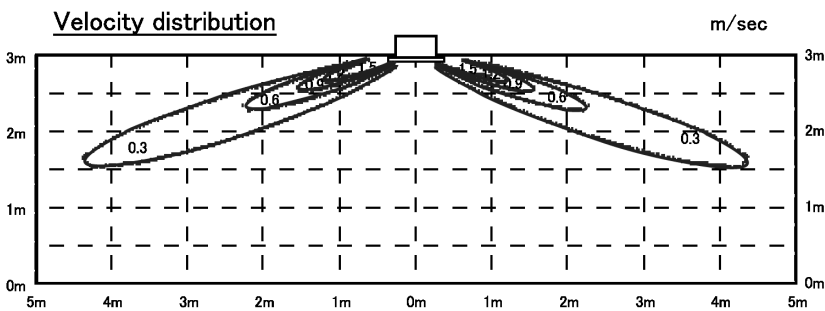
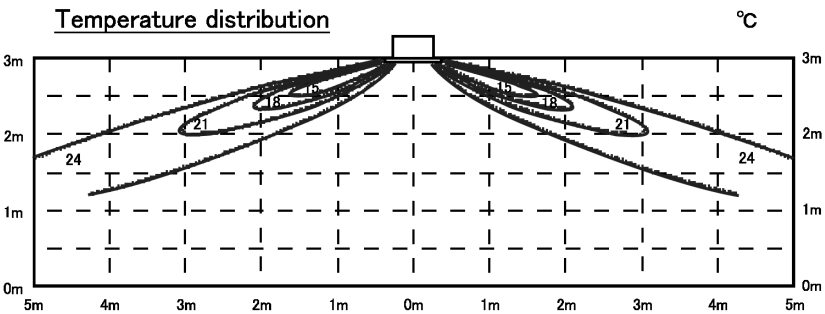
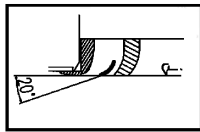
Louver position



Model FDTW90KXE6

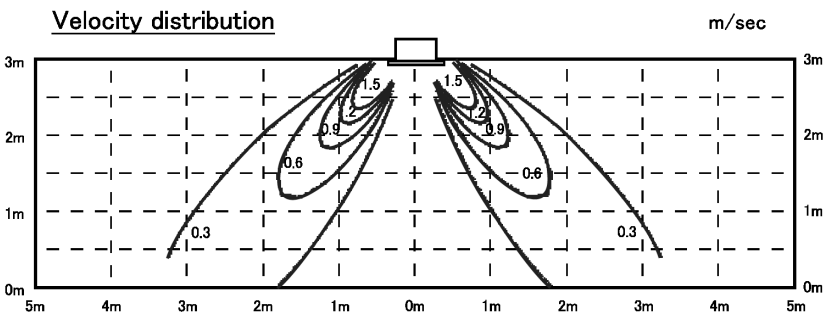
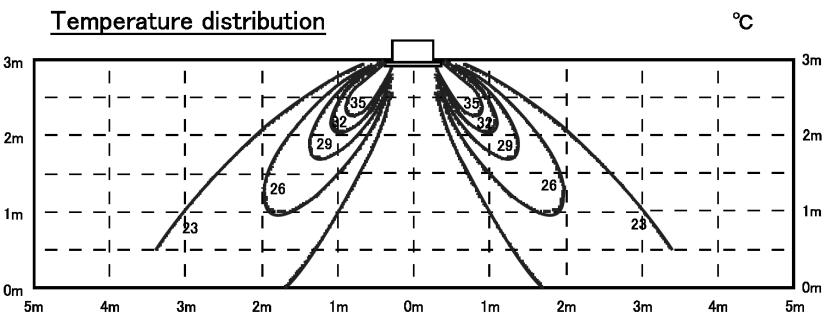
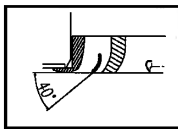
Cooling Air flow Hi

Louver position



Heating Air flow Hi

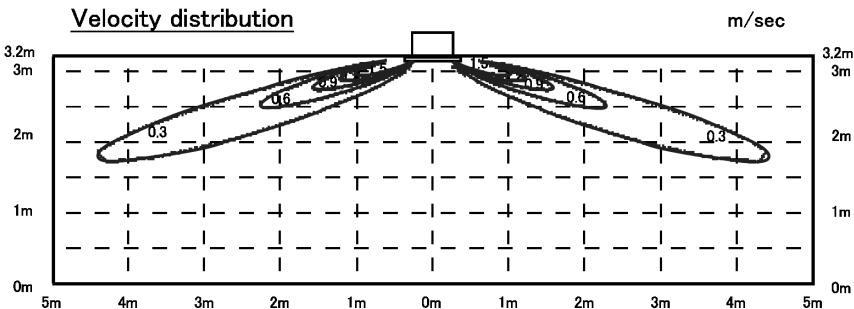
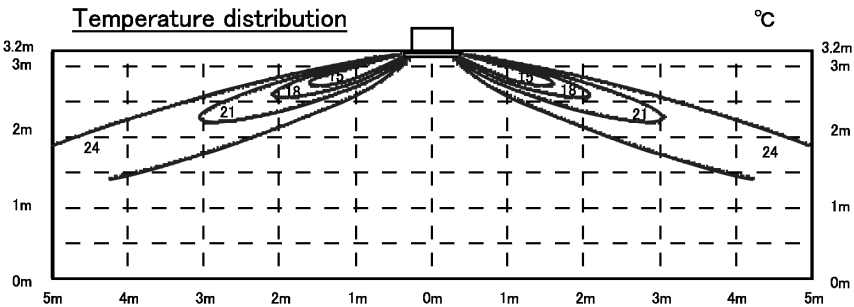
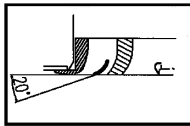
Louver position



Model FDTW112KXE6

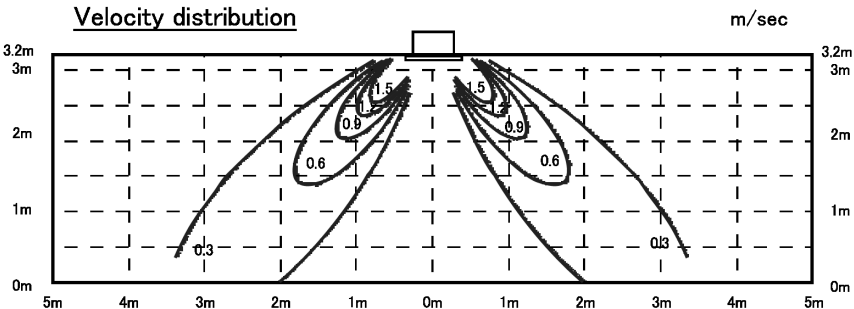
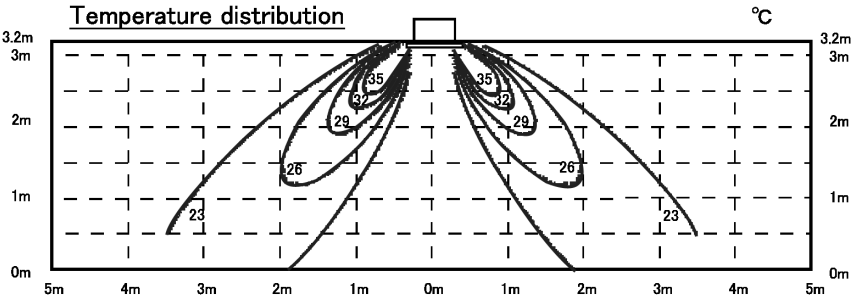
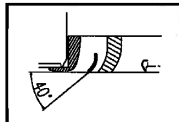
Cooling Air flow Hi

Louver position



Heating Air flow Hi

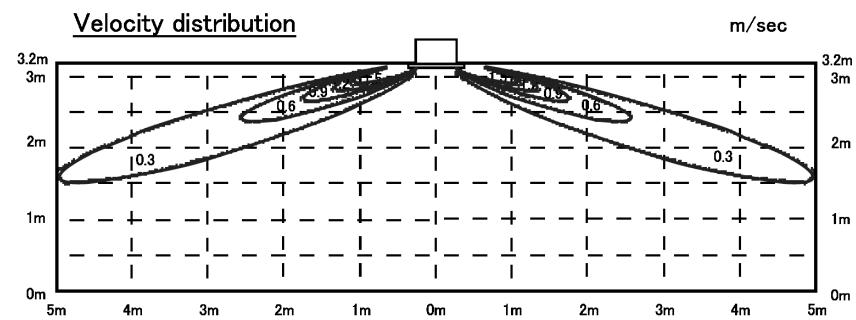
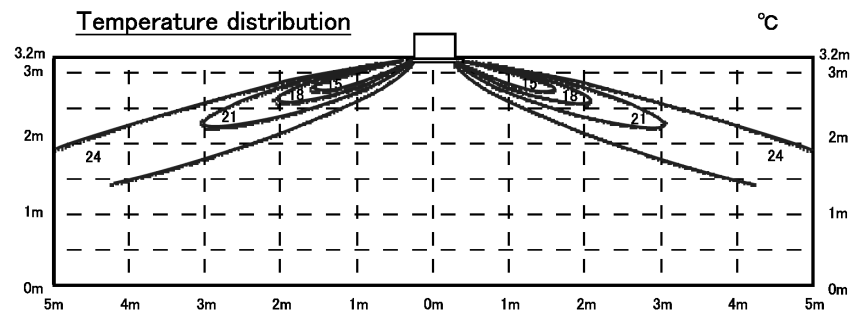
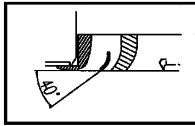
Louver position



Model FDTW140KXE6

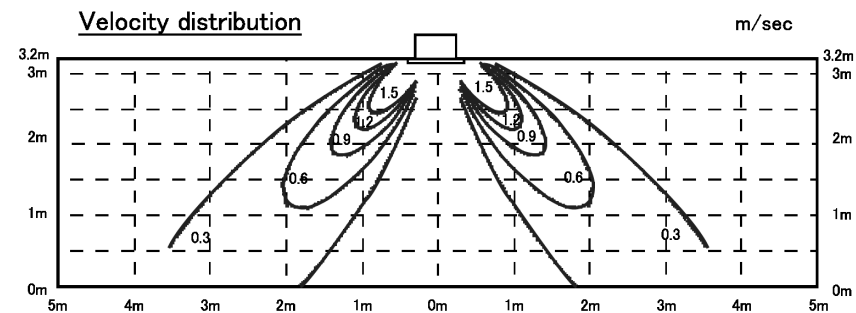
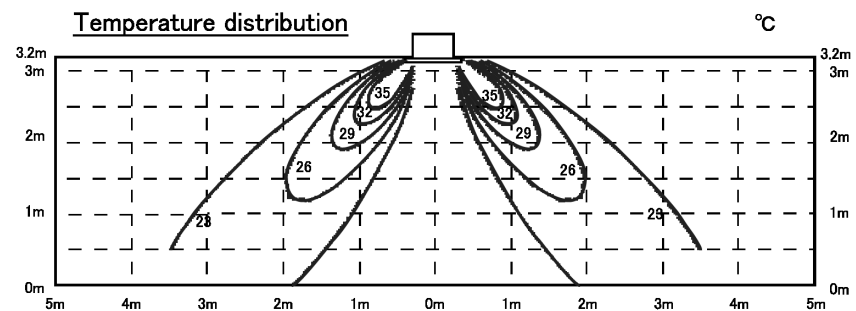
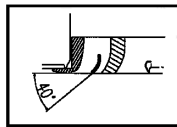
Cooling Air flow Hi

Louver position



Heating Air flow Hi

Louver position

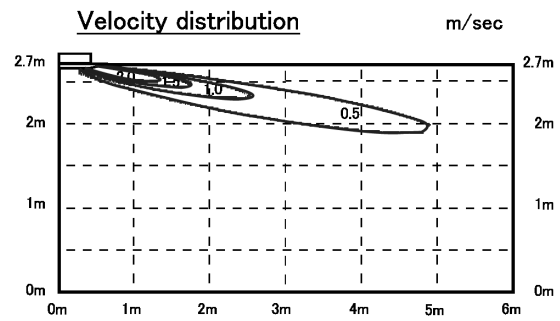
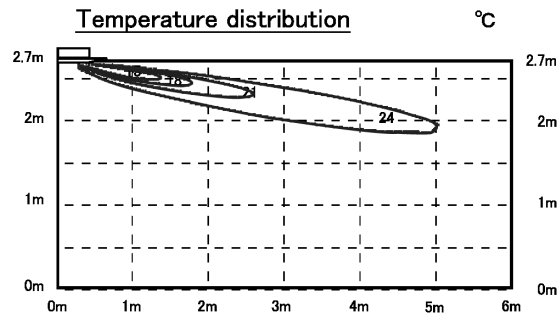
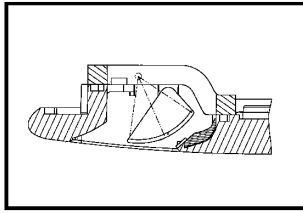


(d) Ceiling cassette-1 way compact type (FDTQ)

Models FDTQ22, 28, 36KXE6

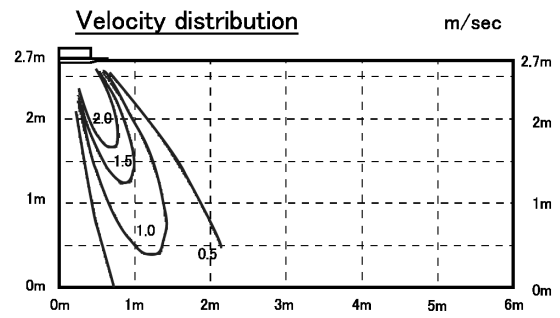
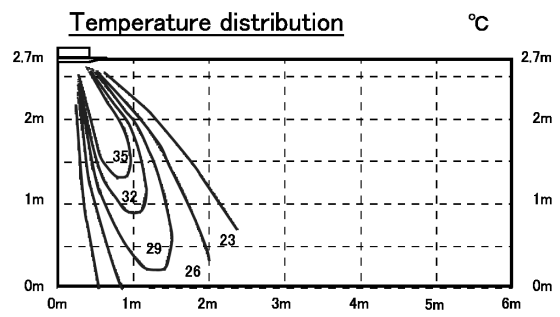
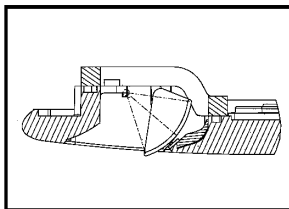
Cooling Air flow Hi

Louver position



Heating Air flow Hi

Louver position

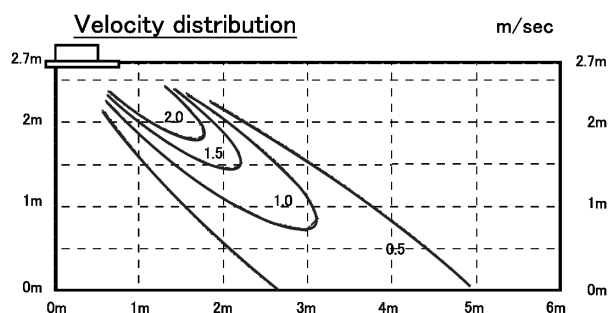
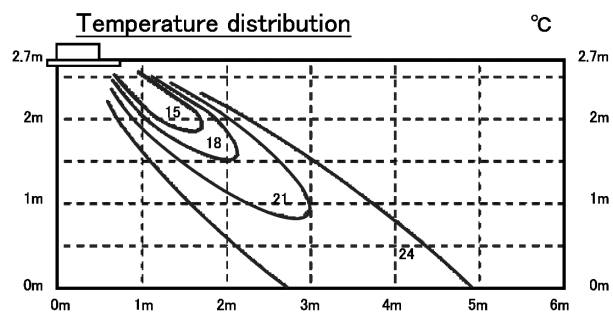
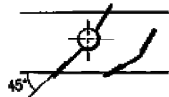


(e) Ceiling cassette-1 way type (FDTS)

Model FDTS45KXE6

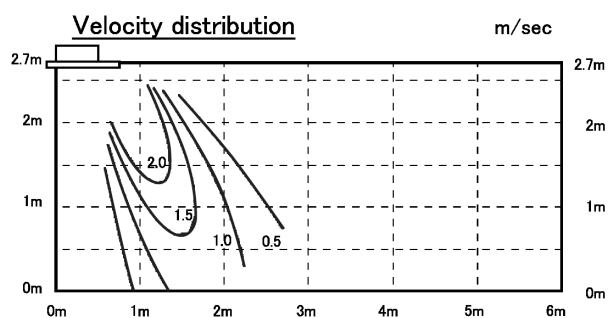
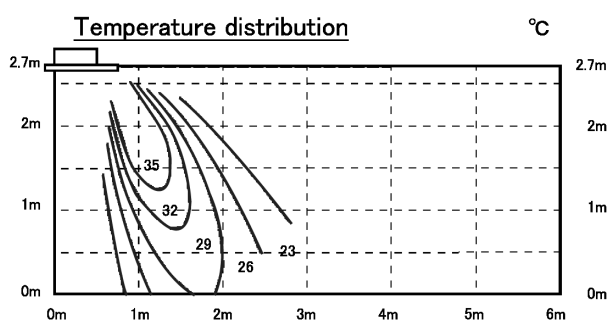
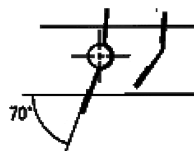
Cooling Air flow Hi

Louver position



Heating Air flow Hi

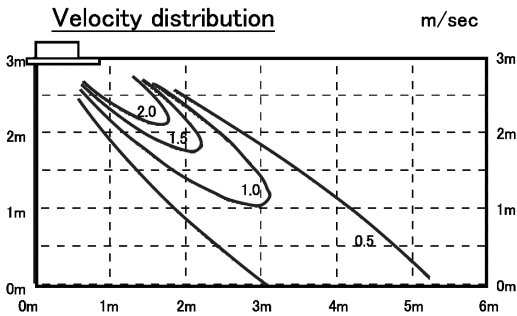
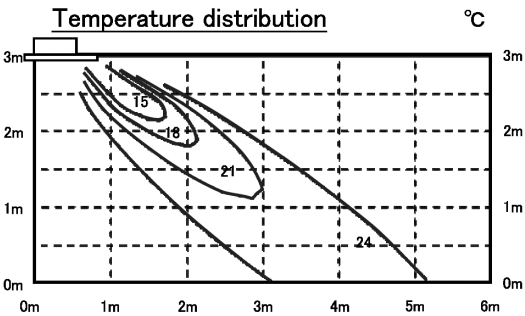
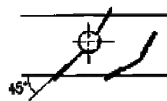
Louver position



Model FDTS71KXE6

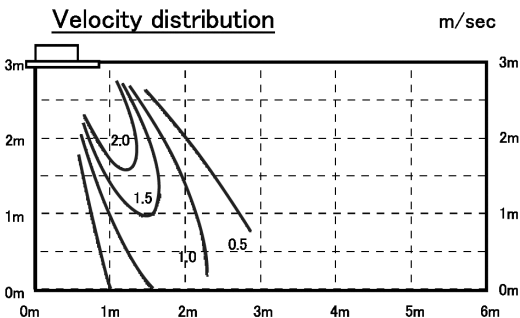
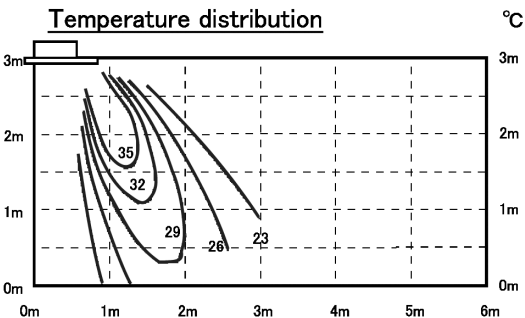
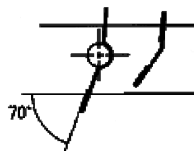
Cooling Air flow Hi

Louver position



Heating Air flow Hi

Louver position

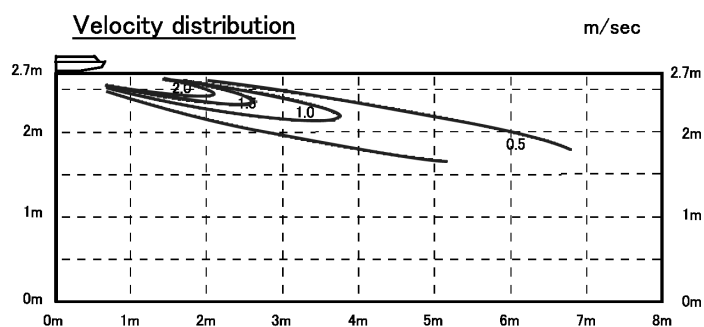
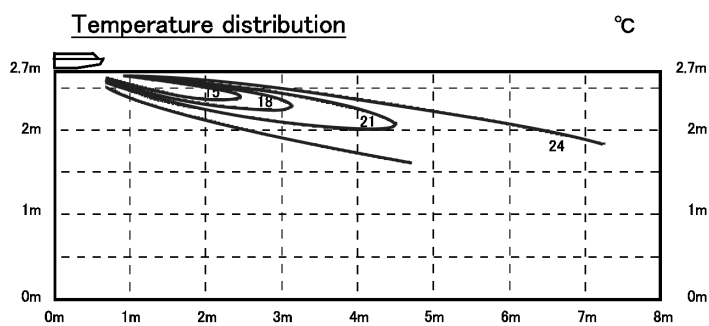
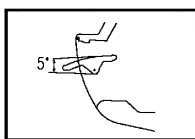


(f) Ceiling Suspended type (FDE)

Models FDE36, 45, 56KXE6A

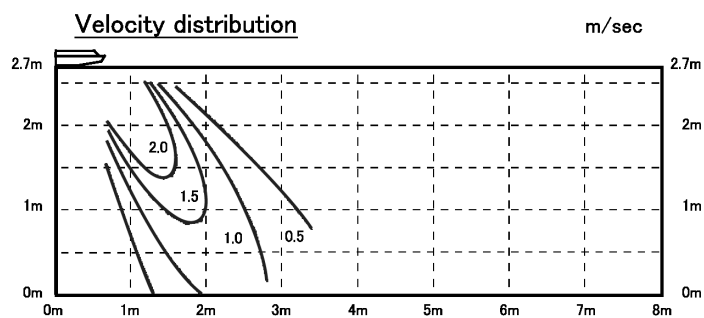
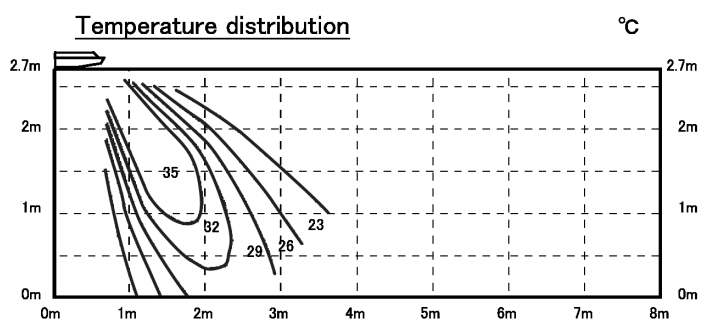
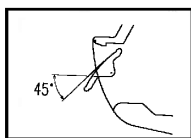
Cooling Air flow Hi

Louver position



Heating Air flow Hi

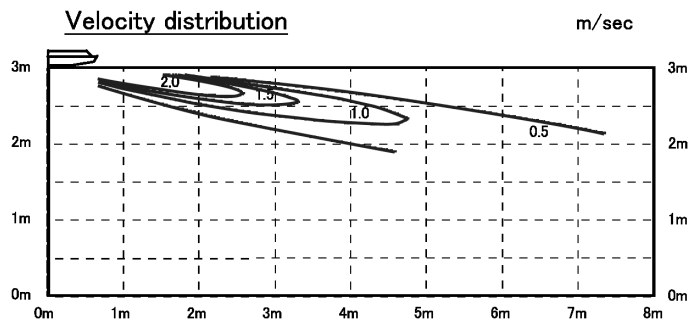
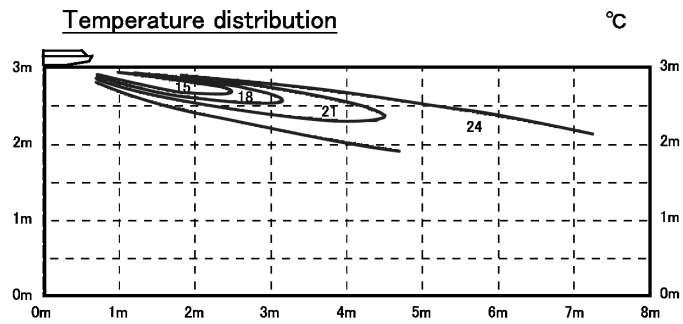
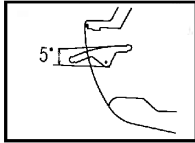
Louver position



Model FDE71KXE6A

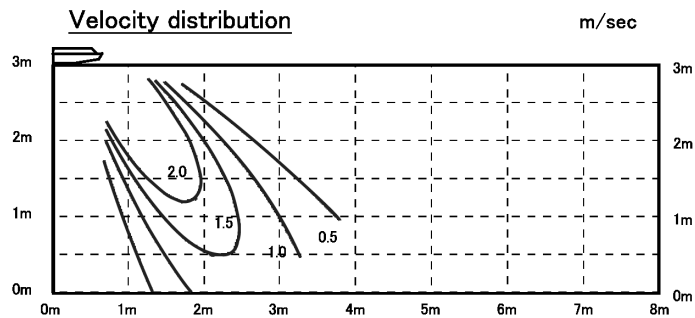
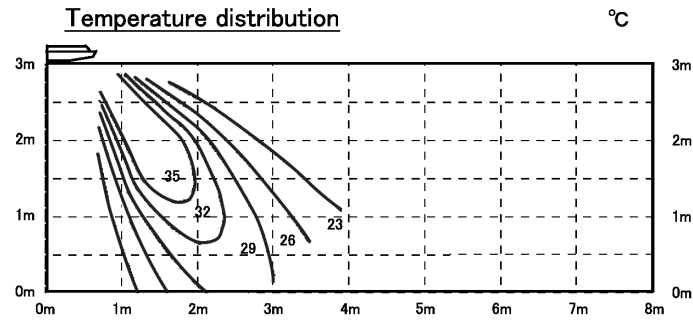
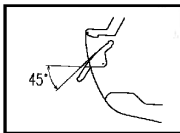
Cooling Air flow Hi

Louver position



Heating Air flow Hi

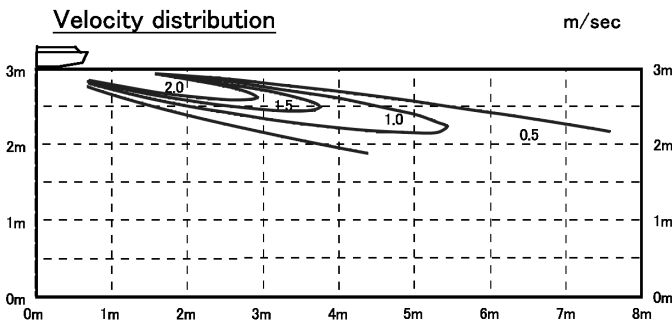
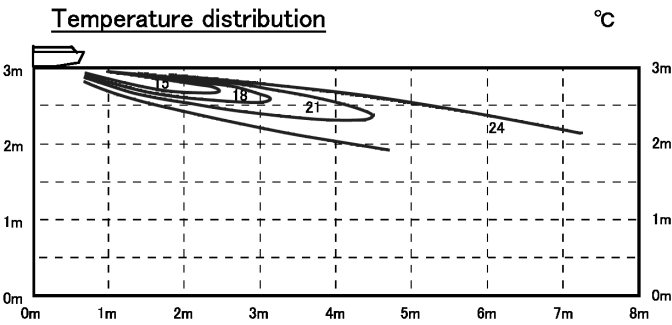
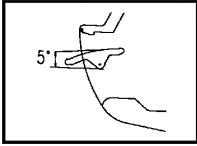
Louver position



Model FDE112KXE6A

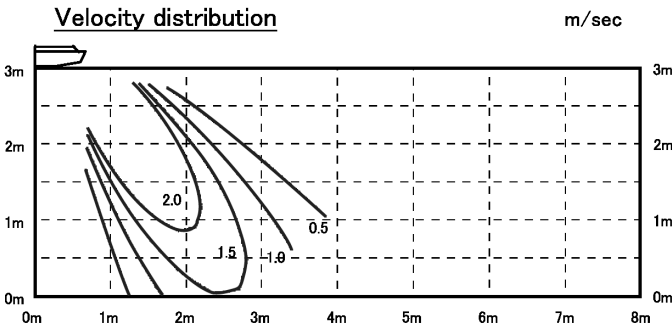
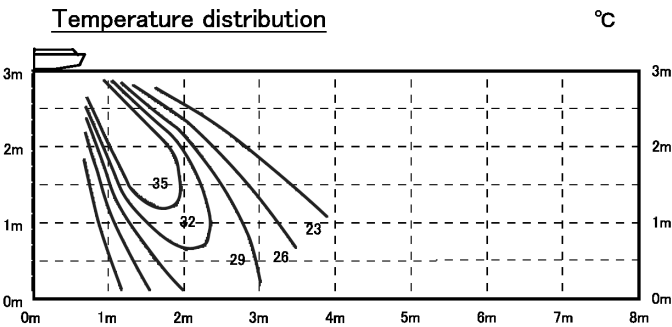
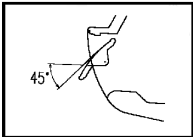
Cooling Air flow Hi

Louver position



Heating Air flow Hi

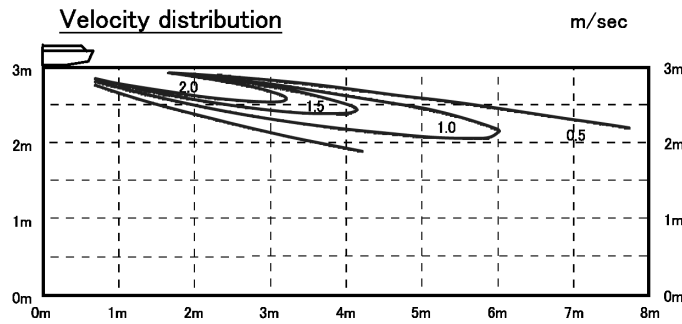
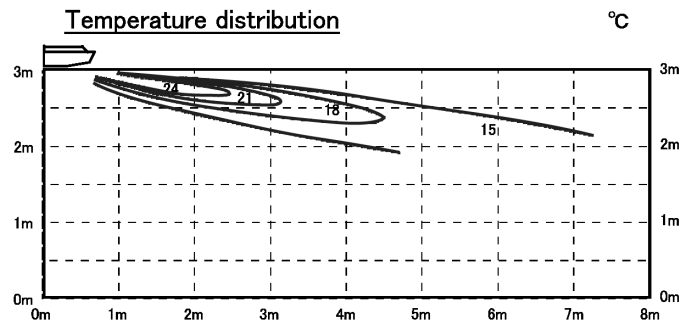
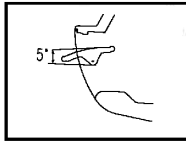
Louver position



Model FDE140KXE6A

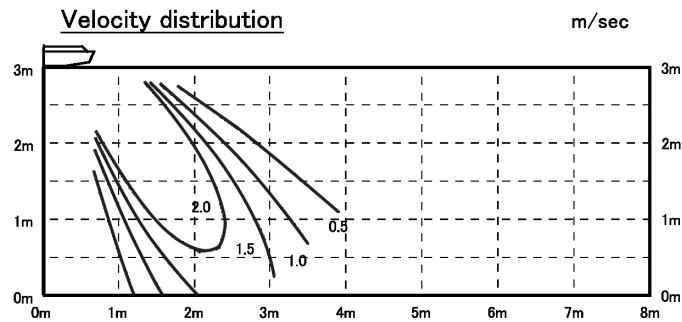
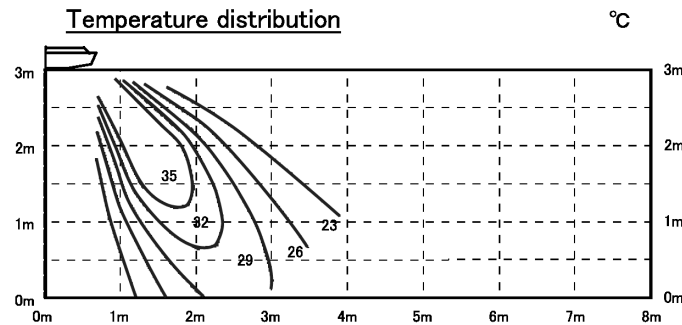
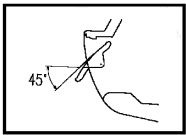
Cooling Air flow Hi

Louver position



Heating Air flow Hi

Louver position

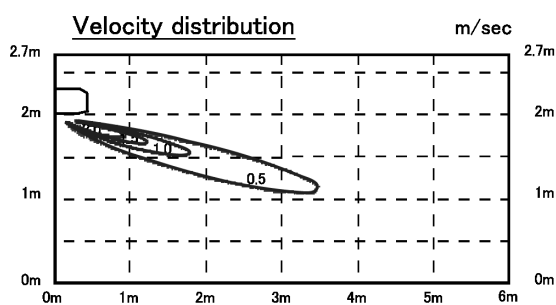
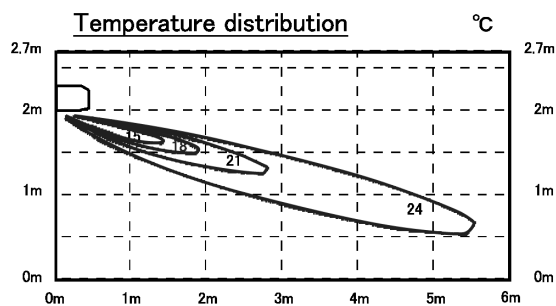
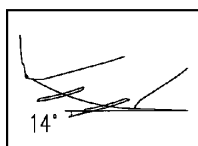


(g) Wall-Mounded type (FDK)

Models FDK22, 28KXE6

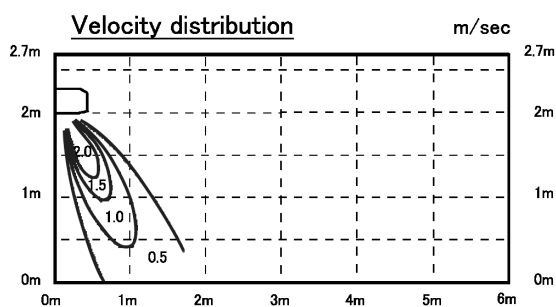
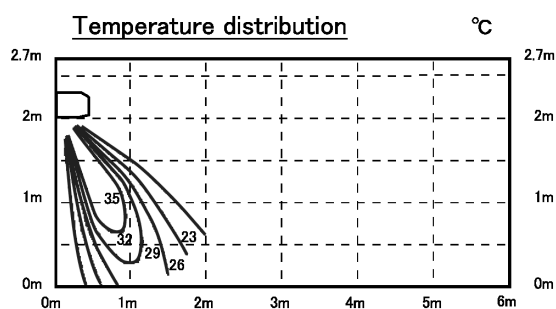
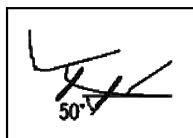
Cooling Air flow Hi

Louver position



Heating Air flow Hi

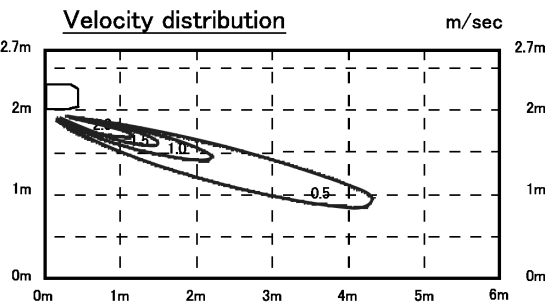
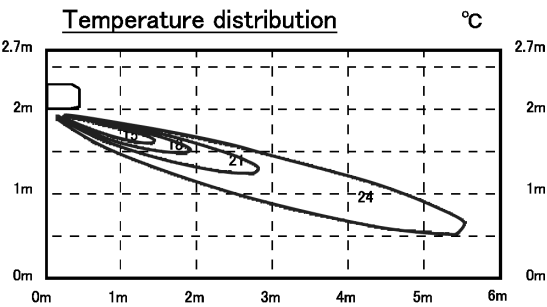
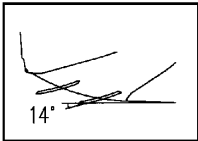
Louver position



Model FDK36KXE6

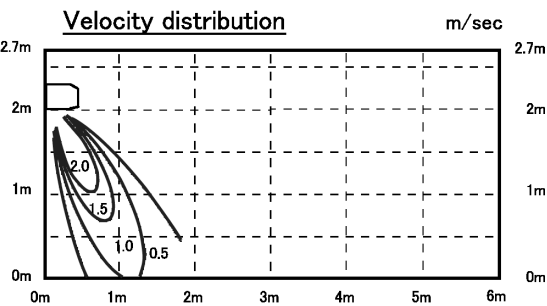
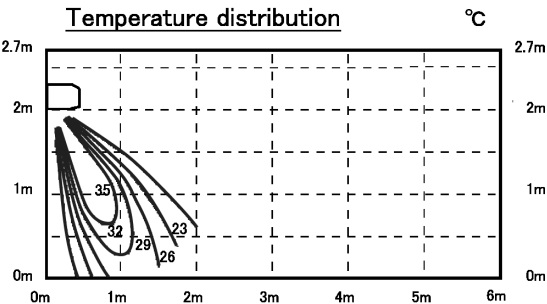
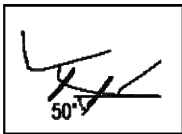
Cooling Air flow Hi

Louver position



Heating Air flow Hi

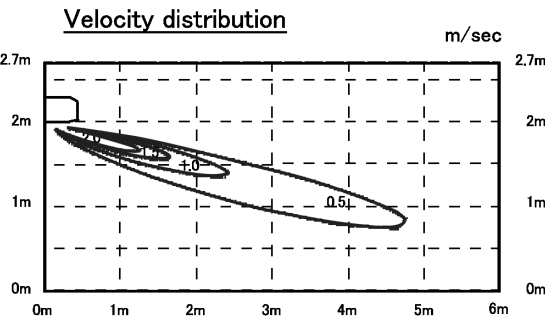
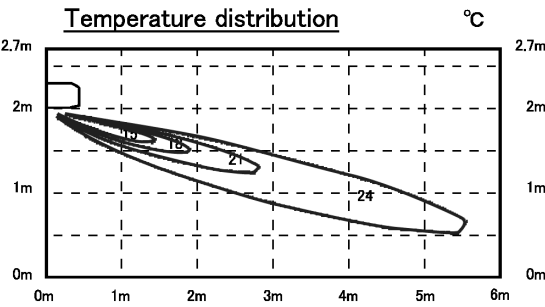
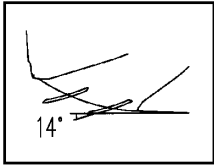
Louver position



Model FDK45KXE6

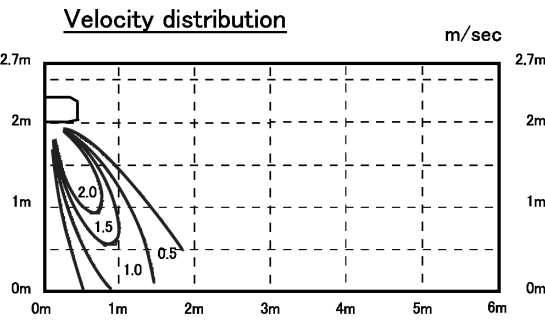
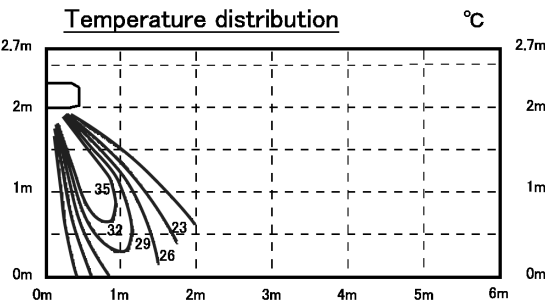
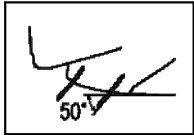
Cooling Air flow Hi

Louver position



Heating Air flow Hi

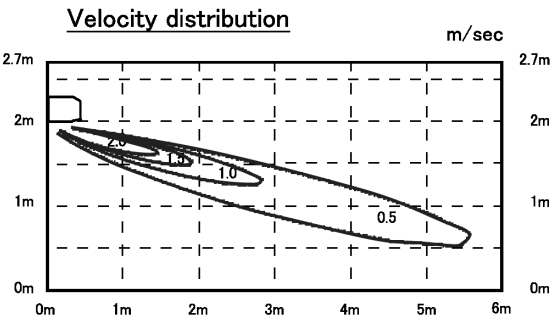
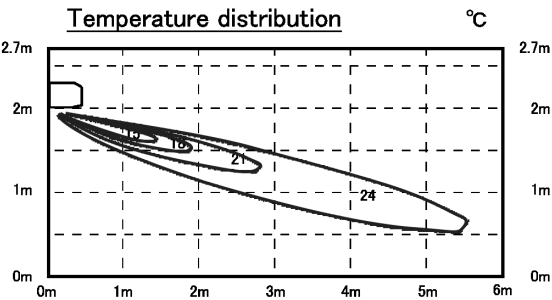
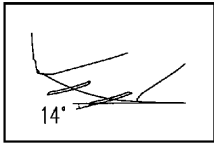
Louver position



Model FDK56KXE6

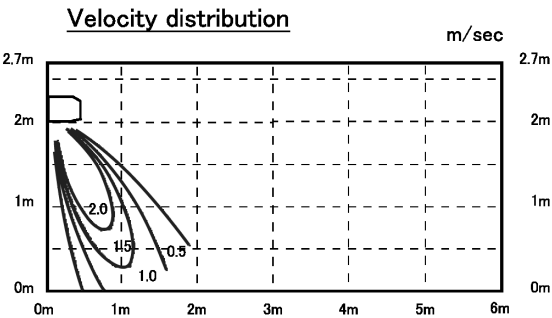
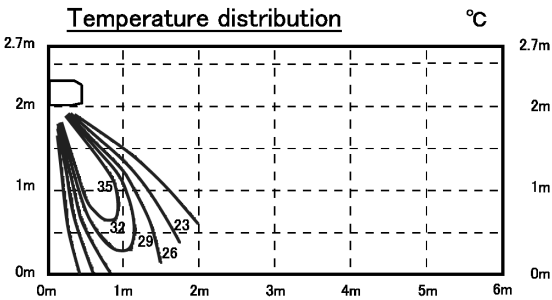
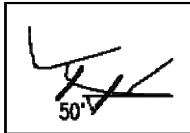
Cooling Air flow Hi

Louver position



Heating Air flow Hi

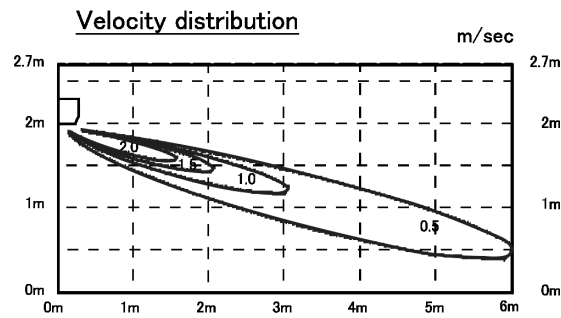
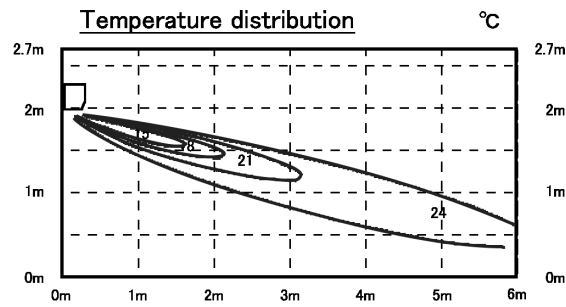
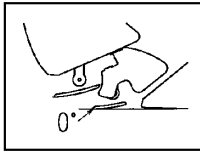
Louver position



Model FDK71KXE6

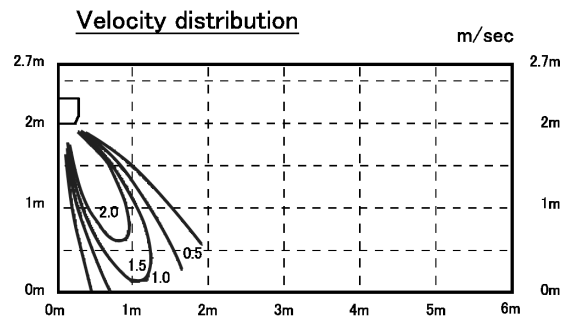
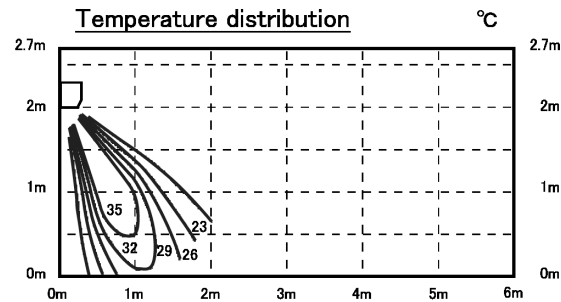
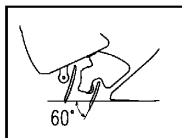
Cooling Air flow Hi

Louver position



Heating Air flow Hi

Louver position

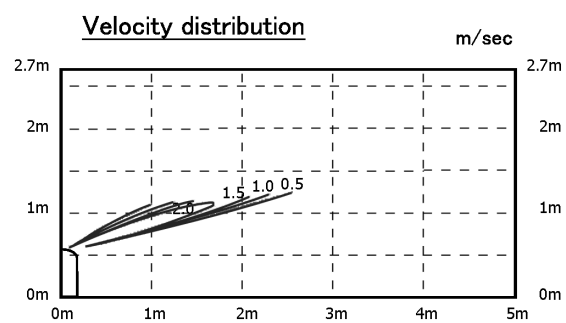
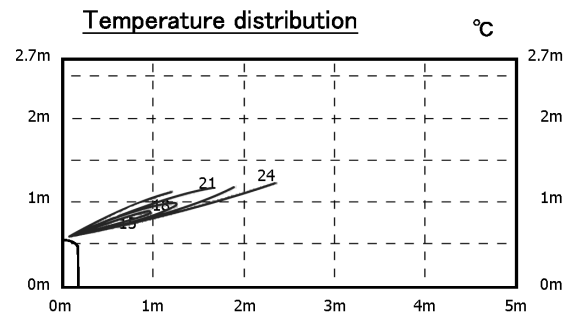
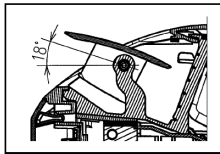


(h) Floor standing-2 way type (FDFW)

Model FDFW28KXE6

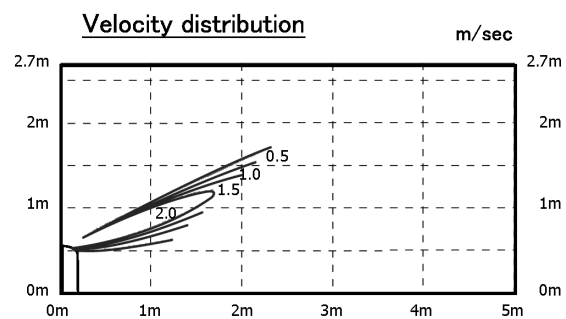
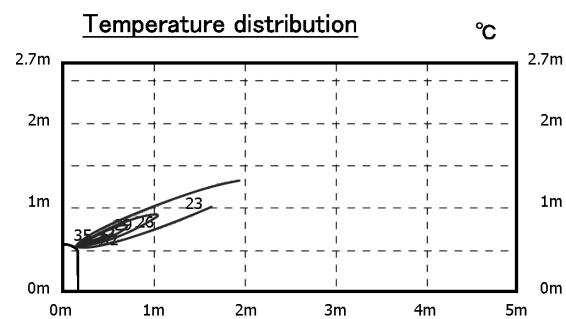
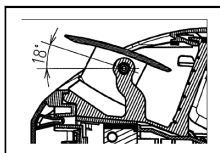
Cooling Air flow Hi

Louver position



Heating Air flow Hi

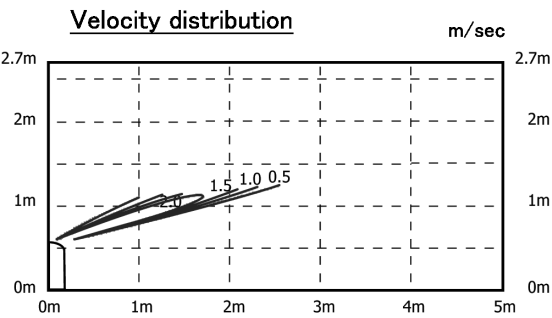
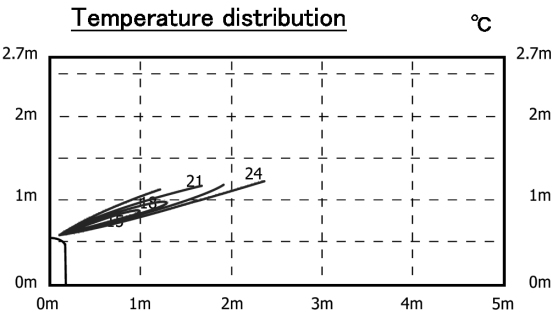
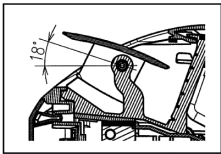
Louver position



Model FDFW45KXE6

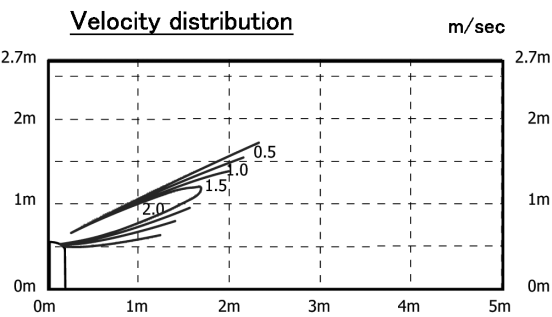
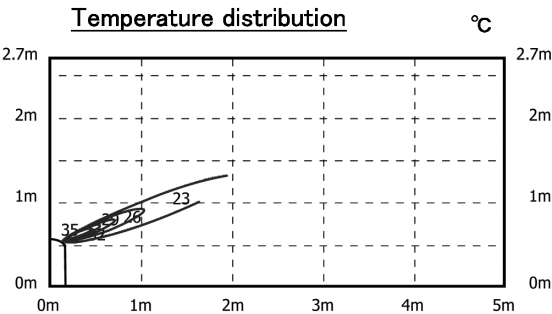
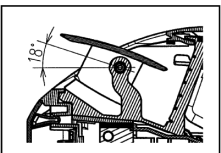
Cooling Air flow Hi

Louver position



Heating Air flow Hi

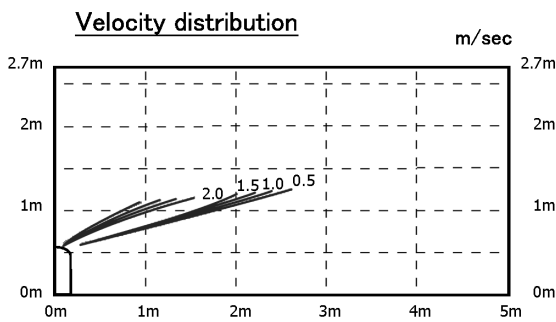
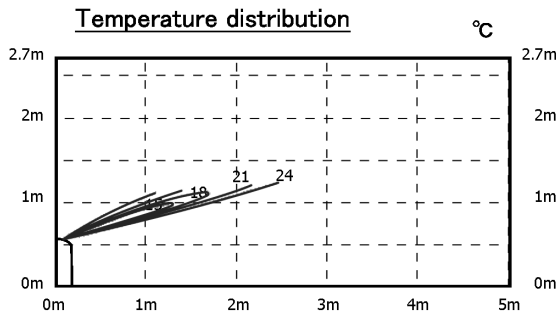
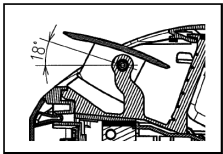
Louver position



Model FDFW56KXE6

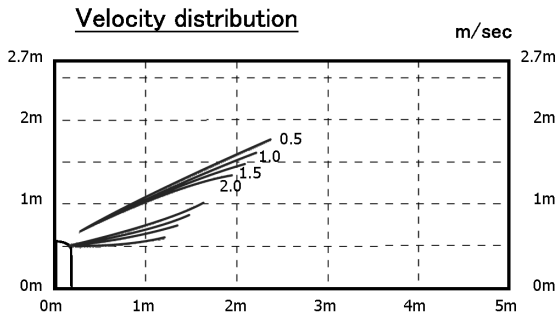
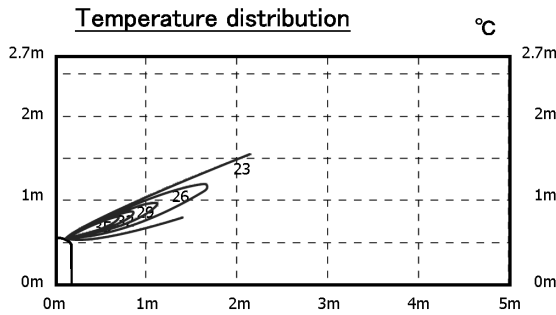
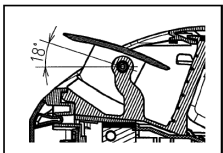
Cooling Air flow Hi

Louver position



Heating Air flow Hi

Louver position



4 RANGE OF USAGE & LIMITATION

• Single use

Outdoor unit		FDC224KXRE6	FDC280KXRE6	FDC335KXRE6
Item				
Indoor intake air temperature (Upper & lower limits)		Refer to page 154		
Outdoor air temperature (Upper & lower limits)				
Indoor unit	Number of connectable units	1 to 20 units	1 to 25 units	1 to 30 units
	Total connectable capacity ⁽¹⁾	112 - 448	140 - 560	167 - 670
Total piping length ⁽²⁾		1000m or less		
Main piping length (from outdoor unit to the first branching)		130m or less		
Maximum piping length from outdoor unit to the furthest indoor unit		Actual length : 160m or less, Equivalent length : 185m or less		
Allowable piping length from the first branching to the furthest indoor unit		90m or less (Difference between the longest and the shortest piping : 40m or less)		
Allowable piping length from the branching controller (PFD box) to the indoor unit		40m or less		
Height difference between outdoor and indoor units	Outdoor unit is above	50m or less		
	Outdoor unit is below	40m or less ⁽³⁾		
Height difference between the indoor units		18m or less		
Height difference between the branching controllers (PFD boxes)		18m or less		
Height difference between the first branching and the indoor unit		18m or less		
Height difference between the branching nearest to the branching controller (PFD box) and the PFD box		Refer to note (4)		
Height difference between the first branching and the branching controller (PFD box)		18m or less		
Height difference between the branching controller (PFD box) and the indoor unit	Indoor unit is above	1m or less		
	Indoor unit is below	4m or less		
Air flow volume and static pressure		Install the duct and air outlet grille with good insulation performance (arranged on site) within the range of fan characteristics. (for ducting models only such as FDU and etc)		
Air filter		Install air filter (arranged on site) at the place for easy maintenance (for ducting models only such as FDU and etc)		
Insulation of refrigerant piping		Insulation with 20mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.		
Insulation of drain piping		Insulation with 10mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.		
Indoor unit atmosphere (inside the ceiling) temperature and humidity [Only the models FDT, FDTC, FDTW, FDTS, FDTQ] [FDU, FDUM, FDQS and FDUH]		Dew-point temperature: 28°C or less, Relative humidity: 80% or less (for FDE, FDK, FDFL, FDFU, FDFW) Dew-point temperature: 23°C or less, Relative humidity: 80% or less		
Compressor start/stop frequency	Minimum operation cycle	6 minutes or more (stop operation- start -stop or start operation-stop-start)		
	Minimum stopping period	3 minutes or more		
Power source voltage	Voltage fluctuation	Within $\pm 10\%$ of rated voltage		
	Voltage drop at starting	Within $\pm 15\%$ of rated voltage		
	Unbalance between phases	Within $\pm 3\%$ of rated voltage		

Note (1) When connecting the indoor unit type FDK, FDFL, FDFU or FDFW series, the total connectable capacity should not exceed 130% of the outdoor unit capacity.

(2) When the total piping length exceeds 510m, 1000cc of additional refrigerant oil should be charged.

(3) When conducting cooling operation at 10°C or lower outdoor air temperature, it must be 30m or less.

(4) When all of following conditions (a) (b) and (c) are established, height difference between the branching nearest to the branching controller (PFD box) and the PFD box should be limited to 4m or less.

(a) When the connected indoor unit model is 22 or 28.

(b) When the piping length from the first branching and the indoor unit is 40m or more.

(c) When the branching controller (PFD box) is installed above the branching nearest to the PFD box.

In such case the size of discharge gas piping between the branching nearest to the branching controller (PFD box) and the PFD box should be increased from $\phi 6.35$ to $\phi 9.52$.

(5) If superlink I (previous superlink) is selected, all the range of usage and limitations, not only the limitations of connectable indoor capacity and connectable number of indoor unit but also of the piping length, operating temperature range and etc., become same as those of KX4 (See technical manual '07 • KX • KXR-T-114). In addition to above limitations, all of new functions for KX6 such as automatic address setting function for multiple refrigerant systems and etc. will be cancelled.

Refer to page 316~318 (4-1. Restrictions on the use of pipes) for detail

Important

When the Additional refrigerant quantity for piping (P) is over the following table, please separate the refrigerant line.

Outdoor unit	P (kg)
224~335	50

• Single use (For combination use as well)

Item	Outdoor unit	FDC400KXRE6	FDC450KXRE6	FDC504KXRE6
Indoor intake air temperature(Upper & lower limits)		Refer to page 154		
Outdoor air temperature(Upper & lower limits)				
Indoor unit	Number of connectable units	1 to 36 units	1 to 40 units	1 to 36 units
	Total connectable capacity ⁽¹⁾	200 - 800	225 - 900	252 - 806
Total piping length ⁽²⁾		1000m or less		
Main piping length (from outdoor unit to the first branching)		130m or less		
Maximum piping length from outdoor unit to the furthest indoor unit		Actual length : 160m or less, Equivalent length : 185m or less		
Allowable piping length from the first branching to the furthest indoor unit		90m or less (Difference between the longest and the shortest piping : 40m or less)		
Allowable piping length from the branching controller (PFD box) to the indoor unit		40m or less		
Height difference between outdoor and indoor units	Outdoor unit is above	50m or less		
	Outdoor unit is below	40m or less ⁽³⁾		
Height difference between the indoor units		18m or less		
Height difference between the branching controllers		18m or less		
Height difference between the first branching and the indoor unit		18m or less		
Height difference between the branching nearest to the branching controller (PFD box) and the PFD box		Refer to note (4)		
Height difference between the first branching and the branching controller (PFD box)		18m or less		
Height difference between the branching controller (PFD box) and the indoor unit	Indoor unit is above	1m or less		
	Indoor unit is below	4m or less		
Air flow volume and static pressure		Install the duct and air outlet grille with good insulation performance (arranged on site) within the range of fan characteristics. (for ducting models only such as FDU and etc)		
Air filter		Install air filter (arranged on site) at the place for easy maintenance (for ducting models only such as FDU and etc)		
Insulation of refrigerant piping		Insulation with 20mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.		
Insulation of drain piping		Insulation with 10mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.		
Indoor unit atmosphere (inside the ceiling) temperature 〔 Only the models FDT, FDTC, FDTW, FDTS, FDTQ FDU, FDUM, FDQS and FDUH 〕		Dew-point temperature: 28℃or less, Relative humidity: 80% or less (for FDE, FDK, FDFL, FDFU, FDFW) Dew-point temperature: 23℃or less, Relative humidity: 80% or less		
Compressor start/stop frequency	Minimum operation cycle	6minutes or more (stop operation- start -stop or start operation-stop-start)		
	Minimum stopping period	3minutes or more		
Power source voltage	Voltage fluctuation	Within ± 10% of rated voltage		
	Voltage drop at starting	Within ± 15% of rated voltage		
	Unbalance between phases	Within ± 3% of rated voltage		

Note (1) When connecting the indoor unit type FDK, FDFL, FDFU or FDFW series, the total connectable capacity should not exceed 130% of the outdoor unit capacity.

(2) When the total piping length exceeds 510m, 1000cc of additional refrigerant oil should be charged.

(3) When conducting cooling operation at 10°C or lower outdoor air temperature, it must be 30m or less.

(4) When all of following conditions (a) (b) and (c) are established, height difference between the branching nearest to the branching controller (PFD box) and the indoor unit should be **limited to 4m or less**.

(a) When the connected indoor unit **model is 22 or 28**.

(b) When the piping length from the first branching and the indoor unit is **40m or more**.

(c) When the branching controller (PFD box) is installed above the branching nearest to the PFD box.

In such case the size of discharge gas piping between the branching nearest to the branching controller (PFD box) and the PFD box should be **increased from $\phi 6.35$ to $\phi 9.52$** .

(5) If superlink I (previous superlink) is selected, all the range of usage and limitations, not only the limitations of connectable indoor capacity and connectable number of indoor unit but also of the piping length, operating temperature range and etc., become same as those of KX4 (See technical manual '07 • KX • KXR-T-114). In addition to above limitations, all of new functions for KX6 such as automatic address setting function for multiple refrigerant systems and etc. will be cancelled.

Important

When the calculation result of additional refrigerant charging amount exceeds the value mentioned in following table, please split the refrigerant system into two.

Outdoor unit	P (kg)
400-504	50

• Single use (For combination use as well)

Outdoor unit		FDC560KXRE6	FDC615KXRE6	FDC680KXRE6
Indoor intake air temperature(Upper & lower limits)		Refer to page 154		
Outdoor air temperature(Upper & lower limits)				
Indoor unit	Number of connectable units	1 to 40 units	2 to 44 units	2 to 49 units
	Total connectable capacity ⁽¹⁾	280 - 896	308 - 984	340 - 1088
Total piping length ⁽²⁾		1000m or less		
Main piping length (from outdoor unit to the first branching)		130m or less		
Maximum piping length from outdoor unit to the furthest indoor unit		Actual length : 160m or less, Equivalent length : 185m or less		
Allowable piping length from the first branching to the furthest indoor unit		90m or less (Difference between the longest and the shortest piping : 40m or less)		
Allowable piping length from the branching controller (PFD box) to the indoor unit		40m or less		
Height difference between outdoor and indoor units	Outdoor unit is above	50m or less		
	Outdoor unit is below	40m or less ⁽³⁾		
Height difference between the indoor units		18m or less		
Height difference between the branching controllers		18m or less		
Height difference between the first branching and the branching controller (PFD box) nearest to the branching controller (PFD box)		18m or less		
Height difference between the first branching and the branching controller (PFD box)		Refer to note (4)		
Height difference between the branching controller (PFD box) and the indoor unit	Indoor unit is above	18m or less		
	Indoor unit is below	1m or less		
Air flow volume and static pressure		4m or less		
Air filter		Install the duct and air outlet grille with good insulation performance (arranged on site) within the range of fan characteristics. (for ducting models only such as FDU and etc)		
Insulation of refrigerant piping		Install air filter (arranged on site) at the place for easy maintenance (for ducting models only such as FDU and etc)		
Insulation of drain piping		Insulation with 20mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.		
Indoor unit atmosphere (inside the ceiling) temperature [Only the models FDT, FDTC, FDTW, FDTS, FDTQ] [FDU, FDUM, FDQS and FDUH]		Insulation with 10mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.		
Compressor start/stop frequency	Minimum operation cycle	Dew-point temperature: 28℃ or less, Relative humidity: 80% or less (for FDE, FDK, FDFL, FDFU, FDFW)		
	Minimum stopping period	Dew-point temperature: 23℃ or less, Relative humidity: 80% or less		
Power source voltage	Voltage fluctuation	6minutes or more (stop operation- start -stop or start operation-stop-start)		
	Voltage drop at starting	3minutes or more		
	Unbalance between phases	Within ±10% of rated voltage		
		Within ±15% of rated voltage		
		Within ±3% of rated voltage		

Note (1) When connecting the indoor unit type FDK, FDFL, FDFU or FDFW series, the total connectable capacity should not exceed 130% of the outdoor unit capacity.

(2) When the total piping length exceeds 510m, 1000cc of additional refrigerant oil should be charged.

(3) When conducting cooling operation at 10°C or lower outdoor air temperature, it must be 30m or less.

(4) When all of following conditions (a) (b) and (c) are established, height difference between the branching nearest to the branching controller (PFD box) and the indoor unit should be limited to 4m or less.

(a) When the connected indoor unit model is 22 or 28.

(b) When the piping length from the first branching and the indoor unit is 40m or more.

(c) When the branching controller (PFD box) is installed above the branching nearest to the PFD box.

In such case the size of discharge gas piping between the branching nearest to the branching controller (PFD box) and the PFD box should be increased from $\phi 6.35$ to $\phi 9.52$.

(5) If superlink I (previous superlink) is selected, all the range of usage and limitations, not only the limitations of connectable indoor capacity and connectable number of indoor unit but also of the piping length, operating temperature range and etc., become same as those of KX4 (See technical manual '07 • KX • KXR-T-114). In addition to above limitations, all of new functions for KX6 such as automatic address setting function for multiple refrigerant systems and etc. will be cancelled.

Important

When the calculation result of additional refrigerant charging amount exceeds the value mentioned in following table, please split the refrigerant system into two.

Outdoor unit	P (kg)
560-680	50

•Combination use

Outdoor unit		FDC735KXRE6	FDC800KXRE6	FDC850KXRE6	FDC900KXRE6	FDC960KXRE6
Item		Refer to page 154				
Indoor intake air temperature(Upper & lower limits)						
Outdoor air temperature(Upper & lower limits)						
Indoor unit	Number of connectable units	2 to 53 units	2 to 58 units	2 to 61 units	2 to 65 units	2 to 69 units
	Total connectable capacity ⁽¹⁾	368 - 1176	400 - 1280	425 - 1360	450 - 1440	477 - 1526
Total piping length ⁽²⁾		1000m or less				
Main piping length (from outdoor unit to the first branching)		130m or less				
Maximum piping length from outdoor unit to the furthest indoor unit		Actual length : 160m or less, Equivalent length : 185m or less				
Allowable piping length from the first branching to the furthest indoor unit		90m or less (Difference between the longest and the shortest piping : 40m or less)				
Allowable piping length from the branching controller (PFD box) to the indoor unit		40m or less				
Height difference between outdoor and indoor units	Outdoor unit is above	50m or less				
	Outdoor unit is below	40m or less ⁽³⁾				
Height difference between the indoor units		18m or less				
Height difference between the branching controllers		18m or less				
Height difference between the first branching and the indoor unit		18m or less				
Height difference between the branching nearest to the branching controller (PFD box) and the PFD box		Refer to note (4)				
Height difference between the first branching and the branching controller (PFD box)		18m or less				
Height difference between the branching controller (PFD box) and the indoor unit	Indoor unit is above	1m or less				
	Indoor unit is below	4m or less				
Height difference between master and slave outdoor units		0.4m or less				
Height difference between the outdoor unit and the outdoor side branching		5m or less				
Allowable piping length of oil equalization piping		10m or less				
Air flow volume and static pressure		Install the duct and air outlet grille with good insulation performance (arranged on site) within the range of fan characteristics. (for ducting models only such as FDU and etc)				
Air filter		Install air filter (arranged on site) at the place for easy maintenance (for ducting models only such as FDU and etc)				
Insulation of refrigerant piping		Insulation with 20mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.				
Insulation of drain piping		Insulation with 10mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.				
Indoor unit atmosphere (inside the ceiling) temperature and humidity [Only the models FDT, FDTC, FDTW, FDTS, FDTQ] [FDU, FDUM, FDQS and FDUH]		Dew-point temperature: 28°C or less, Relative humidity: 80% or less (for FDE, FDK, FDFL, FDFU, FDFW) Dew-point temperature: 23°C or less, Relative humidity: 80% or less				
Compressor start/stop frequency	Minimum operation cycle	6minutes or more (stop operation- start -stop or start operation-stop-start)				
	Minimum stopping period	3minutes or more				
Power source voltage	Voltage fluctuation	Within ±10% of rated voltage				
	Voltage drop at starting	Within ±15% of rated voltage				
	Unbalance between phases	Within ±3% of rated voltage				

Note (1) When connecting the indoor unit type FDK, FDFL, FDFU or FDFW series, the total connectable capacity should not exceed 130% of the outdoor unit capacity.

(2) When the total piping length exceeds 510m, 1000cc of additional refrigerant oil should be charged.

(3) When conducting cooling operation at 10°C or lower outdoor air temperature, it must be 30m or less.

(4) When all of following conditions (a) (b) and (c) are established, height difference between the branching nearest to the branching controller (PFD box) and the indoor unit should be **limited to 4m or less**.

(a) When the connected indoor unit model is 22 or 28.

(b) When the piping length from the first branching and the indoor unit is 40m or more.

(c) When the branching controller (PFD box) is installed above the branching nearest to the PFD box.

In such case the size of discharge gas piping between the branching nearest to the branching controller (PFD box) and the PFD box should be increased from $\phi 6.35$ to $\phi 9.52$.

(5) If superlink I (previous superlink) is selected, all the range of usage and limitations, not only the limitations of connectable indoor capacity and connectable number of indoor unit but also of the piping length, operating temperature range and etc., become same as those of KX4 (See technical manual '07 • KX • KXR-T-114). In addition to above limitations, all of new functions for KX6 such as automatic address setting function for multiple refrigerant systems and etc. will be cancelled.

Important	
When the calculation result of additional refrigerant charging amount exceeds the value mentioned in following table, please split the refrigerant system into two.	
Outdoor unit	P (kg)
735-960	100

• Combination use

		Outdoor unit		FDC1010 KXRE6	FDC1065 KXRE6	FDC1130 KXRE6	FDC1180 KXRE6	FDC1235 KXRE6	FDC1306 KXRE6	FDC1360 KXRE6
Item										
Indoor intake air temperature (Upper & lower limits)		Refer to page 154								
Outdoor air temperature (Upper & lower limits)										
Indoor unit	Number of connectable units	2 to 59 units	2 to 62 units	2 to 66 units	3 to 69 units	3 to 72 units	3 to 76 units	3 to 80 units		
	Total connectable capacity ⁽¹⁾	504 - 1311	532 - 1384	560 - 1456	588 - 1528	615 - 1599	650 - 1690	680 - 1768		
Total piping length ⁽²⁾		1000m or less								
Main piping length (from outdoor unit to the first branching)		130m or less								
Maximum piping length from outdoor unit to the furthest indoor unit		Actual length : 160m or less, Equivalent length : 185m or less								
Allowable piping length from the first branching to the furthest indoor unit		90m or less (Difference between the longest and the shortest piping : 40m of less)								
Allowable piping length from the branching controller (PFD box) to the indoor unit		40m or less								
Height difference between outdoor and indoor units	Outdoor unit is above	50m or less								
	Outdoor unit is below	40m or less ⁽³⁾								
Height difference between the indoor units		18m or less								
Height difference between the branching controllers		18m or less								
Height difference between the first branching and the indoor unit		18m or less ⁽⁴⁾								
Height difference between the branching nearest to the branching controller (PFD box) and the PFD box		Refer to note (4)								
Height difference between the first branching and the branching controller (PFD box)		18m or less								
Height difference between the branching controller (PFD box) and the indoor unit	Indoor unit is above	1m or less								
	Indoor unit is below	4m or less								
Height difference between master and slave outdoor units		0.4m or less								
Height difference between the outdoor unit and the outdoor side branching		5m or less								
Allowable piping length of oil equalization piping		10m or less								
Air flow volume and static pressure		Install the duct and air outlet grille with good insulation performance (arranged on site) within the range of fan characteristics. (for ducting models only such as FDU and etc)								
Air filter		Install air filter (arranged on site) at the place for easy maintenance (for ducting models only such as FDU and etc)								
Insulation of refrigerant piping		Insulation with 20mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.								
Insulation of drain piping		Insulation with 10mm or more thickness is required when the relative humidity exceeds 70% in such surroundings as inside of ceiling and etc.								
Indoor unit atmosphere (inside the ceiling) temperature and humidity [Only the models FDT, FDTC, FDTW, FDTS, FDTQ] [FDU, FDUM, FDQS and FDUH]		Dew-point temperature: 28℃ or less, Relative humidity: 80% or less (for FDE, FDK, FDFL, FDFU, FDFW) Dew-point temperature: 23℃ or less, Relative humidity: 80% or less								
Compressor start/stop frequency	Minimum operation cycle	6minutes or more (stop operation- start -stop or start operation-stop-start)								
	Minimum stopping period	3minutes or more								
Power source voltage	Voltage fluctuation	Within ±10% of rated voltage								
	Voltage drop at starting	Within ±15% of rated voltage								
	Unbalance between phases	Within ±3% of rated voltage								

Note (1) When connecting the indoor unit type FDK, FDFL, FDFU or FDFW series, the total connectable capacity should not exceed 130% of the outdoor unit capacity.

(2) When the total piping length exceeds 510m, 1000cc of additional refrigerant oil should be charged.

(3) When conducting cooling operation at 10°C or lower outdoor air temperature, it must be 30m or less.

(4) When all of following conditions (a) (b) and (c) are established, height difference between the branching nearest to the branching controller (PFD box) and the indoor unit should be limited to 4m or less.

(a) When the connected indoor unit model is 22 or 28.

(b) When the piping length from the first branching and the indoor unit is 40m or more.

(c) When the branching controller (PFD box) is installed above the branching nearest to the PFD box.

In such case the size of discharge gas piping between the branching nearest to the branching controller (PFD box) and the PFD box should be increased from $\phi 6.35$ to $\phi 9.52$.

(5) If superlink I (previous superlink) is selected, all the range of usage and limitations, not only the limitations of connectable indoor capacity and connectable number of indoor unit but also of the piping length, operating temperature range and etc., become same as those of KX4 (See technical manual '07 • KX • KXR-T-114). In addition to above limitations, all of new functions for KX6 such as automatic address setting function for multiple refrigerant systems and etc. will be cancelled.

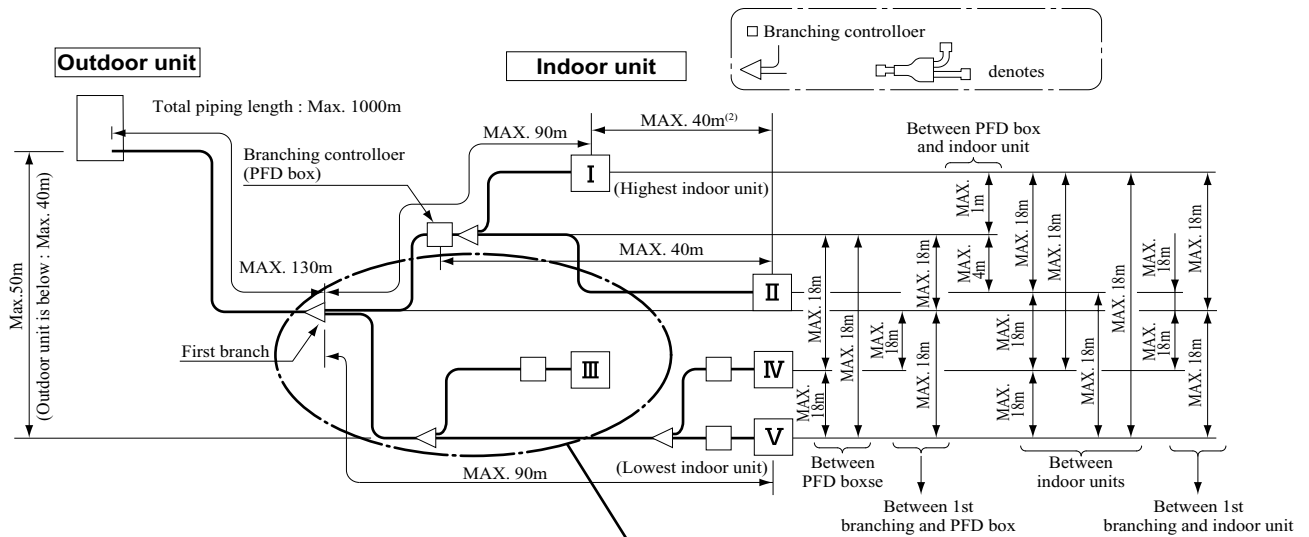
Important

When the calculation result of additional refrigerant charging amount exceeds the value mentioned in following table, please split the refrigerant system into two.

Outdoor unit	P (kg)
1010-1360	100

Allowable length of refrigerant piping, height difference between indoor and outdoor unit



(a) FDC224KXRE6 ~ FDC680KXRE6 (Single use)
1) Branching system

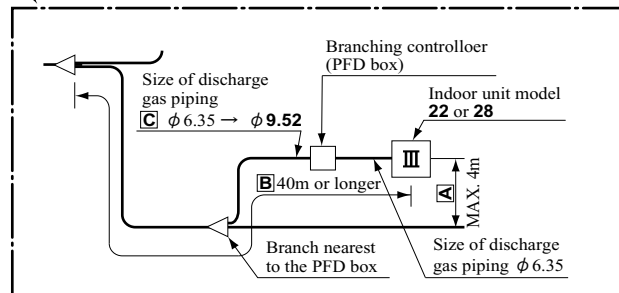


Note (1) When all of following conditions (a), (b) and (c) are established, height difference **A** shown in right figure is limited to **4m or less**.

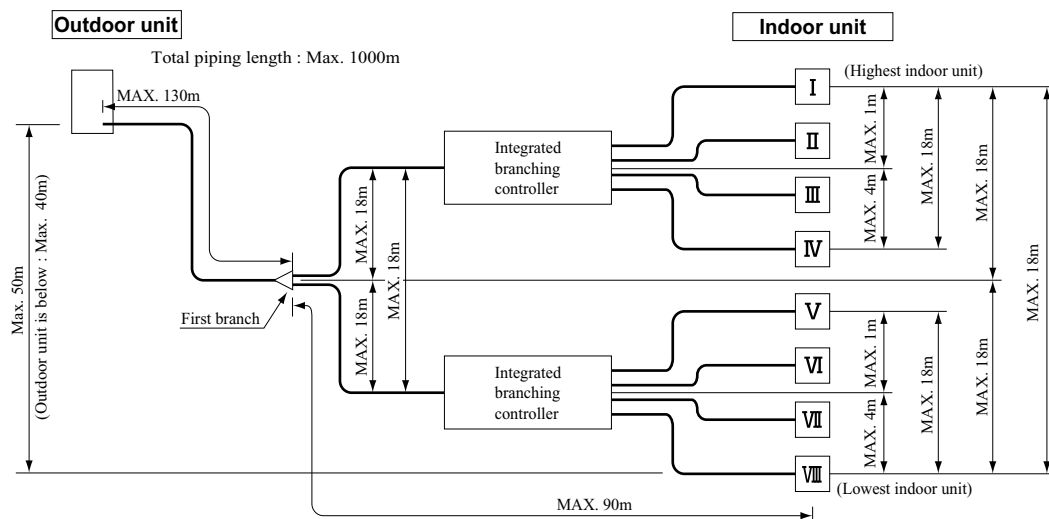
- (a) When the connected indoor unit **model is 22 or 28.**
- (b) When the piping length **B is 40m or more.**
- (c) When the PFD box is installed above the branching nearest to the PFD box.

Size of discharge gas piping **C** should be increased from ϕ **6.35 to ϕ 9.52.**

- (2) Do not install any large traps () or bumps () exceeded **500mm** in height in the piping system.
- (3) Difference between the longest and shortest piping : **40m or less.**

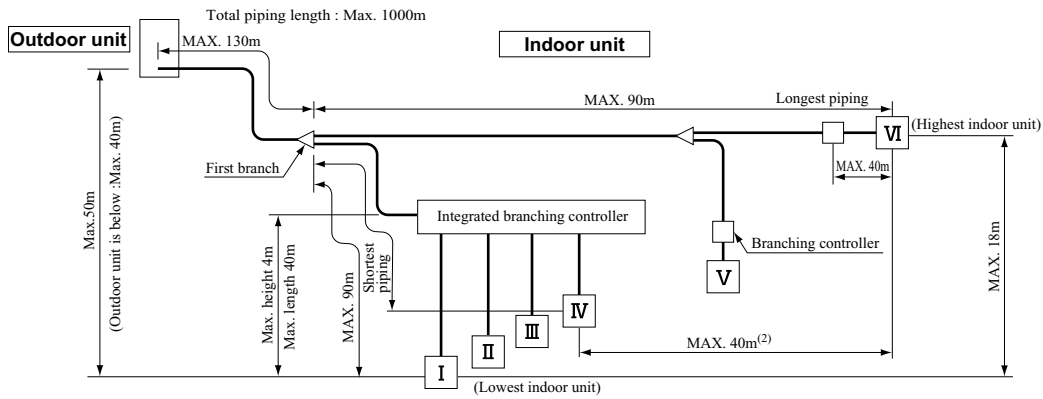




2) Integrated branching system



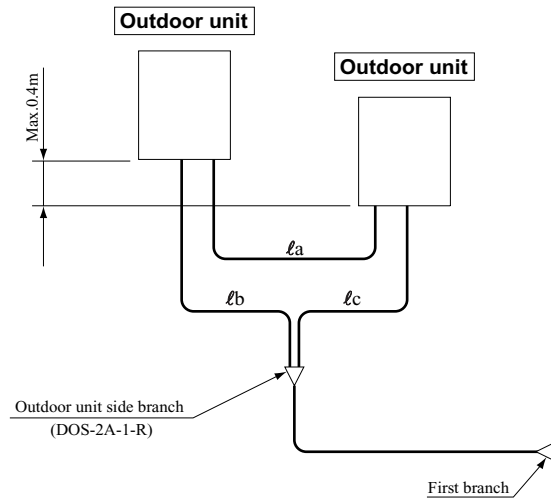
Note (1) Do not install any large traps () or bumps () **exceeded 500mm** in height in the piping system.

3) Mixed system (Branching controller and Integrated branching controller)



Note (1) Do not install any large traps () or bumps () exceeded 500mm in height in the piping system.
 (2) Difference between the longest and shortest piping : 40m or less.

(b) FDC735KXRE6 ~ FDC1360KXRE6 (Combination use)

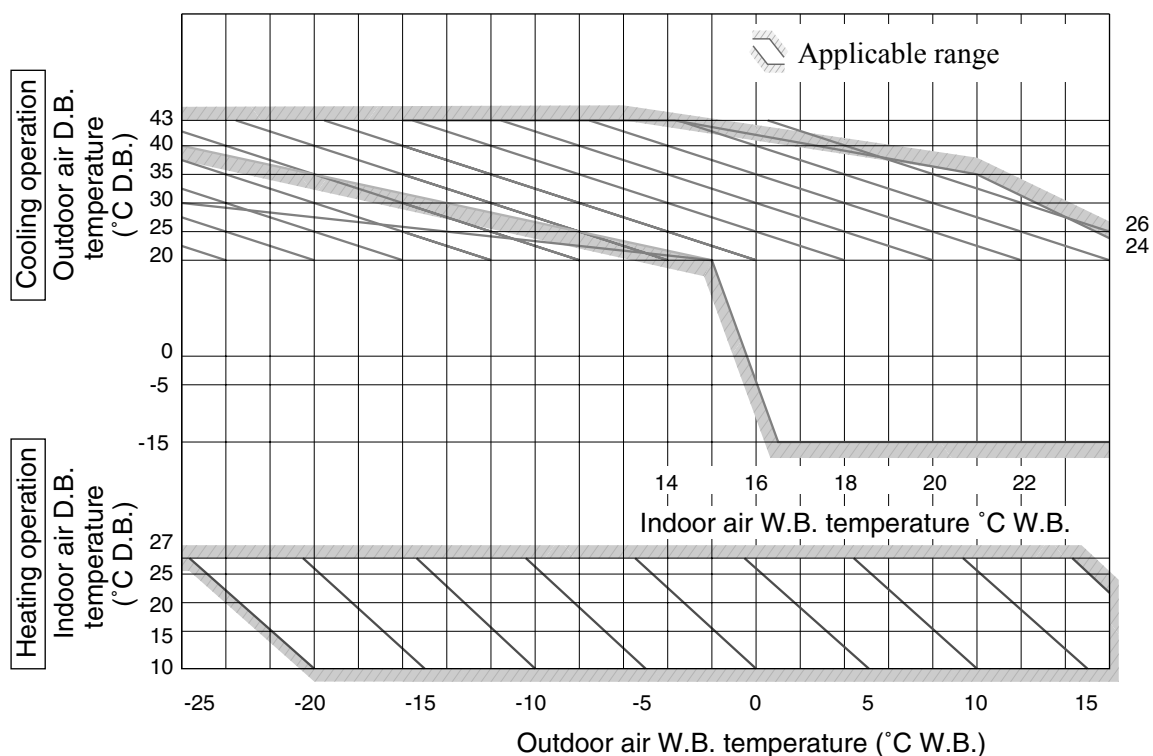


Allowable piping length

- Equalizing oil pipe $\ell_a \leq 10\text{m}$
- Refrigerant piping $\ell_b \leq 5\text{m}$
- Refrigerant piping $\ell_c \leq 5\text{m}$

Note (1) Limitations other than above are the same as that for the single use.

Operating temperature range



Note (1) Mixed operation of cooling/heating is prohibited with the outdoor air temperature at -5°C or lower.

“CAUTION” Cooling operation under low outdoor air temperature conditions

KXRE6 models can be operated in cooling mode at low outdoor air temperature condition within above temperature range. However in case of severely low temperature conditions if the following precaution is not observed, it may not be operated in spite of operable temperature range mentioned above and cooling capacity may not be established under certain conditions.

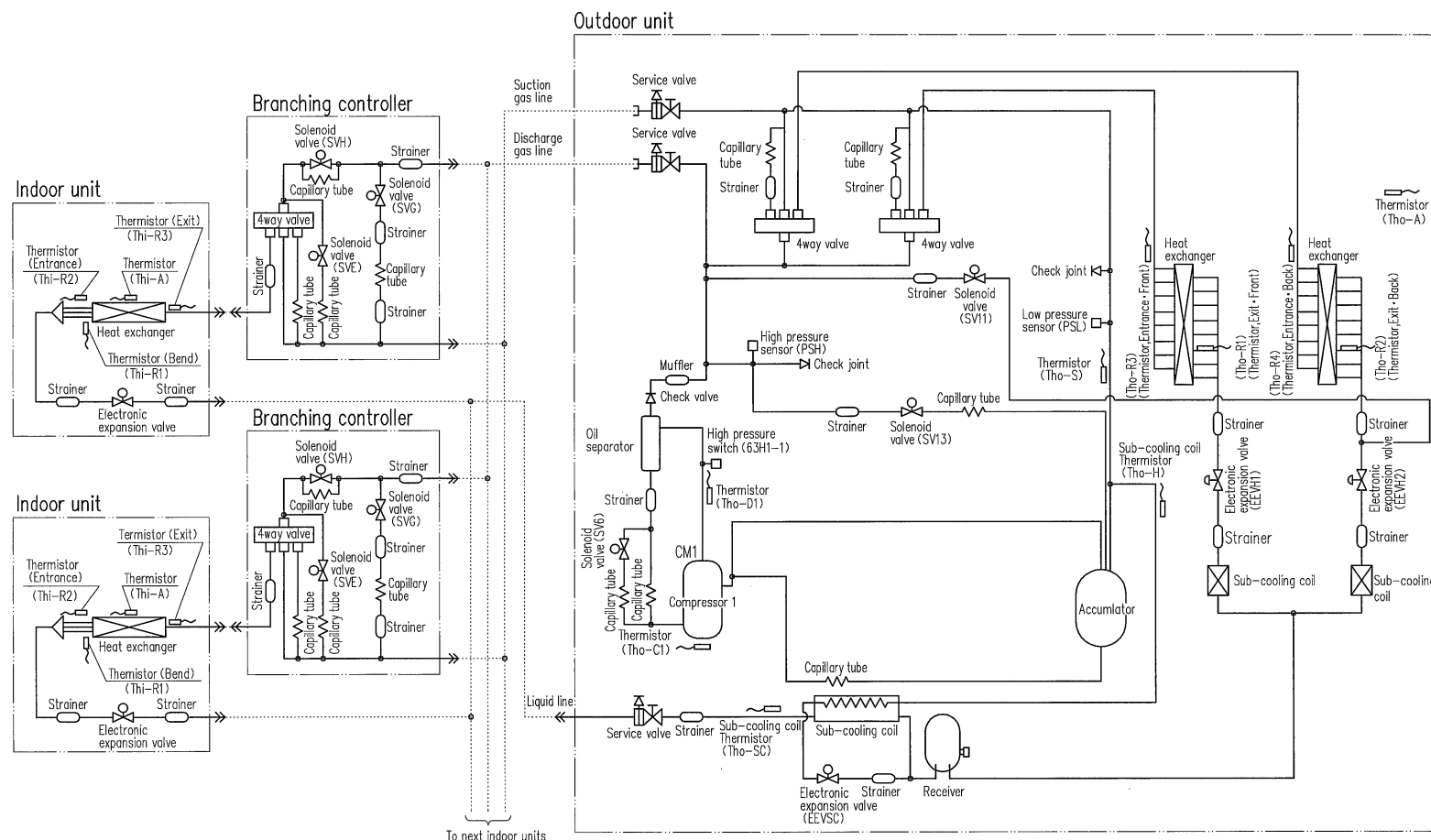
[Precaution]

In case of severely low temperature condition

- 1) Install the outdoor unit at the place where strong wind cannot blow directly into the outdoor unit.
- 2) If there is no installation place where can prevent strong wind from directly blowing into the outdoor unit, prepare a windbreak fence or something like that locally in order to divert the strong wind from the outdoor unit.

[Reason]

Under the low outdoor air temperature conditions of -5°C or lower, if strong wind directly blow into the outdoor unit, the outdoor heat exchanger temperature will drop, even though the outdoor fan is stopped by outdoor fan control. This makes high and low pressures to drop as well. This low pressure drop makes the indoor heat exchanger temperature to drop and will activate anti-frost control at indoor heat exchanger at frequent intervals, that cooling operation may not be established for any given time.

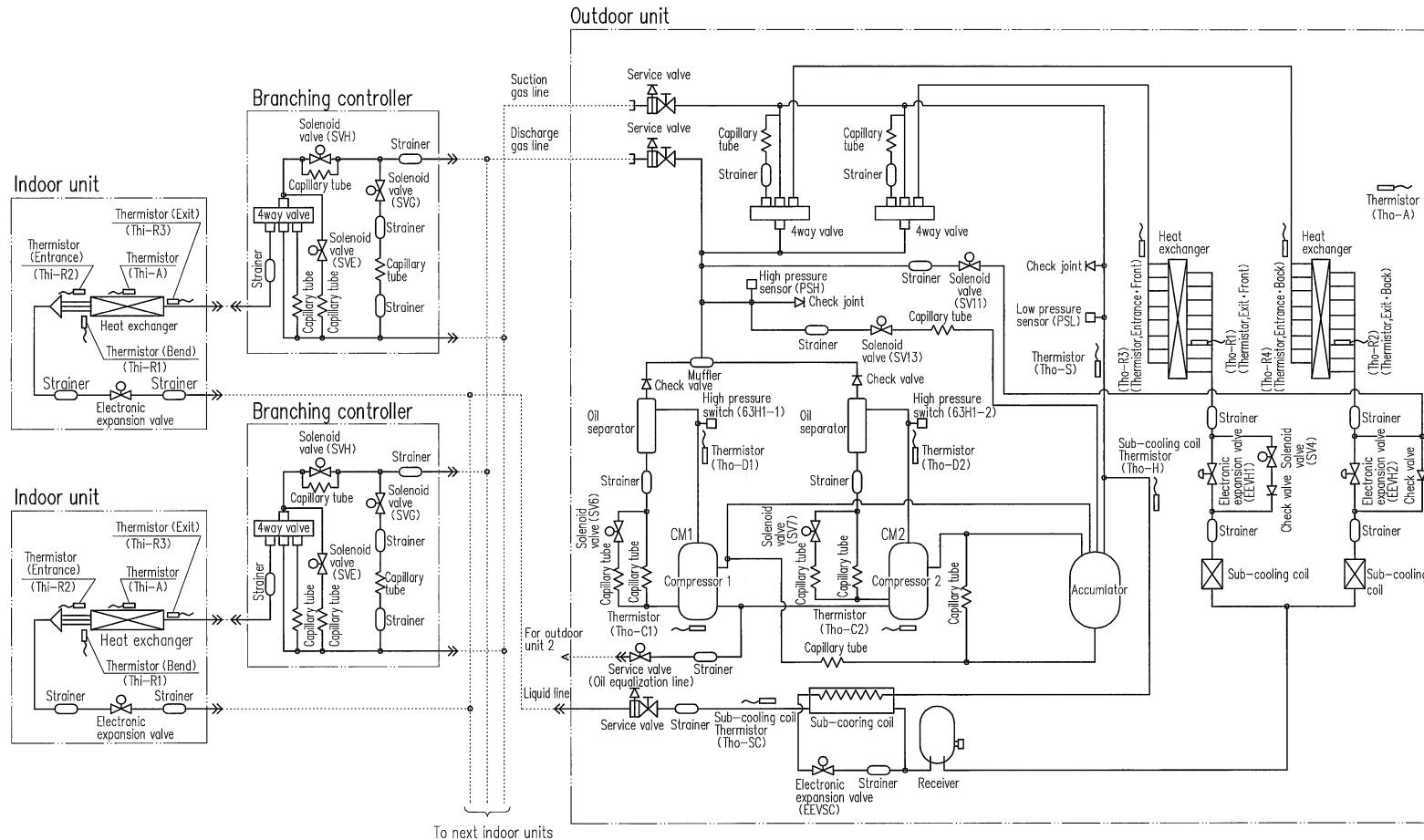


- Notes (1) Preset point of protective devices
63H1-1 : Open 4.15MPa, Close 3.15MPa
(For protection)
- (2) Function of thermistor
PSH : For compressor control
Cooling: 3.70 ON (MPa)
Heating: 3.00 ON (MPa)
PSL : ON 0.18MPa, OFF 0.20MPa
(For compressor control)
ON 0.134MPa, OFF 0.18MPa
(For protection)

- Thi-R1, R2 : Heating operation : Indoor fan control.
Cooling operation : Frost prevention control.
Super heat control.
- Thi-R3 : For super heat control of cooling operation.
Tho-D : For control of discharge pipe temperature.
Tho-C : For control of temperature under the dome.
Tho-S : For control of suction pipe temperature.
Tho-R1, R2 : For control of defrosting.
Tho-A : For control of defrosting.
Tho-R3, R4 : Electronic expansion valve (EEVH1, 2) control of heating operation
Tho-SC : Electronic expansion valve (EEVSC) control of cooling operation.
Tho-H : For super heat control of sub-cooling coil.

List of branch controller solenoid valve operations

	Closing	Heating
SVH	Close	Open
SVG	Close	Close



- Notes (1) Preset point of protective devices
63H1-1 : Open 4.15MPa, Close 3.15MPa
(For protection)
- (2) Function of thermistor
PSH : For compressor control
Cooling: 3.70 ON (MPa)
Heating: 3.00 ON (MPa)
PSL : ON 0.18MPa, OFF 0.20MPa
(For compressor control)
ON 0.134MPa, OFF 0.18MPa
(For protection)

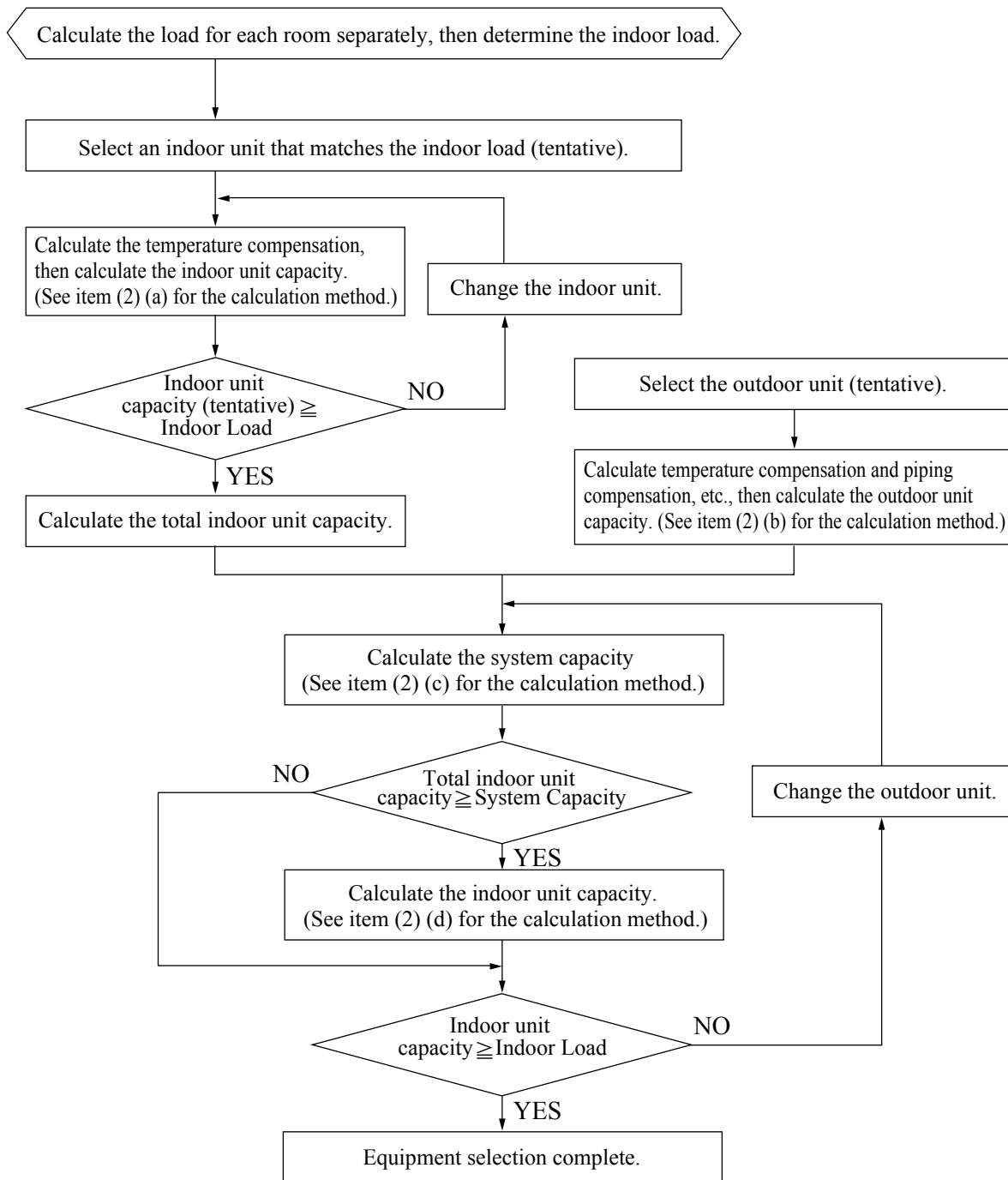
- Thi-R1, R2 : Heating operation : Indoor fan control.
Cooling operation : Frost prevention control.
Super heat control.
- Thi-R3 : For super heat control of cooling operation.
Tho-D : For control of discharge pipe temperature.
Tho-C : For control of temperature under the dome.
Tho-S : For control of suction pipe temperature.
Tho-R1, R2 : For control of defrosting.
Tho-A : For control of defrosting.
Tho-R3, R4 : Electronic expansion valve (EEVH1, 2) control of heating operation
Tho-SC : Electronic expansion valve (EEVSC) control of cooling operation.
Tho-H : For super heat control of sub-cooling coil.

List of branch controller solenoid valve operations

	Closing	Heating
SVH	Close	Open
SVG	Close	Close

6 SELECTION CHART

(1) Equipment selection flow



(2) Capacity calculation method

(a) Calculating the indoor unit capacity compensation

Indoor unit capacity (cooling, heating) = Indoor unit total rated capacity
× Capacity compensation coefficient according to temperature conditions
See item (3) (a) concerning the capacity compensation coefficient according to temperature conditions.

(b) Calculating the outdoor unit capacity compensation

Outdoor Unit Capacity (Cooling, Heating) = Outdoor unit rated capacity (rated capacity when 100% connected)
× Capacity compensation coefficient according to temperature conditions
× Capacity compensation coefficient according to piping length
× Capacity compensation coefficient according to height difference
× Correction of heating capacity in relation to the frost on the outdoor unit heat exchanger
× Capacity compensation coefficient according to indoor unit connection capacity

- ① See item (3) (a) concerning the capacity compensation coefficient according to temperature conditions.
- ② See item (3) (c) concerning the capacity compensation coefficient according to piping length.
- ③ See item (3) (d) concerning the capacity compensation coefficient according to height difference. This compensation should be carried out only in cases where the outdoor unit is lower during cooling and higher during heating.
- ④ See item (3) (e) correction of heating capacity in relation to the frost on the outdoor unit heat exchanger. This compensation should be carried out only when calculating the heating capacity.
- ⑤ See item (3) (f) concerning the capacity compensation coefficient according to indoor unit connected capacity. This compensation should be carried out only in cases where the indoor unit total capacity is 100% or higher.

(c) Calculating system capacity

Compare the capacities determined in items (a) and (b) above and let the smaller value be the system capacity (cooling, heating).

- ① In cases where indoor unit total capacity (cooling, heating) > outdoor unit capacity (cooling, heating)
System capacity (cooling, heating) = Outdoor unit capacity (cooling, heating)
- ② In cases where indoor unit total capacity (cooling, heating) < outdoor unit capacity (cooling, heating)
System capacity (cooling, heating) = Indoor unit capacity (cooling, heating)

(d) Calculating indoor unit capacity [item (c) ① only]

Indoor unit capacity (cooling, heating) = System capacity (cooling, heating)
× [(Indoor unit capacity) / (Indoor unit total capacity)]

Capacity calculation examples

Example 1

Cooling (when the indoor unit connected total capacity is less than 100%)

- Outdoor unit FDC450KXRE6..... 1 Unit
- Indoor unit FDT56KXE6A 7 Units
- Piping length 60 m (Equivalent length)
- Indoor, outdoor unit height difference 15 m (Outdoor unit is lower)
- Temperature conditions Outdoor temperature: 33°C DB
- Temperature conditions Indoor temperature: 19°C WB

<Indoor unit total cooling capacity>: Item (2) (a) calculation.

- Indoor unit rated cooling capacity: 5.6 kW
- Capacity compensation coefficient according to temperature conditions:
1.02 (Calculated according to Indoor 19°C WB / Outdoor 33°C DB); (See page 160)
Indoor unit cooling capacity: 5.6 kW × 1.02 = 5.7 kW
- Indoor unit total cooling capacity calculation;
indoor unit total cooling capacity: 5.7 kW × 7 units = 39.9 kW

<Outdoor unit maximum cooling capacity> : Item (2) (b) calculation

- Outdoor unit rated cooling capacity: 45.0 kW
- Capacity compensation coefficient according to temperature conditions:
1.02 (Calculated according to Indoor 19°C WB / Outdoor 33°C DB); (See page 160)
Outdoor unit cooling capacity: 45.0 kW × 1.02 = 45.9 kW
- Capacity compensation coefficient according to piping length: 0.94 (calculated according to 60 m length); (See page 163)
45.9 kW × 0.94 = 43.1 kW

- Capacity compensation coefficient according to height difference: 0.97 (calculated according to 15 m difference); (See page 165)
 $43.1 \text{ kW} \times 0.97 = \underline{41.8 \text{ kW}}$
- Capacity compensation coefficient according to indoor unit connected total capacity: $1.0 \leftarrow (56 \times 7) / 450 < 100\%$
 No compensation

<System cooling capacity>: Item (2) (c) calculation

Compare the indoor unit total cooling capacity and the outdoor unit maximum cooling capacity. The smaller value is the actual system cooling capacity.

- Indoor unit total cooling capacity: 39.9 kW \Rightarrow System cooling capacity: 39.9 kW
- Outdoor unit maximum cooling capacity: 41.8 kW

<Indoor unit capacity compensation> No compensation (5.7 kW)

Example 2

Cooling (when the indoor unit connected total capacity is 100% or higher)

- Outdoor unit FDC450KXRE6..... 1 Unit
- Indoor unit FDT56KXE6A 10 Units
- Piping length 60 m (Equivalent length)
- Indoor, outdoor unit height difference 15 m (Outdoor unit is higher)
- Temperature conditions Outdoor temperature: 35°C DB
- Temperature conditions Indoor temperature: 18°C WB

<Indoor unit total cooling capacity>: Item (2) (a) calculation.

- Indoor unit rated cooling capacity: 5.6 kW
- Capacity compensation coefficient according to temperature conditions:
 0.95 (Calculated according to Indoor 18°C WB / Outdoor 35°C DB); (See page 160)
 Indoor unit cooling capacity: $5.6 \text{ kW} \times 0.95 = 5.3 \text{ kW}$
- Indoor unit total cooling capacity calculation;
 indoor unit total cooling capacity: $5.3 \text{ kW} \times 10 \text{ units} = \underline{53.0 \text{ kW}}$

<Outdoor unit maximum cooling capacity> : Item (2) (b) calculation

- Outdoor unit rated cooling capacity: 45.0 kW
- Capacity compensation coefficient according to temperature conditions:
 0.95 (Calculated according to Indoor 18°C WB / Outdoor 35°C DB); (See page 160)
 Outdoor unit cooling capacity: $45.0 \text{ kW} \times 0.95 = 42.8 \text{ kW}$
- Capacity compensation coefficient according to piping length: 0.94 (calculated according to 60 m length); (See page 163)
 $42.8 \text{ kW} \times 0.94 = 40.2 \text{ kW}$
- Capacity compensation coefficient according to height difference: 1.0 (the outdoor unit is higher during cooling)
 No compensation
- Capacity compensation coefficient according to indoor unit connected total capacity: $1.05 \leftarrow (56 \times 10) / 450 \approx 120\%$ (See page 168)
 $40.2 \text{ kW} \times 1.05 = \underline{42.2 \text{ kW}}$

<System cooling capacity>: Item (2) (c) calculation

Compare the indoor unit total cooling capacity and the outdoor unit maximum cooling capacity. The smaller value is the actual system cooling capacity.

- Indoor unit total cooling capacity : 53.0 kW \Rightarrow System cooling capacity: 42.2 kW
- Outdoor unit maximum cooling capacity : 42.2 kW

<Indoor unit cooling capacity Compensation>: Item (2) (d) calculation.

$$\frac{42.2 \text{ kW} \times 5.3 \text{ kW}}{53.0 \text{ kW}} = \underline{4.2 \text{ kW}}$$

Example 3

Heating (when the indoor unit connected total capacity is 100% or higher)

- Outdoor unit FDC450KXRE6..... 1 Unit
- Indoor unit FDT56KXE6A 10 Units
- Piping length 60 m (Equivalent length)
- Indoor, outdoor unit height difference 20 m (Outdoor unit is higher)
- Temperature conditions Outdoor temperature: 6°C WB
- Temperature conditions Indoor temperature: 19°C DB

<Indoor unit total heating capacity>: Item (2) (a) calculation.

- Indoor unit rated heating capacity: 6.3 kW
- Capacity compensation coefficient according to temperature conditions:
 1.04 (Calculated according to Outdoor 6°C WB / Indoor 19°C DB); (See page 161)
 Indoor unit heating capacity: $6.3 \text{ kW} \times 1.04 = 6.6 \text{ kW}$
- Indoor unit total heating capacity calculation;
 indoor unit total heating capacity: $6.6 \text{ kW} \times 10 \text{ units} = \underline{66.0 \text{ kW}}$

<Outdoor unit maximum heating capacity> : Item (2) (b) calculation

- Outdoor unit rated heating capacity: 50.0 kW
- Capacity compensation coefficient according to temperature conditions:
1.04 (Calculated according to Outdoor 6°C WB / Indoor 19°C DB); (See page 161)
Outdoor unit heating capacity: $50.0 \text{ kW} \times 1.04 = 52.0 \text{ kW}$
- Capacity compensation coefficient according to piping length: 0.975 (calculated according to 60 m length); (See page 165)
 $52.0 \text{ kW} \times 0.975 \approx 50.7 \text{ kW}$
- Capacity compensation coefficient according to height difference: 0.96 (calculated according to 20 m difference); (See page 165)
 $50.7 \text{ kW} \times 0.96 \approx 48.7 \text{ kW}$
- Correction of heating capacity in relation to the frost on the outdoor unit heat exchanger: 1.0;
 $48.7 \text{ kW} \times 1.0 \approx 48.7 \text{ kW}$.
- Capacity compensation coefficient according to indoor unit connected total capacity: $1.0 \leftarrow (56 \times 10) / 450 \approx 120\%$ (See page 168)
 $48.7 \text{ kW} \times 1.0 \approx 48.7 \text{ kW}$.

<System heating capacity>: Item (2) (c) calculation

Compare the indoor unit total heating capacity and the outdoor unit maximum heating capacity. The smaller value is the actual system heating capacity.

- Indoor unit total heating capacity : 66.0 kW \Rightarrow System heating capacity: 48.7 kW
- Outdoor unit maximum heating capacity : 48.7 kW

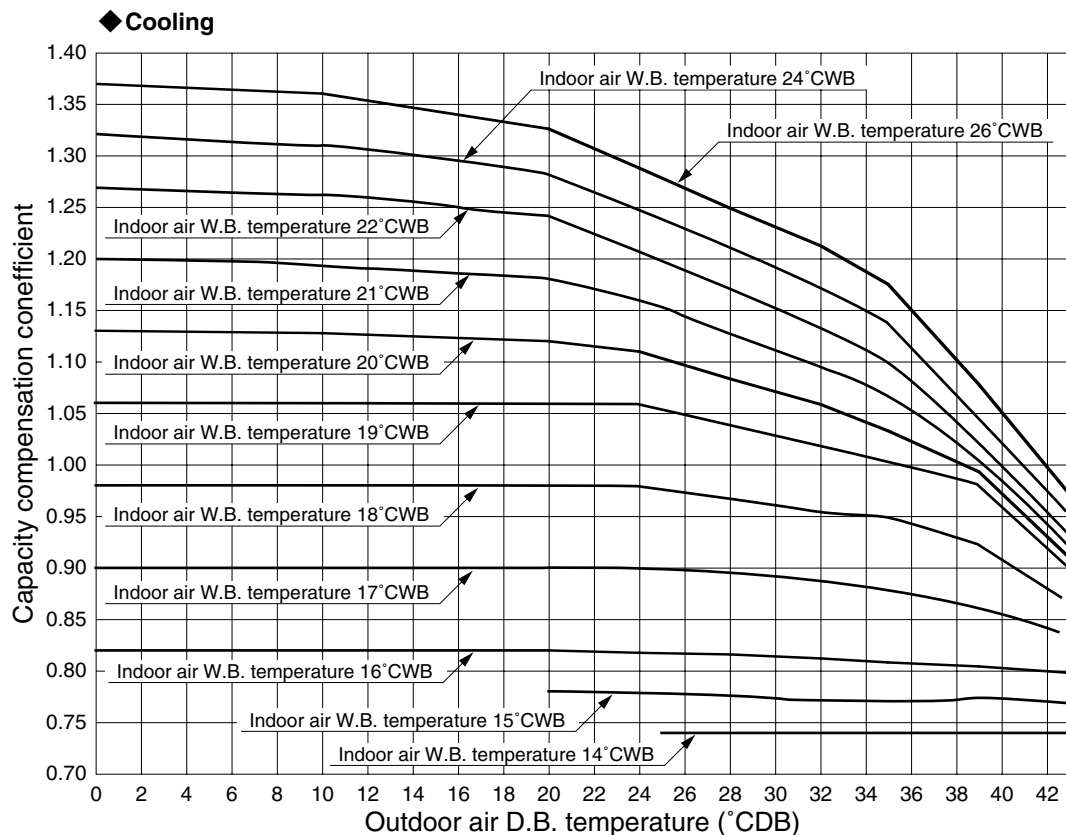
<Indoor unit heating capacity compensation> (Item (2) (d) calculation

$$\frac{48.7 \text{ kW} \times 6.6 \text{ kW}}{66.0 \text{ kW}} \approx 4.9 \text{ kW}$$

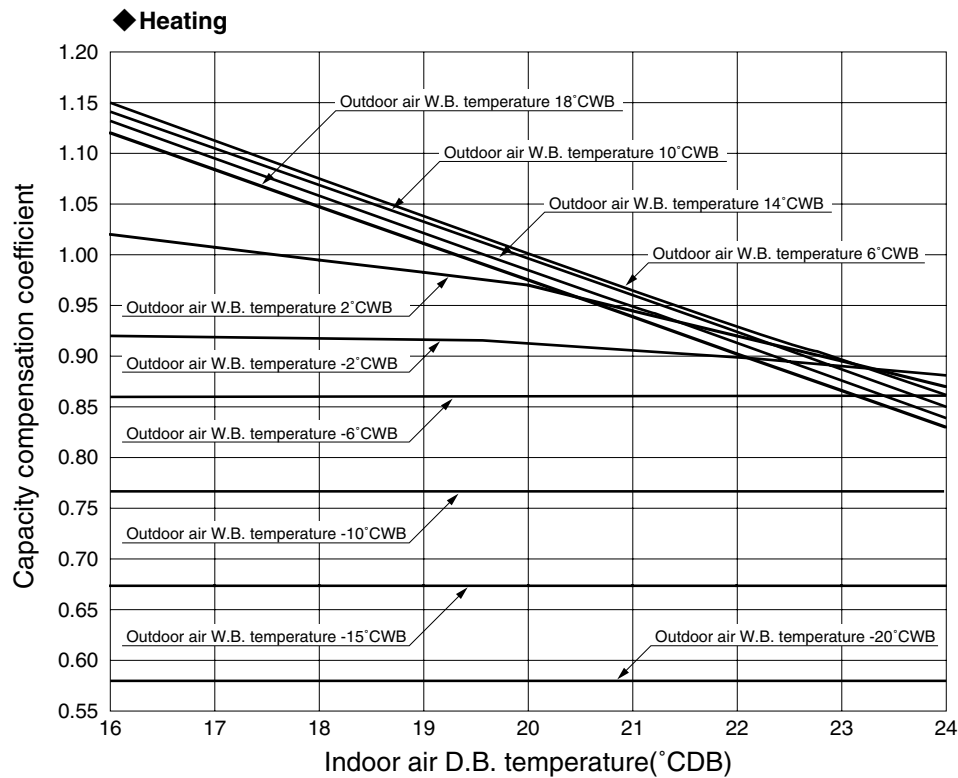
(3) Capacity compensation coefficient

(a) Capacity compensation coefficient and power consumption compensation coefficient according to indoor and outdoor temperature conditions.

1) Capacity compensation coefficient

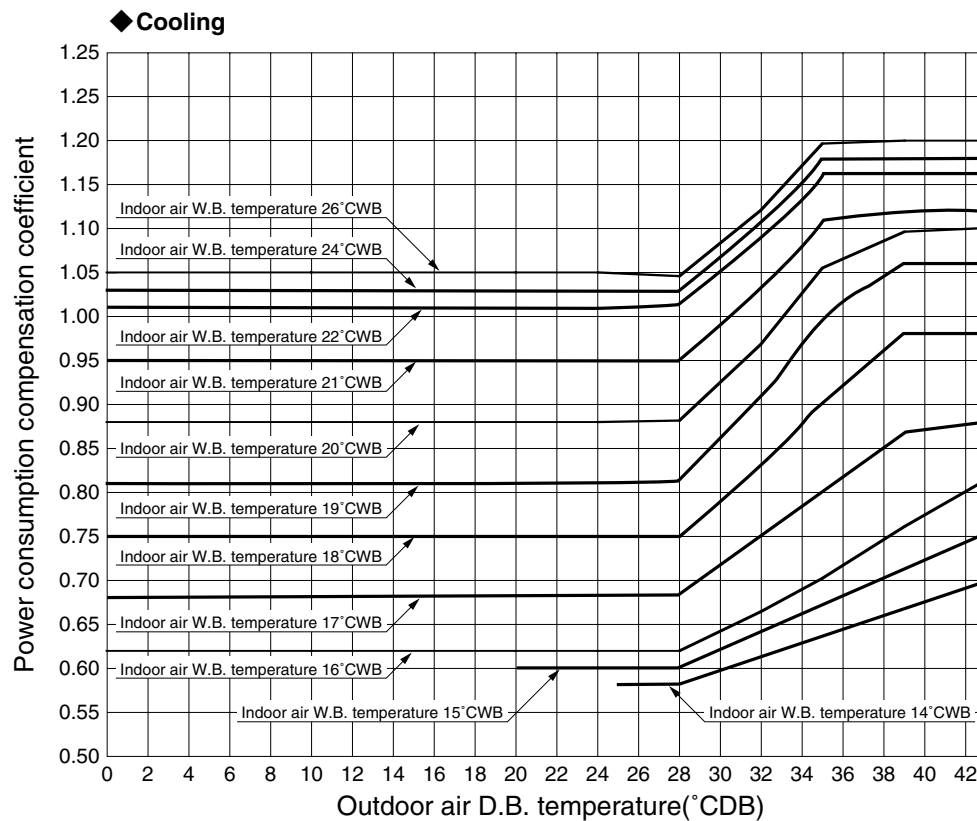


- Note (1) The above-mentioned table shows a typical condition among conditions to occur via controlling an air-conditioning equipment.
(2) When performing the cooling operation with the outdoor air temperature being -5°C or under, a windbreak fence must be installed.



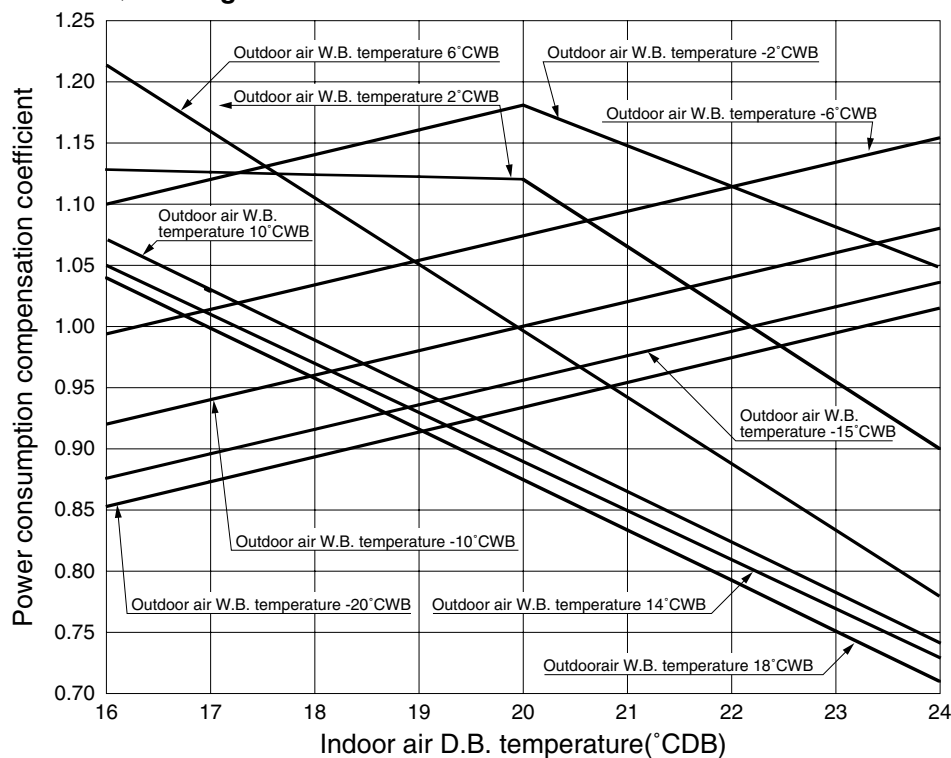
Note (1) The above-mentioned table shows a typical condition among conditions to occur via controlling an air-conditioning equipment.

2) Power consumption correction factor



Note (1) The above-mentioned table shows a typical condition among conditions to occur via controlling an air-conditioning equipment.

◆ Heating

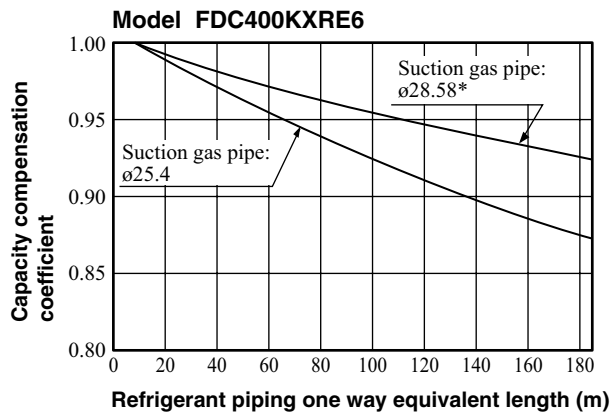
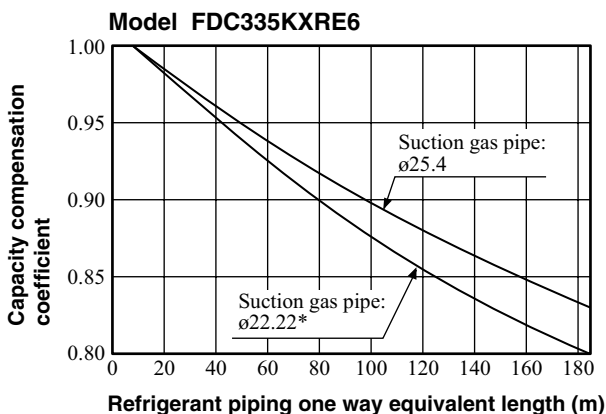
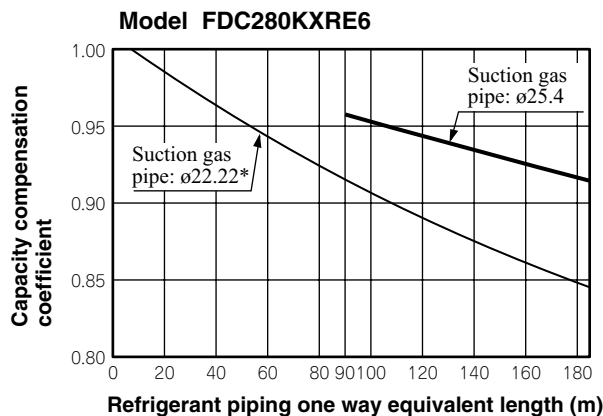
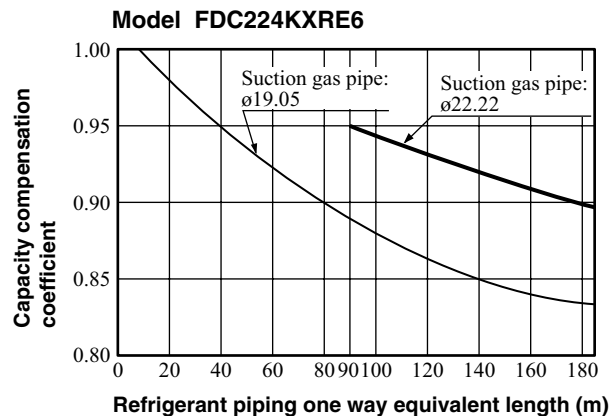


Note (1) The above-mentioned table shows a typical condition among conditions to occur via controlling an air-conditioning equipment.

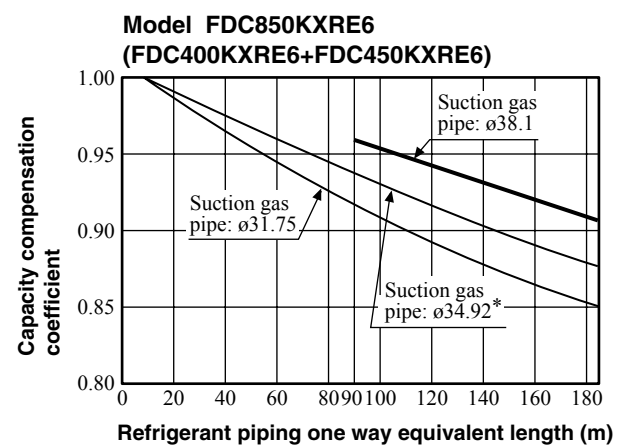
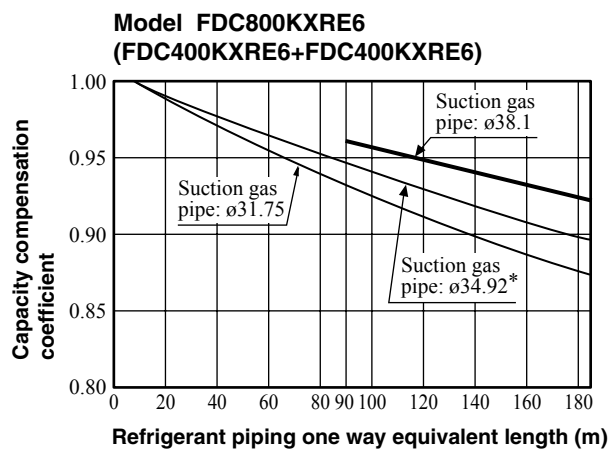
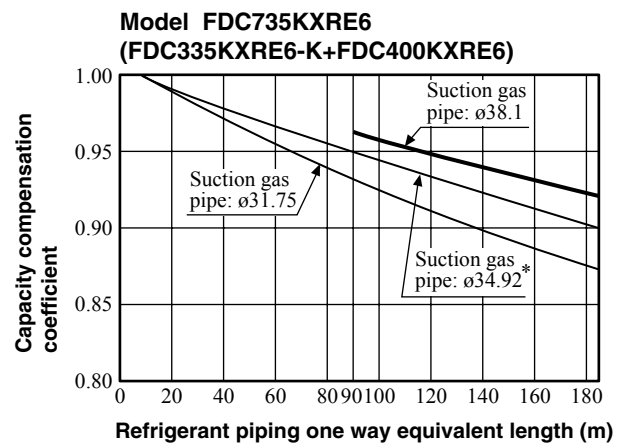
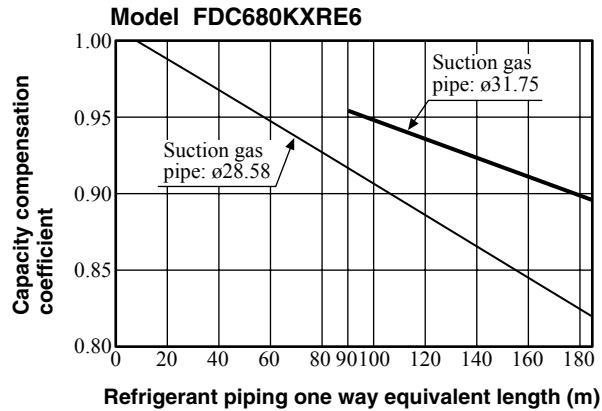
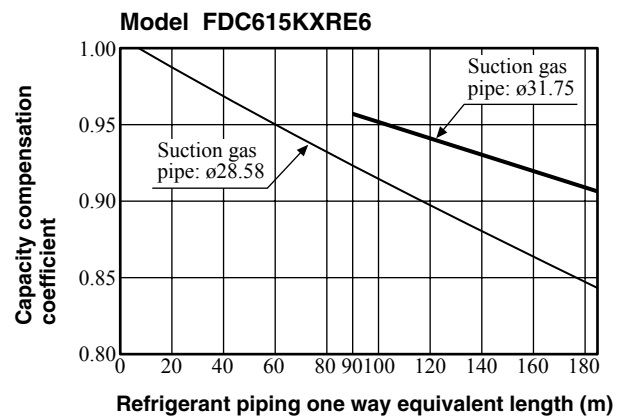
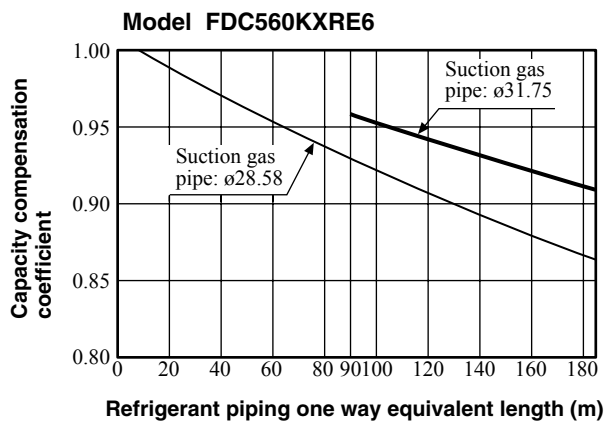
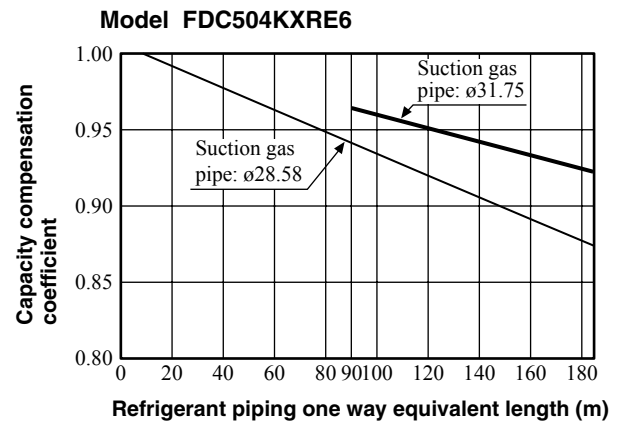
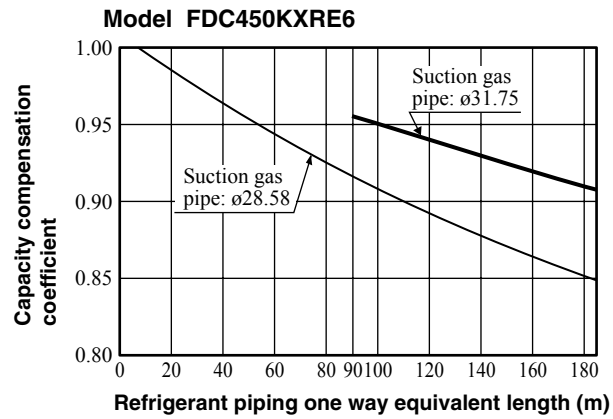
(c) Correction of cooling and heating capacity in relation to one way length of refrigerant piping.

(Note) This table is for reference only. If the refrigerant piping one way equivalent after the first branch is extended longer than 40 m, it could drop further by about 10% in the worst case.

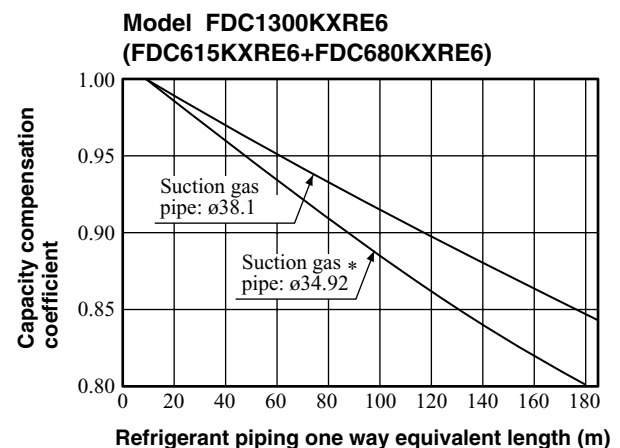
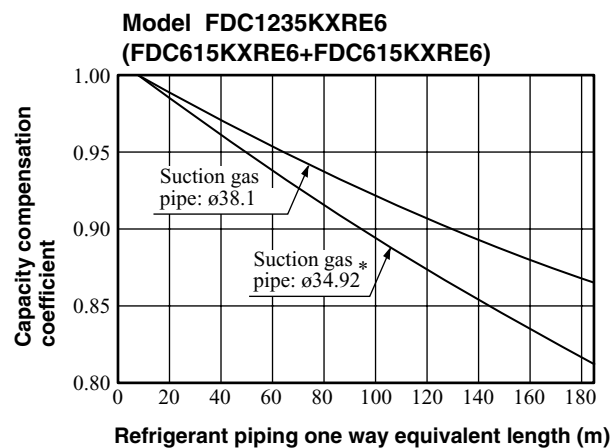
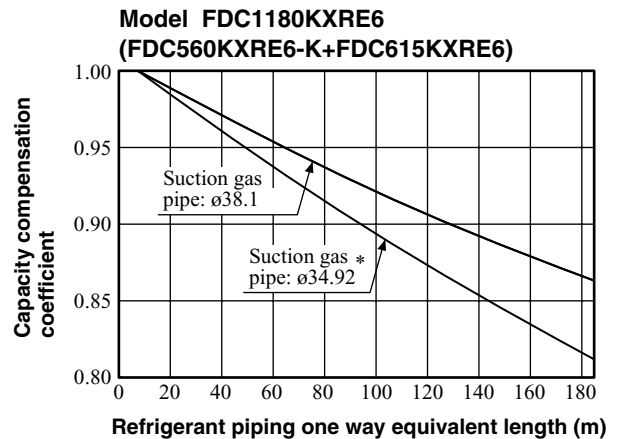
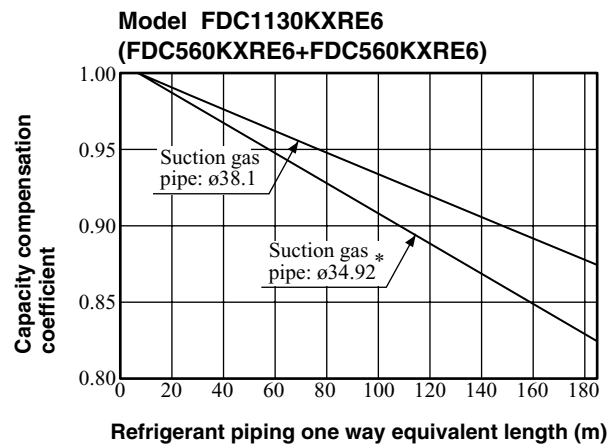
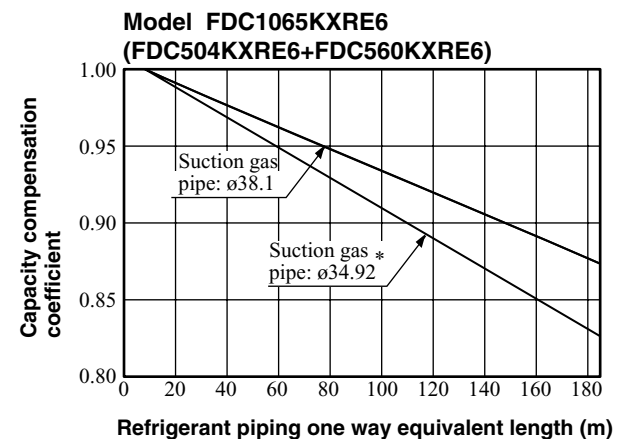
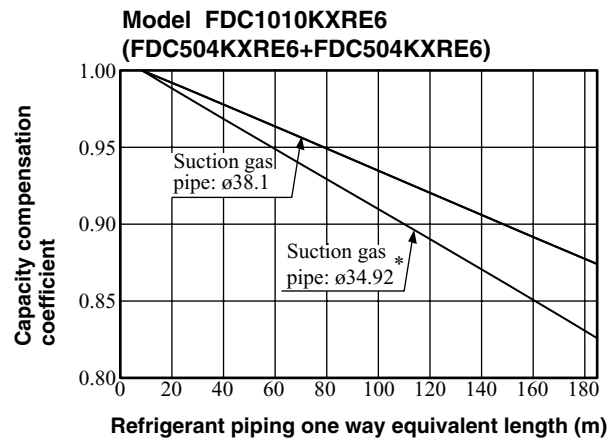
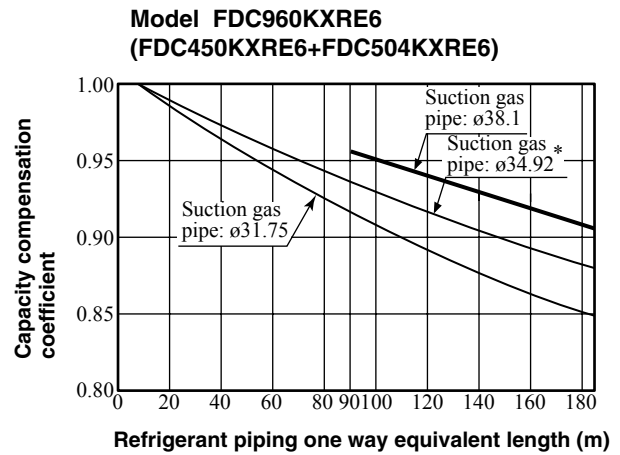
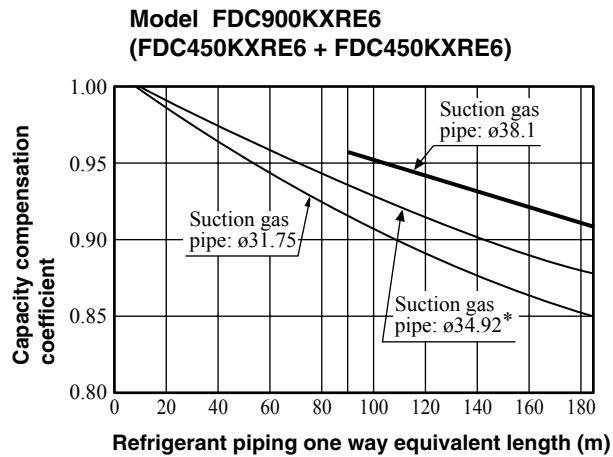
1) Cooling



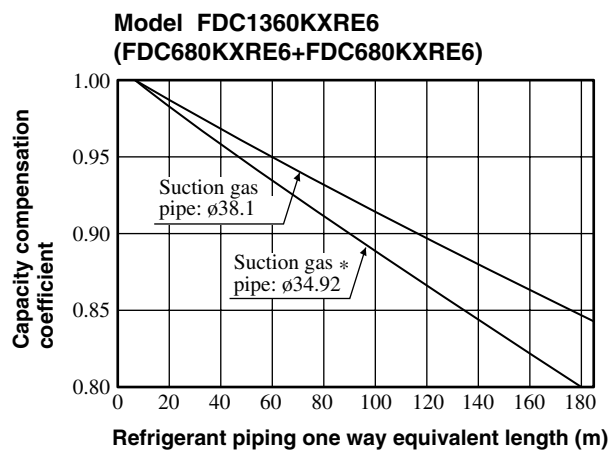
Note (1) Parts with the * mark show the piping size in case used in Europe.



Note (1) Parts with the * mark show the piping size in case used in Europe.

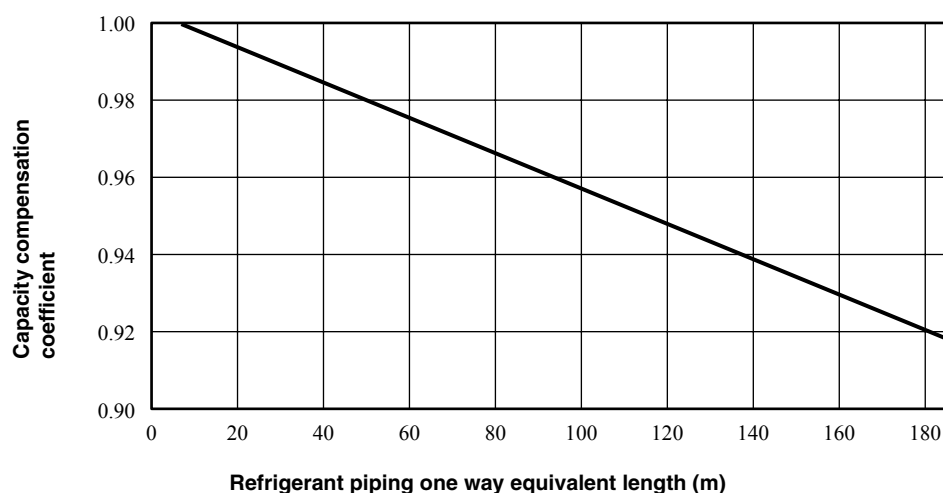


Note (1) Parts with the * mark show the piping size in case used in Europe.



Note (1) Parts with the * mark show the piping size in case used in Europe.

2) Heating (Common)



Note (1) Equivalent piping length can be obtained by calculating as follows.

Equivalent piping length = Real gas piping length + Number of bends in gas piping × Equivalent piping length of bends.

Equivalent length of each joint

Unit : m/one part

Gas piping size	φ9.52	φ12.7	φ15.88	φ19.05	φ22.22	φ25.4	φ28.58	φ31.8	φ34.92	φ38.1
Joint (90°elbow)	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.55	0.60	0.65

- (d) When the outdoor unit is located at a lower height than the indoor unit in cooling operation and when the outdoor unit is located at a higher height than the indoor unit in heating operation, the following values should be subtracted from the values in the above table.

Height difference between the indoor unit and outdoor unit in the vertical height difference	5 m	10 m	15 m	20 m	25 m	30 m
Adjustment coefficient	0.99	0.98	0.97	0.96	0.95	0.94

Height difference between the indoor unit and outdoor unit in the vertical height difference	35 m	40 m	45 m	50 m
Adjustment coefficient	0.93	0.92	0.91	0.90

- (e) Correction of heating capacity in relation to the frost on the outdoor unit heat exchanger

Air inlet temperature of outdoor unit in °C WB	-20	-15	-13	-11	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.96	0.96	0.96	0.95	0.94	0.93	0.91	0.88	0.86	0.87	0.92	1

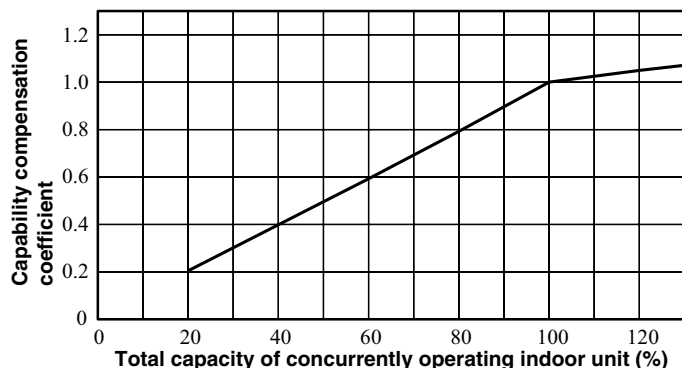
The correction factors will change drastically according to weather conditions. So necessary adjustment should be made empirically according to the weather data of the particular area.

- (f) The capacity compensation coefficient and power consumption compensation coefficient vary according to the total capacity of concurrently operating indoor units, as shown next page.

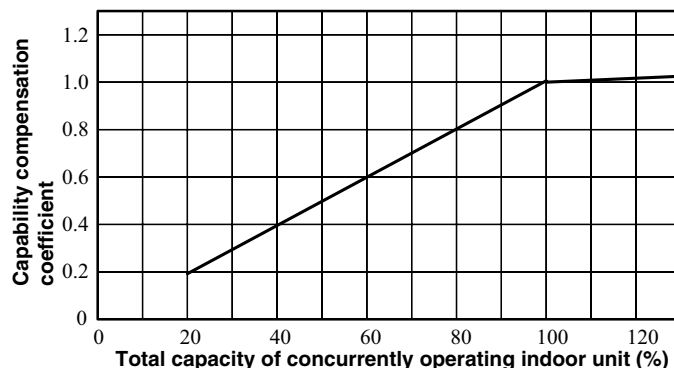
Model FDC224KXRE6

◆ Capability compensation coefficient

Cooling

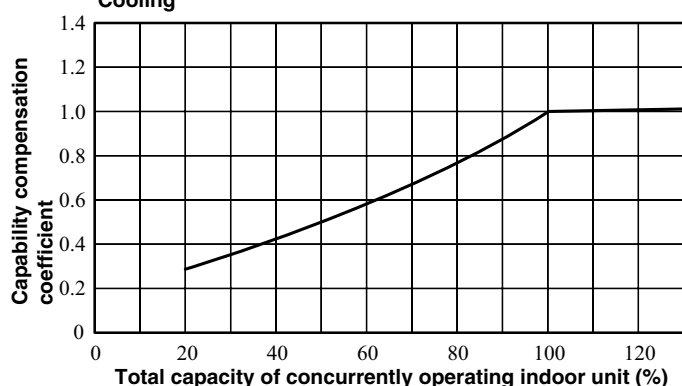


Heating

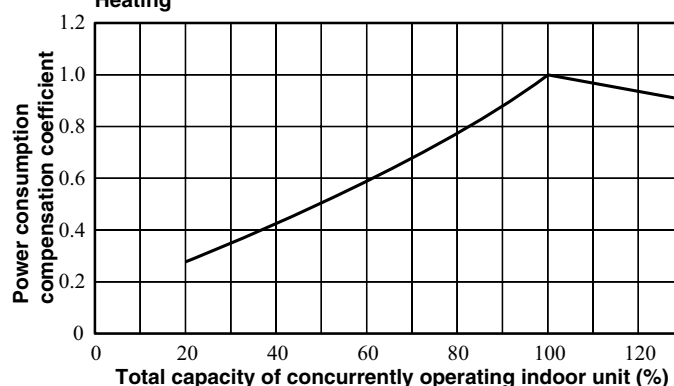


◆ Power consumption compensation coefficient

Cooling



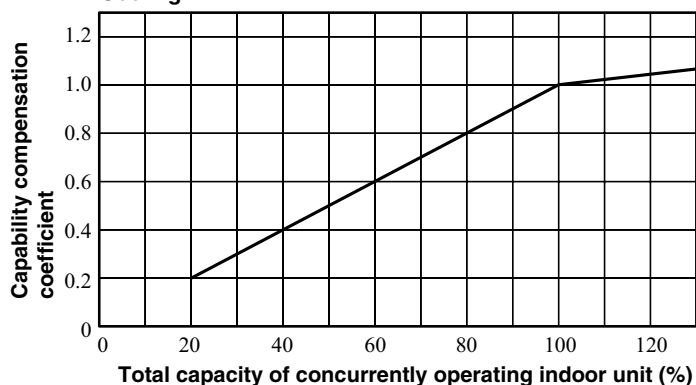
Heating



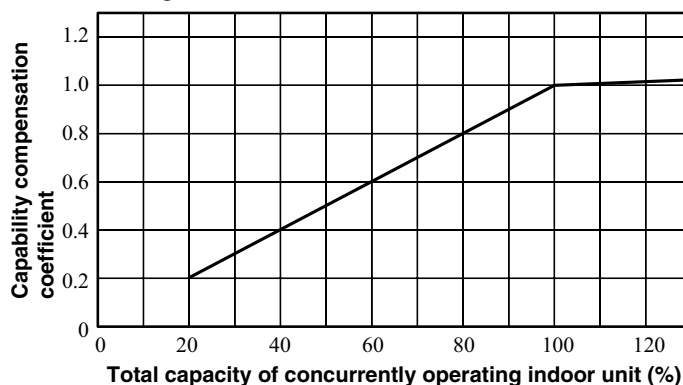
Model FDC280KXRE6

◆ Capability compensation coefficient

Cooling

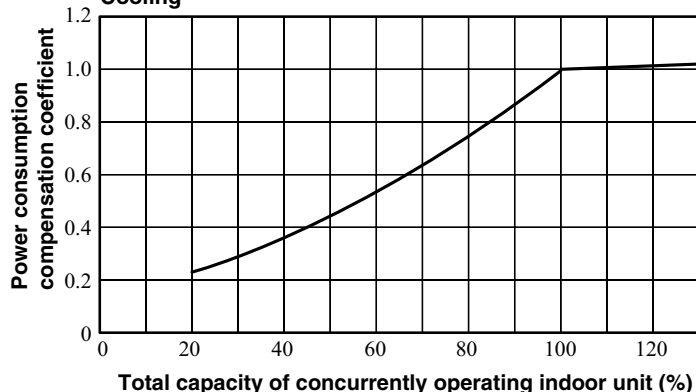


Heating

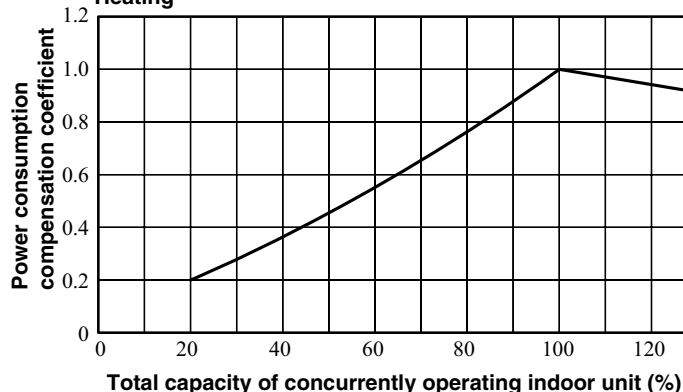


◆ Power consumption compensation coefficient

Cooling



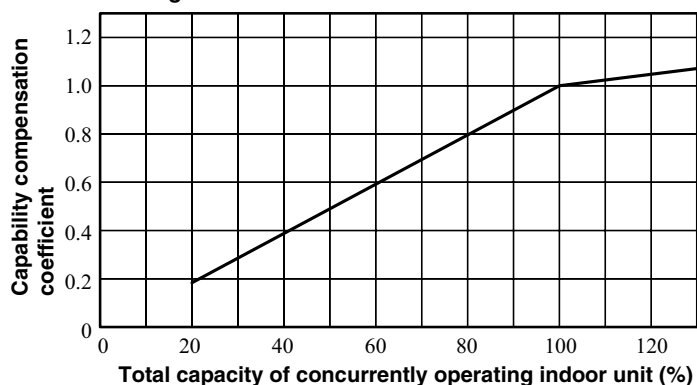
Heating



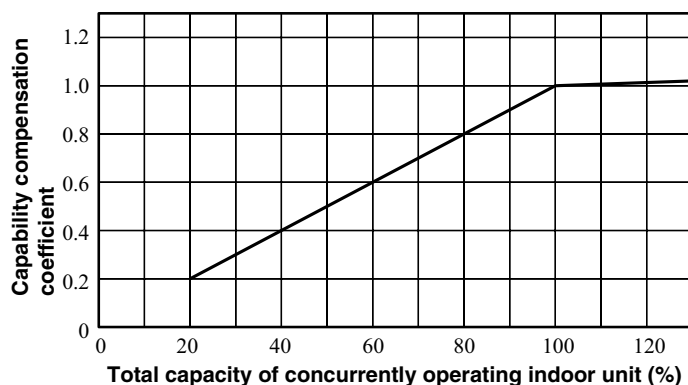
(Note) If the connecting capacity of the indoor unit exceeds 130 %, consider the connecting capacity as 130 %.

Model FDC335KXRE6

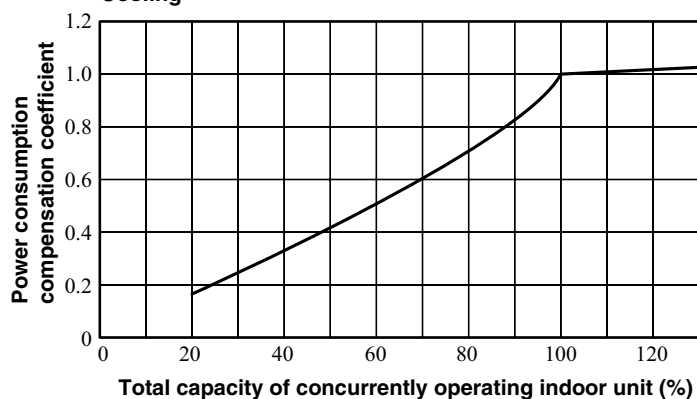
◆ Capability compensation coefficient
Cooling



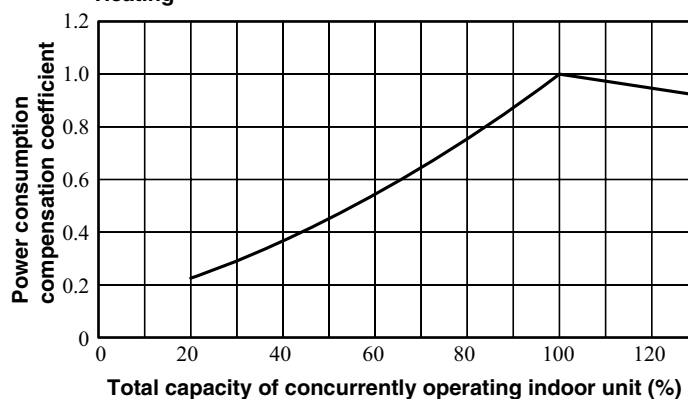
Heating



◆ Power consumption compensation coefficient
Cooling

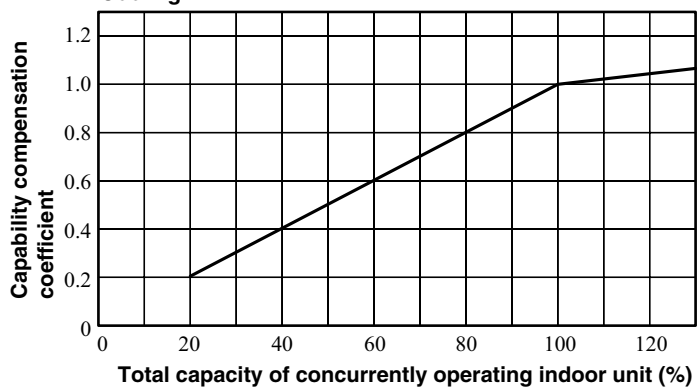


Heating

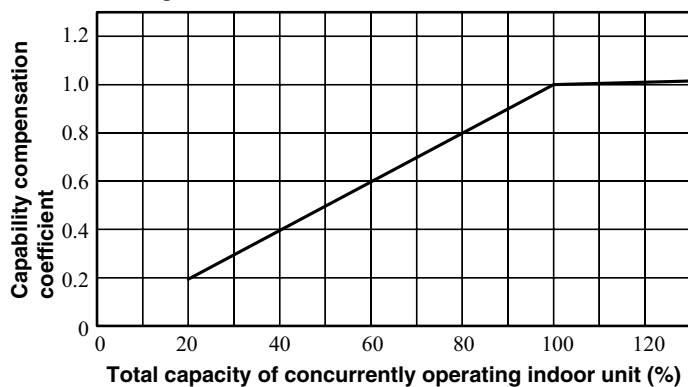


Model FDC400KXRE6

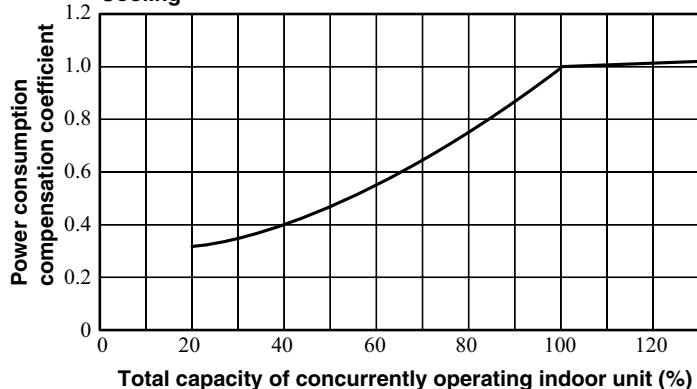
◆ Capability compensation coefficient
Cooling



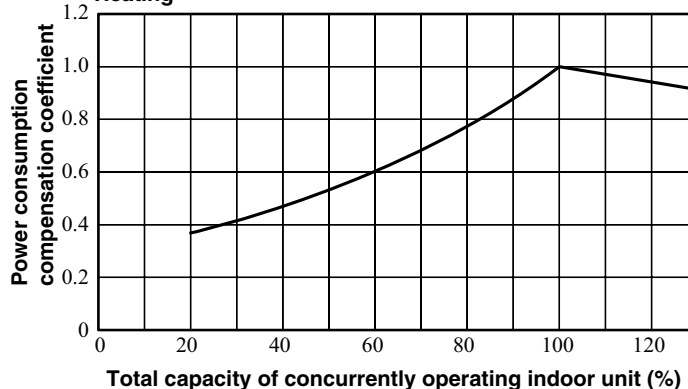
Heating



◆ Power consumption compensation coefficient
Cooling



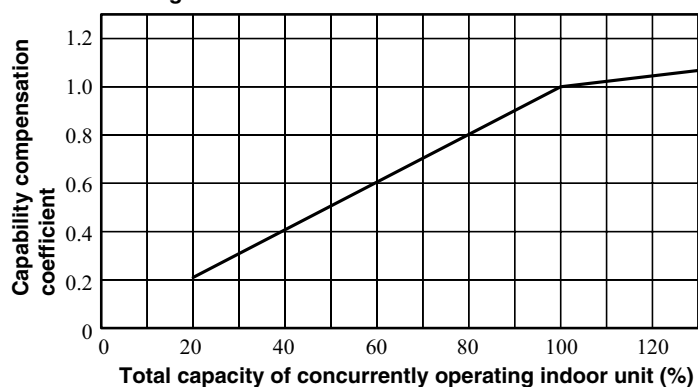
Heating



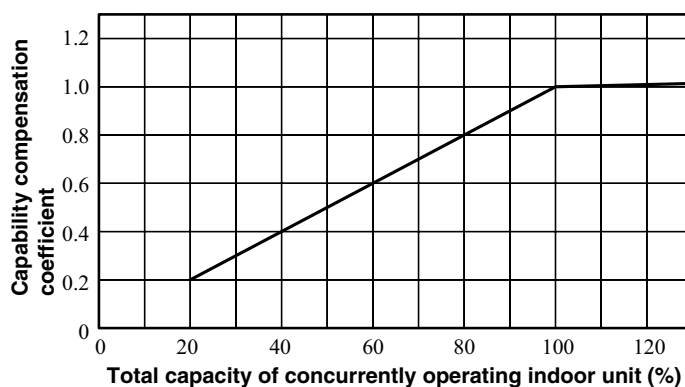
(Note) If the connecting capacity of the indoor unit exceeds 130 %, consider the connecting capacity as 130 %.

Model FDC450KXRE6

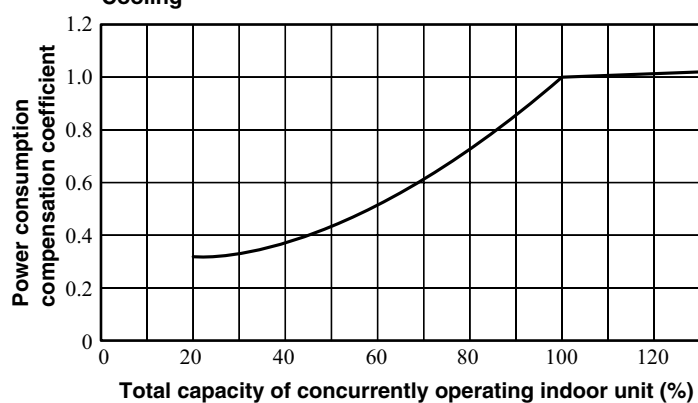
◆ Capability compensation coefficient
Cooling



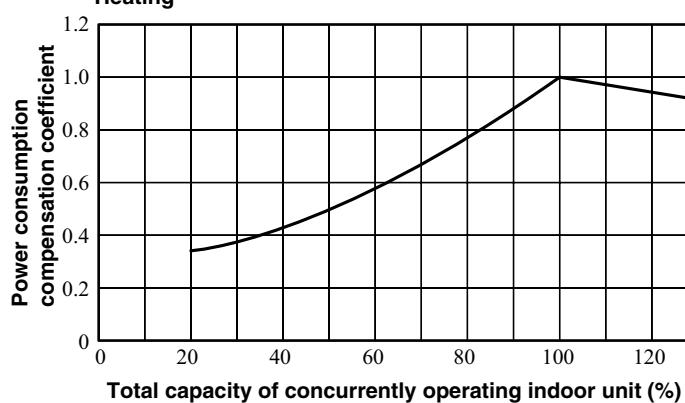
Heating



◆ Power consumption compensation coefficient
Cooling

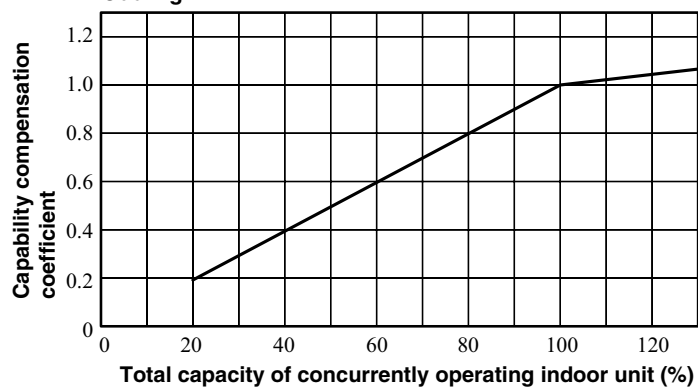


Heating

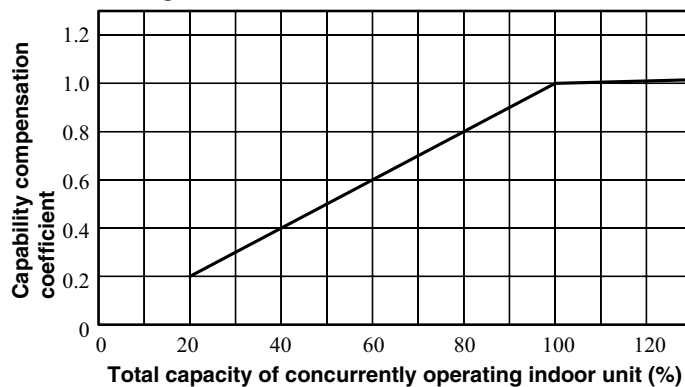


Model FDC504KXRE6

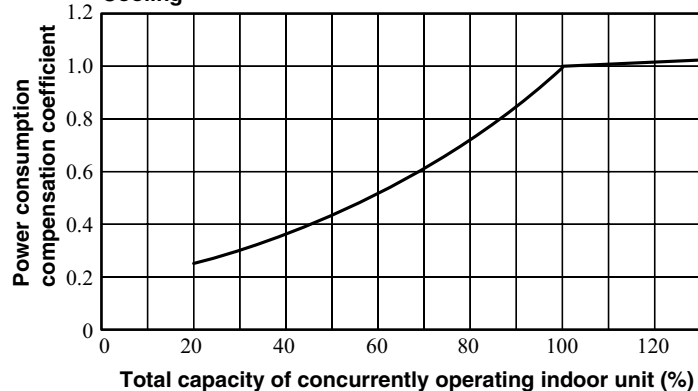
◆ Capability compensation coefficient
Cooling



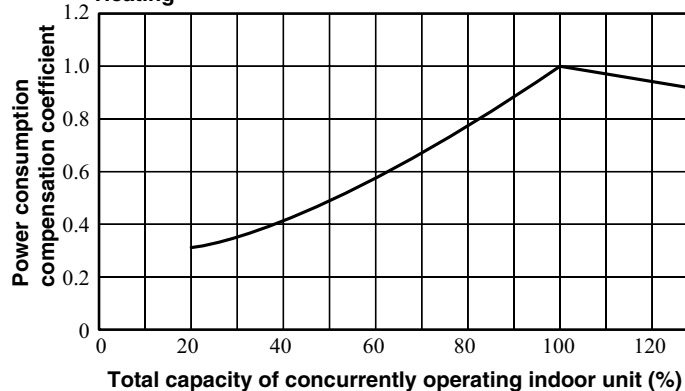
Heating



◆ Power consumption compensation coefficient
Cooling



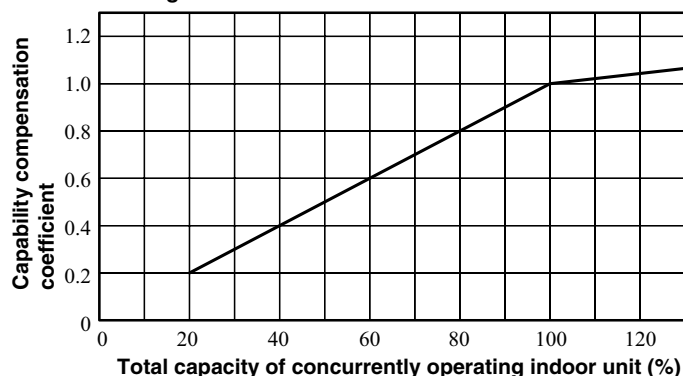
Heating



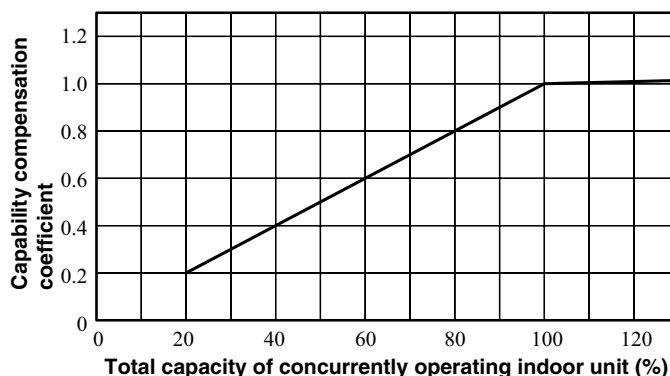
(Note) If the connecting capacity of the indoor unit exceeds 130 %, consider the connecting capacity as 130 %.

Model FDC560KXRE6

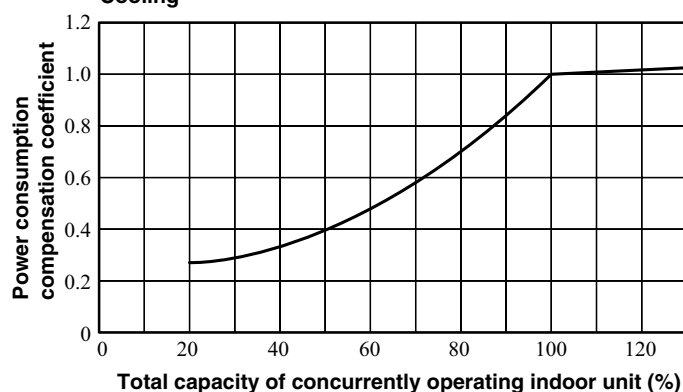
◆ Capability compensation coefficient
Cooling



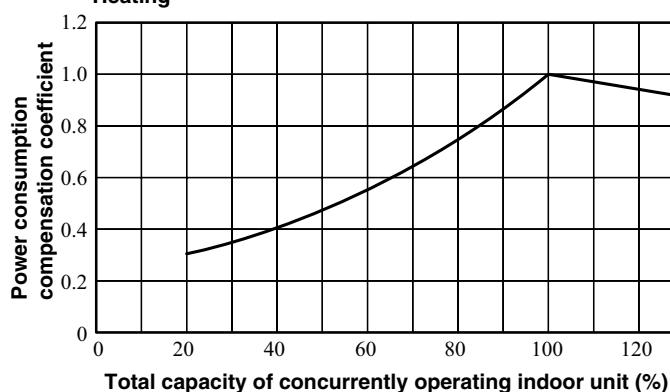
Heating



◆ Power consumption compensation coefficient
Cooling

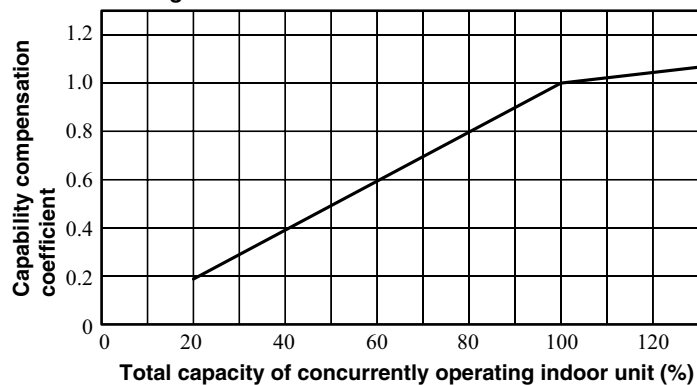


Heating

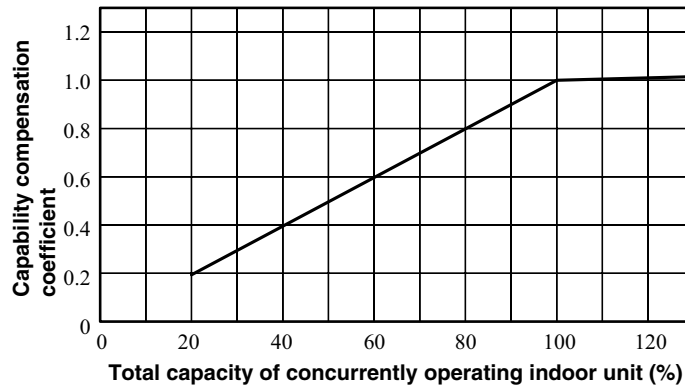


Model FDC615KXRE6

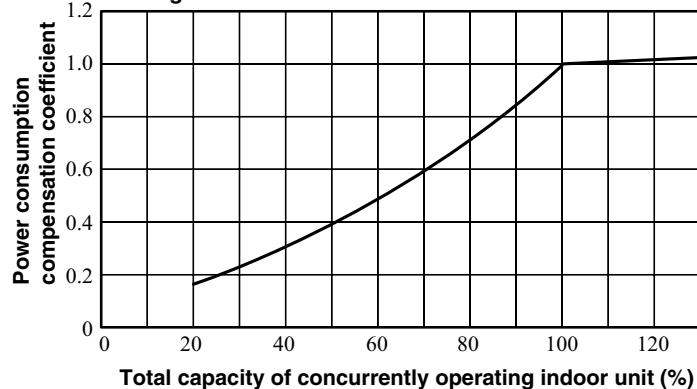
◆ Capability compensation coefficient
Cooling



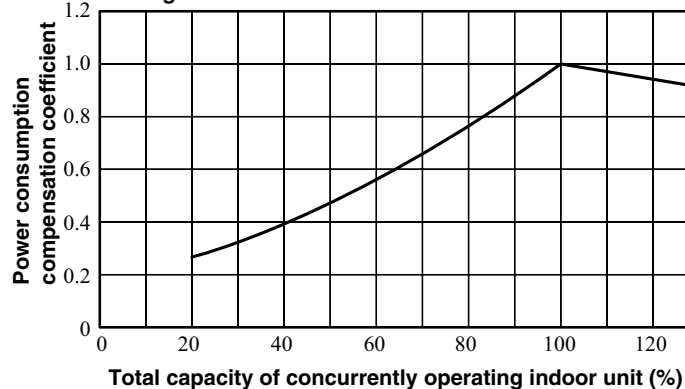
Heating



◆ Power consumption compensation coefficient
Cooling



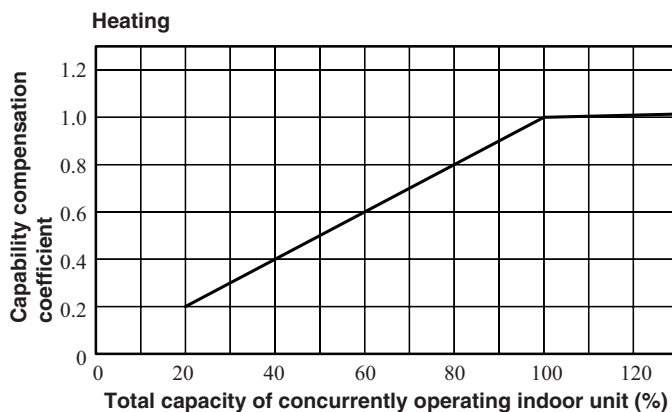
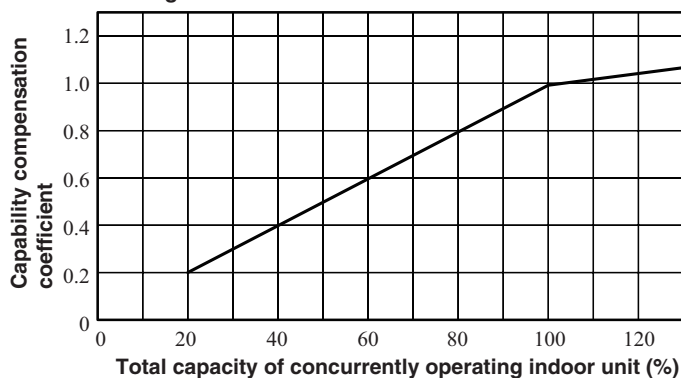
Heating



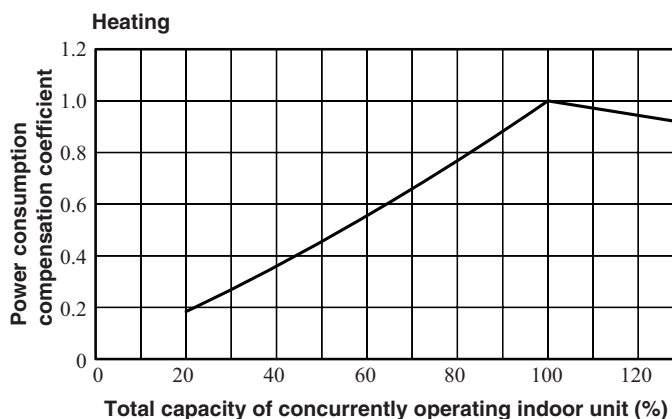
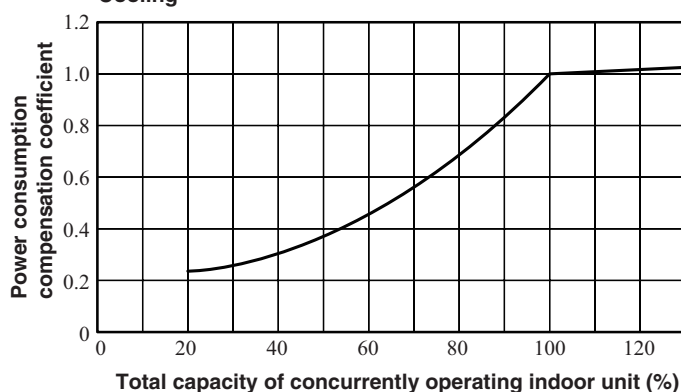
(Note) If the connecting capacity of the indoor unit exceeds 130 %, consider the connecting capacity as 130 %.

Model FDC680KXRE6

- ◆ Capability compensation coefficient

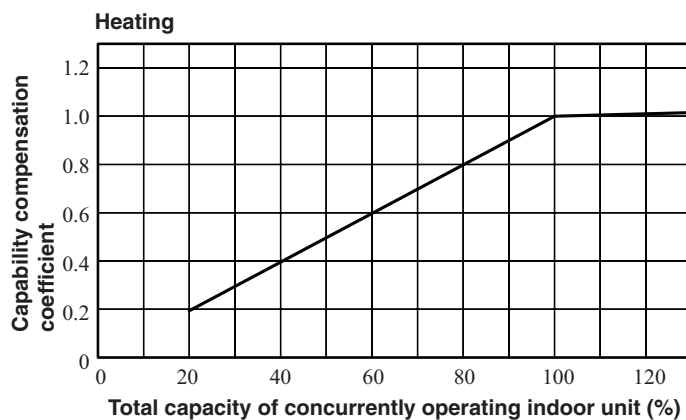
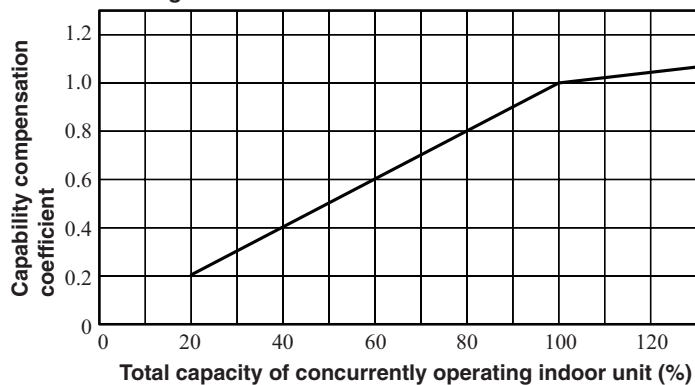


- ◆ Power consumption compensation coefficient

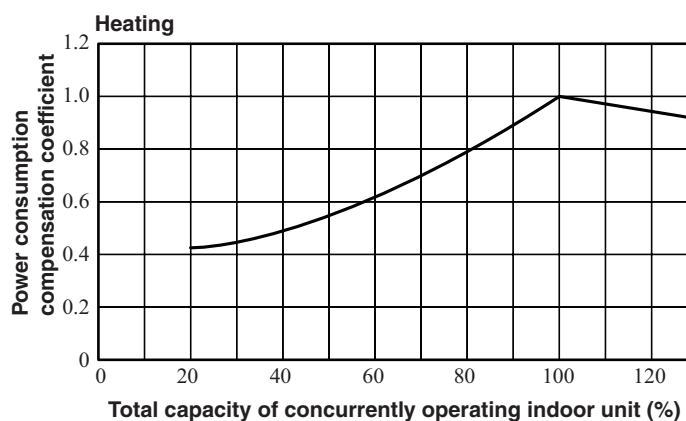
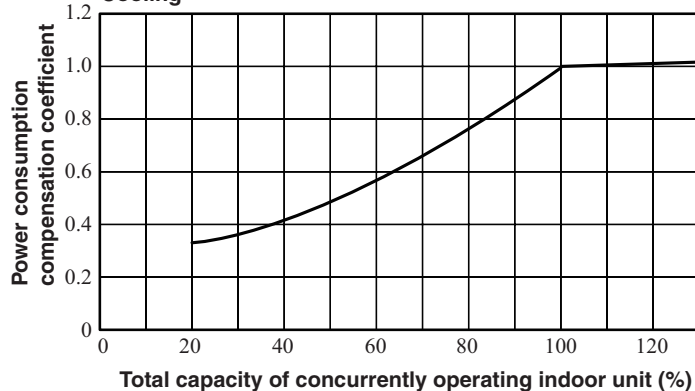


Model FDC735KXRE6

- ◆ Capability compensation coefficient



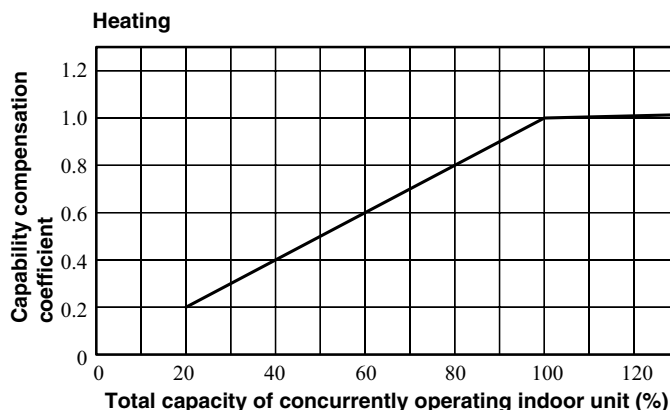
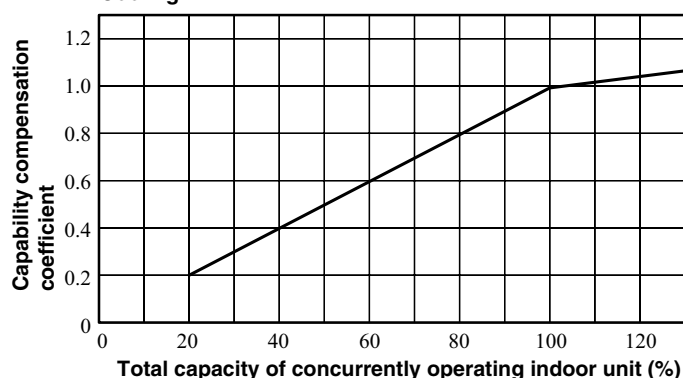
- ◆ Power consumption compensation coefficient



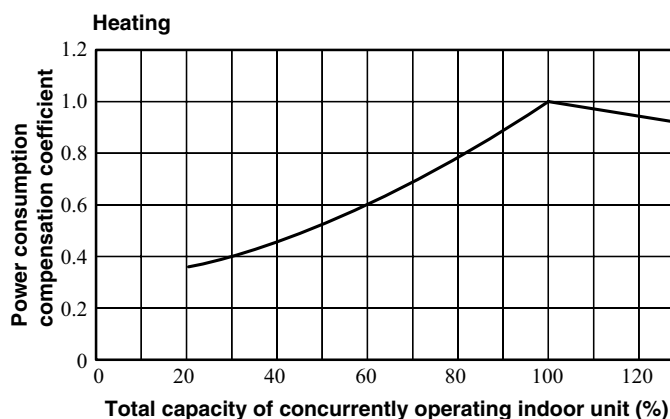
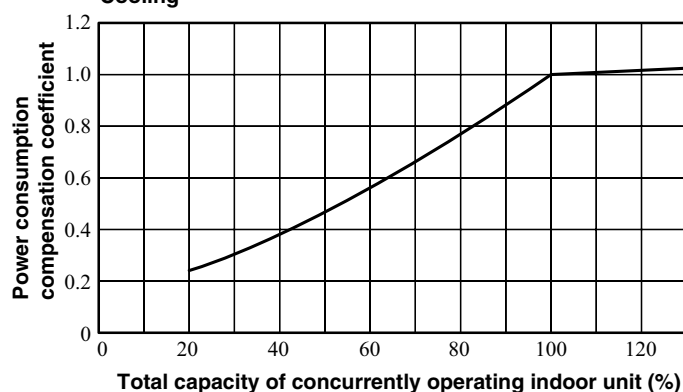
(Note) If the connecting capacity of the indoor unit exceeds 130 %, consider the connecting capacity as 130 %.

Model FDC800KXRE6

- ◆ Capability compensation coefficient

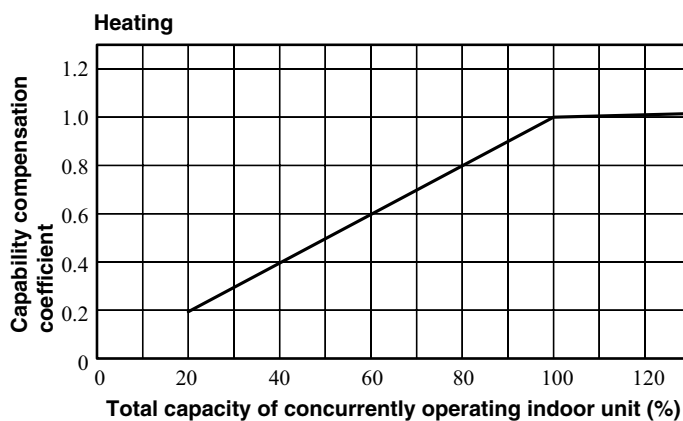
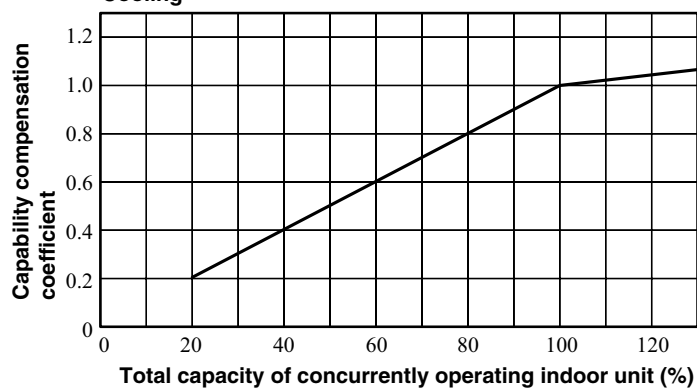


- ◆ Power consumption compensation coefficient

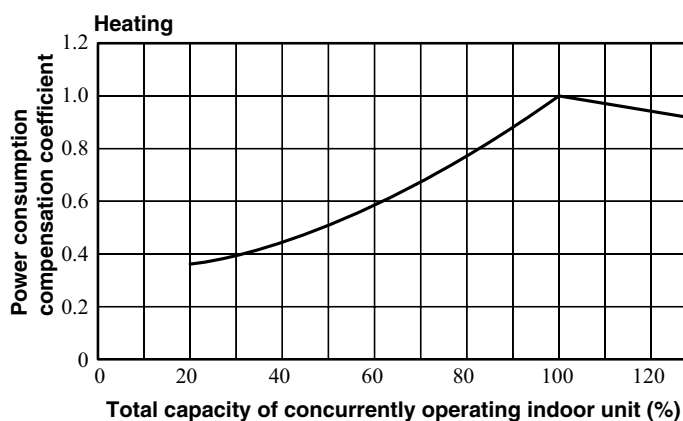
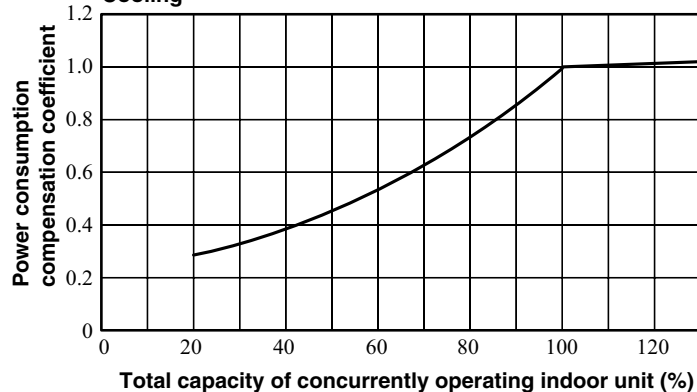


Model FDC850KXRE6

- ◆ Capability compensation coefficient



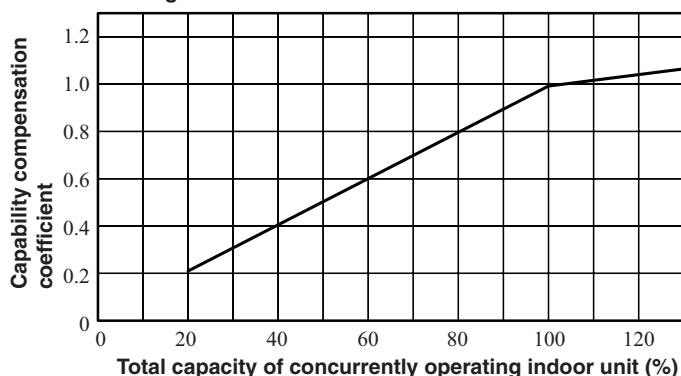
- ◆ Power consumption compensation coefficient



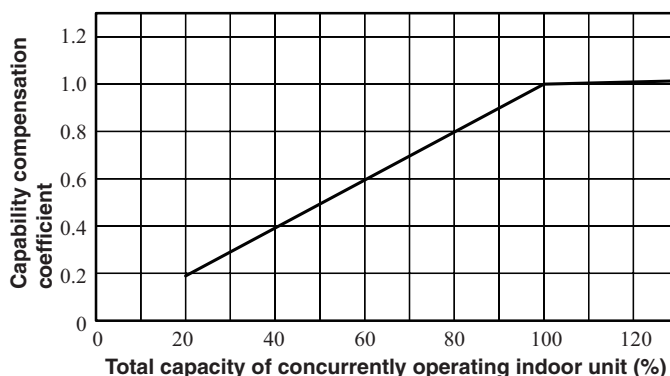
(Note) If the connecting capacity of the indoor unit exceeds 130 %, consider the connecting capacity as 130 %.

Model FDC900KXRE6

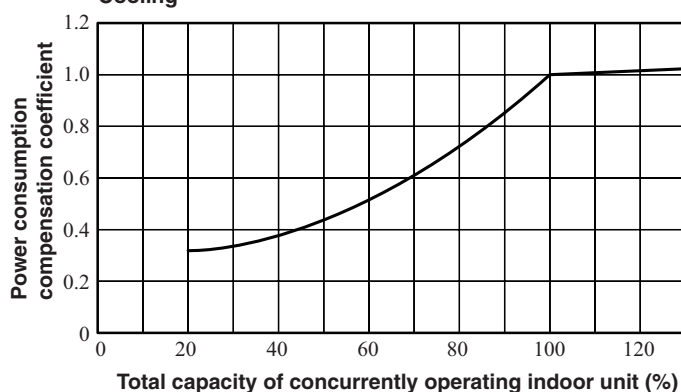
◆ Capability compensation coefficient Cooling



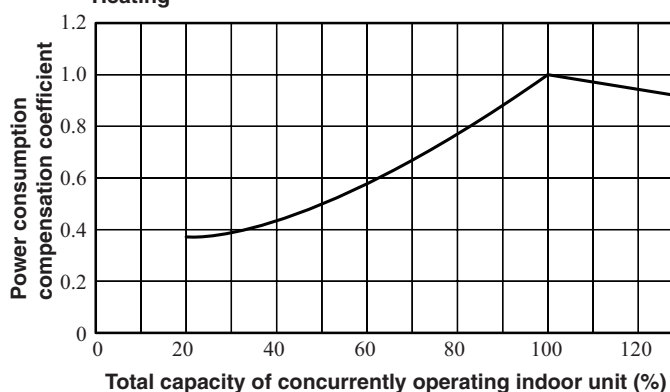
Heating



◆ Power consumption compensation coefficient Cooling

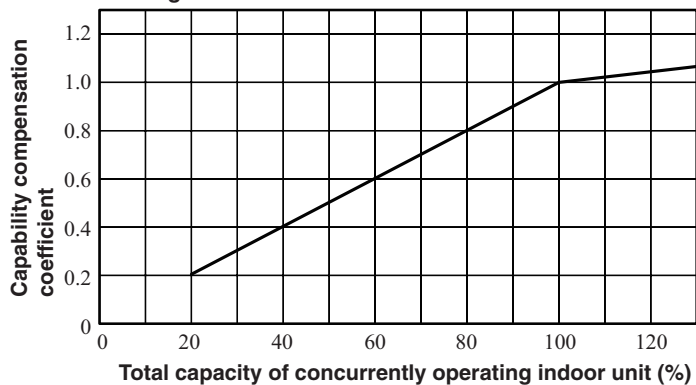


Heating

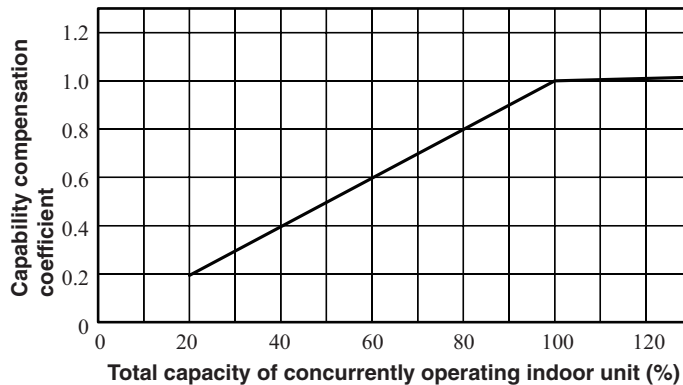


Model FDC960KXRE6

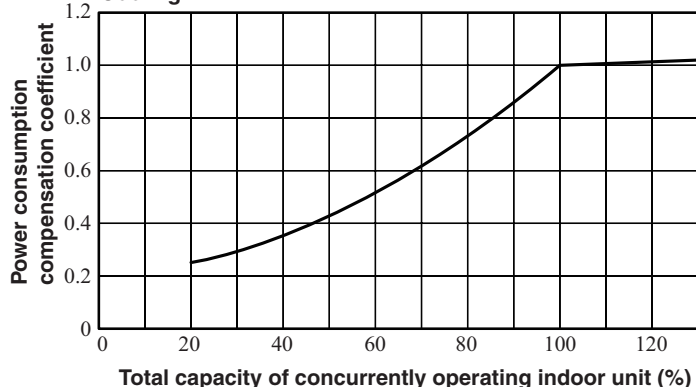
◆ Capability compensation coefficient Cooling



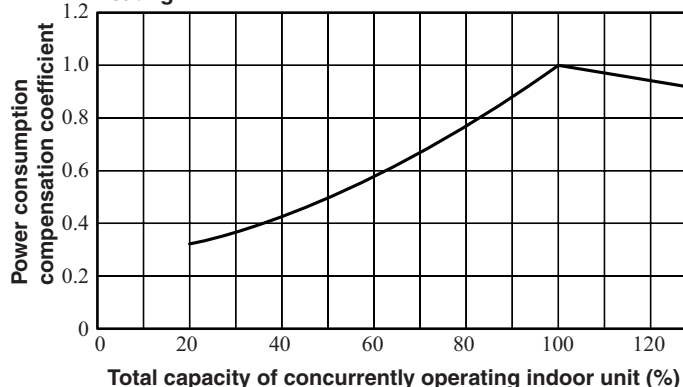
Heating



◆ Power consumption compensation coefficient Cooling



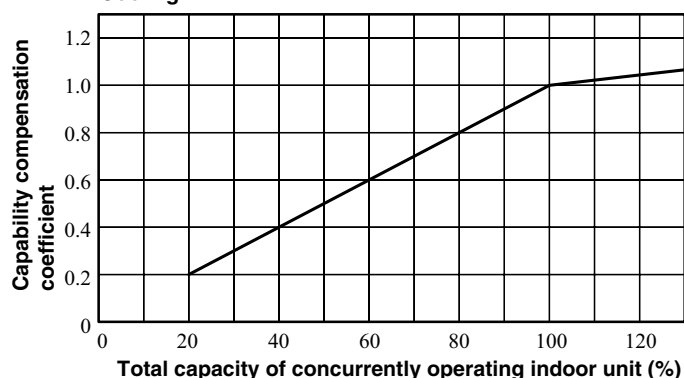
Heating



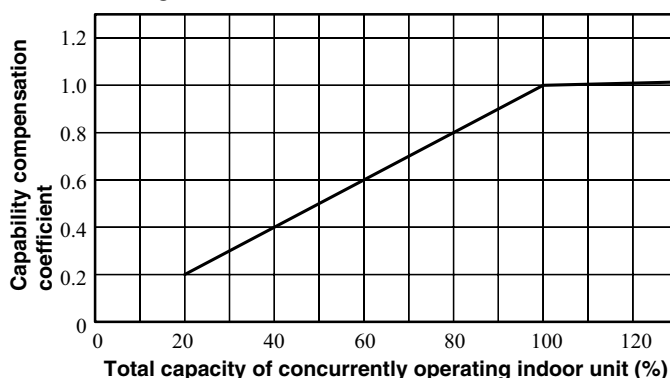
(Note) If the connecting capacity of the indoor unit exceeds 130 %, consider the connecting capacity as 130 %.

Model FDC1010KXRE6

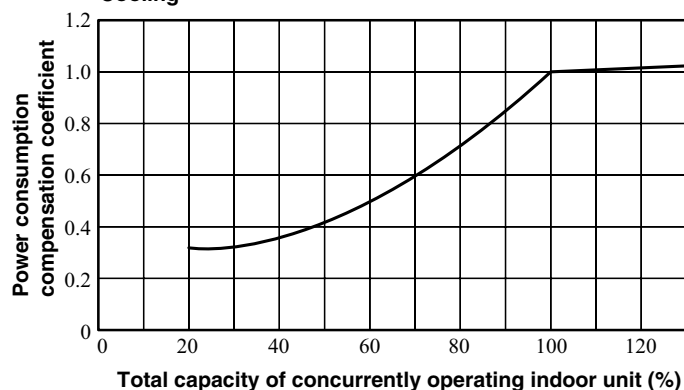
◆ Capability compensation coefficient
Cooling



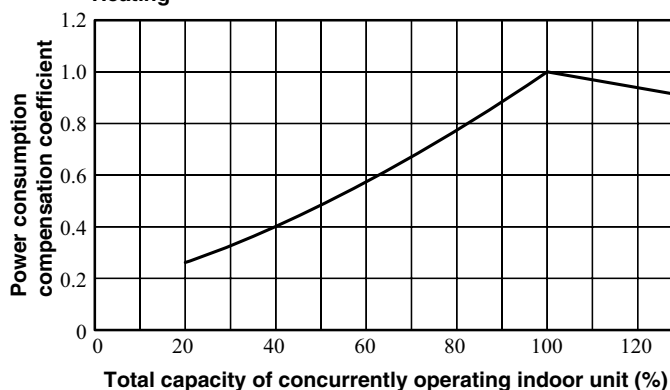
Heating



◆ Power consumption compensation coefficient
Cooling

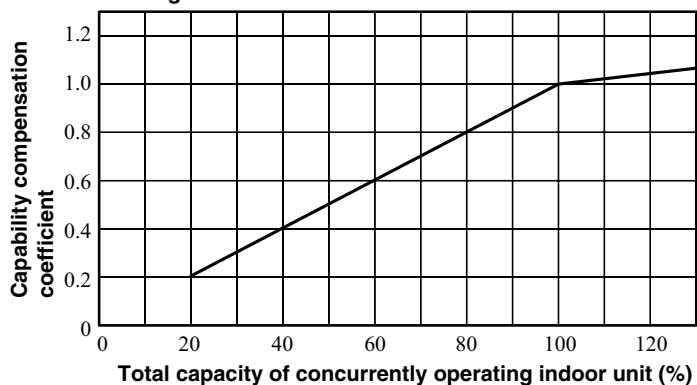


Heating

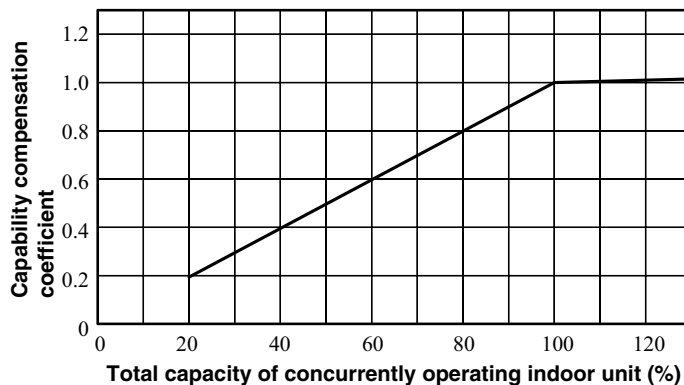


Model FDC1065KXRE6

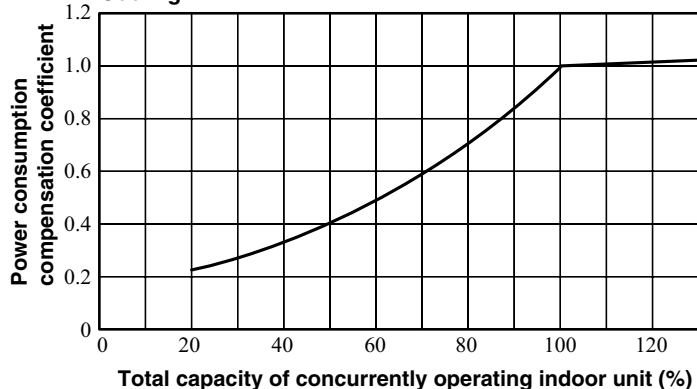
◆ Capability compensation coefficient
Cooling



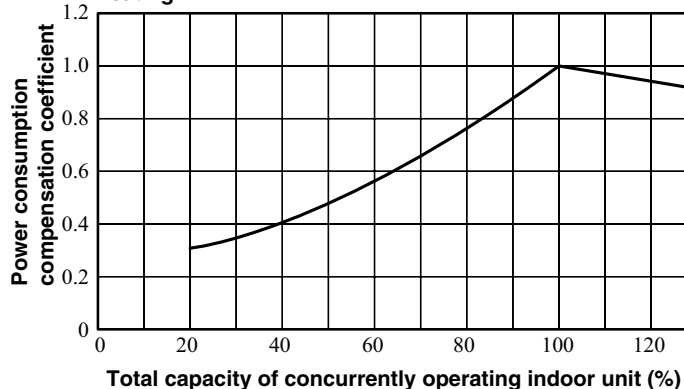
Heating



◆ Power consumption compensation coefficient
Cooling

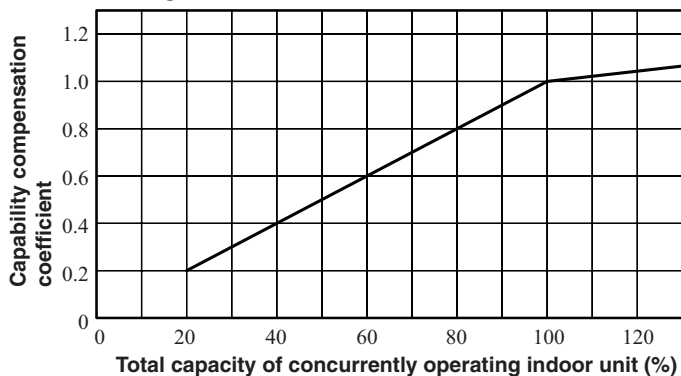


Heating

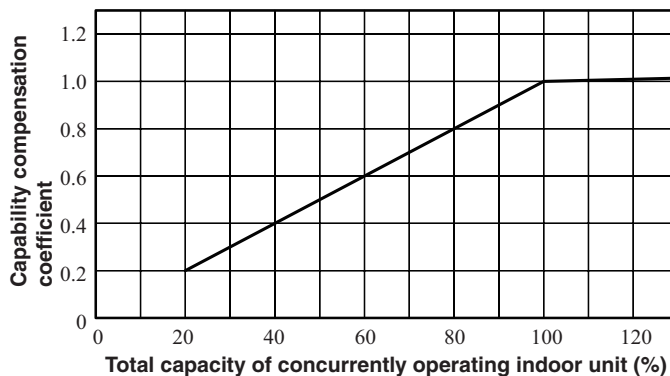


Model FDC1130KXRE6

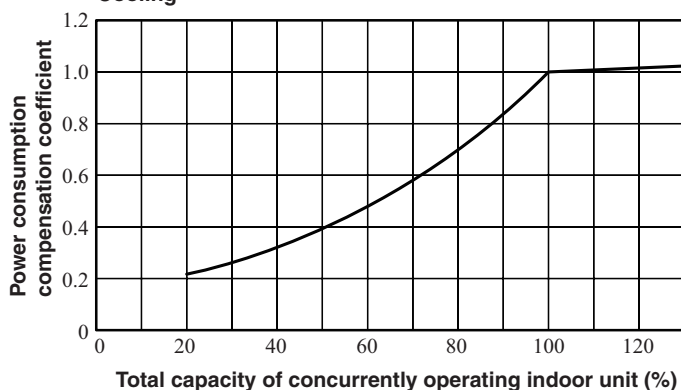
◆ Capability compensation coefficient
Cooling



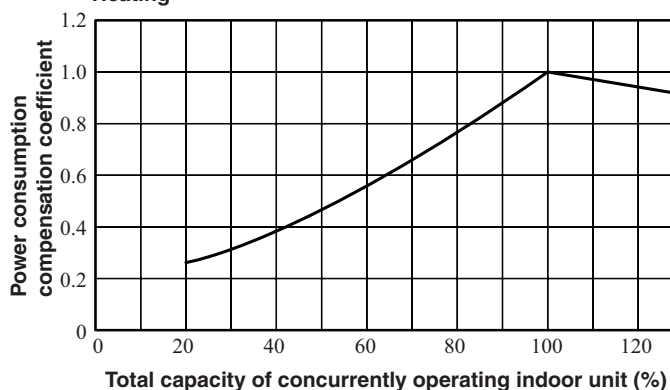
Heating



◆ Power consumption compensation coefficient
Cooling

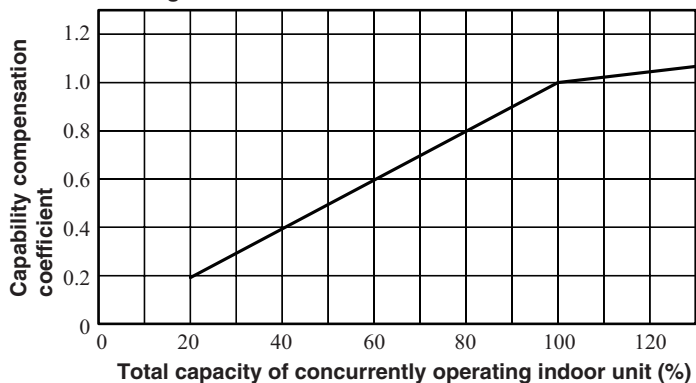


Heating

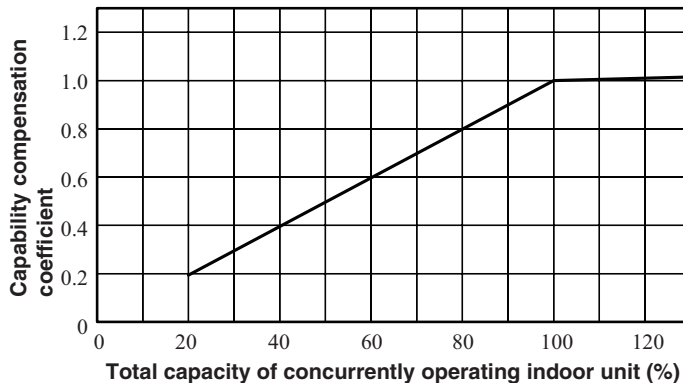


Model FDC1180KXRE6

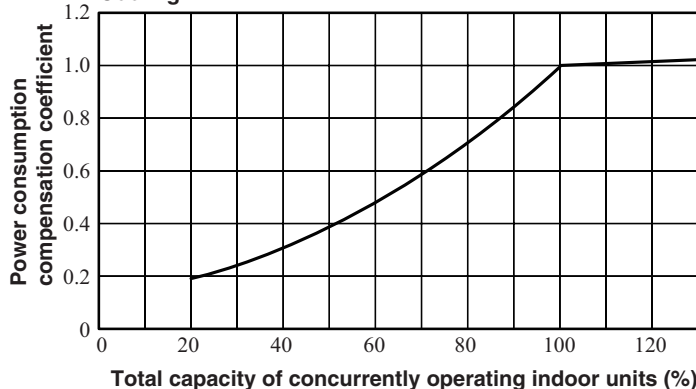
◆ Capability compensation coefficient
Cooling



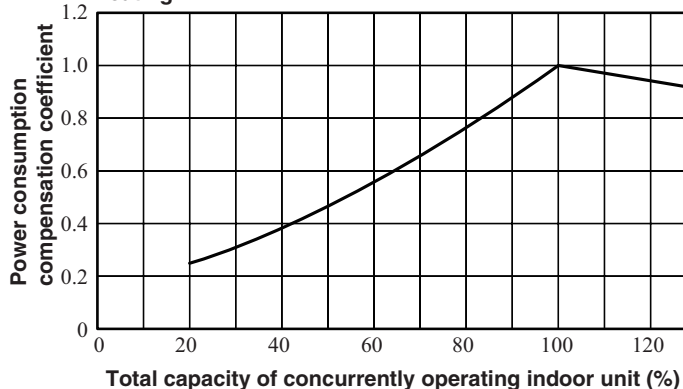
Heating



◆ Power consumption compensation coefficient
Cooling

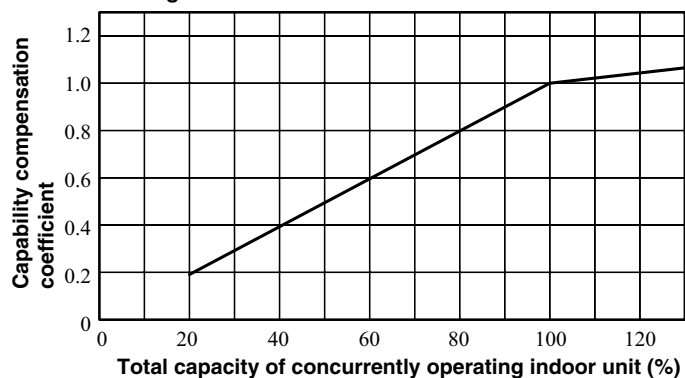


Heating

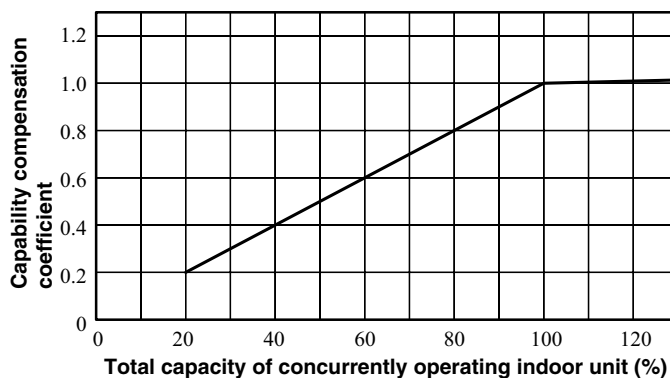


Model FDC1235KXRE6

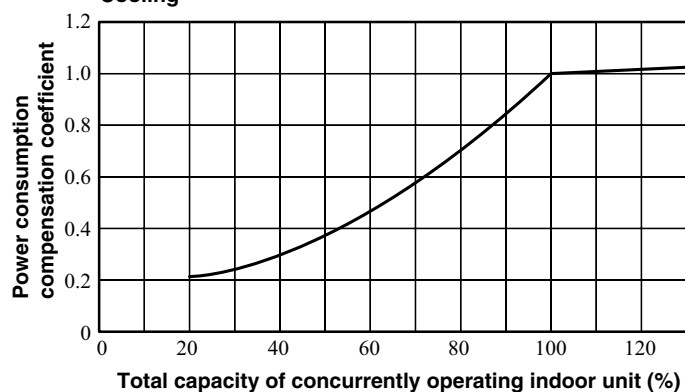
◆ Capability compensation coefficient
Cooling



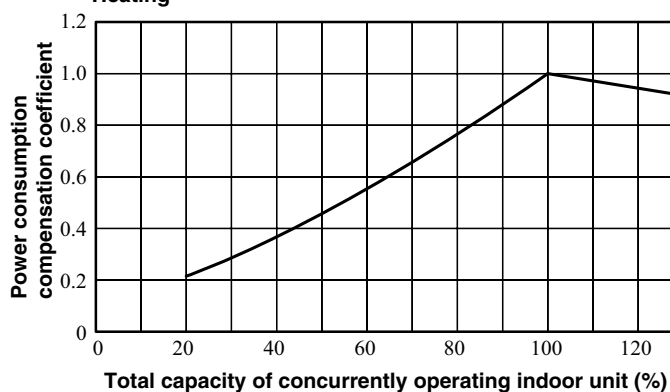
Heating



◆ Power consumption compensation coefficient
Cooling

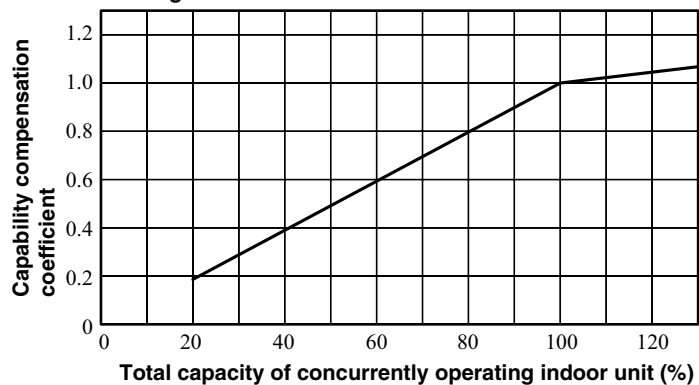


Heating

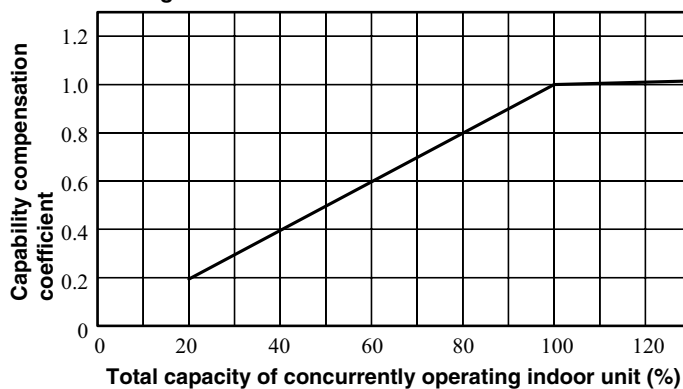


Model FDC1300KXRE6

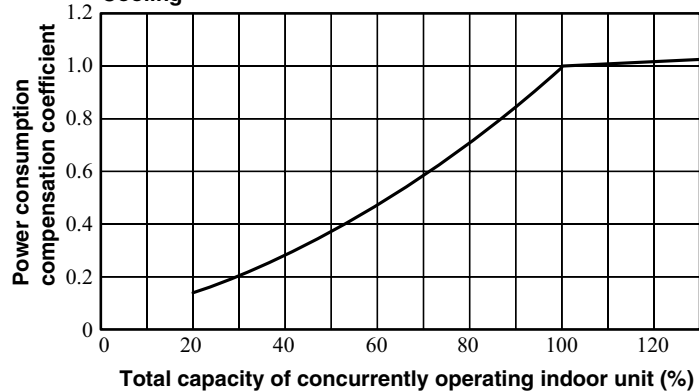
◆ Capability compensation coefficient
Cooling



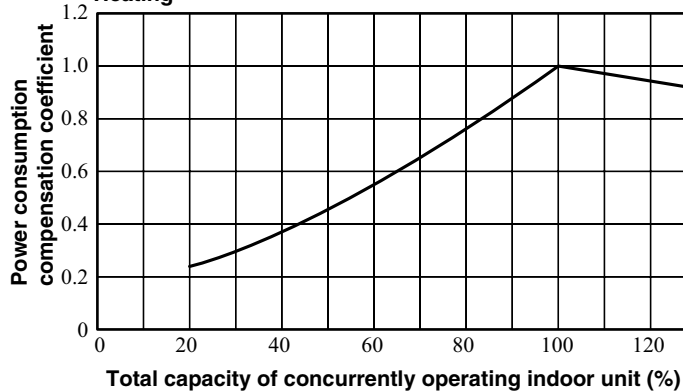
Heating



◆ Power consumption compensation coefficient
Cooling

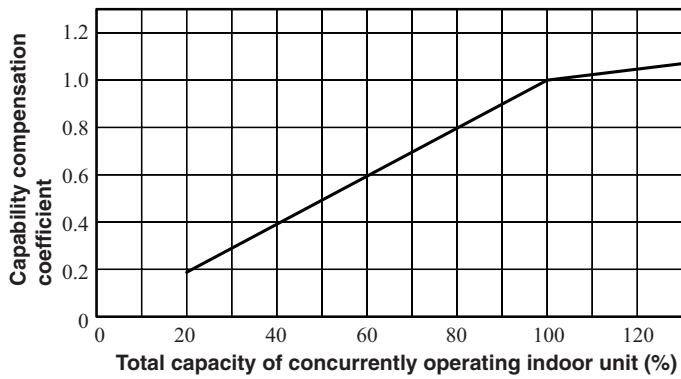


Heating

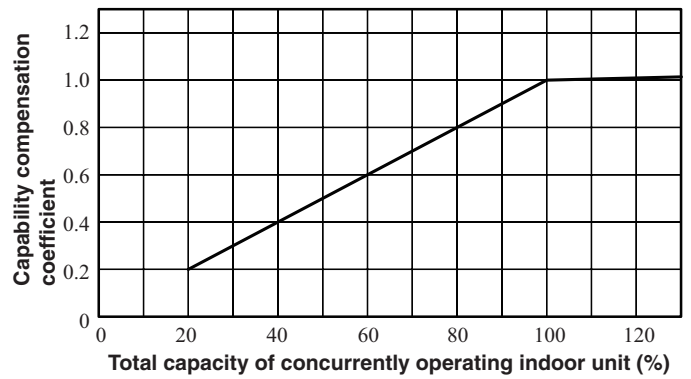


Model FDC1360KXRE6

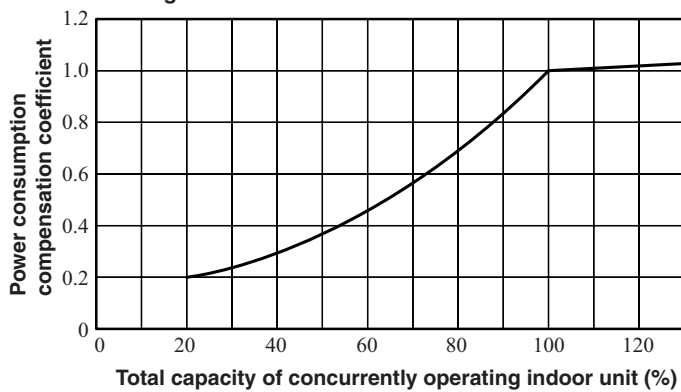
◆ **Capability compensation coefficient**
Cooling



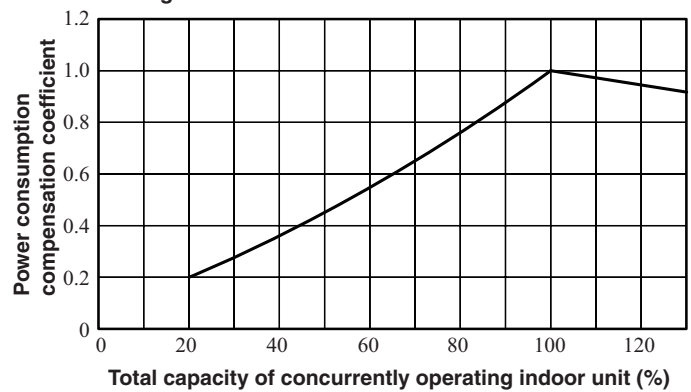
Heating



◆ **Power consumption compensation coefficient**
Cooling



Heating



6.1 Capacity tables

(a) Ceiling cassette-4 way type (FDT)

Model **FDT28KXE6A** Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			2.52	2.42	3.02	2.90	3.26	3.08	3.47	3.11	3.89	3.35	4.04	3.29
	12			2.52	2.42	3.02	2.90	3.26	3.08	3.47	3.11	3.88	3.35	4.02	3.29
	14			2.52	2.42	3.02	2.90	3.26	3.08	3.46	3.11	3.86	3.34	4.01	3.28
	16			2.52	2.42	3.02	2.90	3.26	3.08	3.46	3.11	3.85	3.34	3.99	3.28
	18			2.52	2.42	3.02	2.90	3.26	3.08	3.45	3.10	3.83	3.33	3.97	3.27
	20			2.52	2.42	3.02	2.90	3.26	3.08	3.45	3.10	3.82	3.33	3.95	3.27
	22			2.52	2.42	3.02	2.90	3.26	3.08	3.43	3.10	3.77	3.32	3.90	3.26
	24			2.52	2.42	3.02	2.90	3.26	3.08	3.42	3.09	3.72	3.31	3.85	3.25
	26			2.52	2.42	3.00	2.88	3.23	3.07	3.38	3.07	3.67	3.29	3.79	3.23
	28	2.28	2.19	2.51	2.41	2.99	2.87	3.20	3.06	3.34	3.06	3.61	3.28	3.73	3.22
20 (m³/min)	30	2.28	2.19	2.51	2.41	2.96	2.84	3.17	3.04	3.30	3.05	3.55	3.26	3.67	3.21
	32	2.28	2.19	2.50	2.40	2.94	2.82	3.14	3.01	3.26	3.02	3.50	3.25	3.62	3.18
	34	2.28	2.19	2.49	2.39	2.93	2.81	3.10	2.98	3.21	3.01	3.42	3.22	3.54	3.16
	35	2.28	2.19	2.49	2.39	2.93	2.81	3.08	3.02	3.18	3.00	3.39	3.21	3.50	3.15
	36	2.28	2.19	2.49	2.39	2.90	2.78	3.06	2.94	3.15	3.00	3.32	3.19	3.44	3.13
	38	2.28	2.19	2.48	2.38	2.86	2.75	3.03	2.91	3.09	2.97	3.20	3.07	3.30	3.09
	39	2.28	2.19	2.48	2.38	2.84	2.73	3.02	2.90	3.06	2.94	3.14	3.01	3.23	3.06
	41	2.28	2.19	2.47	2.37	2.75	2.64	2.90	2.78	2.93	2.81	3.00	2.88	3.08	2.96
	43	2.28	2.19	2.46	2.36	2.67	2.56	2.77	2.66	2.80	2.69	2.86	2.75	2.93	2.81

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	24 °CDB
Uhi	-19.8	-20	2.04	2.04	2.04	2.04	2.04	2.04
	-17.8	-18	2.17	2.17	2.17	2.17	2.17	2.17
	-15.7	-16	2.30	2.30	2.30	2.30	2.30	2.30
	-13.7	-14	2.44	2.44	2.44	2.44	2.44	2.44
	-11.7	-12	2.57	2.57	2.57	2.57	2.57	2.57
	-9.6	-10	2.70	2.70	2.70	2.70	2.70	2.70
	-7.5	-8	2.86	2.86	2.86	2.86	2.86	2.86
	-5.5	-6	3.03	3.03	3.03	3.03	3.03	3.03
	-3.4	-4	3.13	3.13	3.12	3.09	3.06	3.06
	-1.3	-2	3.24	3.23	3.22	3.16	3.10	3.10
20 (m³/min)	0.8	0	3.41	3.37	3.32	3.20	3.08	3.08
	3.9	3	3.70	3.57	3.44	3.25	3.05	3.05
	7.0	6	4.05	3.78	3.52	3.27	3.03	3.03
	10.1	9	4.02	3.76	3.51	3.25	3.00	3.00
	13.2	12	4.00	3.74	3.48	3.23	2.97	2.97
	16.9	15.5	3.96	3.71	3.45	3.20	2.94	2.94

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.30	2.21	2.74	2.63	2.97	2.82	3.16	2.84	3.54	3.07	3.67	3.02
	12			2.30	2.21	2.74	2.63	2.97	2.82	3.15	2.84	3.52	3.07	3.66	3.01
	14			2.30	2.21	2.74	2.63	2.97	2.82	3.15	2.84	3.51	3.06	3.64	3.01
	16			2.30	2.21	2.74	2.63	2.97	2.82	3.14	2.82	3.50	3.06	3.63	3.01
	18			2.30	2.21	2.74	2.63	2.97	2.82	3.14	2.82	3.49	3.06	3.61	3.00
	20			2.30	2.21	2.74	2.63	2.97	2.82	3.14	2.82	3.47	3.05	3.59	3.00
	22			2.29	2.20	2.74	2.63	2.97	2.82	3.12	2.82	3.43	3.04	3.54	2.99
	24			2.29	2.20	2.74	2.63	2.97	2.82	3.11	2.82	3.39	3.03	3.50	2.98
	26			2.29	2.20	2.73	2.62	2.94	2.81	3.07	2.80	3.33	3.02	3.44	2.95
	28	2.07	1.99	2.28	2.19	2.72	2.61	2.91	2.79	3.03	2.79	3.28	2.99	3.39	2.94
18 (m³/min)	30	2.07	1.99	2.28	2.19	2.70	2.59	2.88	2.76	3.00	2.78	3.23	2.98	3.34	2.93
	32	2.07	1.99	2.27	2.18	2.67	2.56	2.86	2.75	2.96	2.76	3.18	2.97	3.29	2.91
	34	2.07	1.99	2.27	2.18	2.66	2.55	2.82	2.71	2.92	2.75	3.11	2.94	3.22	2.89
	35	2.07	1.99	2.26	2.17	2.66	2.55	2.80	2.74	2.89	2.74	3.08	2.93	3.18	2.88
	36	2.07	1.99	2.26	2.17	2.64	2.53	2.79	2.68	2.86	2.73	3.02	2.90	3.12	2.85
	38	2.07	1.99	2.25	2.16	2.60	2.50	2.76	2.65	2.81	2.70	2.91	2.79	3.00	2.83
	39	2.07	1.99	2.25	2.16	2.58	2.48	2.74	2.63	2.78	2.67	2.86	2.75	2.94	2.80
	41	2.07	1.99	2.24	2.15	2.50	2.40	2.63	2.52	2.66	2.55	2.73	2.62	2.80	2.69
	43	2.07	1.99	2.24	2.15	2.43	2.33	2.52	2.42	2.55	2.45	2.60	2.50	2.66	2.55

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	24 °CDB
Hi	-19.8	-20	1.86	1.86	1.86	1.86	1.86	1.86
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	1.98
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	2.09
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	2.21
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	2.33
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	2.45
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	2.60
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	2.75
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	2.78
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	2.82
18 (m³/min)	0.8	0	3.10	3.06	3.02	2.91	2.80	2.80
	3.9	3	3.37	3.25	3.13	2.95	2.78	2.78
	7.0	6	3.68	3.44	3.20	2.98	2.75	2.75
	10.1	9	3.66	3.42	3.19	2.96	2.73	2.73
	13.2	12	3.63	3.40	3.17	2.94	2.70	2.70
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	2.68

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.18	2.09	2.61	2.51	2.82	2.60	3.00	2.62	3.36	2.83	3.49	2.78
	12			2.18	2.09	2.61	2.51	2.82	2.60	3.00	2.62	3.35	2.83	3.47	2.77
	14			2.18	2.09	2.61	2.51	2.82	2.60	2.99	2.62	3.34	2.82	3.46	2.77
	16			2.18	2.09	2.61	2.51	2.82	2.60	2.99	2.62	3.32	2.82	3.44	2.77
	18			2.18	2.09	2.61	2.51	2.82	2.60	2.98	2.61	3.31	2.82	3.43	2.76
	20			2.18	2.09	2.61	2.51	2.82	2.60	2.98	2.61	3.30	2.81	3.41	2.76
16 (m³/min)	22			2.18	2.09	2.61	2.51	2.82	2.60	2.97	2.60	3.26	2.80	3.37	2.75
	24			2.17	2.08	2.60	2.50	2.82	2.60	2.95	2.59	3.22	2.79	3.32	2.74
	26			2.17	2.08	2.59	2.49	2.79	2.59	2.92	2.59	3.17	2.78	3.27	2.72
	28	1.97	1.89	2.17	2.08	2.58	2.48	2.77	2.57	2.88	2.57	3.11	2.75	3.22	2.70
	30	1.97	1.89	2.17	2.08	2.56	2.46	2.74	2.56	2.85	2.57	3.07	2.74	3.17	2.68
	32	1.97	1.89	2.16	2.07	2.54	2.44	2.71	2.55	2.82	2.55	3.02	2.73	3.12	2.67
	34	1.97	1.89	2.15	2.06	2.53	2.43	2.68	2.54	2.77	2.53	2.96	2.70	3.06	2.66
	35	1.97	1.89	2.15	2.06	2.53	2.43	2.66	2.53	2.75	2.53	2.92	2.69	3.03	2.65
	36	1.97	1.89	2.15	2.06	2.51	2.41	2.65	2.53	2.72	2.52	2.87	2.68	2.97	2.63
	38	1.97	1.89	2.14	2.05	2.47	2.37	2.62	2.52	2.67	2.50	2.77	2.65	2.85	2.58
39	1.97	1.89	2.14	2.05	2.45	2.35	2.61	2.51	2.64	2.49	2.71	2.60	2.79	2.57	
41	1.97	1.89	2.13	2.04	2.38	2.28	2.50	2.40	2.53	2.43	2.59	2.49	2.66	2.53	
43	1.97	1.89	2.12	2.04	2.30	2.21	2.39	2.29	2.42	2.32	2.47	2.37	2.53	2.43	

Model **FDT36KXE6A**

Cool Mode

Heat Mode

Model	T150KLE04		Outdoor													
Air flow	Outdoor air temp. (°CDB)	Indoor air temperature														
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB		
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
Uhi	10			3.21	3.08	3.84	3.69	4.16	3.87	4.42	3.90	4.95	4.24	5.14	4.16	
	12			3.21	3.08	3.84	3.69	4.16	3.87	4.41	3.90	4.93	4.23	5.12	4.16	
	14			3.21	3.08	3.84	3.69	4.16	3.87	4.41	3.90	4.92	4.23	5.10	4.15	
	16			3.21	3.08	3.84	3.69	4.16	3.87	4.40	3.90	4.90	4.22	5.08	4.15	
	18			3.21	3.08	3.84	3.69	4.16	3.87	4.40	3.90	4.88	4.22	5.05	4.13	
	20			3.21	3.08	3.84	3.69	4.16	3.87	4.39	3.89	4.86	4.21	5.03	4.12	
	22			3.21	3.08	3.84	3.69	4.16	3.87	4.37	3.89	4.80	4.20	4.96	4.10	
	24			3.20	3.07	3.84	3.69	4.16	3.87	4.35	3.88	4.74	4.17	4.89	4.08	
	26			3.20	3.07	3.82	3.67	4.12	3.86	4.30	3.85	4.66	4.14	4.82	4.07	
	28	2.90	2.78	3.20	3.07	3.80	3.65	4.08	3.84	4.25	3.84	4.59	4.12	4.74	4.03	
20 (m³/min)	30	2.90	2.78	3.19	3.06	3.77	3.62	4.04	3.83	4.20	3.82	4.52	4.09	4.67	4.01	
	32	2.90	2.78	3.18	3.05	3.74	3.59	4.00	3.81	4.15	3.81	4.45	4.07	4.60	3.96	
	34	2.90	2.78	3.17	3.04	3.73	3.58	3.95	3.79	4.08	3.77	4.36	4.01	4.51	3.93	
	35	2.90	2.78	3.17	3.04	3.72	3.57	3.92	3.76	4.05	3.77	4.31	4.00	4.46	3.92	
	36	2.90	2.78	3.16	3.03	3.70	3.55	3.90	3.74	4.01	3.75	4.23	3.97	4.37	3.90	
	38	2.90	2.78	3.16	3.03	3.64	3.49	3.86	3.71	3.93	3.73	4.08	3.92	4.20	3.85	
	39	2.90	2.78	3.15	3.02	3.61	3.47	3.84	3.69	3.89	3.72	4.00	3.84	4.11	3.83	
	41	2.90	2.78	3.14	3.01	3.50	3.36	3.68	3.53	3.73	3.58	3.82	3.67	3.92	3.76	
	43	2.90	2.78	3.13	3.00	3.40	3.26	3.53	3.39	3.57	3.43	3.64	3.49	3.73	3.58	

Air flow	Outdoor air temp,		Indoor air temp,					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.53	2.53	2.53	2.53	2.53	
	-17.8	-18	2.69	2.69	2.69	2.69	2.69	
	-15.7	-16	2.85	2.85	2.85	2.85	2.85	
	-13.7	-14	3.02	3.02	3.02	3.02	3.02	
	-11.7	-12	3.18	3.18	3.18	3.18	3.18	
	-9.6	-10	3.34	3.34	3.34	3.34	3.34	
	-7.5	-8	3.55	3.55	3.55	3.55	3.55	
	-5.5	-6	3.75	3.75	3.75	3.75	3.75	
	-3.4	-4	3.88	3.87	3.87	3.83	3.79	
	-1.3	-2	4.01	4.00	3.99	3.91	3.84	
20 (m³/min)	0.8	0	4.23	4.17	4.11	3.96	3.82	
	3.9	3	4.59	4.43	4.26	4.02	3.78	
	7.0	6	5.01	4.69	4.36	4.05	3.75	
	10.1	9	4.98	4.66	4.34	4.03	3.72	
	13.2	12	4.95	4.63	4.32	4.00	3.68	
	16.9	15.5	4.91	4.59	4.28	3.96	3.65	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.95	2.83	3.53	3.39	3.82	3.54	4.06	3.57	4.55	3.88	4.72	3.81
	12			2.95	2.83	3.53	3.39	3.82	3.54	4.05	3.57	4.53	3.87	4.70	3.80
	14			2.95	2.83	3.53	3.39	3.82	3.54	4.05	3.57	4.51	3.87	4.68	3.78
	16			2.95	2.83	3.53	3.39	3.82	3.54	4.04	3.56	4.50	3.86	4.66	3.78
	18			2.95	2.83	3.53	3.39	3.82	3.54	4.04	3.56	4.48	3.86	4.64	3.77
	20			2.95	2.83	3.53	3.39	3.82	3.54	4.03	3.56	4.47	3.86	4.62	3.77
	22			2.95	2.83	3.53	3.39	3.82	3.54	4.01	3.56	4.41	3.83	4.56	3.75
	24			2.94	2.82	3.52	3.38	3.82	3.54	3.99	3.54	4.35	3.81	4.49	3.70
	26			2.94	2.82	3.51	3.37	3.78	3.53	3.95	3.53	4.28	3.79	4.43	3.68
	28	2.66	2.55	2.94	2.82	3.49	3.35	3.74	3.51	3.90	3.51	4.22	3.74	4.36	3.67
18 (m³/min)	30	2.66	2.55	2.93	2.81	3.47	3.33	3.71	3.50	3.86	3.50	4.15	3.72	4.29	3.65
	32	2.66	2.55	2.92	2.80	3.44	3.30	3.67	3.48	3.81	3.48	4.09	3.70	4.23	3.63
	34	2.66	2.55	2.91	2.79	3.43	3.29	3.62	3.46	3.75	3.45	4.00	3.68	4.14	3.61
	35	2.66	2.55	2.91	2.79	3.42	3.28	3.60	3.46	3.72	3.44	3.96	3.67	4.09	3.60
	36	2.66	2.55	2.91	2.79	3.39	3.25	3.58	3.44	3.68	3.43	3.89	3.65	4.02	3.58
	38	2.66	2.55	2.90	2.78	3.34	3.21	3.55	3.41	3.61	3.41	3.74	3.59	3.86	3.53
	39	2.66	2.55	2.89	2.77	3.32	3.19	3.53	3.39	3.58	3.40	3.67	3.52	3.78	3.52
	41	2.66	2.55	2.88	2.76	3.22	3.09	3.38	3.24	3.43	3.29	3.51	3.37	3.60	3.46
	43	2.66	2.55	2.87	2.76	3.12	3.00	3.24	3.11	3.28	3.15	3.35	3.22	3.42	3.28

Air flow	Outdoor air temp,		Indoor air temp,					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.32	2.32	2.32	2.32	2.32	
	-17.8	-18	2.47	2.47	2.47	2.47	2.47	
	-15.7	-16	2.62	2.62	2.62	2.62	2.62	
	-13.7	-14	2.77	2.77	2.77	2.77	2.77	
	-11.7	-12	2.92	2.92	2.92	2.92	2.92	
	-9.6	-10	3.07	3.07	3.07	3.07	3.07	
	-7.5	-8	3.25	3.25	3.25	3.25	3.25	
	-5.5	-6	3.44	3.44	3.44	3.44	3.44	
	-3.4	-4	3.56	3.56	3.55	3.52	3.48	
	-1.3	-2	3.68	3.67	3.66	3.59	3.52	
18 (m/min)	0.8	0	3.88	3.83	3.77	3.64	3.50	
	3.9	3	4.21	4.06	3.91	3.69	3.47	
	7.0	6	4.60	4.30	4.00	3.72	3.44	
	10.1	9	4.57	4.28	3.99	3.70	3.41	
	13.2	12	4.54	4.25	3.96	3.67	3.38	
	16.9	15.5	4.51	4.22	3.93	3.64	3.35	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.77	2.66	3.31	3.18	3.58	3.26	3.81	3.28	4.27	3.56	4.43	3.49
	12			2.77	2.66	3.31	3.18	3.58	3.26	3.81	3.28	4.25	3.55	4.41	3.48
	14			2.77	2.66	3.31	3.18	3.58	3.26	3.80	3.27	4.24	3.55	4.40	3.48
	16			2.77	2.66	3.31	3.18	3.58	3.26	3.80	3.27	4.22	3.54	4.38	3.48
	18			2.77	2.66	3.31	3.18	3.58	3.26	3.79	3.27	4.21	3.54	4.36	3.47
	20			2.77	2.66	3.31	3.18	3.58	3.26	3.79	3.27	4.19	3.53	4.34	3.47
	22			2.77	2.66	3.31	3.18	3.58	3.26	3.77	3.26	4.14	3.52	4.28	3.45
	24			2.76	2.65	3.31	3.18	3.58	3.26	3.75	3.26	4.09	3.51	4.22	3.43
	26			2.76	2.65	3.29	3.16	3.55	3.25	3.71	3.25	4.02	3.49	4.15	3.42
	28	2.50	2.40	2.76	2.65	3.28	3.15	3.52	3.24	3.66	3.23	3.96	3.47	4.09	3.40
16 (m³/min)	30	2.50	2.40	2.75	2.64	3.25	3.12	3.48	3.22	3.62	3.22	3.90	3.45	4.03	3.38
	32	2.50	2.40	2.74	2.63	3.23	3.10	3.45	3.21	3.58	3.20	3.84	3.43	3.97	3.37
	34	2.50	2.40	2.74	2.63	3.22	3.09	3.40	3.20	3.52	3.19	3.76	3.41	3.89	3.34
	35	2.50	2.40	2.73	2.62	3.21	3.08	3.38	3.18	3.49	3.18	3.72	3.39	3.84	3.32
	36	2.50	2.40	2.73	2.62	3.19	3.06	3.36	3.18	3.46	3.17	3.65	3.37	3.77	3.30
	38	2.50	2.40	2.72	2.61	3.14	3.01	3.33	3.17	3.39	3.14	3.52	3.33	3.62	3.26
	39	2.50	2.40	2.72	2.61	3.11	2.99	3.31	3.17	3.36	3.13	3.45	3.30	3.55	3.24
	41	2.50	2.40	2.71	2.60	3.02	2.90	3.18	3.05	3.22	3.08	3.30	3.17	3.38	3.18
	43	2.50	2.40	2.70	2.59	2.93	2.81	3.04	2.92	3.08	2.96	3.14	3.01	3.21	3.08

Model **FDT45KXE6A**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			4.17	3.81	4.99	4.30	5.40	4.37	5.74	4.40	6.43	4.78	6.68	4.68
	12			4.17	3.81	4.99	4.30	5.40	4.37	5.73	4.40	6.41	4.77	6.65	4.67
	14			4.17	3.81	4.99	4.30	5.40	4.37	5.72	4.40	6.38	4.76	6.62	4.66
	16			4.17	3.81	4.99	4.30	5.40	4.37	5.72	4.40	6.36	4.76	6.59	4.66
	18			4.17	3.81	4.99	4.30	5.40	4.37	5.71	4.39	6.34	4.75	6.56	4.65
	20			4.17	3.81	4.99	4.30	5.40	4.37	5.70	4.39	6.31	4.74	6.53	4.64
	22			4.17	3.81	4.99	4.30	5.40	4.37	5.67	4.38	6.23	4.72	6.44	4.60
	24			4.16	3.80	4.98	4.29	5.40	4.37	5.65	4.37	6.15	4.70	6.35	4.58
	26			4.16	3.80	4.96	4.29	5.34	4.35	5.58	4.35	6.06	4.66	6.26	4.54
	28	3.77	3.62	4.15	3.80	4.94	4.28	5.29	4.34	5.52	4.33	5.96	4.62	6.16	4.52
20 (m³/min)	30	3.77	3.62	4.14	3.80	4.90	4.27	5.24	4.32	5.45	4.31	5.87	4.59	6.07	4.48
	32	3.77	3.62	4.13	3.79	4.86	4.24	5.19	4.30	5.39	4.29	5.78	4.57	5.97	4.46
	34	3.77	3.62	4.12	3.79	4.84	4.23	5.12	4.27	5.30	4.25	5.66	4.52	5.85	4.41
	35	3.77	3.62	4.11	3.78	4.84	4.23	5.09	4.28	5.26	4.24	5.60	4.50	5.79	4.40
	36	3.77	3.62	4.11	3.78	4.80	4.22	5.06	4.25	5.21	4.22	5.49	4.46	5.68	4.36
	38	3.77	3.62	4.10	3.78	4.73	4.20	5.01	4.23	5.11	4.18	5.29	4.39	5.45	4.28
	39	3.77	3.62	4.09	3.78	4.69	4.18	4.99	4.22	5.06	4.16	5.19	4.36	5.34	4.25
	41	3.77	3.62	4.08	3.77	4.55	4.12	4.78	4.13	4.84	4.08	4.96	4.28	5.09	4.18
	43	3.77	3.62	4.06	3.76	4.41	4.07	4.58	4.07	4.63	4.01	4.73	4.17	4.84	4.07

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	3.28	3.28	3.28	3.28	3.28	3.28
	-17.8	-18	3.49	3.49	3.49	3.49	3.49	3.49
	-15.7	-16	3.70	3.70	3.70	3.70	3.70	3.70
	-13.7	-14	3.91	3.91	3.91	3.91	3.91	3.91
	-11.7	-12	4.12	4.12	4.12	4.12	4.12	4.12
	-9.6	-10	4.33	4.33	4.33	4.33	4.33	4.33
	-7.5	-8	4.60	4.60	4.60	4.60	4.60	4.60
	-5.5	-6	4.86	4.86	4.86	4.86	4.86	4.86
	-3.4	-4	5.03	5.02	5.01	4.96	4.92	
	-1.3	-2	5.20	5.18	5.17	5.07	4.97	
20 (m/min)	0.8	0	5.48	5.40	5.33	5.13	4.94	
	3.9	3	5.95	5.73	5.52	5.21	4.90	
	7.0	6	6.50	6.07	5.65	5.25	4.86	
	10.1	9	6.46	6.04	5.63	5.22	4.82	
	13.2	12	6.41	6.00	5.59	5.18	4.77	
	16.9	15.5	6.36	5.95	5.54	5.13	4.72	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			3.69	3.40	4.41	3.84	4.77	3.90	5.07	3.93	5.68	4.27	5.90	4.18
	12			3.69	3.40	4.41	3.84	4.77	3.90	5.07	3.93	5.66	4.26	5.88	4.18
	14			3.69	3.40	4.41	3.84	4.77	3.90	5.06	3.93	5.64	4.26	5.85	4.16
	16			3.69	3.40	4.41	3.84	4.77	3.90	5.05	3.93	5.62	4.25	5.83	4.15
	18			3.69	3.40	4.41	3.84	4.77	3.90	5.05	3.93	5.60	4.25	5.80	4.15
	20			3.69	3.40	4.41	3.84	4.77	3.90	5.04	3.92	5.58	4.24	5.78	4.14
18 (m/min)	22			3.68	3.40	4.41	3.84	4.77	3.90	5.02	3.92	5.51	4.21	5.70	4.12
	24			3.68	3.40	4.41	3.84	4.77	3.90	4.99	3.91	5.44	4.19	5.62	4.09
	26			3.68	3.40	4.39	3.83	4.73	3.89	4.93	3.89	5.35	4.15	5.53	4.06
	28	3.33	3.20	3.67	3.39	4.37	3.82	4.68	3.87	4.88	3.87	5.27	4.13	5.44	4.03
	30	3.33	3.20	3.66	3.38	4.33	3.80	4.64	3.85	4.82	3.85	5.19	4.10	5.36	4.01
	32	3.33	3.20	3.65	3.38	4.30	3.79	4.59	3.83	4.76	3.82	5.11	4.07	5.28	3.98
	34	3.33	3.20	3.64	3.37	4.28	3.78	4.53	3.81	4.69	3.80	5.00	4.03	5.17	3.95
	35	3.33	3.20	3.64	3.37	4.28	3.78	4.50	3.78	4.65	3.79	4.95	4.02	5.12	3.93
	36	3.33	3.20	3.63	3.37	4.24	3.77	4.48	3.79	4.60	3.76	4.86	3.99	5.02	3.89
38	3.33	3.20	3.62	3.37	4.18	3.74	4.43	3.77	4.52	3.74	4.68	3.93	4.82	3.83	
39	3.33	3.20	3.62	3.37	4.15	3.73	4.41	3.77	4.47	3.72	4.59	3.89	4.72	3.81	
41	3.33	3.20	3.61	3.36	4.02	3.68	4.23	3.70	4.28	3.65	4.39	3.82	4.50	3.70	
43	3.33	3.20	3.59	3.36	3.90	3.63	4.05	3.63	4.09	3.58	4.18	3.73	4.28	3.64	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.90	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	3.27
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	3.65
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	3.83
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	4.07
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	4.30
	-3.4	-4	4.45	4.44	4.44	4.39	4.35	
	-1.3	-2	4.60	4.59	4.58	4.49	4.40	
18 (m/min)	0.8	0	4.85	4.78	4.71	4.54	4.38	
	3.9	3	5.26	5.08	4.89	4.61	4.34	
	7.0	6	5.75	5.38	5.00	4.65	4.30	
	10.1	9	5.71	5.35	4.98	4.62	4.26	
	13.2	12	5.68	5.31	4.95	4.59	4.23	
	16.9	15.5	5.63	5.27	4.91	4.54	4.18	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			3.51	3.14	4.19	3.54	4.54	3.61	4.83	3.65	5.41	3.94	5.61	3.86
	12			3.51	3.14	4.19	3.54	4.54	3.61	4.82	3.64	5.39	3.94	5.59	3.85
	14			3.51	3.14	4.19	3.54	4.54	3.61	4.81	3.64	5.37	3.93	5.57	3.85
	16			3.51	3.14	4.19	3.54	4.54	3.61	4.81	3.64	5.35	3.93	5.54	3.84
	18			3.51	3.14	4.19	3.54	4.54	3.61	4.80	3.64	5.33	3.92	5.52	3.84
	20			3.51	3.14	4.19	3.54	4.54	3.61	4.79	3.63	5.31	3.91	5.49	3.83
16 (m³/min)	22			3.50	3.13	4.19	3.54	4.54	3.61	4.77	3.63	5.24	3.89	5.42	3.80
	24			3.50	3.13	4.19	3.54	4.54	3.61	4.75	3.62	5.17	3.86	5.34	3.78
	26			3.50	3.13	4.17	3.54	4.49	3.59	4.69	3.60	5.09	3.84	5.26	3.75
	28	3.17	3.04	3.49	3.13	4.15	3.52	4.45	3.58	4.64	3.58	5.01	3.81	5.18	3.71
	30	3.17	3.04	3.48	3.13	4.12	3.51	4.41	3.57	4.58	3.56	4.94	3.79	5.10	3.69
	32	3.17	3.04	3.48	3.13	4.09	3.50	4.37	3.54	4.53	3.54	4.86	3.76	5.02	3.67
	34	3.17	3.04	3.46	3.12	4.07	3.50	4.31	3.52	4.46	3.51	4.76	3.73	4.92	3.64
	35	3.17	3.04	3.46	3.12	4.07	3.50	4.28	3.51	4.42	3.50	4.70	3.70	4.87	3.62
	36	3.17	3.04	3.45	3.11	4.04	3.48	4.26	3.51	4.38	3.48	4.62	3.68	4.77	3.59
	38	3.17	3.04	3.45	3.11	3.97	3.45	4.22	3.48	4.29	3.45	4.45	3.62	4.58	3.53
39	3.17	3.04	3.44	3.11	3.94	3.44	4.19	3.48	4.25	3.43	4.37	3.58	4.49	3.50	
41	3.17	3.04	3.43	3.11	3.83	3.39	4.02	3.41	4.07	3.37	4.17	3.52	4.28	3.41	
43	3.17	3.04	3.42	3.10	3.71	3.35	3.85	3.34	3.89	3.30	3.98	3.43	4.07	3.35	

Model **FDT56KXE6A**

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			5.10	4.52	6.09	5.09	6.59	5.18	7.01	5.25	7.86	5.69	8.16	5.53
	12			5.10	4.52	6.09	5.09	6.59	5.18	7.01	5.25	7.83	5.68	8.12	5.51
	14			5.10	4.52	6.09	5.09	6.59	5.18	7.00	5.25	7.80	5.67	8.09	5.50
	16			5.10	4.52	6.09	5.09	6.59	5.18	6.99	5.22	7.77	5.66	8.05	5.49
	18			5.10	4.52	6.09	5.09	6.59	5.18	6.98	5.22	7.74	5.65	8.02	5.48
	20			5.10	4.52	6.09	5.09	6.59	5.18	6.97	5.21	7.72	5.64	7.98	5.47
	22			5.09	4.52	6.09	5.09	6.59	5.18	6.93	5.20	7.62	5.58	7.87	5.44
	24			5.08	4.51	6.09	5.09	6.59	5.18	6.90	5.19	7.52	5.54	7.76	5.41
	26			5.08	4.51	6.06	5.08	6.53	5.16	6.82	5.16	7.40	5.50	7.65	5.37
	28	4.60	4.42	5.08	4.51	6.03	5.07	6.47	5.14	6.74	5.13	7.28	5.46	7.53	5.34
20 (m/min)	30	4.60	4.42	5.06	4.49	5.99	5.05	6.41	5.11	6.66	5.10	7.17	5.43	7.41	5.30
	32	4.60	4.42	5.05	4.49	5.94	5.03	6.34	5.09	6.58	5.08	7.06	5.39	7.30	5.27
	34	4.60	4.42	5.03	4.48	5.92	5.03	6.26	5.06	6.48	5.04	6.91	5.34	7.15	5.23
	35	4.60	4.42	5.03	4.48	5.91	5.02	6.22	5.04	6.43	5.02	6.84	5.32	7.07	5.20
	36	4.60	4.42	5.02	4.48	5.86	5.00	6.19	5.03	6.36	5.00	6.71	5.28	6.94	5.15
	38	4.60	4.42	5.01	4.48	5.78	4.97	6.13	5.01	6.24	4.96	6.47	5.19	6.66	5.07
	39	4.60	4.42	5.00	4.47	5.73	4.95	6.10	5.00	6.18	4.93	6.35	5.15	6.53	5.02
	41	4.60	4.42	4.98	4.46	5.56	4.88	5.85	4.91	5.92	4.83	6.06	5.05	6.22	4.93
	43	4.60	4.42	4.97	4.46	5.39	4.82	5.60	4.81	5.66	4.74	5.78	4.96	5.91	4.83

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	4.05	4.05	4.05	4.05	4.05	4.05
	-17.8	-18	4.32	4.32	4.32	4.32	4.32	4.32
	-15.7	-16	4.58	4.58	4.58	4.58	4.58	4.58
	-13.7	-14	4.84	4.84	4.84	4.84	4.84	4.84
	-11.7	-12	5.10	5.10	5.10	5.10	5.10	5.10
	-9.6	-10	5.36	5.36	5.36	5.36	5.36	5.36
	-7.5	-8	5.69	5.69	5.69	5.69	5.69	5.69
	-5.5	-6	6.01	6.01	6.01	6.01	6.01	6.01
	-3.4	-4	6.22	6.21	6.20	6.14	6.08	
	-1.3	-2	6.43	6.41	6.40	6.27	6.15	
20 (m/min)	0.8	0	6.78	6.68	6.59	6.35	6.12	
	3.9	3	7.36	7.09	6.83	6.45	6.06	
	7.0	6	8.04	7.51	6.99	6.50	6.01	
	10.1	9	7.99	7.47	6.96	6.46	5.96	
	13.2	12	7.93	7.43	6.92	6.41	5.91	
	16.9	15.5	7.87	7.37	6.86	6.35	5.85	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			4.59	4.07	5.49	4.59	5.94	4.66	6.32	4.73	7.07	5.12	7.35	4.97
	12			4.59	4.07	5.49	4.59	5.94	4.66	6.31	4.72	7.05	5.11	7.31	4.96
	14			4.59	4.07	5.49	4.59	5.94	4.66	6.30	4.72	7.02	5.10	7.28	4.95
	16			4.59	4.07	5.49	4.59	5.94	4.66	6.29	4.70	7.00	5.10	7.25	4.94
	18			4.59	4.07	5.49	4.59	5.94	4.66	6.28	4.70	6.97	5.09	7.22	4.93
	20			4.59	4.07	5.49	4.59	5.94	4.66	6.27	4.69	6.95	5.08	7.19	4.93
18 (m/min)	22			4.58	4.06	5.49	4.59	5.94	4.66	6.24	4.68	6.86	5.02	7.09	4.90
	24			4.58	4.06	5.48	4.58	5.94	4.66	6.21	4.67	6.77	4.99	6.99	4.87
	26			4.57	4.06	5.46	4.57	5.88	4.64	6.14	4.65	6.66	4.95	6.88	4.83
	28	4.14	3.97	4.57	4.06	5.43	4.56	5.82	4.62	6.07	4.62	6.56	4.92	6.78	4.80
	30	4.14	3.97	4.56	4.05	5.39	4.55	5.77	4.60	6.00	4.60	6.46	4.89	6.67	4.77
	32	4.14	3.97	4.55	4.04	5.35	4.53	5.71	4.58	5.93	4.57	6.36	4.86	6.57	4.74
	34	4.14	3.97	4.53	4.04	5.33	4.52	5.64	4.55	5.83	4.54	6.22	4.81	6.44	4.70
	35	4.14	3.97	4.52	4.03	5.32	4.52	5.60	4.54	5.79	4.52	6.16	4.79	6.37	4.68
	36	4.14	3.97	4.52	4.03	5.28	4.50	5.57	4.53	5.73	4.50	6.05	4.75	6.25	4.64
38	4.14	3.97	4.51	4.03	5.20	4.48	5.52	4.51	5.62	4.46	5.82	4.67	6.00	4.56	
39	4.14	3.97	4.50	4.02	5.16	4.46	5.49	4.50	5.56	4.44	5.71	4.64	5.87	4.52	
41	4.14	3.97	4.49	4.02	5.00	4.39	5.26	4.42	5.33	4.35	5.46	4.55	5.60	4.44	
43	4.14	3.97	4.47	4.01	4.85	4.33	5.04	4.33	5.10	4.27	5.21	4.47	5.32	4.35	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	3.65	3.65	3.65	3.65	3.65	3.65
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	3.89
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	4.12
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	4.36
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	4.59
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	4.83
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	5.12
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	5.42
	-3.4	-4	5.61	5.60	5.59	5.54	5.48	
	-1.3	-2	5.80	5.78	5.76	5.65	5.54	
18 (m/min)	0.8	0	6.11	6.02	5.94	5.73	5.51	
	3.9	3	6.63	6.39	6.16	5.81	5.47	
	7.0	6	7.25	6.77	6.30	5.86	5.42	
	10.1	9	7.20	6.74	6.28	5.82	5.37	
	13.2	12	7.15	6.69	6.24	5.78	5.32	
	16.9	15.5	7.10	6.64	6.18	5.73	5.27	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			4.31	3.74	5.15	4.22	5.58	4.31	5.93	4.35	6.64	4.69	6.90	4.58
	12			4.31	3.74	5.15	4.22	5.58	4.31	5.92	4.34	6.62	4.68	6.87	4.57
	14			4.31	3.74	5.15	4.22	5.58	4.31	5.92	4.34	6.60	4.67	6.84	4.56
	16			4.31	3.74	5.15	4.22	5.58	4.31	5.91	4.34	6.57	4.66	6.81	4.55
	18			4.31	3.74	5.15	4.22	5.58	4.31	5.90	4.34	6.55	4.66	6.78	4.54
	20			4.31	3.74	5.15	4.22	5.58	4.31	5.89	4.33	6.52	4.65	6.75	4.53
	22			4.31	3.74	5.15	4.22	5.58	4.31	5.86	4.32	6.44	4.62	6.66	4.50
	24			4.30	3.73	5.15	4.22	5.58	4.31	5.84	4.31	6.36	4.59	6.57	4.48
	26			4.30	3.73	5.13	4.21	5.52	4.28	5.77	4.29	6.26	4.56	6.47	4.45
	28	3.89	3.69	4.29	3.73	5.10	4.20	5.47	4.26	5.70	4.26	6.16	4.52	6.36	4.41
16 (m/min)	30	3.89	3.69	4.28	3.72	5.06	4.17	5.42	4.24	5.63	4.24	6.07	4.50	6.27	4.39
	32	3.89	3.69	4.27	3.72	5.02	4.16	5.37	4.22	5.57	4.21	5.97	4.46	6.17	4.35
	34	3.89	3.69	4.26	3.71	5.01	4.16	5.30	4.19	5.48	4.18	5.85	4.41	6.05	4.31
	35	3.89	3.69	4.25	3.70	5.00	4.15	5.26	4.16	5.43	4.16	5.78	4.39	5.98	4.29
	36	3.89	3.69	4.24	3.70	4.96	4.14	5.23	4.17	5.38	4.14	5.68	4.36	5.87	4.25
	38	3.89	3.69	4.23	3.70	4.88	4.10	5.18	4.14	5.28	4.10	5.47	4.28	5.63	4.18
	39	3.89	3.69	4.23	3.70	4.85	4.09	5.15	4.13	5.23	4.08	5.37	4.25	5.52	4.14
	41	3.89	3.69	4.21	3.69	4.70	4.03	4.94	4.05	5.01	4.00	5.13	4.16	5.26	4.06
	43	3.89	3.69	4.20	3.68	4.56	3.98	4.73	3.97	4.79	3.92	4.89	4.09	5.00	3.97

Model **FDT71KXE6A**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			6.34	4.87	7.58	5.51	8.20	5.66	8.73	5.75	9.78	6.20	10.15	6.03
	12			6.34	4.87	7.58	5.51	8.20	5.66	8.72	5.74	9.74	6.18	10.11	6.02
	14			6.34	4.87	7.58	5.51	8.20	5.66	8.71	5.74	9.71	6.17	10.06	5.99
	16			6.34	4.87	7.58	5.51	8.20	5.66	8.69	5.73	9.67	6.16	10.02	5.98
	18			6.34	4.87	7.58	5.51	8.20	5.66	8.68	5.73	9.64	6.14	9.98	5.97
	20			6.34	4.87	7.58	5.51	8.20	5.66	8.67	5.72	9.60	6.13	9.93	5.92
	22			6.34	4.87	7.58	5.51	8.20	5.66	8.63	5.71	9.48	6.08	9.80	5.88
	24			6.33	4.87	7.58	5.51	8.20	5.66	8.59	5.69	9.36	6.01	9.66	5.84
	26			6.32	4.86	7.54	5.50	8.13	5.63	8.49	5.65	9.21	5.96	9.51	5.79
	28	5.73	4.79	6.32	4.86	7.51	5.49	8.05	5.60	8.39	5.61	9.06	5.91	9.37	5.74
	30	5.73	4.79	6.30	4.86	7.45	5.46	7.97	5.56	8.29	5.56	8.92	5.86	9.23	5.69
	32	5.73	4.79	6.28	4.84	7.39	5.41	7.89	5.52	8.19	5.52	8.79	5.81	9.09	5.64
20 (m³/min)	34	5.73	4.79	6.26	4.83	7.37	5.41	7.79	5.48	8.06	5.46	8.60	5.72	8.90	5.57
	35	5.73	4.79	6.25	4.83	7.35	5.40	7.74	5.50	8.00	5.44	8.51	5.70	8.80	5.53
	36	5.73	4.79	6.25	4.83	7.30	5.38	7.70	5.44	7.92	5.40	8.36	5.64	8.63	5.47
	38	5.73	4.79	6.23	4.82	7.19	5.34	7.62	5.40	7.77	5.32	8.05	5.49	8.29	5.34
	39	5.73	4.79	6.22	4.81	7.13	5.32	7.59	5.39	7.69	5.29	7.90	5.44	8.12	5.30
	41	5.73	4.79	6.20	4.81	6.92	5.23	7.28	5.26	7.37	5.18	7.55	5.32	7.74	5.17
	43	5.73	4.79	6.18	4.80	6.70	5.12	6.97	5.13	7.04	5.04	7.20	5.19	7.36	5.04

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	5.06	5.06	5.06	5.06	5.06	
	-17.8	-18	5.38	5.38	5.38	5.38	5.38	
	-15.7	-16	5.71	5.71	5.71	5.71	5.71	
	-13.7	-14	6.03	6.03	6.03	6.03	6.03	
	-11.7	-12	6.36	6.36	6.36	6.36	6.36	
	-9.6	-10	6.69	6.69	6.69	6.69	6.69	
	-7.5	-8	7.09	7.09	7.09	7.09	7.09	
	-5.5	-6	7.50	7.50	7.50	7.50	7.50	
	-3.4	-4	7.76	7.75	7.74	7.66	7.59	
	-1.3	-2	8.02	8.00	7.98	7.83	7.67	
	0.8	0	8.46	8.34	8.22	7.92	7.63	
	3.9	3	9.18	8.85	8.52	8.04	7.56	
20 (m³/min)	7.0	6	10.03	9.37	8.72	8.11	7.50	
	10.1	9	9.96	9.32	8.69	8.06	7.43	
	13.2	12	9.90	9.27	8.63	8.00	7.37	
	16.9	15.5	9.82	9.19	8.56	7.92	7.29	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	4.44	6.96	5.03	7.53	5.16	8.01	5.23	8.97	5.65	9.31	5.50
	12			5.82	4.44	6.96	5.03	7.53	5.16	8.00	5.23	8.94	5.64	9.27	5.47
	14			5.82	4.44	6.96	5.03	7.53	5.16	7.99	5.23	8.90	5.62	9.23	5.46
	16			5.82	4.44	6.96	5.03	7.53	5.16	7.97	5.22	8.87	5.61	9.19	5.45
	18			5.82	4.44	6.96	5.03	7.53	5.16	7.96	5.22	8.84	5.60	9.15	5.43
	20			5.82	4.44	6.96	5.03	7.53	5.16	7.95	5.21	8.81	5.59	9.11	5.42
18 (m³/min)	22			5.81	4.43	6.95	5.03	7.53	5.16	7.92	5.20	8.70	5.54	8.99	5.37
	24			5.80	4.43	6.95	5.03	7.53	5.16	7.88	5.19	8.58	5.49	8.86	5.31
	26			5.80	4.43	6.92	5.01	7.46	5.13	7.79	5.15	8.45	5.42	8.73	5.27
	28	5.25	4.36	5.79	4.42	6.89	5.00	7.38	5.10	7.69	5.10	8.31	5.37	8.59	5.22
	30	5.25	4.36	5.78	4.41	6.83	4.97	7.31	5.06	7.60	5.06	8.19	5.33	8.46	5.17
	32	5.25	4.36	5.77	4.41	6.78	4.95	7.24	5.04	7.51	5.02	8.06	5.28	8.33	5.13
	34	5.25	4.36	5.75	4.40	6.76	4.94	7.15	4.99	7.39	4.97	7.89	5.21	8.16	5.07
	35	5.25	4.36	5.74	4.40	6.75	4.93	7.10	4.97	7.33	4.95	7.80	5.18	8.08	5.03
	36	5.25	4.36	5.73	4.39	6.69	4.90	7.06	4.95	7.26	4.92	7.66	5.13	7.92	4.98
	38	5.25	4.36	5.72	4.39	6.59	4.85	6.99	4.93	7.12	4.86	7.38	5.01	7.61	4.85
39	5.25	4.36	5.71	4.39	6.54	4.83	6.96	4.91	7.05	4.84	7.24	4.94	7.45	4.80	
41	5.25	4.36	5.69	4.38	6.35	4.76	6.67	4.78	6.76	4.71	6.92	4.84	7.10	4.70	
43	5.25	4.36	5.67	4.37	6.15	4.67	6.39	4.67	6.46	4.59	6.60	4.72	6.75	4.58	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi 18 (m³/min)	-19.8	-20	4.64	4.64	4.64	4.64	4.64	
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
7.0	6	9.20	8.60	8.00	7.44	6.88		
10.1	9	9.14	8.56	7.97	7.40	6.82		
13.2	12	9.08	8.50	7.92	7.34	6.76		
16.9	15.5	9.01	8.43	7.85	7.27	6.69		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			5.47	4.12	6.54	4.67	7.07	4.80	7.52	4.87	8.43	5.25	8.75	5.11
	12			5.47	4.12	6.54	4.67	7.07	4.80	7.51	4.87	8.40	5.24	8.71	5.09
	14			5.47	4.12	6.54	4.67	7.07	4.80	7.50	4.86	8.37	5.23	8.67	5.08
	16			5.47	4.12	6.54	4.67	7.07	4.80	7.49	4.86	8.33	5.21	8.64	5.07
	18			5.47	4.12	6.54	4.67	7.07	4.80	7.48	4.85	8.30	5.20	8.60	5.03
	20			5.47	4.12	6.54	4.67	7.07	4.80	7.47	4.85	8.27	5.18	8.56	5.02
16 (m³/min)	22			5.46	4.11	6.53	4.66	7.07	4.80	7.44	4.84	8.17	5.14	8.44	4.98
	24			5.45	4.11	6.53	4.66	7.07	4.80	7.40	4.82	8.06	5.09	8.33	4.95
	26			5.45	4.11	6.50	4.65	7.00	4.76	7.31	4.78	7.94	5.05	8.20	4.89
	28	4.94	4.05	5.44	4.10	6.47	4.64	6.94	4.74	7.23	4.75	7.81	5.00	8.07	4.85
	30	4.94	4.05	5.43	4.10	6.42	4.61	6.87	4.69	7.14	4.71	7.69	4.95	7.95	4.80
	32	4.94	4.05	5.42	4.10	6.37	4.59	6.80	4.66	7.06	4.65	7.57	4.90	7.83	4.76
	34	4.94	4.05	5.40	4.09	6.35	4.59	6.71	4.63	6.95	4.61	7.41	4.83	7.67	4.70
	35	4.94	4.05	5.39	4.08	6.34	4.58	6.67	4.60	6.89	4.59	7.33	4.80	7.59	4.67
	36	4.94	4.05	5.38	4.08	6.29	4.56	6.64	4.60	6.82	4.57	7.20	4.75	7.44	4.60
	38	4.94	4.05	5.37	4.07	6.19	4.51	6.57	4.57	6.69	4.51	6.94	4.64	7.14	4.51

Model FDT90KXE6A

Cool Mode

Model	T150KLE04		Indoor air temperature												
Air flow	Outdoor air temp. (°CDB)	21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			8.34	6.76	9.97	7.66	10.78	7.82	11.47	7.92	12.85	8.57	13.34	8.36
	12			8.34	6.76	9.97	7.66	10.78	7.82	11.45	7.91	12.80	8.56	13.28	8.34
	14			8.34	6.76	9.97	7.66	10.78	7.82	11.44	7.91	12.75	8.54	13.22	8.30
	16			8.34	6.76	9.97	7.66	10.78	7.82	11.42	7.90	12.71	8.51	13.17	8.29
	18			8.34	6.76	9.97	7.66	10.78	7.82	11.41	7.90	12.66	8.50	13.11	8.27
	20			8.34	6.76	9.97	7.66	10.78	7.82	11.39	7.89	12.62	8.49	13.05	8.26
	22			8.32	6.75	9.96	7.65	10.78	7.82	11.34	7.87	12.46	8.42	12.87	8.19
	24			8.31	6.74	9.96	7.65	10.78	7.82	11.29	7.86	12.30	8.35	12.70	8.09
	26			8.31	6.74	9.91	7.64	10.68	7.79	11.15	7.81	12.10	8.29	12.50	8.03
	28	7.53	6.67	8.30	6.74	9.86	7.62	10.58	7.75	11.02	7.75	11.91	8.18	12.31	7.98
30 (m³/min)	30	7.53	6.67	8.28	6.73	9.79	7.58	10.48	7.70	10.89	7.70	11.73	8.13	12.12	7.93
	32	7.53	6.67	8.26	6.72	9.71	7.55	10.37	7.66	10.76	7.64	11.55	8.07	11.94	7.86
	34	7.53	6.67	8.23	6.71	9.68	7.54	10.24	7.60	10.59	7.59	11.30	7.98	11.69	7.77
	35	7.53	6.67	8.22	6.71	9.66	7.53	10.17	7.63	10.51	7.54	11.18	7.94	11.57	7.74
	36	7.53	6.67	8.21	6.70	9.59	7.50	10.12	7.56	10.41	7.51	10.98	7.86	11.34	7.66
	38	7.53	6.67	8.19	6.69	9.44	7.43	10.02	7.51	10.20	7.42	10.58	7.72	10.89	7.52
	39	7.53	6.67	8.18	6.69	9.37	7.41	9.97	7.49	10.10	7.39	10.38	7.65	10.67	7.44
	41	7.53	6.67	8.15	6.68	9.09	7.29	9.56	7.33	9.68	7.22	9.92	7.47	10.17	7.26
	43	7.53	6.67	8.12	6.67	8.81	7.17	9.15	7.16	9.25	7.06	9.45	7.31	9.67	7.07

Heat Mode

Air flow	Outdoor air temp,		Indoor air temp,					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	6.55	6.55	6.55	6.55	6.55	
	-17.8	-18	6.98	6.98	6.98	6.98	6.98	
	-15.7	-16	7.40	7.40	7.40	7.40	7.40	
	-13.7	-14	7.82	7.82	7.82	7.82	7.82	
	-11.7	-12	8.24	8.24	8.24	8.24	8.24	
	-9.6	-10	8.66	8.66	8.66	8.66	8.66	
	-7.5	-8	9.19	9.19	9.19	9.19	9.19	
	-5.5	-6	9.72	9.72	9.72	9.72	9.72	
	-3.4	-4	10.06	10.04	10.03	9.93	9.83	
	-1.3	-2	10.40	10.37	10.34	10.14	9.94	
30 (m³/min)	0.8	0	10.96	10.81	10.65	10.27	9.89	
	3.9	3	11.89	11.47	11.05	10.42	9.80	
	7.0	6	13.00	12.15	11.30	10.51	9.72	
	10.1	9	12.91	12.08	11.26	10.45	9.63	
	13.2	12	12.83	12.01	11.19	10.37	9.55	
	16.9	15.5	12.73	11.91	11.09	10.27	9.45	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			7.38	6.03	8.82	6.82	9.54	6.98	10.15	7.07	11.37	7.64	11.80	7.45
	12			7.38	6.03	8.82	6.82	9.54	6.98	10.14	7.06	11.33	7.63	11.75	7.43
	14			7.38	6.03	8.82	6.82	9.54	6.98	10.12	7.06	11.29	7.61	11.70	7.40
	16			7.38	6.03	8.82	6.82	9.54	6.98	10.11	7.05	11.25	7.59	11.65	7.39
	18			7.38	6.03	8.82	6.82	9.54	6.98	10.09	7.05	11.20	7.57	11.60	7.37
	20			7.38	6.03	8.82	6.82	9.54	6.98	10.08	7.04	11.16	7.56	11.55	7.36
	22			7.37	6.03	8.82	6.82	9.54	6.98	10.03	7.03	11.02	7.50	11.39	7.27
	24			7.36	6.02	8.81	6.82	9.54	6.98	9.99	7.01	10.88	7.41	11.24	7.23
	26			7.35	6.02	8.77	6.80	9.45	6.94	9.87	6.96	10.71	7.36	11.06	7.18
	28	6.66	5.95	7.34	6.01	8.73	6.79	9.36	6.91	9.75	6.92	10.54	7.31	10.89	7.13
27 (m³/min)	30	6.66	5.95	7.33	6.01	8.66	6.76	9.27	6.86	9.64	6.87	10.38	7.26	10.73	7.07
	32	6.66	5.95	7.31	6.00	8.60	6.73	9.18	6.83	9.53	6.83	10.22	7.19	10.56	7.00
	34	6.66	5.95	7.28	5.99	8.57	6.72	9.06	6.77	9.37	6.76	10.00	7.11	10.35	6.95
	35	6.66	5.95	7.27	5.98	8.55	6.71	9.00	6.75	9.30	6.74	9.89	7.08	10.24	6.90
	36	6.66	5.95	7.26	5.98	8.49	6.69	8.96	6.74	9.21	6.69	9.72	7.01	10.04	6.83
	38	6.66	5.95	7.25	5.98	8.36	6.63	8.87	6.71	9.03	6.62	9.36	6.89	9.64	6.70
	39	6.66	5.95	7.24	5.97	8.29	6.60	8.82	6.67	8.94	6.59	9.18	6.81	9.44	6.63
	41	6.66	5.95	7.21	5.96	8.04	6.50	8.46	6.54	8.56	6.45	8.77	6.68	9.00	6.49
	43	6.66	5.95	7.19	5.95	7.80	6.37	8.10	6.39	8.19	6.26	8.37	6.49	8.56	6.32

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	5.80	5.80	5.80	5.80	5.80	
	-17.8	-18	6.17	6.17	6.17	6.17	6.17	
	-15.7	-16	6.55	6.55	6.55	6.55	6.55	
	-13.7	-14	6.92	6.92	6.92	6.92	6.92	
	-11.7	-12	7.29	7.29	7.29	7.29	7.29	
	-9.6	-10	7.67	7.67	7.67	7.67	7.67	
	-7.5	-8	8.13	8.13	8.13	8.13	8.13	
	-5.5	-6	8.60	8.60	8.60	8.60	8.60	
	-3.4	-4	8.90	8.89	8.88	8.79	8.70	
	-1.3	-2	9.20	9.18	9.15	8.98	8.80	
27 (m³/min)	0.8	0	9.70	9.56	9.43	9.09	8.75	
	3.9	3	10.53	10.15	9.78	9.23	8.68	
	7.0	6	11.50	10.75	10.00	9.30	8.60	
	10.1	9	11.43	10.69	9.96	9.24	8.53	
	13.2	12	11.35	10.63	9.90	9.18	8.45	
	16.9	15.5	11.26	10.54	9.81	9.09	8.36	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			6.93	5.62	8.29	6.36	8.97	6.49	9.54	6.60	10.69	7.12	11.10	6.94
	12			6.93	5.62	8.29	6.36	8.97	6.49	9.53	6.59	10.65	7.11	11.05	6.92
	14			6.93	5.62	8.29	6.36	8.97	6.49	9.52	6.59	10.61	7.10	11.00	6.91
	16			6.93	5.62	8.29	6.36	8.97	6.49	9.50	6.58	10.57	7.07	10.95	6.88
	18			6.93	5.62	8.29	6.36	8.97	6.49	9.49	6.57	10.53	7.06	10.91	6.87
	20			6.93	5.62	8.29	6.36	8.97	6.49	9.48	6.56	10.49	7.04	10.86	6.85
	22			6.92	5.61	8.29	6.36	8.97	6.49	9.43	6.52	10.36	6.99	10.71	6.80
	24			6.92	5.61	8.28	6.36	8.97	6.49	9.39	6.51	10.23	6.95	10.56	6.75
	26			6.91	5.61	8.24	6.34	8.88	6.46	9.28	6.47	10.07	6.88	10.40	6.69
	28	6.26	5.54	6.90	5.60	8.21	6.33	8.80	6.43	9.17	6.43	9.91	6.82	10.24	6.63
24 (m³/min)	30	6.26	5.54	6.89	5.60	8.14	6.29	8.71	6.40	9.06	6.39	9.75	6.75	10.08	6.59
	32	6.26	5.54	6.87	5.59	8.08	6.27	8.63	6.37	8.95	6.35	9.60	6.71	9.93	6.53
	34	6.26	5.54	6.85	5.58	8.05	6.26	8.52	6.32	8.81	6.29	9.40	6.63	9.72	6.46
	35	6.26	5.54	6.84	5.58	8.04	6.26	8.46	6.26	8.74	6.27	9.30	6.60	9.62	6.43
	36	6.26	5.54	6.83	5.58	7.98	6.23	8.42	6.28	8.66	6.24	9.13	6.53	9.44	6.33
	38	6.26	5.54	6.81	5.57	7.86	6.18	8.33	6.24	8.49	6.17	8.80	6.39	9.06	6.22
	39	6.26	5.54	6.80	5.56	7.79	6.15	8.29	6.22	8.40	6.14	8.63	6.33	8.88	6.17
	41	6.26	5.54	6.78	5.55	7.56	6.05	7.95	6.09	8.05	5.99	8.25	6.21	8.46	6.04
	43	6.26	5.54	6.75	5.54	7.33	5.95	7.61	5.94	7.70	5.86	7.86	6.07	8.04	5.89

Model **FDT112KXE6A**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			10.19	7.65	12.18	8.69	13.18	8.93	14.02	9.06	15.70	9.77	16.30	9.50
	12			10.19	7.65	12.18	8.69	13.18	8.93	14.00	9.05	15.65	9.75	16.23	9.46
	14			10.19	7.65	12.18	8.69	13.18	8.93	13.98	9.04	15.59	9.73	16.16	9.44
	16			10.19	7.65	12.18	8.69	13.18	8.93	13.96	9.04	15.53	9.70	16.09	9.42
	18			10.19	7.65	12.18	8.69	13.18	8.93	13.94	9.03	15.48	9.68	16.02	9.39
	20			10.19	7.65	12.18	8.69	13.18	8.93	13.92	9.02	15.42	9.66	15.95	9.37
	22			10.17	7.64	12.18	8.69	13.18	8.93	13.86	9.00	15.22	9.56	15.73	9.28
	24			10.16	7.64	12.17	8.68	13.18	8.93	13.79	8.96	15.03	9.49	15.52	9.16
	26			10.15	7.64	12.11	8.66	13.05	8.86	13.63	8.89	14.79	9.39	15.28	9.09
	28	9.20	7.52	10.14	7.63	12.06	8.62	12.93	8.80	13.47	8.82	14.55	9.27	15.04	9.02
30 (m³/min)	30	9.20	7.52	10.12	7.62	11.96	8.59	12.80	8.76	13.31	8.76	14.33	9.20	14.82	9.84
	32	9.20	7.52	10.09	7.61	11.87	8.54	12.68	8.70	13.16	8.69	14.11	9.11	14.59	8.85
	34	9.20	7.52	10.06	7.60	11.83	8.52	12.51	8.62	12.95	8.60	13.81	9.00	14.29	8.73
	35	9.20	7.52	10.04	7.59	11.81	8.49	12.43	8.58	12.84	8.55	13.66	8.93	14.14	8.69
	36	9.20	7.52	10.03	7.58	11.72	8.45	12.37	8.55	12.72	8.51	13.42	8.84	13.86	8.57
	38	9.20	7.52	10.01	7.58	11.54	8.38	12.24	8.50	12.47	8.39	12.93	8.65	13.31	8.35
	39	9.20	7.52	9.99	7.57	11.45	8.35	12.18	8.47	12.35	8.32	12.68	8.54	13.04	8.27
	41	9.20	7.52	9.96	7.54	11.11	8.20	11.68	8.26	11.83	8.12	12.12	8.33	12.43	8.08
	43	9.20	7.52	9.92	7.53	10.77	8.05	11.19	8.05	11.31	7.91	11.56	8.13	11.82	7.88

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	8.05	8.05	8.05	8.05	8.05	
	-17.8	-18	8.57	8.57	8.57	8.57	8.57	
	-15.7	-16	9.09	9.09	9.09	9.09	9.09	
	-13.7	-14	9.60	9.60	9.60	9.60	9.60	
	-11.7	-12	10.12	10.12	10.12	10.12	10.12	
	-9.6	-10	10.64	10.64	10.64	10.64	10.64	
	-7.5	-8	11.29	11.29	11.29	11.29	11.29	
	-5.5	-6	11.94	11.94	11.94	11.94	11.94	
	-3.4	-4	12.35	12.34	12.32	12.20	12.08	
	-1.3	-2	12.77	12.73	12.70	12.46	12.21	
30 (m³/min)	0.8	0	13.46	13.27	13.08	12.61	12.15	
	3.9	3	14.61	14.09	13.57	12.80	12.04	
	7.0	6	15.96	14.92	13.88	12.91	11.94	
	10.1	9	15.86	14.84	13.83	12.83	11.83	
	13.2	12	15.75	14.75	13.74	12.73	11.73	
	16.9	15.5	15.63	14.63	13.62	12.61	11.61	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			9.18	6.90	10.97	7.82	11.87	8.04	12.63	8.16	14.15	8.80	14.69	8.56
	12			9.18	6.90	10.97	7.82	11.87	8.04	12.61	8.15	14.10	8.78	14.63	8.52
	14			9.18	6.90	10.97	7.82	11.87	8.04	12.60	8.15	14.05	8.76	14.56	8.50
	16			9.18	6.90	10.97	7.82	11.87	8.04	12.58	8.14	14.00	8.73	14.50	8.49
	18			9.18	6.90	10.97	7.82	11.87	8.04	12.56	8.13	13.94	8.71	14.44	8.45
	20			9.18	6.90	10.97	7.82	11.87	8.04	12.55	8.13	13.89	8.70	14.37	8.43
	22			9.17	6.89	10.97	7.82	11.87	8.04	12.49	8.11	13.72	8.63	14.18	8.36
	24			9.15	6.88	10.97	7.82	11.87	8.04	12.43	8.07	13.54	8.54	13.98	8.25
	26			9.15	6.88	10.92	7.80	11.76	7.98	12.28	8.00	13.33	8.46	13.77	8.18
	28	8.29	6.77	9.14	6.87	10.86	7.76	11.65	7.93	12.14	7.95	13.11	8.35	13.55	8.12
27 (m³/min)	30	8.29	6.77	9.12	6.87	10.78	7.73	11.54	7.89	12.00	7.89	12.91	8.28	13.35	8.05
	32	8.29	6.77	9.09	6.85	10.70	7.69	11.42	7.83	11.85	7.83	12.71	8.20	13.15	7.97
	34	8.29	6.77	9.06	6.84	10.66	7.67	11.27	7.76	11.66	7.74	12.45	8.10	12.87	7.86
	35	8.29	6.77	9.05	6.84	10.64	7.64	11.20	7.73	11.57	7.70	12.31	8.05	12.74	7.82
	36	8.29	6.77	9.04	6.83	10.56	7.61	11.14	7.70	11.46	7.66	12.09	7.96	12.49	7.74
	38	8.29	6.77	9.02	6.82	10.40	7.55	11.03	7.66	11.24	7.56	11.65	7.79	12.00	7.52
	39	8.29	6.77	9.00	6.82	10.32	7.52	10.98	7.64	11.13	7.49	11.43	7.71	11.75	7.45
	41	8.29	6.77	8.97	6.80	10.01	7.39	10.53	7.44	10.66	7.31	10.92	7.50	11.20	7.28
	43	8.29	6.77	8.94	6.78	9.70	7.24	10.08	7.25	10.19	7.12	10.41	7.31	10.65	7.09

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	7.25	7.25	7.25	7.25	7.25	
	-17.8	-18	7.72	7.72	7.72	7.72	7.72	
	-15.7	-16	8.18	8.18	8.18	8.18	8.18	
	-13.7	-14	8.65	8.65	8.65	8.65	8.65	
	-11.7	-12	9.12	9.12	9.12	9.12	9.12	
	-9.6	-10	9.58	9.58	9.58	9.58	9.58	
	-7.5	-8	10.17	10.17	10.17	10.17	10.17	
	-5.5	-6	10.75	10.75	10.75	10.75	10.75	
	-3.4	-4	11.13	11.11	11.09	10.98	10.88	
	-1.3	-2	11.50	11.47	11.44	11.22	11.00	
27 (m³/min)	0.8	0	12.13	11.95	11.78	11.36	10.94	
	3.9	3	13.16	12.69	12.22	11.53	10.84	
	7.0	6	14.38	13.44	12.50	11.63	10.75	
	10.1	9	14.28	13.37	12.45	11.55	10.66	
	13.2	12	14.19	13.28	12.38	11.47	10.56	
	16.9	15.5	14.08	13.17	12.27	11.36	10.45	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			8.54	6.34	10.21	7.19	11.05	7.40	11.75	7.52	13.16	8.10	13.67	7.87
	12			8.54	6.34	10.21	7.19	11.05	7.40	11.74	7.52	13.12	8.09	13.61	7.85
	14			8.54	6.34	10.21	7.19	11.05	7.40	11.72	7.51	13.07	8.06	13.55	7.83
	16			8.54	6.34	10.21	7.19	11.05	7.40	11.70	7.50	13.02	8.04	13.49	7.80
	18			8.54	6.34	10.21	7.19	11.05	7.40	11.69	7.50	12.97	8.03	13.43	7.78
	20			8.54	6.34	10.21	7.19	11.05	7.40	11.67	7.48	12.93	8.00	13.37	7.75
	22			8.53	6.33	10.21	7.19	11.05	7.40	11.62	7.46	12.76	7.93	13.19	7.69
	24			8.52	6.33	10.20	7.19	11.05	7.40	11.56	7.44	12.60	7.87	13.01	7.62
	26			8.51	6.32	10.15	7.17	10.94	7.34	11.43	7.38	12.40	7.77	12.81	7.52
24 (m³/min)	28	7.71	6.22	8.50	6.32	10.15	7.17	10.84	7.30	11.29	7.32	12.20	7.67	12.61	7.46
	30	7.71	6.22	8.48	6.29	10.03	7.09	10.73	7.25	11.16	7.26	12.01	7.61	12.42	7.39
	32	7.71	6.22	8.46	6.28	9.95	7.06	10.63	7.20	11.03	7.20	11.83	7.55	12.23	7.32
	34	7.71	6.22	8.43	6.27	9.92	7.05	10.49	7.14	10.85	7.12	11.58	7.44	11.98	7.23
	35	7.71	6.22	8.42	6.26	9.90	7.04	10.42	7.09	10.76	7.08	11.45	7.39	11.85	7.18
	36	7.71	6.22	8.41	6.26	9.82	7.01	10.37	7.08	10.66	7.04	11.25	7.31	11.62	7.09
	38	7.71	6.22	8.39	6.25	9.68	6.95	10.26	7.02	10.45	6.93	10.84	7.15	11.16	6.90
	39	7.71	6.22	8.38	6.25	9.60	6.91	10.21	7.00	10.35	6.90	10.63	7.03	10.93	6.83
	41	7.71	6.22	8.35	6.23	9.31	6.77	9.79	6.83	9.92	6.72	10.16	6.88	10.42	6.66
	43	7.71	6.22	8.32	6.22	9.02	6.65	9.38	6.66	9.48	6.54	9.69	6.71	9.91	6.46

Model **FDT140KXE6A** Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			12.51	9.26	14.95	10.51	16.18	10.81	17.21	10.97	19.28	11.84	20.02	11.50
	12			12.51	9.26	14.95	10.51	16.18	10.81	17.19	10.96	19.21	11.81	19.93	11.47
	14			12.51	9.26	14.95	10.51	16.18	10.81	17.16	10.95	19.14	11.79	19.84	11.44
	16			12.51	9.26	14.95	10.51	16.18	10.81	17.14	10.94	19.07	11.76	19.76	11.37
	18			12.51	9.26	14.95	10.51	16.18	10.81	17.12	10.93	19.00	11.72	19.67	11.34
	20			12.51	9.26	14.95	10.51	16.18	10.81	17.09	10.92	18.93	11.70	19.58	11.31
	22			12.49	9.25	14.95	10.51	16.18	10.81	17.01	10.89	18.69	11.56	19.32	11.22
	24			12.47	9.24	14.94	10.50	16.18	10.81	16.93	10.86	18.45	11.47	19.05	11.13
	26			12.46	9.24	14.87	10.48	16.02	10.74	16.73	10.78	18.16	11.37	18.76	11.02
	28	11.29	9.09	12.45	9.24	14.80	10.45	15.87	10.66	16.54	10.69	17.87	11.25	18.46	10.91
33 (m³/min)	30	11.29	9.09	12.42	9.22	14.69	10.39	15.72	10.60	16.34	10.61	17.60	11.14	18.19	10.80
	32	11.29	9.09	12.39	9.21	14.57	10.34	15.57	10.53	16.15	10.52	17.32	11.02	17.91	10.70
	34	11.29	9.09	12.35	9.19	14.52	10.31	15.36	10.43	15.89	10.41	16.96	10.88	17.54	10.56
	35	11.29	9.09	12.33	9.15	14.50	10.31	15.26	10.38	15.76	10.36	16.77	10.79	17.36	10.48
	36	11.29	9.09	12.31	9.14	14.39	10.25	15.18	10.36	15.61	10.28	16.47	10.67	17.02	10.36
	38	11.29	9.09	12.28	9.13	14.17	10.15	15.03	10.28	15.31	10.15	15.87	10.45	16.35	10.10
	39	11.29	9.09	12.27	9.13	14.06	10.10	14.95	10.25	15.16	10.10	15.57	10.29	16.01	9.99
	41	11.29	9.09	12.23	9.11	13.64	9.91	14.34	9.98	14.52	9.82	14.88	10.06	15.26	9.74
	43	11.29	9.09	12.18	9.09	13.22	9.71	13.73	9.69	13.88	9.54	14.19	9.79	14.51	9.47

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.				
			16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
	DB	WB					
Uhi	-19.8	-20	10.12	10.12	10.12	10.12	10.12
	-17.8	-18	10.77	10.77	10.77	10.77	10.77
	-15.7	-16	11.42	11.42	11.42	11.42	11.42
	-13.7	-14	12.07	12.07	12.07	12.07	12.07
	-11.7	-12	12.72	12.72	12.72	12.72	12.72
	-9.6	-10	13.37	13.37	13.37	13.37	13.37
	-7.5	-8	14.18	14.18	14.18	14.18	14.18
	-5.5	-6	15.00	15.00	15.00	15.00	15.00
	-3.4	-4	15.52	15.50	15.48	15.33	15.17
	-1.3	-2	16.04	16.00	15.96	15.65	15.35
33 (m³/min)	0.8	0	16.92	16.68	16.44	15.85	15.26
	3.9	3	18.36	17.70	17.05	16.09	15.13
	7.0	6	20.06	18.75	17.44	16.22	15.00
	10.1	9	19.93	18.65	17.37	16.12	14.87
	13.2	12	19.79	18.53	17.27	16.00	14.74
	16.9	15.5	19.64	18.38	17.11	15.85	14.58

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 "CDB 14 "CWB		23 "CDB 16 "CWB		26 "CDB 18 "CWB		27 "CDB 19 "CWB		28 "CDB 20 "CWB		31 "CDB 22 "CWB		33 "CDB 24 "CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			11.48	8.51	13.72	9.66	14.84	9.92	15.79	10.09	17.69	10.86	18.36	10.56
	12			11.48	8.51	13.72	9.66	14.84	9.92	15.77	10.09	17.62	10.83	18.28	10.53
	14			11.48	8.51	13.72	9.66	14.84	9.92	15.75	10.06	17.56	10.81	18.20	10.49
	16			11.48	8.51	13.72	9.66	14.84	9.92	15.72	10.05	17.49	10.78	18.13	10.47
	18			11.48	8.51	13.72	9.66	14.84	9.92	15.70	10.04	17.43	10.76	18.05	10.44
	20			11.48	8.51	13.72	9.66	14.84	9.92	15.68	10.04	17.37	10.74	17.97	10.40
	22			11.46	8.50	13.71	9.65	14.84	9.92	15.61	10.01	17.15	10.64	17.72	10.32
	24			11.44	8.49	13.71	9.65	14.84	9.92	15.54	9.98	16.93	10.55	17.48	10.22
	26			11.43	8.48	13.64	9.61	14.70	9.86	15.35	9.89	16.66	10.44	17.21	10.12
	28	10.36	8.35	11.42	8.48	13.58	9.58	14.56	9.79	15.17	9.81	16.39	10.32	16.94	10.01
30 (m³/min)	30	10.36	8.35	11.40	8.47	13.48	9.52	14.42	9.73	14.99	9.74	16.14	10.22	16.69	9.91
	32	10.36	8.35	11.37	8.46	13.37	9.47	14.28	9.66	14.82	9.66	15.89	10.11	16.43	9.82
	34	10.36	8.35	11.33	8.44	13.32	9.45	14.09	9.58	14.58	9.55	15.56	9.98	16.09	9.65
	35	10.36	8.35	11.31	8.43	13.30	9.44	14.00	9.52	14.46	9.50	15.39	9.92	15.92	9.60
	36	10.36	8.35	11.30	8.43	13.20	9.40	13.93	9.50	14.32	9.43	15.11	9.78	15.61	9.50
	38	10.36	8.35	11.27	8.41	13.00	9.31	13.79	9.42	14.05	9.30	14.56	9.58	15.00	9.29
	39	10.36	8.35	11.26	8.40	12.90	9.27	13.72	9.39	13.91	9.25	14.28	9.47	14.69	9.18
	41	10.36	8.35	11.22	8.38	12.51	9.10	13.16	9.17	13.32	9.01	13.65	9.22	14.00	8.93
	43	10.36	8.35	11.18	8.36	12.13	8.93	12.60	8.92	12.74	8.78	13.02	8.99	13.31	8.70

Air flow	Outdoor air temp.		Indoor air temp.				
			16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
	DB	WB					
Hi	-19.8	-20	9.28	9.28	9.28	9.28	9.28
	-17.8	-18	9.88	9.88	9.88	9.88	9.88
	-15.7	-16	10.47	10.47	10.47	10.47	10.47
	-13.7	-14	11.07	11.07	11.07	11.07	11.07
	-11.7	-12	11.67	11.67	11.67	11.67	11.67
	-9.6	-10	12.27	12.27	12.27	12.27	12.27
	-7.5	-8	13.01	13.01	13.01	13.01	13.01
	-5.5	-6	13.76	13.76	13.76	13.76	13.76
	-3.4	-4	14.24	14.22	14.20	14.06	13.92
	-1.3	-2	14.72	14.68	14.64	14.36	14.08
30 (m³/min)	0.8	0	15.52	15.30	15.08	14.54	14.00
	3.9	3	16.84	16.24	15.64	14.76	13.88
	7.0	6	18.40	17.20	16.00	14.88	13.76
	10.1	9	18.28	17.11	15.94	14.79	13.64
	13.2	12	18.16	17.00	15.84	14.68	13.52
	16.9	15.5	18.02	16.86	15.70	14.54	13.38

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			10.56	7.71	12.62	8.75	13.65	9.01	14.53	9.17	16.27	9.86	16.89	9.59
	12			10.56	7.71	12.62	8.75	13.65	9.01	14.51	9.17	16.21	9.84	16.82	9.57
	14			10.56	7.71	12.62	8.75	13.65	9.01	14.49	9.14	16.15	9.82	16.75	9.53
	16			10.56	7.71	12.62	8.75	13.65	9.01	14.47	9.14	16.09	9.79	16.68	9.50
	18			10.56	7.71	12.62	8.75	13.65	9.01	14.45	9.13	16.04	9.78	16.60	9.47
	20			10.56	7.71	12.62	8.75	13.65	9.01	14.43	9.12	15.98	9.75	16.53	9.44
	22			10.54	7.70	12.62	8.75	13.65	9.01	14.36	9.09	15.77	9.66	16.30	9.35
	24			10.53	7.69	12.61	8.75	13.65	9.01	14.29	9.05	15.57	9.57	16.08	9.27
	26			10.52	7.69	12.55	8.70	13.52	8.94	14.12	8.99	15.33	9.47	15.83	9.17
	28	9.53	7.56	10.51	7.68	12.49	8.67	13.40	8.90	13.96	8.91	15.08	9.36	15.58	9.06
27 (m³/min)	30	9.53	7.56	10.48	7.67	12.40	8.63	13.27	8.83	13.79	8.83	14.85	9.27	15.35	8.95
	32	9.53	7.56	10.46	7.66	12.30	8.59	13.14	8.77	13.63	8.76	14.62	9.17	15.12	8.87
	34	9.53	7.56	10.42	7.64	12.26	8.58	12.97	8.68	13.41	8.66	14.31	9.02	14.81	8.77
	35	9.53	7.56	10.41	7.64	12.24	8.57	12.88	8.63	13.31	8.62	14.16	8.97	14.65	8.71
	36	9.53	7.56	10.39	7.62	12.14	8.53	12.82	8.60	13.18	8.54	13.90	8.87	14.37	8.61
	38	9.53	7.56	10.37	7.61	11.96	8.44	12.69	8.55	12.92	8.44	13.40	8.67	13.80	8.40
	39	9.53	7.56	10.36	7.61	11.87	8.40	12.62	8.52	12.80	8.39	13.14	8.56	13.51	8.29
	41	9.53	7.56	10.32	7.59	11.51	8.23	12.11	8.31	12.26	8.16	12.56	8.34	12.28	8.03
	43	9.53	7.56	10.28	7.57	11.16	8.08	11.59	8.07	11.72	7.93	11.97	8.08	12.25	7.83

Model **FDT160KXE6A** Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			13.94	9.93	16.66	11.29	18.02	11.62	19.17	11.87	21.48	12.80	22.30	12.41
	12			13.94	9.93	16.66	11.29	18.02	11.62	19.15	11.86	21.40	12.76	22.20	12.36
	14			13.94	9.93	16.66	11.29	18.02	11.62	19.12	11.85	21.32	12.73	22.11	12.33
	16			13.94	9.93	16.66	11.29	18.02	11.62	19.09	11.83	21.24	12.68	22.01	12.28
	18			13.94	9.93	16.66	11.29	18.02	11.62	19.07	11.83	21.16	12.65	21.91	12.24
	20			13.94	9.93	16.66	11.29	18.02	11.62	19.04	11.81	21.09	12.61	21.82	12.20
	22			13.92	9.90	16.65	11.29	18.02	11.62	18.95	11.76	20.82	12.49	21.52	12.08
	24			13.90	9.89	16.65	11.29	18.02	11.62	18.86	11.73	20.55	12.38	21.22	11.96
	26			13.88	9.88	16.57	11.25	17.85	11.55	18.64	11.62	20.23	12.23	20.90	11.81
	28	12.58	9.72	13.87	9.87	16.49	11.22	17.68	11.48	18.42	11.49	19.91	12.06	20.57	11.69
33 (m³/min)	30	12.58	9.72	13.84	9.86	16.36	11.15	17.51	11.40	18.21	11.41	19.60	11.95	20.26	11.56
	32	12.58	9.72	13.80	9.84	16.24	11.08	17.34	11.33	17.99	11.32	19.30	11.82	19.95	11.44
	34	12.58	9.72	13.76	9.83	16.18	11.06	17.11	11.22	17.71	11.18	18.89	11.64	19.54	11.27
	35	12.58	9.72	13.74	9.82	16.15	11.04	17.00	11.22	17.56	11.12	18.69	11.55	19.34	11.19
	36	12.58	9.72	13.72	9.81	16.03	10.99	16.92	11.12	17.39	11.04	18.35	11.42	18.96	11.05
	38	12.58	9.72	13.69	9.79	15.78	10.87	16.75	11.04	17.06	10.89	17.68	11.10	18.21	10.76
	39	12.58	9.72	13.67	9.79	15.66	10.81	16.66	11.00	16.89	10.81	17.34	10.98	17.83	10.62
	41	12.58	9.72	13.62	9.76	15.19	10.57	15.98	10.68	16.18	10.49	16.57	10.67	17.00	10.31
	43	12.58	9.72	13.57	9.74	14.72	10.36	15.30	10.37	15.47	10.19	15.80	10.36	16.16	10.01

Heat Mode

Air flow	Outdoor air temp,		Indoor air temp,				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi	-19.8	-20	11.09	11.09	11.09	11.09	11.09
	-17.8	-18	11.80	11.80	11.80	11.80	11.80
	-15.7	-16	12.52	12.52	12.52	12.52	12.52
	-13.7	-14	13.23	13.23	13.23	13.23	13.23
	-11.7	-12	13.94	13.94	13.94	13.94	13.94
	-9.6	-10	14.66	14.66	14.66	14.66	14.66
	-7.5	-8	15.55	15.55	15.55	15.55	15.55
	-5.5	-6	16.44	16.44	16.44	16.44	16.44
	-3.4	-4	17.02	16.99	16.97	16.80	16.63
	-1.3	-2	17.59	17.54	17.49	17.16	16.83
33 (m³/min)	0.8	0	18.55	18.28	18.02	17.38	16.73
	3.9	3	20.12	19.41	18.69	17.64	16.59
	7.0	6	21.99	20.55	19.12	17.78	16.44
	10.1	9	21.84	20.45	19.05	17.67	16.30
	13.2	12	21.70	20.32	18.93	17.54	16.16
	16.9	15.5	21.53	20.15	18.76	17.38	15.99

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			13.12	9.26	15.68	10.53	16.96	10.88	18.04	11.09	20.21	11.95	20.99	11.56
	12			13.12	9.26	15.68	10.53	16.96	10.88	18.02	11.08	20.14	11.91	20.90	11.52
	14			13.12	9.26	15.68	10.53	16.96	10.88	18.00	11.07	20.07	11.89	20.81	11.49
	16			13.12	9.26	15.68	10.53	16.96	10.88	17.97	11.05	19.99	11.84	20.72	11.46
	18			13.12	9.26	15.68	10.53	16.96	10.88	17.95	11.04	19.92	11.79	20.62	11.43
	20			13.12	9.26	15.68	10.53	16.96	10.88	17.92	11.03	19.85	11.76	20.53	11.38
	22			13.10	9.23	15.67	10.53	16.96	10.88	17.84	11.00	19.60	11.67	20.25	11.17
	24			13.08	9.23	15.67	10.53	16.96	10.88	17.75	10.95	19.34	11.54	19.97	11.15
	26			13.07	9.22	15.59	10.49	16.80	10.79	17.55	10.85	19.04	11.41	19.67	11.03
	28	11.84	9.04	13.06	9.22	15.52	10.45	16.64	10.71	17.34	10.75	18.73	11.27	19.36	10.90
30 (m³/min)	30	11.84	9.04	13.02	9.20	15.40	10.40	16.48	10.63	17.14	10.66	18.45	11.14	19.07	10.75
	32	11.84	9.04	12.99	9.19	15.28	10.34	16.32	10.54	16.93	10.56	18.16	10.99	18.78	10.66
	34	11.84	9.04	12.95	9.17	15.23	10.31	16.11	10.45	16.66	10.41	17.78	10.85	18.39	10.50
	35	11.84	9.04	12.93	9.16	15.20	10.30	16.00	10.40	16.53	10.36	17.59	10.76	18.20	10.42
	36	11.84	9.04	12.91	9.15	15.09	10.24	15.92	10.36	16.37	10.29	17.27	10.62	17.85	10.29
	38	11.84	9.04	12.88	9.14	14.86	10.13	15.76	10.29	16.05	10.14	16.64	10.35	17.14	10.02
	39	11.84	9.04	12.86	9.11	14.74	10.06	15.68	10.25	15.89	10.06	16.32	10.22	16.79	9.86
	41	11.84	9.04	12.82	9.10	14.30	9.85	15.04	9.95	15.23	9.77	15.60	9.92	16.00	9.57
	43	11.84	9.04	12.77	9.07	13.86	9.63	14.40	9.65	14.56	9.45	14.87	9.62	15.21	9.28

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	10.44	10.44	10.44	10.44	10.44
	-17.8	-18	11.11	11.11	11.11	11.11	11.11
	-15.7	-16	11.78	11.78	11.78	11.78	11.78
	-13.7	-14	12.46	12.46	12.46	12.46	12.46
	-11.7	-12	13.13	13.13	13.13	13.13	13.13
	-9.6	-10	13.80	13.80	13.80	13.80	13.80
	-7.5	-8	14.64	14.64	14.64	14.64	14.64
	-5.5	-6	15.48	15.48	15.48	15.48	15.48
	-3.4	-4	16.02	16.00	15.98	15.82	15.66
	-1.3	-2	16.56	16.52	16.47	16.16	15.84
30 (m³/min)	0.8	0	17.46	17.21	16.97	16.36	15.75
	3.9	3	18.95	18.27	17.60	16.61	15.62
	7.0	6	20.70	19.35	18.00	16.74	15.48
	10.1	9	20.57	19.25	17.93	16.64	15.35
	13.2	12	20.43	19.13	17.82	16.52	15.21
	16.9	15.5	20.27	18.97	17.66	16.36	15.05

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			12.07	8.54	14.42	9.72	15.60	10.02	16.60	10.22	18.60	11.02	19.31	10.68
	12			12.07	8.54	14.42	9.72	15.60	10.02	16.58	10.21	18.53	10.98	19.22	10.64
	14			12.07	8.54	14.42	9.72	15.60	10.02	16.56	10.20	18.46	10.95	19.14	10.60
	16			12.07	8.54	14.42	9.72	15.60	10.02	16.53	10.19	18.39	10.93	19.06	10.57
	18			12.07	8.54	14.42	9.72	15.60	10.02	16.51	10.18	18.33	10.89	18.97	10.54
	20			12.07	8.54	14.42	9.72	15.60	10.02	16.49	10.17	18.26	10.86	18.89	10.50
	22			12.05	8.53	14.42	9.72	15.60	10.02	16.41	10.14	18.03	10.76	18.63	10.39
	24			12.03	8.52	14.41	9.70	15.60	10.02	16.33	10.09	17.80	10.66	18.38	10.29
	26			12.02	8.51	14.35	9.68	15.46	9.96	16.14	9.99	17.52	10.52	18.09	10.16
27 (m/min)	28	10.89	8.35	12.01	8.51	14.28	9.65	15.31	9.88	15.95	9.91	17.24	10.40	17.81	10.04
	30	10.89	8.35	11.98	8.49	14.17	9.59	15.16	9.81	15.77	9.83	16.97	10.26	17.54	9.94
	32	10.89	8.35	11.95	8.48	14.06	9.54	15.01	9.74	15.58	9.74	16.71	10.16	17.28	9.88
	34	10.89	8.35	11.91	8.46	14.01	9.51	14.82	9.65	15.33	9.63	16.36	10.01	16.92	9.70
	35	10.89	8.35	11.89	8.45	13.98	9.50	14.72	9.57	15.21	9.56	16.18	9.93	16.74	9.62
	36	10.89	8.35	11.88	8.45	13.88	9.45	14.65	9.56	15.06	9.49	15.89	9.81	16.42	9.50
	38	10.89	8.35	11.85	8.42	13.67	9.34	14.50	9.50	14.77	9.36	15.31	9.56	15.77	9.24
	39	10.89	8.35	11.83	8.41	13.56	9.29	14.43	9.46	14.62	9.30	15.02	9.45	15.44	9.09
	41	10.89	8.35	11.79	8.40	13.16	9.08	13.84	9.18	14.01	9.02	14.35	9.15	14.72	8.85
	43	10.89	8.35	11.75	8.38	12.75	8.91	13.25	8.90	13.39	8.74	13.68	8.89	13.99	8.58

(b) Ceiling cassette-4 way compact type (FDTC)**Model** FDTC22KXE6B **Cool Mode**

Air flow	Outdoor air temp.	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			1.98	1.90	2.36	2.22	2.55	2.25	2.72	2.27	3.04	2.48	3.16	2.42
	12			1.98	1.90	2.36	2.22	2.55	2.25	2.71	2.26	3.03	2.47	3.15	2.42
	14			1.98	1.90	2.36	2.22	2.55	2.25	2.71	2.26	3.02	2.46	3.13	2.41
	16			1.98	1.90	2.36	2.22	2.55	2.25	2.71	2.26	3.01	2.46	3.12	2.41
	18			1.98	1.90	2.36	2.22	2.55	2.25	2.70	2.26	3.00	2.46	3.11	2.41
	20			1.98	1.90	2.36	2.22	2.55	2.25	2.70	2.26	2.99	2.46	3.09	2.40
	22			1.97	1.89	2.36	2.22	2.55	2.25	2.69	2.26	2.95	2.44	3.05	2.39
11.4 (m³/min)	24			1.97	1.89	2.36	2.22	2.55	2.25	2.67	2.25	2.91	2.42	3.01	2.38
	26			1.97	1.89	2.35	2.22	2.53	2.24	2.64	2.24	2.87	2.41	2.96	2.36
	28	1.78	1.71	1.97	1.89	2.34	2.22	2.51	2.24	2.61	2.23	2.82	2.40	2.92	2.35
	30	1.78	1.71	1.96	1.88	2.32	2.21	2.48	2.23	2.58	2.22	2.78	2.38	2.87	2.33
	32	1.78	1.71	1.96	1.88	2.30	2.20	2.46	2.22	2.55	2.21	2.74	2.37	2.83	2.32
	34	1.78	1.71	1.95	1.87	2.29	2.19	2.43	2.21	2.51	2.20	2.68	2.35	2.77	2.30
	35	1.78	1.71	1.95	1.87	2.29	2.19	2.41	2.19	2.49	2.20	2.65	2.34	2.74	2.29
	36	1.78	1.71	1.94	1.86	2.27	2.18	2.40	2.20	2.47	2.19	2.60	2.32	2.69	2.28
	38	1.78	1.71	1.94	1.86	2.24	2.15	2.37	2.19	2.42	2.17	2.51	2.29	2.58	2.25
	39	1.78	1.71	1.94	1.86	2.22	2.13	2.36	2.19	2.39	2.16	2.46	2.28	2.53	2.23
41	1.78	1.71	1.93	1.85	2.15	2.06	2.27	2.15	2.29	2.13	2.35	2.24	2.41	2.17	
43	1.78	1.71	1.92	1.84	2.09	2.01	2.17	2.08	2.19	2.09	2.24	2.15	2.29	2.14	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi 11.4 (m³/min)	-19.8	-20	1.63	1.63	1.63	1.63	1.63	
	-17.8	-18	1.73	1.73	1.73	1.73	1.73	
	-15.7	-16	1.84	1.84	1.84	1.84	1.84	
	-13.7	-14	1.94	1.94	1.94	1.94	1.94	
	-11.7	-12	2.05	2.05	2.05	2.05	2.05	
	-9.6	-10	2.15	2.15	2.15	2.15	2.15	
	-7.5	-8	2.29	2.29	2.29	2.29	2.29	
	-5.5	-6	2.42	2.42	2.42	2.42	2.42	
	-3.4	-4	2.50	2.50	2.49	2.47	2.44	
	-1.3	-2	2.59	2.58	2.57	2.52	2.47	
	0.8	0	2.73	2.69	2.65	2.55	2.46	
	3.9	3	2.96	2.85	2.75	2.59	2.44	
	7.0	6	3.23	3.02	2.81	2.61	2.42	
	10.1	9	3.21	3.00	2.80	2.60	2.40	
	13.2	12	3.19	2.99	2.78	2.58	2.37	
16.9	15.5	3.16	2.96	2.76	2.55	2.35		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			1.80	1.73	2.16	1.97	2.33	2.00	2.48	2.02	2.78	2.19	2.89	2.15
	12			1.80	1.73	2.16	1.97	2.33	2.00	2.48	2.02	2.77	2.19	2.87	2.14
	14			1.80	1.73	2.16	1.97	2.33	2.00	2.47	2.02	2.76	2.19	2.86	2.14
	16			1.80	1.73	2.16	1.97	2.33	2.00	2.47	2.02	2.75	2.18	2.85	2.13
	18			1.80	1.73	2.16	1.97	2.33	2.00	2.47	2.02	2.74	2.18	2.84	2.13
	20			1.80	1.73	2.16	1.97	2.33	2.00	2.46	2.01	2.73	2.18	2.82	2.13
	22			1.80	1.73	2.15	1.97	2.33	2.00	2.45	2.01	2.69	2.16	2.78	2.12
	24			1.80	1.73	2.15	1.97	2.33	2.00	2.44	2.01	2.66	2.15	2.75	2.10
9.5 (m/min)	26			1.80	1.73	2.14	1.96	2.31	1.99	2.41	2.00	2.62	2.14	2.70	2.09
	28	1.63	1.56	1.80	1.73	2.13	1.96	2.29	1.99	2.38	1.98	2.58	2.12	2.66	2.07
	30	1.63	1.56	1.79	1.72	2.12	1.96	2.27	1.98	2.36	1.98	2.54	2.11	2.62	2.06
	32	1.63	1.56	1.79	1.72	2.10	1.95	2.24	1.97	2.33	1.97	2.50	2.09	2.58	2.03
	34	1.63	1.56	1.78	1.71	2.09	1.95	2.21	1.96	2.29	1.95	2.44	2.08	2.53	2.02
	35	1.63	1.56	1.78	1.71	2.09	1.95	2.20	1.96	2.27	1.94	2.42	2.05	2.50	2.01
	36	1.63	1.56	1.78	1.71	2.07	1.93	2.19	1.95	2.25	1.94	2.37	2.04	2.45	2.00
	38	1.63	1.56	1.77	1.70	2.04	1.92	2.17	1.94	2.21	1.92	2.29	2.02	2.36	1.98
	39	1.63	1.56	1.77	1.70	2.03	1.92	2.16	1.94	2.19	1.92	2.24	2.00	2.31	1.96
	41	1.63	1.56	1.76	1.69	1.97	1.89	2.07	1.90	2.09	1.88	2.14	1.97	2.20	1.93
43	1.63	1.56	1.76	1.69	1.91	1.83	1.98	1.86	2.00	1.84	2.05	1.95	2.09	1.90	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	1.45	1.45	1.45	1.45	1.45	
	-17.8	-18	1.54	1.54	1.54	1.54	1.54	
	-15.7	-16	1.64	1.64	1.64	1.64	1.64	
	-13.7	-14	1.73	1.73	1.73	1.73	1.73	
	-11.7	-12	1.82	1.82	1.82	1.82	1.82	
	-9.6	-10	1.92	1.92	1.92	1.92	1.92	
	-7.5	-8	2.03	2.03	2.03	2.03	2.03	
	-5.5	-6	2.15	2.15	2.15	2.15	2.15	
	-3.4	-4	2.23	2.22	2.22	2.20	2.18	
	-1.3	-2	2.30	2.29	2.29	2.24	2.20	
9,5 (m/min)	0.8	0	2.43	2.39	2.36	2.27	2.19	
	3.9	3	2.63	2.54	2.44	2.31	2.17	
	7.0	6	2.88	2.69	2.50	2.33	2.15	
	10.1	9	2.86	2.67	2.49	2.31	2.13	
	13.2	12	2.84	2.66	2.48	2.29	2.11	
	16.9	15.5	2.82	2.63	2.45	2.27	2.09	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			1.70	1.60	2.03	1.82	2.19	1.85	2.33	1.86	2.61	2.02	2.72	1.98
	12			1.70	1.60	2.03	1.82	2.19	1.85	2.33	1.86	2.61	2.02	2.70	1.97
	14			1.70	1.60	2.03	1.82	2.19	1.85	2.33	1.86	2.60	2.02	2.69	1.97
	16			1.70	1.60	2.03	1.82	2.19	1.85	2.32	1.86	2.59	2.01	2.68	1.97
	18			1.70	1.60	2.03	1.82	2.19	1.85	2.32	1.86	2.58	2.01	2.67	1.96
	20			1.70	1.60	2.03	1.82	2.19	1.85	2.32	1.86	2.57	2.00	2.66	1.96
	22			1.69	1.60	2.03	1.82	2.19	1.85	2.31	1.86	2.54	1.99	2.62	1.95
	24			1.69	1.60	2.03	1.82	2.19	1.85	2.30	1.85	2.50	1.98	2.58	1.94
8.5 (m³/min)	26			1.69	1.60	2.02	1.81	2.17	1.84	2.27	1.84	2.46	1.97	2.54	1.92
	28	1.53	1.47	1.69	1.60	2.01	1.81	2.15	1.83	2.24	1.83	2.42	1.96	2.50	1.91
	30	1.53	1.47	1.68	1.60	1.99	1.79	2.13	1.82	2.22	1.82	2.39	1.94	2.47	1.88
	32	1.53	1.47	1.68	1.60	1.98	1.79	2.11	1.81	2.19	1.81	2.35	1.93	2.43	1.87
	34	1.53	1.47	1.68	1.60	1.97	1.78	2.08	1.80	2.16	1.80	2.30	1.90	2.38	1.86
	35	1.53	1.47	1.67	1.59	1.97	1.78	2.07	1.80	2.14	1.79	2.28	1.89	2.35	1.85
	36	1.53	1.47	1.67	1.59	1.95	1.78	2.06	1.80	2.12	1.79	2.23	1.88	2.31	1.84
	38	1.53	1.47	1.67	1.59	1.92	1.76	2.04	1.78	2.08	1.76	2.15	1.86	2.22	1.82
39	1.53	1.47	1.66	1.59	1.91	1.76	2.03	1.77	2.06	1.75	2.11	1.84	2.17	1.80	
41	1.53	1.47	1.66	1.59	1.85	1.74	1.95	1.75	1.97	1.72	2.02	1.82	2.07	1.77	
43	1.53	1.47	1.65	1.58	1.79	1.72	1.86	1.72	1.88	1.70	1.92	1.78	1.97	1.75	

Model FDTC28KXE6B Cool Mode

Air flow	Outdoor air temp.	Indoor air temperature																	
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB					
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC				
Uhi	10			2.51	2.19	3.00	2.48	3.24	2.53	3.45	2.56	3.87	2.77	4.01	2.70				
	12			2.51	2.19	3.00	2.48	3.24	2.53	3.45	2.56	3.85	2.77	4.00	2.70				
	14			2.51	2.19	3.00	2.48	3.24	2.53	3.44	2.56	3.84	2.76	3.98	2.69				
	16			2.51	2.19	3.00	2.48	3.24	2.53	3.44	2.56	3.82	2.75	3.96	2.68				
	18			2.51	2.19	3.00	2.48	3.24	2.53	3.43	2.55	3.81	2.75	3.94	2.68				
	20			2.51	2.19	3.00	2.48	3.24	2.53	3.43	2.55	3.80	2.75	3.93	2.68				
	22			2.50	2.19	3.00	2.48	3.24	2.53	3.41	2.54	3.75	2.72	3.87	2.65				
	24			2.50	2.19	3.00	2.48	3.24	2.53	3.40	2.54	3.70	2.71	3.82	2.64				
	26			2.50	2.19	2.98	2.47	3.21	2.52	3.36	2.53	3.64	2.69	3.76	2.62				
	28	2.26	2.17	2.50	2.19	2.97	2.47	3.18	2.51	3.32	2.51	3.58	2.66	3.70	2.60				
11.4 (m/min)	30	2.26	2.17	2.49	2.19	2.95	2.46	3.15	2.49	3.28	2.49	3.53	2.65	3.65	2.56				
	32	2.26	2.17	2.48	2.18	2.92	2.45	3.12	2.48	3.24	2.48	3.47	2.62	3.59	2.55				
	34	2.26	2.17	2.48	2.18	2.91	2.44	3.08	2.46	3.19	2.46	3.40	2.58	3.52	2.53				
	35	2.26	2.17	2.47	2.18	2.91	2.44	3.06	2.45	3.16	2.44	3.36	2.57	3.48	2.52				
	36	2.26	2.17	2.47	2.18	2.89	2.44	3.04	2.45	3.13	2.43	3.30	2.56	3.41	2.50				
	38	2.26	2.17	2.46	2.18	2.84	2.42	3.01	2.44	3.07	2.41	3.18	2.52	3.28	2.46				
	39	2.26	2.17	2.46	2.18	2.82	2.41	3.00	2.44	3.04	2.40	3.12	2.50	3.21	2.44				
	41	2.26	2.17	2.45	2.17	2.73	2.37	2.88	2.38	2.91	2.35	2.98	2.45	3.06	2.39				
	43	2.26	2.17	2.44	2.17	2.65	2.34	2.75	2.33	2.78	2.31	2.84	2.41	2.91	2.34				

Heat Mode

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi		-19.8	-20	2.08	2.08	2.08	2.08	2.08	
		-17.8	-18	2.22	2.22	2.22	2.22	2.22	
		-15.7	-16	2.35	2.35	2.35	2.35	2.35	
		-13.7	-14	2.48	2.48	2.48	2.48	2.48	
		-11.7	-12	2.62	2.62	2.62	2.62	2.62	
		-9.6	-10	2.75	2.75	2.75	2.75	2.75	
		-7.5	-8	2.92	2.92	2.92	2.92	2.92	
		-5.5	-6	3.09	3.09	3.09	3.09	3.09	
		-3.4	-4	3.20	3.19	3.19	3.15	3.12	
		-1.3	-2	3.30	3.29	3.28	3.22	3.16	
11.4 (m/min)		0.8	0	3.48	3.43	3.38	3.26	3.14	
		3.9	3	3.78	3.64	3.51	3.31	3.11	
		7.0	6	4.13	3.86	3.59	3.34	3.09	
		10.1	9	4.10	3.84	3.58	3.32	3.06	
		13.2	12	4.07	3.81	3.55	3.29	3.03	
		16.9	15.5	4.04	3.78	3.52	3.26	3.00	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature																	
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB					
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC				
Hi	10			2.30	1.96	2.74	2.20	2.97	2.26	3.16	2.29	3.54	2.47	3.67	2.41				
	12			2.30	1.96	2.74	2.20	2.97	2.26	3.15	2.28	3.52	2.46	3.66	2.41				
	14			2.30	1.96	2.74	2.20	2.97	2.26	3.15	2.28	3.51	2.46	3.64	2.40				
	16			2.30	1.96	2.74	2.20	2.97	2.26	3.14	2.27	3.50	2.45	3.63	2.39				
	18			2.30	1.96	2.74	2.20	2.97	2.26	3.14	2.27	3.49	2.45	3.61	2.39				
	20			2.30	1.96	2.74	2.20	2.97	2.26	3.14	2.27	3.47	2.45	3.59	2.38				
	22			2.29	1.96	2.74	2.20	2.97	2.26	3.12	2.27	3.43	2.43	3.54	2.36				
	24			2.29	1.96	2.74	2.20	2.97	2.26	3.11	2.26	3.39	2.42	3.50	2.34				
	26			2.29	1.96	2.73	2.20	2.94	2.25	3.07	2.25	3.33	2.39	3.44	2.32				
	28	2.07	1.93	2.28	1.95	2.72	2.20	2.91	2.22	3.03	2.23	3.28	2.36	3.39	2.31				
9.5 (m/min)	30	2.07	1.93	2.28	1.95	2.70	2.19	2.88	2.21	3.00	2.21	3.23	2.35	3.34	2.29				
	32	2.07	1.93	2.27	1.94	2.67	2.18	2.86	2.20	2.96	2.20	3.18	2.33	3.29	2.28				
	34	2.07	1.93	2.27	1.94	2.66	2.18	2.82	2.19	2.92	2.18	3.11	2.31	3.22	2.26				
	35	2.07	1.93	2.26	1.94	2.66	2.18	2.80	2.18	2.89	2.17	3.08	2.30	3.18	2.25				
	36	2.07	1.93	2.26	1.94	2.64	2.17	2.79	2.18	2.86	2.16	3.02	2.28	3.12	2.22				
	38	2.07	1.93	2.25	1.94	2.60	2.15	2.76	2.17	2.81	2.15	2.91	2.24	3.00	2.19				
	39	2.07	1.93	2.25	1.94	2.58	2.14	2.74	2.16	2.78	2.14	2.86	2.22	2.94	2.16				
	41	2.07	1.93	2.24	1.93	2.50	2.11	2.63	2.12	2.66	2.09	2.73	2.18	2.80	2.12				
	43	2.07	1.93	2.24	1.93	2.43	2.08	2.52	2.07	2.55	2.05	2.60	2.13	2.66	2.07				

Air flow		Outdoor air temp.		Indoor air temp.				
		DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	9.5 (m/min)	-19.8	-20	1.86	1.86	1.86	1.86	1.86
		-17.8	-18	1.98	1.98	1.98	1.98	1.98
		-15.7	-16	2.09	2.09	2.09	2.09	2.09
		-13.7	-14	2.21	2.21	2.21	2.21	2.21
		-11.7	-12	2.33	2.33	2.33	2.33	2.33
		-9.6	-10	2.45	2.45	2.45	2.45	2.45
		-7.5	-8	2.60	2.60	2.60	2.60	2.60
		-5.5	-6	2.75	2.75	2.75	2.75	2.75
		-3.4	-4	2.85	2.84	2.84	2.81	2.78
		-1.3	-2	2.94	2.94	2.93	2.87	2.82
	0.8	0	3.10	3.06	3.02	2.91	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature																	
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB					
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC				
Me	10			2.16	1.81	2.59	2.05	2.80	2.08	2.98	2.12	3.34	2.29	3.46	2.23				
	12			2.16	1.81	2.59	2.05	2.80	2.08	2.97	2.11	3.32	2.28	3.45	2.23				
	14			2.16	1.81	2.59	2.05	2.80	2.08	2.97	2.11	3.31	2.28	3.43	2.22				
	16			2.16	1.81	2.59	2.05	2.80	2.08	2.97	2.11	3.30	2.27	3.42	2.21				
	18			2.16	1.81	2.59	2.05	2.80	2.08	2.96	2.11	3.29	2.27	3.40	2.21				
	20			2.16	1.81	2.59	2.05	2.80	2.08	2.96	2.11	3.27	2.26	3.39	2.20				
	22			2.16	1.81	2.59	2.05	2.80	2.08	2.94	2.10	3.23	2.24	3.34	2.19				
	24			2.16	1.81	2.58	2.04	2.80	2.08	2.93	2.10	3.19	2.23	3.30	2.16				
	26			2.16	1.81	2.57	2.04	2.77	2.07	2.90	2.09	3.14	2.21	3.25	2.15				
	8.5 (m³/min)	28	1.95	1.78	2.15	1.80	2.56	2.03	2.75	2.06	2.86	2.06	3.09	2.18	3.19	2.13			
30		1.95	1.78	2.15	1.80	2.54	2.02	2.72	2.05	2.83	2.05	3.04	2.17	3.15	2.12				
32		1.95	1.78	2.14	1.80	2.52	2.02	2.69	2.04	2.79	2.04	3.00	2.16	3.10	2.11				
34		1.95	1.78	2.14	1.80	2.51	2.01	2.66	2.03	2.75	2.02	2.93	2.14	3.03	2.08				
35		1.95	1.78	2.13	1.79	2.51	2.01	2.64	2.03	2.73	2.02	2.90	2.12	3.00	2.07				
36		1.95	1.78	2.13	1.79	2.49	2.00	2.63	2.02	2.70	2.01	2.85	2.11	2.94	2.05				
38		1.95	1.78	2.13	1.79	2.45	1.99	2.60	2.01	2.65	1.99	2.75	2.07	2.83	2.02				
39		1.95	1.78	2.12	1.79	2.43	1.98	2.59	2.00	2.62	1.97	2.69	2.05	2.77	2.00				
41		1.95	1.78	2.12	1.79	2.36	1.95	2.48	1.96	2.51	1.93	2.57	2.00	2.64	1.95				
43		1.95	1.78	2.11	1.79	2.29	1.92	2.38	1.92	2.40	1.89	2.45	1.96	2.51	1.91				

Model FDT36KXE6B Cool Mode

Air flow	Outdoor air temp.	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.34	2.91	3.99	3.29	4.31	3.34	4.59	3.39	5.14	3.66	5.34	3.58
	12			3.34	2.91	3.99	3.29	4.31	3.34	4.58	3.38	5.12	3.66	5.32	3.57
	14			3.34	2.91	3.99	3.29	4.31	3.34	4.58	3.38	5.10	3.65	5.29	3.55
	16			3.34	2.91	3.99	3.29	4.31	3.34	4.57	3.38	5.09	3.64	5.27	3.55
	18			3.34	2.91	3.99	3.29	4.31	3.34	4.57	3.38	5.07	3.64	5.25	3.54
	20			3.34	2.91	3.99	3.29	4.31	3.34	4.56	3.38	5.05	3.63	5.22	3.53
	22			3.33	2.90	3.99	3.29	4.31	3.34	4.54	3.37	4.98	3.60	5.15	3.51
	24			3.33	2.90	3.99	3.29	4.31	3.34	4.52	3.36	4.92	3.58	5.08	3.49
	26			3.32	2.90	3.97	3.28	4.27	3.33	4.46	3.33	4.84	3.55	5.00	3.46
	28	3.01	2.86	3.32	2.90	3.95	3.27	4.23	3.31	4.41	3.31	4.77	3.53	4.92	3.42
12 (m/min)	30	3.01	2.86	3.31	2.89	3.92	3.25	4.19	3.30	4.36	3.30	4.69	3.50	4.85	3.40
	32	3.01	2.86	3.30	2.89	3.89	3.24	4.15	3.28	4.31	3.28	4.62	3.46	4.78	3.37
	34	3.01	2.86	3.29	2.89	3.87	3.23	4.10	3.26	4.24	3.25	4.52	3.42	4.68	3.34
	35	3.01	2.86	3.29	2.89	3.87	3.23	4.07	3.26	4.20	3.24	4.47	3.41	4.63	3.33
	36	3.01	2.86	3.28	2.88	3.84	3.22	4.05	3.24	4.16	3.22	4.39	3.38	4.54	3.30
	38	3.01	2.86	3.28	2.88	3.78	3.20	4.01	3.23	4.08	3.19	4.23	3.33	4.36	3.24
	39	3.01	2.86	3.27	2.88	3.75	3.18	3.99	3.22	4.04	3.17	4.15	3.30	4.27	3.22
	41	3.01	2.86	3.26	2.87	3.64	3.14	3.83	3.15	3.87	3.11	3.97	3.24	4.07	3.16
	43	3.01	2.86	3.25	2.87	3.53	3.10	3.66	3.09	3.70	3.05	3.78	3.18	3.87	3.10

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.68	2.68	2.68	2.68	2.68	
	-17.8	-18	2.85	2.85	2.85	2.85	2.85	
	-15.7	-16	3.02	3.02	3.02	3.02	3.02	
	-13.7	-14	3.20	3.20	3.20	3.20	3.20	
	-11.7	-12	3.37	3.37	3.37	3.37	3.37	
	-9.6	-10	3.54	3.54	3.54	3.54	3.54	
	-7.5	-8	3.76	3.76	3.76	3.76	3.76	
	-5.5	-6	3.97	3.97	3.97	3.97	3.97	
	-3.4	-4	4.11	4.11	4.10	4.06	4.02	
	-1.3	-2	4.25	4.24	4.23	4.15	4.07	
12 (m/min)	0.8	0	4.48	4.42	4.35	4.20	4.04	
	3.9	3	4.86	4.69	4.52	4.26	4.01	
	7.0	6	5.31	4.97	4.62	4.30	3.97	
	10.1	9	5.28	4.94	4.60	4.27	3.94	
	13.2	12	5.24	4.91	4.57	4.24	3.90	
	16.9	15.5	5.20	4.87	4.53	4.20	3.86	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.95	2.51	3.53	2.83	3.82	2.89	4.06	2.93	4.55	3.16	4.72	3.07
	12			2.95	2.51	3.53	2.83	3.82	2.89	4.05	2.92	4.53	3.15	4.70	3.07
	14			2.95	2.51	3.53	2.83	3.82	2.89	4.05	2.92	4.51	3.14	4.68	3.06
	16			2.95	2.51	3.53	2.83	3.82	2.89	4.04	2.92	4.50	3.13	4.66	3.05
	18			2.95	2.51	3.53	2.83	3.82	2.89	4.04	2.92	4.48	3.13	4.64	3.05
	20			2.95	2.51	3.53	2.83	3.82	2.89	4.03	2.91	4.47	3.12	4.62	3.04
	22			2.95	2.51	3.53	2.83	3.82	2.89	4.01	2.91	4.41	3.10	4.56	3.02
	24			2.94	2.50	3.52	2.83	3.82	2.89	3.99	2.90	4.35	3.08	4.49	3.00
10 (m/min)	26			2.94	2.50	3.51	2.83	3.78	2.88	3.95	2.88	4.28	3.06	4.43	2.98
	28	2.66	2.48	2.94	2.50	3.49	2.82	3.74	2.86	3.90	2.86	4.22	3.04	4.36	2.96
	30	2.66	2.48	2.93	2.50	3.47	2.81	3.71	2.85	3.86	2.85	4.15	3.01	4.29	2.94
	32	2.66	2.48	2.92	2.49	3.44	2.80	3.67	2.84	3.81	2.83	4.09	2.99	4.23	2.92
	34	2.66	2.48	2.91	2.49	3.43	2.79	3.62	2.81	3.75	2.81	4.00	2.96	4.14	2.89
	35	2.66	2.48	2.91	2.49	3.42	2.79	3.60	2.81	3.72	2.80	3.96	2.94	4.09	2.87
	36	2.66	2.48	2.91	2.49	3.39	2.78	3.58	2.80	3.68	2.78	3.89	2.92	4.02	2.85
	38	2.66	2.48	2.90	2.49	3.34	2.76	3.55	2.78	3.61	2.75	3.74	2.87	3.86	2.80
	39	2.66	2.48	2.89	2.48	3.32	2.75	3.53	2.78	3.58	2.74	3.67	2.85	3.78	2.78
41	2.66	2.48	2.88	2.48	3.22	2.71	3.38	2.72	3.43	2.68	3.51	2.79	3.60	2.71	
43	2.66	2.48	2.87	2.47	3.12	2.67	3.24	2.66	3.28	2.62	3.35	2.73	3.42	2.66	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.32	2.32	2.32	2.32	2.32	
	-17.8	-18	2.47	2.47	2.47	2.47	2.47	
	-15.7	-16	2.62	2.62	2.62	2.62	2.62	
	-13.7	-14	2.77	2.77	2.77	2.77	2.77	
	-11.7	-12	2.92	2.92	2.92	2.92	2.92	
	-9.6	-10	3.07	3.07	3.07	3.07	3.07	
	-7.5	-8	3.25	3.25	3.25	3.25	3.25	
	-5.5	-6	3.44	3.44	3.44	3.44	3.44	
	-3.4	-4	3.56	3.56	3.55	3.52	3.48	
	-1.3	-2	3.68	3.67	3.66	3.59	3.52	
10 (m/min)	0.8	0	3.88	3.83	3.77	3.64	3.50	
	3.9	3	4.21	4.06	3.91	3.69	3.47	
	7.0	6	4.60	4.30	4.00	3.72	3.44	
	10.1	9	4.57	4.28	3.99	3.70	3.41	
	13.2	12	4.54	4.25	3.96	3.67	3.38	
	16.9	15.5	4.51	4.22	3.93	3.64	3.35	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.74	2.31	3.27	2.60	3.54	2.66	3.77	2.70	4.22	2.91	4.38	2.84
	12			2.74	2.31	3.27	2.60	3.54	2.66	3.76	2.69	4.20	2.90	4.36	2.83
	14			2.74	2.31	3.27	2.60	3.54	2.66	3.76	2.69	4.19	2.90	4.34	2.82
	16			2.74	2.31	3.27	2.60	3.54	2.66	3.75	2.69	4.17	2.89	4.32	2.82
	18			2.74	2.31	3.27	2.60	3.54	2.66	3.75	2.69	4.16	2.89	4.31	2.81
	20			2.74	2.31	3.27	2.60	3.54	2.66	3.74	2.68	4.14	2.88	4.29	2.81
	22			2.73	2.30	3.27	2.60	3.54	2.66	3.72	2.68	4.09	2.86	4.23	2.79
	24			2.73	2.30	3.27	2.60	3.54	2.66	3.71	2.67	4.04	2.84	4.17	2.77
	26			2.73	2.30	3.26	2.60	3.51	2.65	3.66	2.65	3.97	2.82	4.11	2.75
	28	2.47	2.27	2.73	2.30	3.24	2.59	3.47	2.63	3.62	2.63	3.91	2.80	4.04	2.72
9 (m/min)	30	2.47	2.27	2.72	2.30	3.21	2.58	3.44	2.62	3.58	2.62	3.85	2.77	3.98	2.70
	32	2.47	2.27	2.71	2.30	3.19	2.57	3.41	2.61	3.54	2.60	3.79	2.75	3.92	2.68
	34	2.47	2.27	2.70	2.29	3.18	2.56	3.36	2.59	3.48	2.58	3.71	2.72	3.84	2.65
	35	2.47	2.27	2.70	2.29	3.17	2.56	3.34	2.57	3.45	2.57	3.67	2.71	3.80	2.64
	36	2.47	2.27	2.70	2.29	3.15	2.55	3.32	2.57	3.42	2.56	3.61	2.69	3.73	2.62
	38	2.47	2.27	2.69	2.28	3.10	2.53	3.29	2.56	3.35	2.53	3.47	2.64	3.58	2.57
	39	2.47	2.27	2.69	2.28	3.08	2.52	3.27	2.55	3.32	2.51	3.41	2.61	3.50	2.54
	41	2.47	2.27	2.68	2.28	2.99	2.48	3.14	2.49	3.18	2.45	3.26	2.56	3.34	2.49
	43	2.47	2.27	2.67	2.27	2.89	2.44	3.01	2.44	3.04	2.40	3.11	2.51	3.18	2.44

Model FDT45KXE6B Cool Mode

Air flow	Outdoor air temp.	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Uhi	10			4.16	3.39	4.97	3.84	5.37	3.92	5.72	3.97	6.40	4.29	6.65	4.18		
	12			4.16	3.39	4.97	3.84	5.37	3.92	5.71	3.97	6.38	4.28	6.62	4.17		
	14			4.16	3.39	4.97	3.84	5.37	3.92	5.70	3.97	6.36	4.28	6.59	4.16		
	16			4.16	3.39	4.97	3.84	5.37	3.92	5.69	3.96	6.34	4.27	6.56	4.15		
	18			4.16	3.39	4.97	3.84	5.37	3.92	5.69	3.96	6.31	4.25	6.54	4.14		
	20			4.16	3.39	4.97	3.84	5.37	3.92	5.68	3.96	6.29	4.24	6.51	4.13		
	22			4.15	3.39	4.97	3.84	5.37	3.92	5.65	3.95	6.21	4.22	6.42	4.10		
	24			4.14	3.38	4.96	3.83	5.37	3.92	5.63	3.94	6.13	4.19	6.33	4.07		
	26			4.14	3.38	4.94	3.82	5.32	3.90	5.56	3.91	6.03	4.15	6.23	4.03		
	28	3.75	3.35	4.14	3.38	4.92	3.81	5.27	3.88	5.49	3.88	5.94	4.11	6.13	4.00		
13.2 (m/min)	30	3.75	3.35	4.13	3.38	4.88	3.79	5.22	3.86	5.43	3.86	5.85	4.08	6.04	3.97		
	32	3.75	3.35	4.12	3.38	4.84	3.77	5.17	3.84	5.37	3.83	5.76	4.04	5.95	3.94		
	34	3.75	3.35	4.10	3.37	4.82	3.76	5.10	3.81	5.28	3.80	5.63	4.00	5.83	3.90		
	35	3.75	3.35	4.10	3.37	4.82	3.76	5.07	3.80	5.24	3.78	5.57	3.98	5.77	3.88		
	36	3.75	3.35	4.09	3.36	4.78	3.74	5.04	3.78	5.19	3.76	5.47	3.94	5.65	3.84		
	38	3.75	3.35	4.08	3.36	4.71	3.72	4.99	3.75	5.09	3.71	5.27	3.87	5.43	3.77		
	39	3.75	3.35	4.08	3.36	4.67	3.70	4.97	3.74	5.04	3.69	5.17	3.83	5.32	3.73		
	41	3.75	3.35	4.06	3.35	4.53	3.65	4.77	3.66	4.82	3.61	4.94	3.75	5.07	3.65		
	43	3.75	3.35	4.05	3.35	4.39	3.59	4.56	3.58	4.61	3.53	4.71	3.66	4.82	3.56		

Heat Mode

Air flow	Outdoor air temp.	Indoor air temp.					
		DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB
		DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB
Uhi	-19.8	-20	3.34	3.34	3.34	3.34	3.34
	-17.8	-18	3.56	3.56	3.56	3.56	3.56
	-15.7	-16	3.77	3.77	3.77	3.77	3.77
	-13.7	-14	3.99	3.99	3.99	3.99	3.99
	-11.7	-12	4.20	4.20	4.20	4.20	4.20
	-9.6	-10	4.42	4.42	4.42	4.42	4.42
	-7.5	-8	4.68	4.68	4.68	4.68	4.68
	-5.5	-6	4.95	4.95	4.95	4.95	4.95
	-3.4	-4	5.13	5.12	5.11	5.06	5.01
	-1.3	-2	5.30	5.28	5.27	5.17	5.07
13.2 (m/min)	0.8	0	5.59	5.51	5.43	5.23	5.04
	3.9	3	6.06	5.85	5.63	5.31	5.00
	7.0	6	6.62	6.19	5.76	5.36	4.95
	10.1	9	6.58	6.16	5.74	5.32	4.91
	13.2	12	6.54	6.12	5.70	5.28	4.87
	16.9	15.5	6.49	6.07	5.65	5.23	4.82

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Hi	10			3.69	2.94	4.41	3.33	4.77	3.40	5.07	3.44	5.68	3.73	5.90	3.63		
	12			3.69	2.94	4.41	3.33	4.77	3.40	5.07	3.44	5.66	3.72	5.88	3.62		
	14			3.69	2.94	4.41	3.33	4.77	3.40	5.06	3.44	5.64	3.71	5.85	3.61		
	16			3.69	2.94	4.41	3.33	4.77	3.40	5.05	3.43	5.62	3.70	5.83	3.60		
	18			3.69	2.94	4.41	3.33	4.77	3.40	5.05	3.43	5.60	3.69	5.80	3.59		
	20			3.69	2.94	4.41	3.33	4.77	3.40	5.04	3.43	5.58	3.69	5.78	3.59		
	22			3.68	2.94	4.41	3.33	4.77	3.40	5.02	3.42	5.51	3.66	5.70	3.55		
	24			3.68	2.94	4.41	3.33	4.77	3.40	4.99	3.41	5.44	3.63	5.62	3.53		
	26			3.68	2.94	4.39	3.32	4.73	3.38	4.93	3.39	5.35	3.60	5.53	3.50		
	28	3.33	2.90	3.67	2.93	4.37	3.31	4.68	3.36	4.88	3.37	5.27	3.57	5.44	3.46		
11 (m/min)	30	3.33	2.90	3.66	2.93	4.33	3.29	4.64	3.35	4.82	3.34	5.19	3.54	5.36	3.44		
	32	3.33	2.90	3.65	2.92	4.30	3.28	4.59	3.33	4.76	3.32	5.11	3.50	5.28	3.41		
	34	3.33	2.90	3.64	2.92	4.28	3.27	4.53	3.30	4.69	3.29	5.00	3.46	5.17	3.37		
	35	3.33	2.90	3.64	2.92	4.28	3.27	4.50	3.29	4.65	3.28	4.95	3.45	5.12	3.35		
	36	3.33	2.90	3.63	2.92	4.24	3.26	4.48	3.28	4.60	3.26	4.86	3.41	5.02	3.32		
	38	3.33	2.90	3.62	2.91	4.18	3.23	4.43	3.26	4.52	3.23	4.68	3.35	4.82	3.25		
	39	3.33	2.90	3.62	2.91	4.15	3.21	4.41	3.26	4.47	3.21	4.59	3.31	4.72	3.22		
	41	3.33	2.90	3.61	2.91	4.02	3.16	4.23	3.18	4.28	3.13	4.39	3.24	4.50	3.13		
	43	3.33	2.90	3.59	2.90	3.90	3.11	4.05	3.11	4.09	3.05	4.18	3.15	4.28	3.06		

Air flow	Outdoor air temp.	Indoor air temp.					
		DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB
		DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB
Hi	-19.8	-20	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.27	3.27	3.27	3.27	3.27
	-13.7	-14	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65
	-9.6	-10	3.83	3.83	3.83	3.83	3.83
	-7.5	-8	4.07	4.07	4.07	4.07	4.07
	-5.5	-6	4.30	4.30	4.30	4.30	4.30
	-3.4	-4	4.45	4.44	4.44	4.39	4.35
	-1.3	-2	4.60	4.59	4.58	4.49	4.40
11 (m/min)	0.8	0	4.85	4.78	4.71	4.54	4.38
	3.9	3	5.26	5.08	4.89	4.61	4.34
	7.0	6	5.75	5.38	5.00	4.65	4.30
	10.1	9	5.71	5.35	4.98	4.62	4.26
	13.2	12	5.68	5.31	4.95	4.59	4.23
	16.9	15.5	5.63	5.27	4.91	4.54	4.18

		Indoor air temperature															
Air flow	Outdoor air temp. ("CDB)	21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Me	10			3.45	2.61	4.13	2.97	4.46	3.04	4.75	3.09	5.32	3.33	5.52	3.24		
	12			3.45	2.61	4.13	2.97	4.46	3.04	4.74	3.08	5.30	3.33	5.50	3.23		
	14			3.45	2.61	4.13	2.97	4.46	3.04	4.74	3.08	5.28	3.32	5.47	3.22		
	16			3.45	2.61	4.13	2.97	4.46	3.04	4.73	3.08	5.26	3.31	5.45	3.21		
	18			3.45	2.61	4.13	2.97	4.46	3.04	4.72	3.07	5.24	3.30	5.43	3.20		
	20			3.45	2.61	4.13	2.97	4.46	3.04	4.72	3.07	5.22	3.29	5.40	3.19		
	22			3.45	2.61	4.12	2.96	4.46	3.04	4.69	3.06	5.16	3.27	5.33	3.17		
	24			3.44	2.60	4.12	2.96	4.46	3.04	4.67	3.05	5.09	3.24	5.26	3.14		
9 (m³/min)	26			3.44	2.60	4.10	2.95	4.42	3.02	4.62	3.03	5.01	3.20	5.17	3.11		
	28	3.12	2.57	3.44	2.60	4.08	2.95	4.38	3.01	4.56	3.01	4.93	3.17	5.09	3.08		
	30	3.12	2.57	3.43	2.60	4.05	2.93	4.34	2.99	4.51	2.99	4.85	3.14	5.02	3.05		
	32	3.12	2.57	3.42	2.60	4.02	2.92	4.29	2.97	4.46	2.97	4.78	3.11	4.94	3.02		
	34	3.12	2.57	3.41	2.59	4.01	2.91	4.24	2.94	4.38	2.93	4.68	3.07	4.84	2.99		
	35	3.12	2.57	3.40	2.59	4.00	2.91	4.21	2.97	4.35	2.92	4.63	3.06	4.79	2.97		
	36	3.12	2.57	3.40	2.59	3.97	2.89	4.19	2.92	4.31	2.90	4.54	3.02	4.70	2.94		
	38	3.12	2.57	3.39	2.58	3.91	2.87	4.15	2.91	4.22	2.87	4.38	2.96	4.51	2.87		
	39	3.12	2.57	3.38	2.58	3.88	2.86	4.13	2.90	4.18	2.85	4.30	2.93	4.42	2.84		
	41	3.12	2.57	3.37	2.57	3.76	2.80	3.96	2.82	4.01	2.78	4.10	2.85	4.21	2.75		
43	3.12	2.57	3.36	2.57	3.65	2.75	3.79	2.75	3.83	2.71	3.91	2.77	4.00	2.69			

Model FDTCS56KXE6B Cool Mode

Air flow	Outdoor air temp.	Indoor air temperature															
		14 °CWB				23 °CDB 16 °CWB				26 °CDB 18 °CWB				27 °CDB 19 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			4.80	3.72	5.74	4.21	6.21	4.32	6.61	4.38	7.40	4.73	7.69	4.59		
	12			4.80	3.72	5.74	4.21	6.21	4.32	6.60	4.38	7.38	4.72	7.65	4.57		
	14			4.80	3.72	5.74	4.21	6.21	4.32	6.59	4.37	7.35	4.70	7.62	4.56		
	16			4.80	3.72	5.74	4.21	6.21	4.32	6.58	4.37	7.32	4.68	7.59	4.55		
	18			4.80	3.72	5.74	4.21	6.21	4.32	6.57	4.37	7.30	4.67	7.55	4.54		
	20			4.80	3.72	5.74	4.21	6.21	4.32	6.56	4.36	7.27	4.66	7.52	4.53		
	22			4.80	3.72	5.74	4.21	6.21	4.32	6.55	4.35	7.18	4.63	7.42	4.49		
	24			4.79	3.71	5.74	4.21	6.21	4.32	6.50	4.34	7.09	4.59	7.32	4.46		
	26			4.79	3.71	5.71	4.20	6.15	4.29	6.43	4.31	6.97	4.55	7.20	4.42		
	28	4.34	3.66	4.78	3.71	5.68	4.19	6.09	4.27	6.35	4.27	6.86	4.51	7.09	4.38		
13.5 (m³/min)	30	4.34	3.66	4.77	3.71	5.64	4.16	6.04	4.25	6.28	4.24	6.76	4.47	6.98	4.34		
	32	4.34	3.66	4.76	3.70	5.60	4.15	5.98	4.22	6.20	4.21	6.65	4.43	6.88	4.31		
	34	4.34	3.66	4.74	3.69	5.58	4.14	5.90	4.18	6.10	4.17	6.51	4.38	6.74	4.25		
	35	4.34	3.66	4.73	3.69	5.57	4.14	5.86	4.16	6.05	4.15	6.44	4.34	6.67	4.23		
	36	4.34	3.66	4.73	3.69	5.53	4.12	5.83	4.16	6.00	4.13	6.33	4.30	6.54	4.19		
	38	4.34	3.66	4.72	3.68	5.44	4.08	5.77	4.13	5.88	4.08	6.09	4.21	6.28	4.10		
	39	4.34	3.66	4.71	3.68	5.40	4.06	5.74	4.11	5.82	4.05	5.98	4.17	6.15	4.05		
	41	4.34	3.66	4.69	3.67	5.24	3.99	5.51	4.01	5.58	3.95	5.71	4.07	5.86	3.95		
	43	4.34	3.66	4.68	3.67	5.08	3.92	5.27	3.92	5.33	3.85	5.45	3.98	5.57	3.86		

Heat Mode

Air flow	Outdoor air temp.	Indoor air temp.							
		16 °CDB		18 °CDB		20 °CDB		22 °CDB	
		DB	WB	DB	WB	DB	WB	DB	WB
Uhi	-19.8	-20	3.86	3.86	3.86	3.86	3.86	3.86	3.86
	-17.8	-18	4.11	4.11	4.11	4.11	4.11	4.11	4.11
	-15.7	-16	4.36	4.36	4.36	4.36	4.36	4.36	4.36
	-13.7	-14	4.61	4.61	4.61	4.61	4.61	4.61	4.61
	-11.7	-12	4.86	4.86	4.86	4.86	4.86	4.86	4.86
	-9.6	-10	5.11	5.11	5.11	5.11	5.11	5.11	5.11
	-7.5	-8	5.42	5.42	5.42	5.42	5.42	5.42	5.42
	-5.5	-6	5.73	5.73	5.73	5.73	5.73	5.73	5.73
	-3.4	-4	5.93	5.92	5.91	5.85	5.79		
	-1.3	-2	6.13	6.11	6.09	5.98	5.86		
13.5 (m³/min)	0.8	0	6.46	6.37	6.28	6.05	5.83		
	3.9	3	7.01	6.76	6.51	6.14	5.78		
	7.0	6	7.66	7.16	6.66	6.19	5.73		
	10.1	9	7.61	7.12	6.64	6.16	5.68		
	13.2	12	7.56	7.08	6.59	6.11	5.63		
	16.9	15.5	7.50	7.02	6.54	6.05	5.57		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB				23 °CDB 16 °CWB				26 °CDB 18 °CWB				27 °CDB 19 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			4.59	3.57	5.49	4.04	5.94	4.14	6.32	4.20	7.07	4.53	7.35	4.40		
	12			4.59	3.57	5.49	4.04	5.94	4.14	6.31	4.20	7.05	4.51	7.31	4.38		
	14			4.59	3.57	5.49	4.04	5.94	4.14	6.30	4.19	7.02	4.50	7.28	4.37		
	16			4.59	3.57	5.49	4.04	5.94	4.14	6.29	4.19	7.00	4.49	7.25	4.36		
	18			4.59	3.57	5.49	4.04	5.94	4.14	6.28	4.19	6.97	4.48	7.22	4.35		
	20			4.59	3.57	5.49	4.04	5.94	4.14	6.27	4.18	6.95	4.47	7.19	4.34		
	22			4.58	3.56	5.49	4.04	5.94	4.14	6.24	4.17	6.86	4.44	7.09	4.31		
	24			4.58	3.56	5.48	4.04	5.94	4.14	6.21	4.16	6.77	4.40	6.99	4.28		
	26			4.57	3.56	5.46	4.03	5.88	4.12	6.14	4.12	6.66	4.36	6.88	4.24		
	28	4.14	3.51	4.57	3.56	5.43	4.01	5.82	4.09	6.07	4.10	6.56	4.33	6.78	4.20		
13 (m³/min)	30	4.14	3.51	4.56	3.55	5.39	3.99	5.77	4.06	6.00	4.07	6.46	4.28	6.67	4.16		
	32	4.14	3.51	4.55	3.55	5.35	3.98	5.71	4.04	5.93	4.03	6.36	4.25	6.57	4.13		
	34	4.14	3.51	4.53	3.54	5.33	3.97	5.64	4.01	5.83	4.00	6.22	4.19	6.44	4.08		
	35	4.14	3.51	4.52	3.54	5.32	3.96	5.60	3.98	5.79	3.98	6.16	4.17	6.37	4.06		
	36	4.14	3.51	4.52	3.54	5.28	3.95	5.57	3.98	5.73	3.96	6.05	4.13	6.25	4.01		
	38	4.14	3.51	4.51	3.53	5.20	3.91	5.52	3.96	5.62	3.91	5.82	4.04	6.00	3.93		
	39	4.14	3.51	4.50	3.53	5.16	3.89	5.49	3.95	5.56	3.88	5.71	4.00	5.87	3.88		
	41	4.14	3.51	4.49	3.52	5.00	3.83	5.26	3.85	5.33	3.79	5.46	3.91	5.60	3.79		
	43	4.14	3.51	4.47	3.51	4.85	3.76	5.04	3.76	5.10	3.70	5.21	3.82	5.32	3.69		

Air flow	Outdoor air temp.	Indoor air temp.							
		16 °CDB		18 °CDB		20 °CDB		22 °CDB	
		DB	WB	DB	WB	DB	WB	DB	WB
Hi	-19.8	-20	3.65	3.65	3.65	3.65	3.65	3.65	3.65
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	3.89	3.89
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	4.12	4.12
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	4.36	4.36
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	4.59	4.59
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	4.83	4.83
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	5.12	5.12
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	5.42	5.42
	-3.4	-4	5.61	5.60	5.59	5.54	5.48		
	-1.3	-2	5.80	5.78	5.76	5.65	5.54		
13 (m³/min)	0.8	0	6.11	6.02	5.94	5.73	5.51		
	3.9	3	6.63	6.39	6.16	5.81	5.47		
	7.0	6	7.25	6.77	6.30	5.86	5.42		
	10.1	9	7.20	6.74	6.28	5.82	5.37		
	13.2	12	7.15	6.69	6.24	5.78	5.32		
	16.9	15.5	7.10	6.64	6.18	5.73	5.27		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Me	10			4.24	3.09	5.07	3.51	5.48	3.61	5.83	3.67	6.53	3.96	6.78	3.84		
	12			4.24	3.09	5.07	3.51	5.48	3.61	5.82	3.67	6.51	3.95	6.75	3.83		
	14			4.24	3.09	5.07	3.51	5.48	3.61	5.81	3.67	6.48	3.94	6.72	3.82		
	16			4.24	3.09	5.07	3.51	5.48	3.61	5.81	3.67	6.46	3.92	6.69	3.81		
	18			4.24	3.09	5.07	3.51	5.48	3.61	5.80	3.66	6.44	3.92	6.66	3.80		
	20			4.24	3.09	5.07	3.51	5.48	3.61	5.79	3.66	6.41	3.90	6.64	3.78		
	22			4.23	3.09	5.06	3.51	5.48	3.61	5.76	3.64	6.33	3.87	6.54	3.75		
	24			4.23	3.09	5.06	3.51	5.48	3.61	5.74	3.63	6.25	3.84	6.45	3.71		
	26			4.22	3.08	5.04	3.49	5.43	3.59	5.67	3.60	6.15	3.79	6.35	3.67		
	28	3.83	3.03	4.22	3.08	5.01	3.48	5.38	3.56	5.60	3.57	6.05	3.75	6.26	3.63		
10 (m³/min)	30	3.83	3.03	4.21	3.08	4.98	3.47	5.33	3.54	5.54	3.54	5.96	3.70	6.16	3.59		
	32	3.83	3.03	4.20	3.07	4.94	3.45	5.27	3.51	5.47	3.51	5.87	3.67	6.07	3.56		
	34	3.83	3.03	4.18	3.06	4.92	3.44	5.20	3.48	5.38	3.47	5.74	3.62	5.94	3.51		
	35	3.83	3.03	4.18	3.06	4.91	3.44	5.17	3.62	5.34	3.45	5.68	3.59	5.88	3.49		
	36	3.83	3.03	4.17	3.06	4.87	3.41	5.14	3.45	5.29	3.43	5.58	3.55	5.77	3.45		
	38	3.83	3.03	4.16	3.05	4.80	3.38	5.09	3.43	5.19	3.39	5.38	3.47	5.54	3.36		
	39	3.83	3.03	4.16	3.05	4.76	3.36	5.07	3.42	5.14	3.37	5.27	3.43	5.42	3.32		
	41	3.83	3.03	4.14	3.04	4.62	3.30	4.86	3.33	4.92	3.27	5.04	3.34	5.17	3.23		
	43	3.83	3.03	4.13	3.03	4.48	3.23	4.65	3.23	4.70	3.17	4.81	3.25	4.92	3.1		

(c) Ceiling cassette-2 way type (FDTW)

Model **FDTW28KXE6**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			2.30	2.21	2.74	2.63	2.97	2.71	3.16	2.73	3.54	2.97	3.67	2.91
	12			2.30	2.21	2.74	2.63	2.97	2.71	3.15	2.73	3.52	2.96	3.66	2.91
	14			2.30	2.21	2.74	2.63	2.97	2.71	3.15	2.73	3.51	2.96	3.64	2.90
	16			2.30	2.21	2.74	2.63	2.97	2.71	3.14	2.72	3.50	2.96	3.63	2.90
	18			2.30	2.21	2.74	2.63	2.97	2.71	3.14	2.72	3.49	2.95	3.61	2.89
	20			2.30	2.21	2.74	2.63	2.97	2.71	3.14	2.72	3.47	2.95	3.59	2.88
	22			2.29	2.20	2.74	2.63	2.97	2.71	3.12	2.72	3.43	2.94	3.54	2.87
	24			2.29	2.20	2.74	2.63	2.97	2.71	3.11	2.71	3.39	2.92	3.50	2.86
	26			2.29	2.20	2.73	2.62	2.94	2.70	3.07	2.70	3.33	2.90	3.44	2.84
	28	2.07	1.99	2.28	2.19	2.72	2.61	2.91	2.69	3.03	2.69	3.28	2.89	3.39	2.82
14 (m³/min)	30	2.07	1.99	2.28	2.19	2.70	2.59	2.88	2.67	3.00	2.68	3.23	2.86	3.34	2.81
	32	2.07	1.99	2.27	2.18	2.67	2.56	2.86	2.67	2.96	2.66	3.18	2.85	3.29	2.80
	34	2.07	1.99	2.27	2.18	2.66	2.55	2.82	2.66	2.92	2.65	3.11	2.82	3.22	2.77
	35	2.07	1.99	2.26	2.17	2.66	2.55	2.80	2.63	2.89	2.64	3.08	2.81	3.18	2.76
	36	2.07	1.99	2.26	2.17	2.64	2.53	2.79	2.65	2.86	2.63	3.02	2.80	3.12	2.74
	38	2.07	1.99	2.25	2.16	2.60	2.50	2.76	2.64	2.81	2.61	2.91	2.76	3.00	2.70
	39	2.07	1.99	2.25	2.16	2.58	2.48	2.74	2.63	2.78	2.59	2.86	2.74	2.94	2.66
	41	2.07	1.99	2.24	2.15	2.50	2.40	2.63	2.52	2.66	2.55	2.73	2.62	2.80	2.63
	43	2.07	1.99	2.24	2.15	2.43	2.33	2.52	2.42	2.55	2.45	2.60	2.50	2.66	2.55

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	1.86	1.86	1.86	1.86	1.86	
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	
14 (m³/min)	0.8	0	3.10	3.06	3.02	2.91	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.30	2.21	2.74	2.63	2.97	2.71	3.16	2.73	3.54	2.97	3.67	2.91
	12			2.30	2.21	2.74	2.63	2.97	2.71	3.15	2.73	3.52	2.96	3.66	2.91
	14			2.30	2.21	2.74	2.63	2.97	2.71	3.15	2.73	3.51	2.96	3.64	2.90
	16			2.30	2.21	2.74	2.63	2.97	2.71	3.14	2.72	3.50	2.96	3.63	2.90
	18			2.30	2.21	2.74	2.63	2.97	2.71	3.14	2.72	3.49	2.95	3.61	2.89
	20			2.30	2.21	2.74	2.63	2.97	2.71	3.14	2.72	3.47	2.95	3.59	2.88
	22			2.29	2.20	2.74	2.63	2.97	2.71	3.12	2.72	3.43	2.94	3.54	2.87
	24			2.29	2.20	2.74	2.63	2.97	2.71	3.11	2.71	3.39	2.92	3.50	2.86
	26			2.29	2.20	2.73	2.62	2.94	2.70	3.07	2.70	3.33	2.90	3.44	2.84
	28	2.07	1.99	2.28	2.19	2.72	2.61	2.91	2.69	3.03	2.69	3.28	2.89	3.39	2.82
14 (m³/min)	30	2.07	1.99	2.28	2.19	2.70	2.59	2.88	2.67	3.00	2.68	3.23	2.86	3.34	2.81
	32	2.07	1.99	2.27	2.18	2.67	2.56	2.86	2.67	2.96	2.66	3.18	2.85	3.29	2.80
	34	2.07	1.99	2.27	2.18	2.66	2.55	2.82	2.66	2.92	2.65	3.11	2.82	3.22	2.77
	35	2.07	1.99	2.26	2.17	2.66	2.55	2.80	2.63	2.89	2.64	3.08	2.81	3.18	2.76
	36	2.07	1.99	2.26	2.17	2.64	2.53	2.79	2.65	2.86	2.63	3.02	2.80	3.12	2.74
	38	2.07	1.99	2.25	2.16	2.60	2.50	2.76	2.64	2.81	2.61	2.91	2.76	3.00	2.70
	39	2.07	1.99	2.25	2.16	2.58	2.48	2.74	2.63	2.78	2.59	2.86	2.74	2.94	2.66
	41	2.07	1.99	2.24	2.15	2.50	2.40	2.63	2.52	2.66	2.55	2.73	2.62	2.80	2.63
	43	2.07	1.99	2.24	2.15	2.43	2.33	2.52	2.42	2.55	2.45	2.60	2.50	2.66	2.55

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	1.86	1.86	1.86	1.86	1.86
	-17.8	-18	1.98	1.98	1.98	1.98	1.98
	-15.7	-16	2.09	2.09	2.09	2.09	2.09
	-13.7	-14	2.21	2.21	2.21	2.21	2.21
	-11.7	-12	2.33	2.33	2.33	2.33	2.33
	-9.6	-10	2.45	2.45	2.45	2.45	2.45
	-7.5	-8	2.60	2.60	2.60	2.60	2.60
	-5.5	-6	2.75	2.75	2.75	2.75	2.75
	-3.4	-4	2.85	2.84	2.84	2.81	2.78
	-1.3	-2	2.94	2.94	2.93	2.87	2.82
14 (m³/min)	0.8	0	3.10	3.06	3.02	2.91	2.80
	3.9	3	3.37	3.25	3.13	2.95	2.78
	7.0	6	3.68	3.44	3.20	2.98	2.75
	10.1	9	3.66	3.42	3.19	2.96	2.73
	13.2	12	3.63	3.40	3.17	2.94	2.70
	16.9	15.5	3.60	3.37	3.14	2.91	2.68

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.09	2.01	2.50	2.37	2.70	2.40	2.88	2.43	3.22	2.63	3.34	2.58
	12			2.09	2.01	2.50	2.37	2.70	2.40	2.87	2.42	3.21	2.63	3.33	2.58
	14			2.09	2.01	2.50	2.37	2.70	2.40	2.87	2.42	3.20	2.62	3.32	2.57
	16			2.09	2.01	2.50	2.37	2.70	2.40	2.86	2.41	3.19	2.62	3.30	2.56
	18			2.09	2.01	2.50	2.37	2.70	2.40	2.86	2.41	3.17	2.62	3.29	2.56
	20			2.09	2.01	2.50	2.37	2.70	2.40	2.86	2.41	3.16	2.61	3.27	2.55
	22			2.09	2.01	2.50	2.37	2.70	2.40	2.84	2.41	3.12	2.59	3.23	2.54
	24			2.08	2.00	2.50	2.37	2.70	2.40	2.83	2.40	3.08	2.58	3.18	2.52
	26			2.08	2.00	2.49	2.36	2.68	2.40	2.80	2.40	3.03	2.57	3.13	2.51
	28	1.89	1.81	2.08	2.00	2.47	2.35	2.65	2.38	2.76	2.38	2.99	2.55	3.09	2.50
12 (m³/min)	30	1.89	1.81	2.08	2.00	2.45	2.34	2.63	2.37	2.73	2.37	2.94	2.53	3.04	2.48
	32	1.89	1.81	2.07	1.99	2.44	2.34	2.60	2.36	2.70	2.36	2.89	2.52	2.99	2.46
	34	1.89	1.81	2.06	1.98	2.43	2.33	2.57	2.35	2.66	2.34	2.83	2.50	2.93	2.45
	35	1.89	1.81	2.06	1.98	2.42	2.32	2.55	2.35	2.63	2.34	2.80	2.49	2.90	2.44
	36	1.89	1.81	2.06	1.98	2.40	2.30	2.54	2.34	2.61	2.33	2.75	2.47	2.84	2.42
	38	1.89	1.81	2.05	1.97	2.37	2.28	2.51	2.33	2.56	2.31	2.65	2.44	2.73	2.37
	39	1.89	1.81	2.05	1.97	2.35	2.26	2.50	2.32	2.53	2.30	2.60	2.40	2.68	2.35
	41	1.89	1.81	2.04	1.96	2.28	2.19	2.40	2.28	2.43	2.26	2.49	2.37	2.55	2.32
	43	1.89	1.81	2.04	1.96	2.21	2.12	2.30	2.21	2.32	2.23	2.37	2.28	2.42	2.29

Model FDTW45KXE6

Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.69	3.27	4.41	3.69	4.77	3.76	5.07	3.80	5.68	4.11	5.90	4.02
	12			3.69	3.27	4.41	3.69	4.77	3.76	5.07	3.80	5.66	4.10	5.88	4.01
	14			3.69	3.27	4.41	3.69	4.77	3.76	5.06	3.80	5.64	4.10	5.85	4.00
	16			3.69	3.27	4.41	3.69	4.77	3.76	5.05	3.79	5.62	4.09	5.83	4.00
	18			3.69	3.27	4.41	3.69	4.77	3.76	5.05	3.79	5.60	4.08	5.80	3.99
	20			3.69	3.27	4.41	3.69	4.77	3.76	5.04	3.79	5.58	4.08	5.78	3.98
	22			3.68	3.26	4.41	3.69	4.77	3.76	5.02	3.78	5.51	4.05	5.70	3.95
	24			3.68	3.26	4.41	3.69	4.77	3.76	4.99	3.77	5.44	4.02	5.62	3.92
14 (m/min)	26			3.68	3.26	4.39	3.68	4.73	3.74	4.93	3.75	5.35	3.99	5.53	3.89
	28	3.33	3.20	3.67	3.26	4.37	3.68	4.68	3.72	4.88	3.73	5.27	3.96	5.44	3.87
	30	3.33	3.20	3.66	3.25	4.33	3.65	4.64	3.71	4.82	3.70	5.19	3.94	5.36	3.83
	32	3.33	3.20	3.65	3.25	4.30	3.64	4.59	3.69	4.76	3.68	5.11	3.91	5.28	3.81
	34	3.33	3.20	3.64	3.25	4.28	3.63	4.53	3.67	4.69	3.65	5.00	3.87	5.17	3.78
	35	3.33	3.20	3.64	3.25	4.28	3.63	4.50	3.65	4.65	3.64	4.95	3.85	5.12	3.76
	36	3.33	3.20	3.63	3.24	4.24	3.60	4.48	3.65	4.60	3.62	4.86	3.82	5.02	3.73
	38	3.33	3.20	3.62	3.24	4.18	3.58	4.43	3.62	4.52	3.59	4.68	3.75	4.82	3.66
	39	3.33	3.20	3.62	3.24	4.15	3.57	4.41	3.61	4.47	3.55	4.59	3.72	4.72	3.63
	41	3.33	3.20	3.61	3.23	4.02	3.52	4.23	3.53	4.28	3.49	4.39	3.66	4.50	3.56
43	3.33	3.20	3.59	3.23	3.90	3.47	4.05	3.47	4.09	3.42	4.18	3.58	4.28	3.50	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.90	2.90	2.90	2.90	2.90	
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	
	-3.4	-4	4.45	4.44	4.44	4.39	4.35	
	-1.3	-2	4.60	4.59	4.58	4.49	4.40	
14 (m/min)	0.8	0	4.85	4.78	4.71	4.54	4.38	
	3.9	3	5.26	5.08	4.89	4.61	4.34	
	7.0	6	5.75	5.38	5.00	4.65	4.30	
	10.1	9	5.71	5.35	4.98	4.62	4.26	
	13.2	12	5.68	5.31	4.95	4.59	4.23	
	16.9	15.5	5.63	5.27	4.91	4.54	4.18	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			3.69	3.27	4.41	3.69	4.77	3.76	5.07	3.80	5.68	4.11	5.90	4.02
	12			3.69	3.27	4.41	3.69	4.77	3.76	5.07	3.80	5.66	4.10	5.88	4.01
	14			3.69	3.27	4.41	3.69	4.77	3.76	5.06	3.80	5.64	4.10	5.85	4.00
	16			3.69	3.27	4.41	3.69	4.77	3.76	5.05	3.79	5.62	4.09	5.83	4.00
	18			3.69	3.27	4.41	3.69	4.77	3.76	5.05	3.79	5.60	4.08	5.80	3.99
	20			3.69	3.27	4.41	3.69	4.77	3.76	5.04	3.79	5.58	4.08	5.78	3.98
	22			3.68	3.26	4.41	3.69	4.77	3.76	5.02	3.78	5.51	4.05	5.70	3.95
	24			3.68	3.26	4.41	3.69	4.77	3.76	4.99	3.77	5.44	4.02	5.62	3.92
14 (m/min)	26			3.68	3.26	4.39	3.68	4.73	3.74	4.93	3.75	5.35	3.99	5.53	3.89
	28	3.33	3.20	3.67	3.26	4.37	3.68	4.68	3.72	4.88	3.73	5.27	3.96	5.44	3.87
	30	3.33	3.20	3.66	3.25	4.33	3.65	4.64	3.71	4.82	3.70	5.19	3.94	5.36	3.83
	32	3.33	3.20	3.65	3.25	4.30	3.64	4.59	3.69	4.76	3.68	5.11	3.91	5.28	3.81
	34	3.33	3.20	3.64	3.25	4.28	3.63	4.53	3.67	4.69	3.65	5.00	3.87	5.17	3.78
	35	3.33	3.20	3.64	3.25	4.28	3.63	4.50	3.65	4.65	3.64	4.95	3.85	5.12	3.76
	36	3.33	3.20	3.63	3.24	4.24	3.60	4.48	3.65	4.60	3.62	4.86	3.82	5.02	3.73
	38	3.33	3.20	3.62	3.24	4.18	3.58	4.43	3.62	4.52	3.59	4.68	3.75	4.82	3.66
	39	3.33	3.20	3.62	3.24	4.15	3.57	4.41	3.61	4.47	3.55	4.59	3.72	4.72	3.63
	41	3.33	3.20	3.61	3.23	4.02	3.52	4.23	3.53	4.28	3.49	4.39	3.66	4.50	3.56
43	3.33	3.20	3.59	3.23	3.90	3.47	4.05	3.47	4.09	3.42	4.18	3.58	4.28	3.50	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.90	2.90	2.90	2.90	2.90	
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	
	-3.4	-4	4.45	4.44	4.44	4.39	4.35	
	-1.3	-2	4.60	4.59	4.58	4.49	4.40	
14 (m/min)	0.8	0	4.85	4.78	4.71	4.54	4.38	
	3.9	3	5.26	5.08	4.89	4.61	4.34	
	7.0	6	5.75	5.38	5.00	4.65	4.30	
	10.1	9	5.71	5.35	4.98	4.62	4.26	
	13.2	12	5.68	5.31	4.95	4.59	4.23	
	16.9	15.5	5.63	5.27	4.91	4.54	4.18	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			3.34	2.89	4.00	3.27	4.32	3.32	4.60	3.36	5.15	3.65	5.35	3.56
	12			3.34	2.89	4.00	3.27	4.32	3.32	4.60	3.36	5.14	3.64	5.33	3.55
	14			3.34	2.89	4.00	3.27	4.32	3.32	4.59	3.36	5.12	3.64	5.31	3.55
	16			3.34	2.89	4.00	3.27	4.32	3.32	4.58	3.35	5.10	3.63	5.28	3.54
	18			3.34	2.89	4.00	3.27	4.32	3.32	4.58	3.35	5.08	3.62	5.26	3.53
	20			3.34	2.89	4.00	3.27	4.32	3.32	4.57	3.35	5.06	3.61	5.24	3.52
12 (m³/min)	22			3.34	2.89	4.00	3.27	4.32	3.32	4.55	3.34	5.00	3.59	5.16	3.49
	24			3.33	2.89	3.99	3.26	4.32	3.32	4.53	3.33	4.93	3.56	5.09	3.47
	26			3.33	2.89	3.98	3.26	4.28	3.31	4.47	3.31	4.86	3.54	5.02	3.45
	28	3.02	2.86	3.33	2.89	3.96	3.25	4.24	3.29	4.42	3.29	4.78	3.51	4.94	3.43
	30	3.02	2.86	3.32	2.88	3.93	3.24	4.20	3.28	4.37	3.28	4.70	3.48	4.86	3.39
	32	3.02	2.86	3.31	2.88	3.90	3.23	4.16	3.26	4.32	3.26	4.63	3.45	4.79	3.37
	34	3.02	2.86	3.30	2.88	3.88	3.22	4.11	3.24	4.25	3.23	4.53	3.42	4.69	3.34
	35	3.02	2.86	3.30	2.88	3.88	3.22	4.08	3.22	4.21	3.22	4.48	3.40	4.64	3.33
	36	3.02	2.86	3.29	2.87	3.85	3.21	4.06	3.23	4.17	3.20	4.40	3.38	4.55	3.29
	38	3.02	2.86	3.28	2.87	3.79	3.18	4.02	3.21	4.09	3.17	4.24	3.32	4.37	3.24
39	3.02	2.86	3.28	2.87	3.76	3.17	4.00	3.20	4.05	3.16	4.16	3.29	4.28	3.21	
41	3.02	2.86	3.27	2.86	3.65	3.13	3.84	3.14	3.88	3.10	3.98	3.21	4.08	3.13	
43	3.02	2.86	3.26	2.86	3.53	3.08	3.67	3.07	3.71	3.03	3.79	3.15	3.88	3.07	

Model **FDTW56KXE6**

Cool Mode

Heat Mode

Model	NEWARK		Outdoor												
Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			4.59	3.65	5.49	4.14	5.94	4.25	6.32	4.30	7.07	4.64	7.35	4.50
	12			4.59	3.65	5.49	4.14	5.94	4.25	6.31	4.30	7.05	4.63	7.31	4.49
	14			4.59	3.65	5.49	4.14	5.94	4.25	6.30	4.30	7.02	4.62	7.28	4.48
	16			4.59	3.65	5.49	4.14	5.94	4.25	6.29	4.29	7.00	4.62	7.25	4.47
	18			4.59	3.65	5.49	4.14	5.94	4.25	6.28	4.29	6.97	4.60	7.22	4.46
	20			4.59	3.65	5.49	4.14	5.94	4.25	6.27	4.28	6.95	4.58	7.19	4.45
	22			4.58	3.65	5.49	4.14	5.94	4.25	6.24	4.27	6.86	4.54	7.09	4.42
14 (m³/min)	24			4.58	3.65	5.48	4.14	5.94	4.25	6.21	4.25	6.77	4.51	6.99	4.39
	26			4.57	3.64	5.46	4.13	5.88	4.22	6.14	4.23	6.66	4.47	6.88	4.35
	28	4.14	3.60	4.57	3.64	5.43	4.12	5.82	4.19	6.07	4.20	6.56	4.44	6.78	4.32
	30	4.14	3.60	4.56	3.64	5.39	4.10	5.77	4.17	6.00	4.17	6.46	4.40	6.67	4.28
	32	4.14	3.60	4.55	3.63	5.35	4.09	5.71	4.15	5.93	4.14	6.36	4.37	6.57	4.24
	34	4.14	3.60	4.53	3.63	5.33	4.08	5.64	4.12	5.83	4.10	6.22	4.31	6.44	4.20
	35	4.14	3.60	4.52	3.62	5.32	4.07	5.60	4.09	5.79	4.09	6.16	4.29	6.37	4.18
	36	4.14	3.60	4.52	3.62	5.28	4.06	5.57	4.09	5.73	4.06	6.05	4.25	6.25	4.13
	38	4.14	3.60	4.51	3.62	5.20	4.02	5.52	4.07	5.62	4.02	5.82	4.16	6.00	4.05
	39	4.14	3.60	4.50	3.61	5.16	4.00	5.49	4.05	5.56	3.99	5.71	4.12	5.87	4.01
41	4.14	3.60	4.49	3.61	5.00	3.94	5.26	3.96	5.33	3.90	5.46	4.04	5.60	3.92	
43	4.14	3.60	4.47	3.60	4.85	3.87	5.04	3.87	5.10	3.81	5.21	3.94	5.32	3.82	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	3.65	3.65	3.65	3.65	3.65	3.65
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	3.89
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	4.12
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	4.36
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	4.59
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	4.83
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	5.12
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	5.42
	-3.4	-4	5.61	5.60	5.59	5.54	5.48	
	-1.3	-2	5.80	5.78	5.76	5.65	5.54	
14 (m³/min)	0.8	0	6.11	6.02	5.94	5.73	5.51	
	3.9	3	6.63	6.39	6.16	5.81	5.47	
	7.0	6	7.25	6.77	6.30	5.86	5.42	
	10.1	9	7.20	6.74	6.28	5.82	5.37	
	13.2	12	7.15	6.69	6.24	5.78	5.32	
	16.9	15.5	7.10	6.64	6.18	5.73	5.27	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			4.59	3.65	5.49	4.14	5.94	4.25	6.32	4.30	7.07	4.64	7.35	4.50
	12			4.59	3.65	5.49	4.14	5.94	4.25	6.31	4.30	7.05	4.63	7.31	4.49
	14			4.59	3.65	5.49	4.14	5.94	4.25	6.30	4.30	7.02	4.62	7.28	4.48
	16			4.59	3.65	5.49	4.14	5.94	4.25	6.29	4.29	7.00	4.62	7.25	4.47
	18			4.59	3.65	5.49	4.14	5.94	4.25	6.28	4.29	6.97	4.60	7.22	4.46
	20			4.59	3.65	5.49	4.14	5.94	4.25	6.27	4.28	6.95	4.58	7.19	4.45
	22			4.58	3.65	5.49	4.14	5.94	4.25	6.24	4.27	6.86	4.54	7.09	4.42
	24			4.58	3.65	5.48	4.14	5.94	4.25	6.21	4.25	6.77	4.51	6.99	4.39
	26			4.57	3.64	5.46	4.13	5.88	4.22	6.14	4.23	6.66	4.47	6.88	4.35
	28	4.14	3.60	4.57	3.64	5.43	4.12	5.82	4.19	6.07	4.20	6.56	4.44	6.78	4.32
14 (m³/min)	30	4.14	3.60	4.56	3.64	5.39	4.10	5.77	4.17	6.00	4.17	6.46	4.40	6.67	4.28
	32	4.14	3.60	4.55	3.63	5.35	4.09	5.71	4.15	5.93	4.14	6.36	4.37	6.57	4.24
	34	4.14	3.60	4.53	3.63	5.33	4.08	5.64	4.12	5.83	4.10	6.22	4.31	6.44	4.20
	35	4.14	3.60	4.52	3.62	5.32	4.07	5.60	4.09	5.79	4.09	6.16	4.29	6.37	4.18
	36	4.14	3.60	4.52	3.62	5.28	4.06	5.57	4.09	5.73	4.06	6.05	4.25	6.25	4.13
	38	4.14	3.60	4.51	3.62	5.20	4.02	5.52	4.07	5.62	4.02	5.82	4.16	6.00	4.05
	39	4.14	3.60	4.50	3.61	5.16	4.00	5.49	4.05	5.56	3.99	5.71	4.12	5.87	4.01
	41	4.14	3.60	4.49	3.61	5.00	3.94	5.26	3.96	5.33	3.90	5.46	4.04	5.60	3.92
	43	4.14	3.60	4.47	3.60	4.85	3.87	5.04	3.87	5.10	3.81	5.21	3.94	5.32	3.82

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	3.65	3.65	3.65	3.65	3.65	3.65
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	3.89
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	4.12
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	4.36
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	4.59
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	4.83
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	5.12
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	5.42
	-3.4	-4	5.61	5.60	5.59	5.54	5.48	
	-1.3	-2	5.80	5.78	5.76	5.65	5.54	
14 (m³/min)	0.8	0	6.11	6.02	5.94	5.73	5.51	
	3.9	3	6.63	6.39	6.16	5.81	5.47	
	7.0	6	7.25	6.77	6.30	5.86	5.42	
	10.1	9	7.20	6.74	6.28	5.82	5.37	
	13.2	12	7.15	6.69	6.24	5.78	5.32	
	16.9	15.5	7.10	6.64	6.18	5.73	5.27	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			4.09	3.22	4.89	3.65	5.29	3.74	5.63	3.79	6.30	4.08	6.55	3.98
	12			4.09	3.22	4.89	3.65	5.29	3.74	5.62	3.79	6.28	4.08	6.52	3.97
	14			4.09	3.22	4.89	3.65	5.29	3.74	5.61	3.78	6.26	4.07	6.49	3.96
	16			4.09	3.22	4.89	3.65	5.29	3.74	5.60	3.78	6.24	4.06	6.46	3.95
	18			4.09	3.22	4.89	3.65	5.29	3.74	5.60	3.78	6.21	4.05	6.43	3.94
	20			4.09	3.22	4.89	3.65	5.29	3.74	5.59	3.78	6.19	4.04	6.40	3.93
	22			4.08	3.22	4.89	3.65	5.29	3.74	5.56	3.76	6.11	4.01	6.32	3.90
	24			4.08	3.22	4.89	3.65	5.29	3.74	5.54	3.76	6.03	3.98	6.23	3.87
	26			4.08	3.22	4.86	3.64	5.24	3.72	5.47	3.72	5.94	3.94	6.13	3.83
	28	3.69	3.17	4.07	3.21	4.84	3.63	5.19	3.70	5.41	3.70	5.84	3.91	6.04	3.80
12 (m³/min)	30	3.69	3.17	4.06	3.21	4.80	3.61	5.14	3.68	5.34	3.67	5.75	3.88	5.95	3.77
	32	3.69	3.17	4.05	3.21	4.77	3.60	5.09	3.65	5.28	3.65	5.66	3.84	5.86	3.74
	34	3.69	3.17	4.04	3.20	4.75	3.59	5.02	3.62	5.20	3.61	5.54	3.79	5.74	3.69
	35	3.69	3.17	4.03	3.20	4.74	3.58	4.99	3.59	5.16	3.60	5.49	3.77	5.68	3.67
	36	3.69	3.17	4.03	3.20	4.70	3.57	4.97	3.60	5.11	3.58	5.39	3.74	5.57	3.64
	38	3.69	3.17	4.02	3.19	4.63	3.54	4.92	3.58	5.01	3.53	5.19	3.66	5.35	3.56
	39	3.69	3.17	4.01	3.19	4.60	3.53	4.89	3.57	4.96	3.51	5.09	3.63	5.24	3.52
	41	3.69	3.17	4.00	3.18	4.46	3.46	4.69	3.49	4.75	3.44	4.87	3.54	4.99	3.44
	43	3.69	3.17	3.98	3.18	4.32	3.39	4.49	3.39	4.54	3.34	4.64	3.46	4.74	3.36

Model FDTW71KXE6

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			5.82	4.43	6.96	5.02	7.53	5.16	8.01	5.23	8.97	5.64	9.31	5.49
	12			5.82	4.43	6.96	5.02	7.53	5.16	8.00	5.23	8.94	5.63	9.27	5.47
	14			5.82	4.43	6.96	5.02	7.53	5.16	7.99	5.22	8.90	5.61	9.23	5.45
	16			5.82	4.43	6.96	5.02	7.53	5.16	7.97	5.22	8.87	5.60	9.19	5.44
	18			5.82	4.43	6.96	5.02	7.53	5.16	7.96	5.21	8.84	5.59	9.15	5.43
	20			5.82	4.43	6.96	5.02	7.53	5.16	7.95	5.21	8.81	5.57	9.11	5.41
	22			5.81	4.43	6.95	5.02	7.53	5.16	7.92	5.20	8.70	5.53	8.99	5.36
	24			5.80	4.42	6.95	5.02	7.53	5.16	7.88	5.18	8.58	5.48	8.86	5.31
	26			5.80	4.42	6.92	5.01	7.46	5.12	7.79	5.14	8.45	5.43	8.73	5.27
	28	5.25	4.35	5.79	4.42	6.89	4.99	7.38	5.09	7.69	5.10	8.31	5.37	8.59	5.21
16 (m³/min)	30	5.25	4.35	5.78	4.41	6.83	4.96	7.31	5.06	7.60	5.05	8.19	5.32	8.46	5.16
	32	5.25	4.35	5.77	4.41	6.78	4.93	7.24	5.02	7.51	5.02	8.06	5.28	8.33	5.12
	34	5.25	4.35	5.75	4.40	6.76	4.92	7.15	4.99	7.39	4.97	7.89	5.21	8.16	5.06
	35	5.25	4.35	5.74	4.40	6.75	4.91	7.10	4.97	7.33	4.94	7.80	5.17	8.08	5.03
	36	5.25	4.35	5.73	4.39	6.69	4.89	7.06	4.95	7.26	4.92	7.66	5.12	7.92	4.97
	38	5.25	4.35	5.72	4.39	6.59	4.85	6.99	4.92	7.12	4.84	7.38	5.01	7.61	4.85
	39	5.25	4.35	5.71	4.38	6.54	4.83	6.96	4.89	7.05	4.81	7.24	4.94	7.45	4.79
	41	5.25	4.35	5.69	4.37	6.35	4.75	6.67	4.77	6.76	4.70	6.92	4.82	7.10	4.69
	43	5.25	4.35	5.67	4.36	6.15	4.66	6.39	4.66	6.46	4.58	6.60	4.72	6.75	4.57

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	4.64	4.64	4.64	4.64	4.64	
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
16 (m³/min)	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
	7.0	6	9.20	8.60	8.00	7.44	6.88	
	10.1	9	9.14	8.56	7.97	7.40	6.82	
	13.2	12	9.08	8.50	7.92	7.34	6.76	
	16.9	15.5	9.01	8.43	7.85	7.27	6.69	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	4.43	6.96	5.02	7.53	5.16	8.01	5.23	8.97	5.64	9.31	5.49
	12			5.82	4.43	6.96	5.02	7.53	5.16	8.00	5.23	8.94	5.63	9.27	5.47
	14			5.82	4.43	6.96	5.02	7.53	5.16	7.99	5.22	8.90	5.61	9.23	5.45
	16			5.82	4.43	6.96	5.02	7.53	5.16	7.97	5.22	8.87	5.60	9.19	5.44
	18			5.82	4.43	6.96	5.02	7.53	5.16	7.96	5.21	8.84	5.59	9.15	5.43
	20			5.82	4.43	6.96	5.02	7.53	5.16	7.95	5.21	8.81	5.57	9.11	5.41
16 (m³/min)	22			5.81	4.43	6.95	5.02	7.53	5.16	7.92	5.20	8.70	5.53	8.99	5.36
	24			5.80	4.42	6.95	5.02	7.53	5.16	7.88	5.18	8.58	5.48	8.86	5.31
	26			5.80	4.42	6.92	5.01	7.46	5.12	7.79	5.14	8.45	5.43	8.73	5.27
	28	5.25	4.35	5.79	4.42	6.89	4.99	7.38	5.09	7.69	5.10	8.31	5.37	8.59	5.21
	30	5.25	4.35	5.78	4.41	6.83	4.96	7.31	5.06	7.60	5.05	8.19	5.32	8.46	5.16
	32	5.25	4.35	5.77	4.41	6.78	4.93	7.24	5.02	7.51	5.02	8.06	5.28	8.33	5.12
	34	5.25	4.35	5.75	4.40	6.76	4.92	7.15	4.99	7.39	4.97	7.89	5.21	8.16	5.06
	35	5.25	4.35	5.74	4.40	6.75	4.91	7.10	4.97	7.33	4.94	7.80	5.17	8.08	5.03
	36	5.25	4.35	5.73	4.39	6.69	4.89	7.06	4.95	7.26	4.92	7.66	5.12	7.92	4.97
38	5.25	4.35	5.72	4.39	6.59	4.85	6.99	4.92	7.12	4.84	7.38	5.01	7.61	4.85	
39	5.25	4.35	5.71	4.38	6.54	4.83	6.96	4.89	7.05	4.81	7.24	4.94	7.45	4.79	
41	5.25	4.35	5.69	4.37	6.35	4.75	6.67	4.77	6.76	4.70	6.92	4.82	7.10	4.69	
43	5.25	4.35	5.67	4.36	6.15	4.66	6.39	4.66	6.46	4.58	6.60	4.72	6.75	4.57	

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64
	-17.8	-18	4.94	4.94	4.94	4.94	4.94
	-15.7	-16	5.24	5.24	5.24	5.24	5.24
	-13.7	-14	5.54	5.54	5.54	5.54	5.54
	-11.7	-12	5.83	5.83	5.83	5.83	5.83
	-9.6	-10	6.13	6.13	6.13	6.13	6.13
	-7.5	-8	6.51	6.51	6.51	6.51	6.51
	-5.5	-6	6.88	6.88	6.88	6.88	6.88
	-3.4	-4	7.12	7.11	7.10	7.03	6.96
	-1.3	-2	7.36	7.34	7.32	7.18	7.04
16 (m³/min)	0.8	0	7.76	7.65	7.54	7.27	7.00
	3.9	3	8.42	8.12	7.82	7.38	6.94
	7.0	6	9.20	8.60	8.00	7.44	6.88
	10.1	9	9.14	8.56	7.97	7.40	6.82
	13.2	12	9.08	8.50	7.92	7.34	6.76
	16.9	15.5	9.01	8.43	7.85	7.27	6.69

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			4.99	3.75	5.97	4.26	6.46	4.37	6.87	4.44	7.69	4.79	7.99	4.65
	12			4.99	3.75	5.97	4.26	6.46	4.37	6.86	4.44	7.67	4.77	7.95	4.64
	14			4.99	3.75	5.97	4.26	6.46	4.37	6.85	4.43	7.64	4.76	7.92	4.63
	16			4.99	3.75	5.97	4.26	6.46	4.37	6.84	4.43	7.61	4.75	7.88	4.61
	18			4.99	3.75	5.97	4.26	6.46	4.37	6.83	4.43	7.58	4.74	7.85	4.60
	20			4.99	3.75	5.97	4.26	6.46	4.37	6.82	4.42	7.55	4.73	7.82	4.59
13 (m³/min)	22			4.98	3.75	5.97	4.26	6.46	4.37	6.79	4.40	7.46	4.69	7.71	4.55
	24			4.98	3.75	5.96	4.25	6.46	4.37	6.76	4.39	7.36	4.65	7.60	4.50
	26			4.97	3.74	5.94	4.24	6.39	4.34	6.68	4.36	7.25	4.60	7.49	4.44
	28	4.51	3.69	4.97	3.74	5.91	4.23	6.33	4.31	6.60	4.33	7.13	4.56	7.37	4.40
	30	4.51	3.69	4.96	3.74	5.86	4.20	6.27	4.29	6.52	4.29	7.02	4.50	7.26	4.37
	32	4.51	3.69	4.95	3.73	5.82	4.19	6.21	4.26	6.45	4.26	6.91	4.45	7.15	4.33
	34	4.51	3.69	4.93	3.72	5.80	4.18	6.13	4.22	6.34	4.21	6.77	4.40	7.00	4.28
	35	4.51	3.69	4.92	3.72	5.79	4.17	6.09	4.20	6.29	4.19	6.69	4.37	6.93	4.26
36	4.51	3.69	4.91	3.71	5.74	4.15	6.06	4.20	6.23	4.17	6.57	4.33	6.79	4.20	
38	4.51	3.69	4.90	3.71	5.65	4.11	6.00	4.16	6.11	4.11	6.33	4.24	6.52	4.11	
39	4.51	3.69	4.90	3.71	5.61	4.09	5.97	4.15	6.05	4.09	6.21	4.19	6.39	4.06	
41	4.51	3.69	4.88	3.70	5.44	4.01	5.72	4.04	5.80	3.98	5.94	4.08	6.09	3.86	
43	4.51	3.69	4.86	3.69	5.27	3.94	5.48	3.94	5.54	3.88	5.66	3.98	5.79	3.96	

Model **FDTW90KXE6**

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			7.38	5.46	8.82	6.19	9.54	6.35	10.15	6.48	11.37	6.98	11.80	6.78
	12			7.38	5.46	8.82	6.19	9.54	6.35	10.14	6.47	11.33	6.97	11.75	6.76
	14			7.38	5.46	8.82	6.19	9.54	6.35	10.12	6.47	11.29	6.95	11.70	6.74
	16			7.38	5.46	8.82	6.19	9.54	6.35	10.11	6.46	11.25	6.93	11.65	6.72
	18			7.38	5.46	8.82	6.19	9.54	6.35	10.09	6.45	11.20	6.91	11.60	6.70
	20			7.38	5.46	8.82	6.19	9.54	6.35	10.08	6.45	11.16	6.89	11.55	6.68
	22			7.37	5.46	8.82	6.19	9.54	6.35	10.03	6.42	11.02	6.83	11.39	6.62
	24			7.36	5.45	8.81	6.19	9.54	6.35	9.99	6.41	10.88	6.77	11.24	6.56
	26			7.35	5.45	8.77	6.17	9.45	6.32	9.87	6.35	10.71	6.70	11.06	6.49
	28	6.66	5.36	7.34	5.44	8.73	6.16	9.36	6.28	9.75	6.28	10.54	6.63	10.89	6.40
19 (m/min)	30	6.66	5.36	7.33	5.44	8.66	6.12	9.27	6.24	9.64	6.24	10.38	6.57	10.73	6.35
	32	6.66	5.36	7.31	5.43	8.60	6.09	9.18	6.21	9.53	6.20	10.22	6.48	10.56	6.29
	34	6.66	5.36	7.28	5.42	8.57	6.08	9.06	6.15	9.37	6.13	10.00	6.40	10.35	6.23
	35	6.66	5.36	7.27	5.41	8.55	6.07	9.00	6.12	9.30	6.11	9.89	6.36	10.24	6.18
	36	6.66	5.36	7.26	5.41	8.49	6.05	8.96	6.11	9.21	6.06	9.72	6.29	10.04	6.10
	38	6.66	5.36	7.25	5.40	8.36	5.98	8.87	6.06	9.03	5.98	9.36	6.15	9.64	5.96
	39	6.66	5.36	7.24	5.40	8.29	5.95	8.82	6.04	8.94	5.95	9.18	6.08	9.44	5.89
	41	6.66	5.36	7.21	5.38	8.04	5.84	8.46	5.89	8.56	5.78	8.77	5.92	9.00	5.73
	43	6.66	5.36	7.19	5.37	7.80	5.73	8.10	5.73	8.19	5.63	8.37	5.77	8.56	5.58

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	5.80	5.80	5.80	5.80	5.80	5.80
	-17.8	-18	6.17	6.17	6.17	6.17	6.17	6.17
	-15.7	-16	6.55	6.55	6.55	6.55	6.55	6.55
	-13.7	-14	6.92	6.92	6.92	6.92	6.92	6.92
	-11.7	-12	7.29	7.29	7.29	7.29	7.29	7.29
	-9.6	-10	7.67	7.67	7.67	7.67	7.67	7.67
	-7.5	-8	8.13	8.13	8.13	8.13	8.13	8.13
	-5.5	-6	8.60	8.60	8.60	8.60	8.60	8.60
	-3.4	-4	8.90	8.89	8.88	8.79	8.70	8.70
	-1.3	-2	9.20	9.18	9.15	8.98	8.80	8.80
19 (m/min)	0.8	0	9.70	9.56	9.43	9.09	8.75	8.75
	3.9	3	10.53	10.15	9.78	9.23	8.68	8.68
	7.0	6	11.50	10.75	10.00	9.30	8.60	8.60
	10.1	9	11.43	10.69	9.96	9.24	8.53	8.53
	13.2	12	11.35	10.63	9.90	9.18	8.45	8.45
	16.9	15.5	11.26	10.54	9.81	9.09	8.36	8.36

		Indoor air temperature													
Air flow	Outdoor air temp. ("CDB)	21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			7.38	5.46	8.82	6.19	9.54	6.35	10.15	6.48	11.37	6.98	11.80	6.78
	12			7.38	5.46	8.82	6.19	9.54	6.35	10.14	6.47	11.33	6.97	11.75	6.76
	14			7.38	5.46	8.82	6.19	9.54	6.35	10.12	6.47	11.29	6.95	11.70	6.74
	16			7.38	5.46	8.82	6.19	9.54	6.35	10.11	6.46	11.25	6.93	11.65	6.72
	18			7.38	5.46	8.82	6.19	9.54	6.35	10.09	6.45	11.20	6.91	11.60	6.70
	20			7.38	5.46	8.82	6.19	9.54	6.35	10.08	6.45	11.16	6.89	11.55	6.68
	22			7.37	5.46	8.82	6.19	9.54	6.35	10.03	6.42	11.02	6.83	11.39	6.62
	24			7.36	5.45	8.81	6.19	9.54	6.35	9.99	6.41	10.88	6.77	11.24	6.56
	26			7.35	5.45	8.77	6.17	9.45	6.32	9.87	6.35	10.71	6.70	11.06	6.49
	28	6.66	5.36	7.34	5.44	8.73	6.16	9.36	6.28	9.75	6.28	10.54	6.63	10.89	6.40
19 (m/min)	30	6.66	5.36	7.33	5.44	8.66	6.12	9.27	6.24	9.64	6.24	10.38	6.57	10.73	6.35
	32	6.66	5.36	7.31	5.43	8.60	6.09	9.18	6.21	9.53	6.20	10.22	6.48	10.56	6.29
	34	6.66	5.36	7.28	5.42	8.57	6.08	9.06	6.15	9.37	6.13	10.00	6.40	10.35	6.23
	35	6.66	5.36	7.27	5.41	8.55	6.07	9.00	6.12	9.30	6.11	9.89	6.36	10.24	6.18
	36	6.66	5.36	7.26	5.41	8.49	6.05	8.96	6.11	9.21	6.06	9.72	6.29	10.04	6.10
	38	6.66	5.36	7.25	5.40	8.36	5.98	8.87	6.06	9.03	5.98	9.36	6.15	9.64	5.96
	39	6.66	5.36	7.24	5.40	8.29	5.95	8.82	6.04	8.94	5.95	9.18	6.08	9.44	5.89
	41	6.66	5.36	7.21	5.38	8.04	5.84	8.46	5.89	8.56	5.78	8.77	5.92	9.00	5.73
	43	6.66	5.36	7.19	5.37	7.80	5.73	8.10	5.73	8.19	5.63	8.37	5.77	8.56	5.58

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	5.80	5.80	5.80	5.80	5.80	5.80
	-17.8	-18	6.17	6.17	6.17	6.17	6.17	6.17
	-15.7	-16	6.55	6.55	6.55	6.55	6.55	6.55
	-13.7	-14	6.92	6.92	6.92	6.92	6.92	6.92
	-11.7	-12	7.29	7.29	7.29	7.29	7.29	7.29
	-9.6	-10	7.67	7.67	7.67	7.67	7.67	7.67
	-7.5	-8	8.13	8.13	8.13	8.13	8.13	8.13
	-5.5	-6	8.60	8.60	8.60	8.60	8.60	8.60
	-3.4	-4	8.90	8.89	8.88	8.79	8.70	8.70
	-1.3	-2	9.20	9.18	9.15	8.98	8.80	8.80
19 (m/min)	0.8	0	9.70	9.56	9.43	9.09	8.75	8.75
	3.9	3	10.53	10.15	9.78	9.23	8.68	8.68
	7.0	6	11.50	10.75	10.00	9.30	8.60	8.60
	10.1	9	11.43	10.69	9.96	9.24	8.53	8.53
	13.2	12	11.35	10.63	9.90	9.18	8.45	8.45
	16.9	15.5	11.26	10.54	9.81	9.09	8.36	8.36

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			6.56	4.78	7.84	5.43	8.48	5.59	9.02	5.69	10.11	6.13	10.49	5.94
	12			6.56	4.78	7.84	5.43	8.48	5.59	9.01	5.68	10.07	6.11	10.45	5.93
	14			6.56	4.78	7.84	5.43	8.48	5.59	9.00	5.68	10.03	6.10	10.40	5.91
	16			6.56	4.78	7.84	5.43	8.48	5.59	8.99	5.67	10.00	6.08	10.36	5.90
	18			6.56	4.78	7.84	5.43	8.48	5.59	8.97	5.65	9.96	6.06	10.31	5.87
	20			6.56	4.78	7.84	5.43	8.48	5.59	8.96	5.65	9.92	6.05	10.27	5.86
	22			6.55	4.77	7.84	5.43	8.48	5.59	8.92	5.63	9.80	5.99	10.13	5.80
	24			6.54	4.77	7.83	5.42	8.48	5.59	8.88	5.61	9.67	5.94	9.99	5.75
	26			6.53	4.76	7.80	5.41	8.40	5.55	8.77	5.57	9.52	5.88	9.83	5.68
	28	5.92	4.69	6.53	4.76	7.76	5.39	8.32	5.51	8.67	5.53	9.37	5.81	9.68	5.61
16 (m/min)	30	5.92	4.69	6.51	4.75	7.70	5.37	8.24	5.48	8.57	5.48	9.22	5.73	9.54	5.57
	32	5.92	4.69	6.50	4.75	7.64	5.34	8.16	5.44	8.47	5.44	9.08	5.68	9.39	5.52
	34	5.92	4.69	6.47	4.73	7.61	5.32	8.05	5.39	8.33	5.37	8.89	5.61	9.20	5.44
	35	5.92	4.69	6.46	4.73	7.60	5.32	8.00	5.36	8.26	5.35	8.79	5.56	9.10	5.41
	36	5.92	4.69	6.46	4.73	7.54	5.29	7.96	5.35	8.19	5.31	8.64	5.51	8.92	5.34
	38	5.92	4.69	6.44	4.72	7.43	5.24	7.88	5.32	8.03	5.24	8.32	5.38	8.57	5.21
	39	5.92	4.69	6.43	4.72	7.37	5.21	7.84	5.29	7.95	5.21	8.16	5.31	8.39	5.14
	41	5.92	4.69	6.41	4.71	7.15	5.11	7.52	5.15	7.61	5.06	7.80	5.17	8.00	5.01
	43	5.92	4.69	6.39	4.70	6.93	5.01	7.20	5.01	7.28	4.92	7.44	5.03	7.61	4.85

Model **FDTW112KXE6** Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			9.18	7.30	10.97	8.28	11.87	8.49	12.63	8.60	14.15	9.29	14.69	9.01
	12			9.18	7.30	10.97	8.28	11.87	8.49	12.61	8.60	14.10	9.27	14.63	8.99
	14			9.18	7.30	10.97	8.28	11.87	8.49	12.60	8.59	14.05	9.25	14.56	8.96
	16			9.18	7.30	10.97	8.28	11.87	8.49	12.58	8.58	14.00	9.23	14.50	8.94
	18			9.18	7.30	10.97	8.28	11.87	8.49	12.56	8.58	13.94	9.20	14.44	8.92
	20			9.18	7.30	10.97	8.28	11.87	8.49	12.55	8.57	13.89	9.15	14.37	8.90
	22			9.17	7.30	10.97	8.28	11.87	8.49	12.49	8.55	13.72	9.09	14.18	8.84
	24			9.15	7.29	10.97	8.28	11.87	8.49	12.43	8.51	13.54	9.02	13.98	8.77
	26			9.15	7.29	10.92	8.26	11.76	8.44	12.28	8.46	13.33	8.95	13.77	8.70
	28	8.29	7.21	9.14	7.29	10.86	8.24	11.65	8.39	12.14	8.40	13.11	8.87	13.55	8.64
28 (m³/min)	30	8.29	7.21	9.12	7.28	10.78	8.20	11.54	8.34	12.00	8.33	12.91	8.80	13.35	8.57
	32	8.29	7.21	9.09	7.26	10.70	8.17	11.42	8.30	11.85	8.28	12.71	8.73	13.15	8.49
	34	8.29	7.21	9.06	7.25	10.66	8.15	11.27	8.24	11.66	8.20	12.45	8.63	12.87	8.40
	35	8.29	7.21	9.05	7.25	10.64	8.15	11.20	8.18	11.57	8.17	12.31	8.58	12.74	8.36
	36	8.29	7.21	9.04	7.24	10.56	8.11	11.14	8.17	11.46	8.12	12.09	8.50	12.49	8.27
	38	8.29	7.21	9.02	7.24	10.40	8.04	11.03	8.13	11.24	8.03	11.65	8.33	12.00	8.10
	39	8.29	7.21	9.00	7.23	10.32	8.00	10.98	8.11	11.13	7.99	11.43	8.24	11.75	8.02
	41	8.29	7.21	8.97	7.21	10.01	7.88	10.53	7.92	10.66	7.80	10.92	8.07	11.20	7.83
	43	8.29	7.21	8.94	7.20	9.70	7.74	10.08	7.73	10.19	7.62	10.41	7.88	10.65	7.65

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	7.25	7.25	7.25	7.25	7.25	7.25
	-17.8	-18	7.72	7.72	7.72	7.72	7.72	7.72
	-15.7	-16	8.18	8.18	8.18	8.18	8.18	8.18
	-13.7	-14	8.65	8.65	8.65	8.65	8.65	8.65
	-11.7	-12	9.12	9.12	9.12	9.12	9.12	9.12
	-9.6	-10	9.58	9.58	9.58	9.58	9.58	9.58
	-7.5	-8	10.17	10.17	10.17	10.17	10.17	10.17
	-5.5	-6	10.75	10.75	10.75	10.75	10.75	10.75
	-3.4	-4	11.13	11.11	11.09	10.98	10.88	
	-1.3	-2	11.50	11.47	11.44	11.22	11.00	
28 (m ³ /min)	0.8	0	12.13	11.95	11.78	11.36	10.94	
	3.9	3	13.16	12.69	12.22	11.53	10.84	
	7.0	6	14.38	13.44	12.50	11.63	10.75	
	10.1	9	14.28	13.37	12.45	11.55	10.66	
	13.2	12	14.19	13.28	12.38	11.47	10.56	
	16.9	15.5	14.08	13.17	12.27	11.36	10.45	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			9.18	7.30	10.97	8.28	11.87	8.49	12.63	8.60	14.15	9.29	14.69	9.01
	12			9.18	7.30	10.97	8.28	11.87	8.49	12.61	8.60	14.10	9.27	14.63	8.99
	14			9.18	7.30	10.97	8.28	11.87	8.49	12.60	8.59	14.05	9.25	14.56	8.96
	16			9.18	7.30	10.97	8.28	11.87	8.49	12.58	8.58	14.00	9.23	14.50	8.94
	18			9.18	7.30	10.97	8.28	11.87	8.49	12.56	8.58	13.94	9.20	14.44	8.92
	20			9.18	7.30	10.97	8.28	11.87	8.49	12.55	8.57	13.89	9.15	14.37	8.90
	22			9.17	7.30	10.97	8.28	11.87	8.49	12.49	8.55	13.72	9.09	14.18	8.84
	24			9.15	7.29	10.97	8.28	11.87	8.49	12.43	8.51	13.54	9.02	13.98	8.77
	26			9.15	7.29	10.92	8.26	11.76	8.44	12.28	8.46	13.33	8.95	13.77	8.70
	28	8.29	7.21	9.14	7.29	10.86	8.24	11.65	8.39	12.14	8.40	13.11	8.87	13.55	8.64
28 (m³/min)	30	8.29	7.21	9.12	7.28	10.78	8.20	11.54	8.34	12.00	8.33	12.91	8.80	13.35	8.57
	32	8.29	7.21	9.09	7.26	10.70	8.17	11.42	8.30	11.85	8.28	12.71	8.73	13.15	8.49
	34	8.29	7.21	9.06	7.25	10.66	8.15	11.27	8.24	11.66	8.20	12.45	8.63	12.87	8.40
	35	8.29	7.21	9.05	7.25	10.64	8.15	11.20	8.18	11.57	8.17	12.31	8.58	12.74	8.36
	36	8.29	7.21	9.04	7.24	10.56	8.11	11.14	8.17	11.46	8.12	12.09	8.50	12.49	8.27
	38	8.29	7.21	9.02	7.24	10.40	8.04	11.03	8.13	11.24	8.03	11.65	8.33	12.00	8.10
	39	8.29	7.21	9.00	7.23	10.32	8.00	10.98	8.11	11.13	7.99	11.43	8.24	11.75	8.02
	41	8.29	7.21	8.97	7.21	10.01	7.88	10.53	7.92	10.66	7.80	10.92	8.07	11.20	7.83
	43	8.29	7.21	8.94	7.20	9.70	7.74	10.08	7.73	10.19	7.62	10.41	7.88	10.65	7.65

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	7.25	7.25	7.25	7.25	7.25	7.25
	-17.8	-18	7.72	7.72	7.72	7.72	7.72	7.72
	-15.7	-16	8.18	8.18	8.18	8.18	8.18	8.18
	-13.7	-14	8.65	8.65	8.65	8.65	8.65	8.65
	-11.7	-12	9.12	9.12	9.12	9.12	9.12	9.12
	-9.6	-10	9.58	9.58	9.58	9.58	9.58	9.58
	-7.5	-8	10.17	10.17	10.17	10.17	10.17	10.17
	-5.5	-6	10.75	10.75	10.75	10.75	10.75	10.75
	-3.4	-4	11.13	11.11	11.09	10.98	10.88	
	-1.3	-2	11.50	11.47	11.44	11.22	11.00	
28 (m ³ /min)	0.8	0	12.13	11.95	11.78	11.36	10.94	
	3.9	3	13.16	12.69	12.22	11.53	10.84	
	7.0	6	14.38	13.44	12.50	11.63	10.75	
	10.1	9	14.28	13.37	12.45	11.55	10.66	
	13.2	12	14.19	13.28	12.38	11.47	10.56	
	16.9	15.5	14.08	13.17	12.27	11.36	10.45	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			8.48	6.67	10.13	7.54	10.96	7.73	11.66	7.84	13.06	8.46	13.56	8.23
	12			8.48	6.67	10.13	7.54	10.96	7.73	11.65	7.84	13.01	8.44	13.50	8.21
	14			8.48	6.67	10.13	7.54	10.96	7.73	11.63	7.83	12.97	8.43	13.45	8.19
	16			8.48	6.67	10.13	7.54	10.96	7.73	11.61	7.82	12.92	8.41	13.39	8.17
	18			8.48	6.67	10.13	7.54	10.96	7.73	11.60	7.82	12.87	8.38	13.33	8.15
	20			8.48	6.67	10.13	7.54	10.96	7.73	11.58	7.81	12.83	8.36	13.27	8.13
	22			8.46	6.66	10.13	7.54	10.96	7.73	11.53	7.78	12.66	8.30	13.09	8.03
	24			8.45	6.65	10.12	7.54	10.96	7.73	11.47	7.76	12.50	8.24	12.91	7.97
	26			8.44	6.65	10.08	7.52	10.86	7.68	11.34	7.71	12.30	8.13	12.71	7.91
	28	7.65	6.55	8.44	6.65	10.03	7.50	10.75	7.64	11.20	7.65	12.11	8.06	12.51	7.84
25 (m³/min)	30	7.65	6.55	8.42	6.64	9.95	7.47	10.65	7.60	11.07	7.59	11.92	8.00	12.32	7.78
	32	7.65	6.55	8.40	6.63	9.87	7.44	10.55	7.56	10.94	7.54	11.74	7.93	12.14	7.72
	34	7.65	6.55	8.37	6.62	9.84	7.42	10.41	7.49	10.77	7.48	11.49	7.84	11.89	7.64
	35	7.65	6.55	8.35	6.61	9.82	7.40	10.34	7.44	10.68	7.43	11.37	7.80	11.76	7.59
	36	7.65	6.55	8.34	6.61	9.75	7.38	10.29	7.44	10.58	7.39	11.16	7.72	11.53	7.51
	38	7.65	6.55	8.32	6.60	9.60	7.31	10.18	7.40	10.37	7.31	10.75	7.56	11.08	7.36
	39	7.65	6.55	8.31	6.59	9.53	7.29	10.13	7.38	10.27	7.26	10.55	7.49	10.85	7.29
	41	7.65	6.55	8.28	6.58	9.24	7.16	9.72	7.21	9.84	7.10	10.08	7.32	10.34	7.11
	43	7.65	6.55	8.25	6.54	8.96	7.04	9.31	7.04	9.41	6.93	9.61	7.15	9.83	6.94

Model **FDTW140KXE6**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			11.48	8.75	13.72	9.91	14.84	10.17	15.79	10.33	17.69	11.14	18.36	10.79
	12			11.48	8.75	13.72	9.91	14.84	10.17	15.77	10.33	17.62	11.11	18.28	10.76
	14			11.48	8.75	13.72	9.91	14.84	10.17	15.75	10.32	17.56	11.09	18.20	10.74
	16			11.48	8.75	13.72	9.91	14.84	10.17	15.72	10.31	17.49	11.06	18.13	10.71
	18			11.48	8.75	13.72	9.91	14.84	10.17	15.70	10.30	17.43	11.03	18.05	10.69
	20			11.48	8.75	13.72	9.91	14.84	10.17	15.68	10.29	17.37	10.97	17.97	10.66
	22			11.46	8.72	13.71	9.91	14.84	10.17	15.61	10.25	17.15	10.89	17.72	10.58
	24			11.44	8.71	13.71	9.91	14.84	10.17	15.54	10.22	16.93	10.81	17.48	10.50
32 (m³/min)	26			11.43	8.70	13.64	9.88	14.70	10.11	15.35	10.15	16.66	10.71	17.21	10.39
	28	10.36	8.59	11.42	8.70	13.58	9.85	14.56	10.04	15.17	10.06	16.39	10.60	16.94	10.31
	30	10.36	8.59	11.40	8.69	13.48	9.80	14.42	9.99	14.99	9.99	16.14	10.51	16.69	10.21
	32	10.36	8.59	11.37	8.68	13.37	9.75	14.28	9.93	14.82	9.91	15.89	10.41	16.43	10.11
	34	10.36	8.59	11.33	8.66	13.32	9.73	14.09	9.84	14.58	9.82	15.56	10.28	16.09	9.98
	35	10.36	8.59	11.31	8.65	13.30	9.72	14.00	9.80	14.46	9.76	15.39	10.22	15.92	9.93
	36	10.36	8.59	11.30	8.64	13.20	9.68	13.93	9.77	14.32	9.70	15.11	10.10	15.61	9.81
	38	10.36	8.59	11.27	8.63	13.00	9.59	13.79	9.70	14.05	9.58	14.56	9.89	15.00	9.60
	39	10.36	8.59	11.26	8.63	12.90	9.54	13.72	9.68	13.91	9.53	14.28	9.78	14.69	9.49
	41	10.36	8.59	11.22	8.61	12.51	9.37	13.16	9.44	13.32	9.29	13.65	9.55	14.00	9.22
43	10.36	8.59	11.18	8.59	12.13	9.20	12.60	9.21	12.74	9.05	13.02	9.28	13.31	9.01	

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi	-19.8	-20	9.28	9.28	9.28	9.28	9.28
	-17.8	-18	9.88	9.88	9.88	9.88	9.88
	-15.7	-16	10.47	10.47	10.47	10.47	10.47
	-13.7	-14	11.07	11.07	11.07	11.07	11.07
	-11.7	-12	11.67	11.67	11.67	11.67	11.67
	-9.6	-10	12.27	12.27	12.27	12.27	12.27
	-7.5	-8	13.01	13.01	13.01	13.01	13.01
	-5.5	-6	13.76	13.76	13.76	13.76	13.76
	-3.4	-4	14.24	14.22	14.20	14.06	13.92
	-1.3	-2	14.72	14.68	14.64	14.36	14.08
32 (m/min)	0.8	0	15.52	15.30	15.08	14.54	14.00
	3.9	3	16.84	16.24	15.64	14.76	13.88
	7.0	6	18.40	17.20	16.00	14.88	13.76
	10.1	9	18.28	17.11	15.94	14.79	13.64
	13.2	12	18.16	17.00	15.84	14.68	13.52
	16.9	15.5	18.02	16.86	15.70	14.54	13.38

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			11.48	8.75	13.72	9.91	14.84	10.17	15.79	10.33	17.69	11.14	18.36	10.79
	12			11.48	8.75	13.72	9.91	14.84	10.17	15.77	10.33	17.62	11.11	18.28	10.76
	14			11.48	8.75	13.72	9.91	14.84	10.17	15.75	10.32	17.56	11.09	18.20	10.74
	16			11.48	8.75	13.72	9.91	14.84	10.17	15.72	10.31	17.49	11.06	18.13	10.71
	18			11.48	8.75	13.72	9.91	14.84	10.17	15.70	10.30	17.43	11.03	18.05	10.69
	20			11.48	8.75	13.72	9.91	14.84	10.17	15.68	10.29	17.37	10.97	17.97	10.66
32 (m/min)	22			11.46	8.72	13.71	9.91	14.84	10.17	15.61	10.25	17.15	10.89	17.72	10.58
	24			11.44	8.71	13.71	9.91	14.84	10.17	15.54	10.22	16.93	10.81	17.48	10.50
	26			11.43	8.70	13.64	9.88	14.70	10.11	15.35	10.15	16.66	10.71	17.21	10.39
	28	10.36	8.59	11.42	8.70	13.58	9.85	14.56	10.04	15.17	10.06	16.39	10.60	16.94	10.31
	30	10.36	8.59	11.40	8.69	13.48	9.80	14.42	9.99	14.99	9.99	16.14	10.51	16.69	10.21
	32	10.36	8.59	11.37	8.68	13.37	9.75	14.28	9.93	14.82	9.91	15.89	10.41	16.43	10.11
	34	10.36	8.59	11.33	8.66	13.32	9.73	14.09	9.84	14.58	9.82	15.56	10.28	16.09	9.98
	35	10.36	8.59	11.31	8.65	13.30	9.72	14.00	9.80	14.46	9.76	15.39	10.22	15.92	9.93
	36	10.36	8.59	11.30	8.64	13.20	9.68	13.93	9.77	14.32	9.70	15.11	10.10	15.61	9.81
	38	10.36	8.59	11.27	8.63	13.00	9.59	13.79	9.70	14.05	9.58	14.56	9.89	15.00	9.60
	39	10.36	8.59	11.26	8.63	12.90	9.54	13.72	9.68	13.91	9.53	14.28	9.78	14.69	9.49
	41	10.36	8.59	11.22	8.61	12.51	9.37	13.16	9.44	13.32	9.29	13.65	9.55	14.00	9.22
	43	10.36	8.59	11.18	8.59	12.13	9.20	12.60	9.21	12.74	9.05	13.02	9.28	13.31	9.01

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	9.28	9.28	9.28	9.28	9.28	
	-17.8	-18	9.88	9.88	9.88	9.88	9.88	
	-15.7	-16	10.47	10.47	10.47	10.47	10.47	
	-13.7	-14	11.07	11.07	11.07	11.07	11.07	
	-11.7	-12	11.67	11.67	11.67	11.67	11.67	
	-9.6	-10	12.27	12.27	12.27	12.27	12.27	
	-7.5	-8	13.01	13.01	13.01	13.01	13.01	
	-5.5	-6	13.76	13.76	13.76	13.76	13.76	
	-3.4	-4	14.24	14.22	14.20	14.06	13.92	
	-1.3	-2	14.72	14.68	14.64	14.36	14.08	
32 (m/min)	0.8	0	15.52	15.30	15.08	14.54	14.00	
	3.9	3	16.84	16.24	15.64	14.76	13.88	
	7.0	6	18.40	17.20	16.00	14.88	13.76	
	10.1	9	18.28	17.11	15.94	14.79	13.64	
	13.2	12	18.16	17.00	15.84	14.68	13.52	
	16.9	15.5	18.02	16.86	15.70	14.54	13.38	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			10.45	7.88	12.49	8.93	13.52	9.18	14.38	9.31	16.11	10.02	16.72	9.75
	12			10.45	7.88	12.49	8.93	13.52	9.18	14.36	9.31	16.05	10.00	16.65	9.72
	14			10.45	7.88	12.49	8.93	13.52	9.18	14.34	9.30	15.99	9.98	16.58	9.70
	16			10.45	7.88	12.49	8.93	13.52	9.18	14.32	9.29	15.93	9.96	16.51	9.68
	18			10.45	7.88	12.49	8.93	13.52	9.18	14.30	9.28	15.87	9.93	16.44	9.65
	20			10.45	7.88	12.49	8.93	13.52	9.18	14.28	9.27	15.82	9.91	16.36	9.63
	22			10.44	7.88	12.49	8.93	13.52	9.18	14.22	9.25	15.62	9.84	16.14	9.54
	24			10.42	7.86	12.48	8.93	13.52	9.18	14.15	9.22	15.42	9.75	15.92	9.45
	26			10.41	7.85	12.43	8.90	13.39	9.11	13.98	9.14	15.17	9.66	15.67	9.37
	28	9.44	7.74	10.40	7.85	12.37	8.87	13.26	9.06	13.82	9.08	14.93	9.56	15.43	9.27
(m/min)	30	9.44	7.74	10.38	7.84	12.27	8.83	13.13	9.00	13.66	9.00	14.70	9.46	15.20	9.20
	32	9.44	7.74	10.35	7.83	12.18	8.79	13.01	8.94	13.49	8.93	14.47	9.38	14.97	9.11
	34	9.44	7.74	10.32	7.81	12.13	8.77	12.84	8.87	13.28	8.84	14.17	9.25	14.66	8.99
	35	9.44	7.74	10.30	7.81	12.11	8.76	12.75	8.80	13.17	8.80	14.02	9.19	14.50	8.94
	36	9.44	7.74	10.29	7.80	12.02	8.71	12.69	8.80	13.05	8.75	13.76	9.09	14.22	8.83
	38	9.44	7.74	10.26	7.79	11.84	8.61	12.56	8.75	12.79	8.63	13.26	8.90	13.66	8.64
	39	9.44	7.74	10.25	7.78	11.75	8.57	12.50	8.72	12.67	8.59	13.01	8.80	13.38	8.50
	41	9.44	7.74	10.21	7.77	11.40	8.43	11.99	8.48	12.13	8.34	12.43	8.55	12.75	8.30
	43	9.44	7.74	10.18	7.75	11.04	8.28	11.48	8.28	11.60	8.14	11.85	8.36	12.12	8.10

(d) Ceiling cassette-1 way type (FDTS)

Model **FDTS45KXE6**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.76	3.45	4.50	3.91	4.87	3.97	5.18	4.02	5.80	4.33	6.02	4.23
	12			3.76	3.45	4.50	3.91	4.87	3.97	5.17	4.02	5.78	4.32	5.99	4.22
	14			3.76	3.45	4.50	3.91	4.87	3.97	5.16	4.01	5.76	4.32	5.97	4.22
	16			3.76	3.45	4.50	3.91	4.87	3.97	5.16	4.01	5.74	4.31	5.94	4.21
	18			3.76	3.45	4.50	3.91	4.87	3.97	5.15	4.01	5.71	4.30	5.92	4.20
	20			3.76	3.45	4.50	3.91	4.87	3.97	5.14	4.00	5.69	4.29	5.89	4.19
	22			3.76	3.45	4.50	3.91	4.87	3.97	5.12	4.00	5.62	4.27	5.81	4.17
15 (m/min)	24			3.75	3.44	4.49	3.90	4.87	3.97	5.09	3.98	5.55	4.24	5.73	4.14
	26			3.75	3.44	4.47	3.90	4.82	3.96	5.03	3.96	5.46	4.21	5.64	4.11
	28	3.40	3.26	3.75	3.44	4.45	3.89	4.77	3.94	4.97	3.94	5.37	4.18	5.55	4.09
	30	3.40	3.26	3.74	3.44	4.42	3.88	4.73	3.92	4.92	3.92	5.29	4.16	5.47	4.06
	32	3.40	3.26	3.73	3.43	4.38	3.85	4.68	3.90	4.86	3.90	5.21	4.13	5.39	4.04
	34	3.40	3.26	3.71	3.43	4.37	3.85	4.62	3.88	4.78	3.87	5.10	4.09	5.28	4.00
	35	3.40	3.26	3.71	3.43	4.36	3.85	4.59	3.86	4.74	3.85	5.05	4.08	5.22	3.99
	36	3.40	3.26	3.70	3.42	4.33	3.83	4.57	3.86	4.70	3.84	4.95	4.05	5.12	3.96
	38	3.40	3.26	3.69	3.42	4.26	3.81	4.52	3.84	4.61	3.81	4.77	3.99	4.92	3.89
	39	3.40	3.26	3.69	3.42	4.23	3.79	4.50	3.84	4.56	3.78	4.68	3.96	4.82	3.87
41	3.40	3.26	3.68	3.41	4.10	3.75	4.31	3.76	4.37	3.71	4.48	3.89	4.59	3.80	
43	3.40	3.26	3.66	3.40	3.98	3.70	4.13	3.69	4.18	3.65	4.27	3.82	4.36	3.73	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.96	2.96	2.96	2.96	2.96	2.96
	-17.8	-18	3.15	3.15	3.15	3.15	3.15	
	-15.7	-16	3.34	3.34	3.34	3.34	3.34	
	-13.7	-14	3.53	3.53	3.53	3.53	3.53	
	-11.7	-12	3.72	3.72	3.72	3.72	3.72	
	-9.6	-10	3.91	3.91	3.91	3.91	3.91	
	-7.5	-8	4.15	4.15	4.15	4.15	4.15	
	-5.5	-6	4.39	4.39	4.39	4.39	4.39	
	-3.4	-4	4.54	4.53	4.53	4.48	4.44	
	-1.3	-2	4.69	4.68	4.67	4.58	4.49	
15 (m/min)	0.8	0	4.95	4.88	4.81	4.63	4.46	
	3.9	3	5.37	5.18	4.99	4.70	4.42	
	7.0	6	5.87	5.48	5.10	4.74	4.39	
	10.1	9	5.83	5.45	5.08	4.71	4.35	
	13.2	12	5.79	5.42	5.05	4.68	4.31	
	16.9	15.5	5.74	5.37	5.00	4.63	4.26	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			3.69	3.29	4.41	3.73	4.77	3.80	5.07	3.84	5.68	4.16	5.90	4.06
	12			3.69	3.29	4.41	3.73	4.77	3.80	5.07	3.84	5.66	4.15	5.88	4.06
	14			3.69	3.29	4.41	3.73	4.77	3.80	5.06	3.83	5.64	4.14	5.85	4.05
	16			3.69	3.29	4.41	3.73	4.77	3.80	5.05	3.83	5.62	4.13	5.83	4.04
	18			3.69	3.29	4.41	3.73	4.77	3.80	5.05	3.83	5.60	4.13	5.80	4.01
14 (m/min)	20			3.69	3.29	4.41	3.73	4.77	3.80	5.04	3.83	5.58	4.12	5.78	4.00
	22			3.68	3.29	4.41	3.73	4.77	3.80	5.02	3.82	5.51	4.10	5.70	3.97
	24			3.68	3.29	4.41	3.73	4.77	3.80	4.99	3.81	5.44	4.05	5.62	3.95
	26			3.68	3.29	4.39	3.72	4.73	3.79	4.93	3.79	5.35	4.02	5.53	3.92
	28	3.33	3.20	3.67	3.28	4.37	3.71	4.68	3.77	4.88	3.77	5.27	3.99	5.44	3.89
	30	3.33	3.20	3.66	3.28	4.33	3.70	4.64	3.75	4.82	3.75	5.19	3.97	5.36	3.87
	32	3.33	3.20	3.65	3.27	4.30	3.69	4.59	3.73	4.76	3.72	5.11	3.94	5.28	3.84
	34	3.33	3.20	3.64	3.27	4.28	3.68	4.53	3.70	4.69	3.69	5.00	3.90	5.17	3.81
	35	3.33	3.20	3.64	3.27	4.28	3.68	4.50	3.69	4.65	3.68	4.95	3.88	5.12	3.80
36	3.33	3.20	3.63	3.27	4.24	3.66	4.48	3.69	4.60	3.66	4.86	3.85	5.02	3.77	
38	3.33	3.20	3.62	3.26	4.18	3.64	4.43	3.67	4.52	3.63	4.68	3.79	4.82	3.70	
39	3.33	3.20	3.62	3.26	4.15	3.63	4.41	3.66	4.47	3.61	4.59	3.77	4.72	3.67	
41	3.33	3.20	3.61	3.26	4.02	3.57	4.23	3.59	4.28	3.54	4.39	3.70	4.50	3.61	
43	3.33	3.20	3.59	3.25	3.90	3.52	4.05	3.52	4.09	3.47	4.18	3.63	4.28	3.54	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.90	2.90	2.90	2.90	2.90	
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	
	-3.4	-4	4.45	4.44	4.44	4.39	4.35	
	-1.3	-2	4.60	4.59	4.58	4.49	4.40	
14 (m/min)	0.8	0	4.85	4.78	4.71	4.54	4.38	
	3.9	3	5.26	5.08	4.89	4.61	4.34	
	7.0	6	5.75	5.38	5.00	4.65	4.30	
	10.1	9	5.71	5.35	4.98	4.62	4.26	
	13.2	12	5.68	5.31	4.95	4.59	4.23	
	16.9	15.5	5.63	5.27	4.91	4.54	4.18	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			3.35	2.93	4.01	3.31	4.34	3.37	4.61	3.41	5.17	3.68	5.36	3.59
	12			3.35	2.93	4.01	3.31	4.34	3.37	4.61	3.41	5.15	3.67	5.34	3.58
	14			3.35	2.93	4.01	3.31	4.34	3.37	4.60	3.41	5.13	3.67	5.32	3.58
	16			3.35	2.93	4.01	3.31	4.34	3.37	4.59	3.40	5.11	3.66	5.30	3.57
	18			3.35	2.93	4.01	3.31	4.34	3.37	4.59	3.40	5.09	3.65	5.27	3.56
	20			3.35	2.93	4.01	3.31	4.34	3.37	4.58	3.40	5.07	3.65	5.25	3.56
	22			3.35	2.93	4.01	3.31	4.34	3.37	4.56	3.39	5.01	3.62	5.18	3.53
	24			3.34	2.93	4.00	3.31	4.34	3.37	4.54	3.38	4.95	3.60	5.11	3.51
	26			3.34	2.93	3.99	3.30	4.29	3.35	4.49	3.37	4.87	3.57	5.03	3.49
	28	3.03	2.89	3.34	2.93	3.97	3.29	4.25	3.34	4.43	3.34	4.79	3.55	4.95	3.46
12 (m/min)	30	3.03	2.89	3.33	2.92	3.94	3.28	4.21	3.32	4.38	3.32	4.72	3.52	4.87	3.43
	32	3.03	2.89	3.32	2.92	3.91	3.27	4.17	3.31	4.33	3.30	4.64	3.50	4.80	3.41
	34	3.03	2.89	3.31	2.91	3.89	3.26	4.12	3.29	4.26	3.27	4.54	3.46	4.70	3.38
	35	3.03	2.89	3.30	2.91	3.89	3.26	4.09	3.27	4.23	3.26	4.50	3.45	4.65	3.37
	36	3.03	2.89	3.30	2.91	3.86	3.25	4.07	3.27	4.18	3.24	4.42	3.42	4.56	3.34
	38	3.03	2.89	3.29	2.90	3.80	3.22	4.03	3.25	4.10	3.22	4.25	3.36	4.38	3.28
	39	3.03	2.89	3.29	2.90	3.77	3.21	4.01	3.24	4.06	3.20	4.17	3.34	4.29	3.25
	41	3.03	2.89	3.28	2.90	3.66	3.16	3.84	3.17	3.89	3.13	3.99	3.27	4.09	3.19
43	3.03	2.89	3.27	2.90	3.54	3.12	3.68	3.11	3.72	3.07	3.80	3.21	3.89	3.13	

Model **FDT571KXE6**

Cool Mode

Heat Mode

Model	Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
			21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			5.93	4.93	7.09	5.58	7.67	5.69	8.16	5.77	9.15	6.23	9.50	6.07	
	12			5.93	4.93	7.09	5.58	7.67	5.69	8.15	5.76	9.11	6.21	9.46	6.06	
	14			5.93	4.93	7.09	5.58	7.67	5.69	8.14	5.76	9.08	6.20	9.41	6.04	
	16			5.93	4.93	7.09	5.58	7.67	5.69	8.13	5.76	9.05	6.19	9.37	6.03	
	18			5.93	4.93	7.09	5.58	7.67	5.69	8.12	5.75	9.01	6.18	9.33	6.01	
	20			5.93	4.93	7.09	5.58	7.67	5.69	8.11	5.75	8.98	6.16	9.29	6.00	
	22			5.93	4.93	7.09	5.58	7.67	5.69	8.07	5.73	8.87	6.12	9.16	5.96	
	24			5.92	4.93	7.09	5.58	7.67	5.69	8.03	5.72	8.75	6.08	9.04	5.92	
	26			5.91	4.93	7.06	5.56	7.60	5.66	7.94	5.68	8.62	6.03	8.90	5.87	
	28	5.36	4.87	5.91	4.93	7.02	5.55	7.53	5.64	7.85	5.65	8.48	5.98	8.76	5.83	
	30	5.36	4.87	5.89	4.92	6.97	5.53	7.46	5.61	7.75	5.60	8.35	5.94	8.63	5.73	
	32	5.36	4.87	5.88	4.91	6.91	5.50	7.38	5.58	7.66	5.57	8.22	5.89	8.50	5.78	
	34	5.36	4.87	5.86	4.90	6.89	5.49	7.29	5.54	7.54	5.52	8.05	5.82	8.32	5.67	
	35	5.36	4.87	5.85	4.90	6.88	5.49	7.24	5.50	7.48	5.50	7.96	5.79	8.23	5.64	
	36	5.36	4.87	5.84	4.90	6.83	5.47	7.20	5.50	7.41	5.47	7.82	5.74	8.07	5.59	
	38	5.36	4.87	5.83	4.89	6.72	5.42	7.13	5.48	7.26	5.41	7.53	5.64	7.76	5.49	
19 (m/min)	39	5.36	4.87	5.82	4.89	6.67	5.40	7.10	5.46	7.19	5.39	7.39	5.59	7.60	5.43	
	41	5.36	4.87	5.80	4.88	6.47	5.30	6.81	5.34	6.89	5.24	7.06	5.47	7.24	5.32	
	43	5.36	4.87	5.78	4.87	6.27	5.22	6.52	5.21	6.59	5.13	6.73	5.35	6.88	5.21	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	4.73	4.73	4.73	4.73	4.73	
	-17.8	-18	5.04	5.04	5.04	5.04	5.04	
	-15.7	-16	5.34	5.34	5.34	5.34	5.34	
	-13.7	-14	5.65	5.65	5.65	5.65	5.65	
	-11.7	-12	5.95	5.95	5.95	5.95	5.95	
	-9.6	-10	6.26	6.26	6.26	6.26	6.26	
	-7.5	-8	6.64	6.64	6.64	6.64	6.64	
	-5.5	-6	7.02	7.02	7.02	7.02	7.02	
19 (m/min)	-3.4	-4	7.26	7.25	7.24	7.17	7.10	
	-1.3	-2	7.51	7.49	7.47	7.32	7.18	
	0.8	0	7.92	7.80	7.69	7.42	7.14	
	3.9	3	8.59	8.28	7.98	7.53	7.08	
	7.0	6	9.38	8.77	8.16	7.59	7.02	
	10.1	9	9.32	8.73	8.13	7.54	6.96	
	13.2	12	9.26	8.67	8.08	7.49	6.90	
	16.9	15.5	9.19	8.60	8.01	7.42	6.82	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	4.76	6.96	5.38	7.53	5.51	8.01	5.57	8.97	6.01	9.31	5.86
	12			5.82	4.76	6.96	5.38	7.53	5.51	8.00	5.57	8.94	6.00	9.27	5.84
	14			5.82	4.76	6.96	5.38	7.53	5.51	7.99	5.57	8.90	5.98	9.23	5.83
	16			5.82	4.76	6.96	5.38	7.53	5.51	7.97	5.56	8.87	5.97	9.19	5.81
	18			5.82	4.76	6.96	5.38	7.53	5.51	7.96	5.55	8.84	5.96	9.15	5.80
	20			5.82	4.76	6.96	5.38	7.53	5.51	7.95	5.55	8.81	5.95	9.11	5.79
	22			5.81	4.76	6.95	5.38	7.53	5.51	7.92	5.54	8.70	5.91	8.99	5.75
	24			5.80	4.75	6.95	5.38	7.53	5.51	7.88	5.52	8.58	5.87	8.86	5.70
18 (m/min)	26			5.80	4.75	6.92	5.37	7.46	5.48	7.79	5.49	8.45	5.82	8.73	5.66
	28	5.25	4.69	5.79	4.75	6.89	5.35	7.38	5.45	7.69	5.45	8.31	5.77	8.59	5.62
	30	5.25	4.69	5.77	4.75	6.83	5.33	7.31	5.42	7.60	5.41	8.19	5.72	8.46	5.57
	32	5.25	4.69	5.78	4.74	6.78	5.31	7.24	5.38	7.51	5.38	8.06	5.68	8.33	5.53
	34	5.25	4.69	5.75	4.73	6.76	5.30	7.15	5.34	7.39	5.32	7.89	5.62	8.16	5.47
	35	5.25	4.69	5.74	4.73	6.75	5.30	7.10	5.33	7.33	5.30	7.80	5.59	8.08	5.44
	36	5.25	4.69	5.73	4.72	6.69	5.27	7.06	5.31	7.26	5.27	7.66	5.52	7.92	5.39
	38	5.25	4.69	5.72	4.72	6.59	5.23	6.99	5.28	7.12	5.22	7.38	5.43	7.61	5.29
	39	5.25	4.69	5.71	4.71	6.54	5.21	6.96	5.27	7.05	5.19	7.24	5.38	7.45	5.24
	41	5.25	4.69	5.69	4.71	6.35	5.12	6.67	5.15	6.76	5.08	6.92	5.26	7.10	5.11
43	5.25	4.69	5.67	4.70	6.15	5.04	6.39	5.04	6.46	4.94	6.60	5.15	6.75	5.01	

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64
	-17.8	-18	4.94	4.94	4.94	4.94	4.94
	-15.7	-16	5.24	5.24	5.24	5.24	5.24
	-13.7	-14	5.54	5.54	5.54	5.54	5.54
	-11.7	-12	5.83	5.83	5.83	5.83	5.83
	-9.6	-10	6.13	6.13	6.13	6.13	6.13
	-7.5	-8	6.51	6.51	6.51	6.51	6.51
	-5.5	-6	6.88	6.88	6.88	6.88	6.88
18 (m/min)	-3.4	-4	7.12	7.11	7.10	7.03	6.96
	-1.3	-2	7.36	7.34	7.32	7.18	7.04
	0.8	0	7.76	7.65	7.54	7.27	7.00
	3.9	3	8.42	8.12	7.82	7.38	6.94
	7.0	6	9.20	8.60	8.00	7.44	6.88
	10.1	9	9.14	8.56	7.97	7.40	6.82
	13.2	12	9.08	8.50	7.92	7.34	6.76
	16.9	15.5	9.01	8.43	7.85	7.27	6.69

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			5.11	4.06	6.10	4.60	6.60	4.71	7.03	4.78	7.87	5.15	8.17	5.02
	12			5.11	4.06	6.10	4.60	6.60	4.71	7.02	4.77	7.84	5.14	8.14	5.01
	14			5.11	4.06	6.10	4.60	6.60	4.71	7.01	4.77	7.81	5.13	8.10	4.99
	16			5.11	4.06	6.10	4.60	6.60	4.71	7.00	4.77	7.78	5.12	8.07	4.98
	18			5.11	4.06	6.10	4.60	6.60	4.71	6.99	4.76	7.76	5.11	8.03	4.96
	20			5.11	4.06	6.10	4.60	6.60	4.71	6.98	4.76	7.73	5.10	8.00	4.95
	22			5.10	4.06	6.10	4.60	6.60	4.71	6.95	4.75	7.63	5.05	7.89	4.91
	24			5.09	4.06	6.10	4.60	6.60	4.71	6.91	4.72	7.53	5.02	7.78	4.88
15 (m/min)	26			5.09	4.06	6.07	4.58	6.54	4.68	6.83	4.69	7.41	4.97	7.66	4.84
	28	4.61	4.00	5.08	4.05	6.04	4.57	6.48	4.66	6.75	4.66	7.29	4.93	7.54	4.79
	30	4.61	4.00	5.07	4.05	6.00	4.55	6.42	4.63	6.67	4.63	7.18	4.88	7.43	4.75
	32	4.61	4.00	5.06	4.04	5.95	4.53	6.35	4.60	6.59	4.60	7.07	4.84	7.31	4.71
	34	4.61	4.00	5.04	4.03	5.93	4.52	6.27	4.57	6.49	4.55	6.92	4.79	7.16	4.64
	35	4.61	4.00	5.03	4.03	5.92	4.52	6.23	4.55	6.44	4.53	6.85	4.76	7.09	4.61
	36	4.61	4.00	5.03	4.03	5.87	4.50	6.20	4.54	6.37	4.50	6.73	4.69	6.95	4.57
	38	4.61	4.00	5.02	4.02	5.78	4.46	6.14	4.51	6.25	4.46	6.48	4.61	6.67	4.48
	39	4.61	4.00	5.01	4.02	5.74	4.44	6.11	4.50	6.19	4.43	6.36	4.56	6.54	4.44
	41	4.61	4.00	4.99	4.01	5.57	4.37	5.86	4.39	5.93	4.33	6.07	4.46	6.23	4.34
43	4.61	4.00	4.97	4.00	5.40	4.30	5.61	4.30	5.67	4.23	5.79	4.37	5.92	4.24	

(e) Ceiling cassette-1 way compact type (FDTQ)

Model FDTQ22KXE6

Cool Mode

Heat Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			1.91	1.61	2.28	1.81	2.47	1.86	2.63	1.88	2.94	2.03	3.06	1.98
	12			1.91	1.61	2.28	1.81	2.47	1.86	2.62	1.87	2.93	2.03	3.04	1.97
	14			1.91	1.61	2.28	1.81	2.47	1.86	2.62	1.87	2.92	2.02	3.03	1.97
	16			1.91	1.61	2.28	1.81	2.47	1.86	2.62	1.87	2.91	2.02	3.02	1.97
	18			1.91	1.61	2.28	1.81	2.47	1.86	2.61	1.87	2.90	2.01	3.00	1.96
	20			1.91	1.61	2.28	1.81	2.47	1.86	2.61	1.87	2.89	2.01	2.99	1.96
	22			1.91	1.61	2.28	1.81	2.47	1.86	2.60	1.87	2.85	1.99	2.95	1.94
	24			1.90	1.60	2.28	1.81	2.47	1.86	2.59	1.86	2.82	1.98	2.91	1.93
7.8 (m³/min)	26			1.90	1.60	2.27	1.81	2.45	1.85	2.56	1.85	2.77	1.97	2.86	1.91
	28	1.72	1.58	1.90	1.60	2.26	1.81	2.42	1.84	2.52	1.83	2.73	1.95	2.82	1.90
	30	1.72	1.58	1.90	1.60	2.24	1.80	2.40	1.82	2.50	1.83	2.69	1.93	2.78	1.88
	32	1.72	1.58	1.89	1.60	2.23	1.79	2.38	1.82	2.47	1.82	2.65	1.92	2.73	1.86
	34	1.72	1.58	1.89	1.60	2.22	1.79	2.35	1.81	2.43	1.80	2.59	1.89	2.68	1.84
	35	1.72	1.58	1.88	1.59	2.21	1.78	2.33	1.79	2.41	1.79	2.56	1.88	2.65	1.84
	36	1.72	1.58	1.88	1.59	2.20	1.78	2.32	1.79	2.38	1.78	2.52	1.87	2.60	1.82
	38	1.72	1.58	1.88	1.59	2.16	1.76	2.30	1.79	2.34	1.76	2.42	1.84	2.50	1.79
	39	1.72	1.58	1.87	1.59	2.15	1.75	2.28	1.78	2.31	1.75	2.38	1.82	2.44	1.77
	41	1.72	1.58	1.87	1.59	2.08	1.73	2.19	1.73	2.22	1.71	2.27	1.79	2.33	1.74
43	1.72	1.58	1.86	1.58	2.02	1.71	2.10	1.70	2.12	1.68	2.17	1.75	2.22	1.71	

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi	-19.8	-20	1.54	1.54	1.54	1.54	1.54
	-17.8	-18	1.64	1.64	1.64	1.64	1.64
	-15.7	-16	1.73	1.73	1.73	1.73	1.73
	-13.7	-14	1.83	1.83	1.83	1.83	1.83
	-11.7	-12	1.93	1.93	1.93	1.93	1.93
	-9.6	-10	2.03	2.03	2.03	2.03	2.03
	-7.5	-8	2.16	2.16	2.16	2.16	2.16
	-5.5	-6	2.28	2.28	2.28	2.28	2.28
	-3.4	-4	2.36	2.36	2.35	2.33	2.31
	-1.3	-2	2.44	2.43	2.42	2.38	2.33
7.8 (m³/min)	0.8	0	2.57	2.53	2.50	2.41	2.32
	3.9	3	2.79	2.69	2.59	2.44	2.30
	7.0	6	3.05	2.85	2.65	2.46	2.28
	10.1	9	3.03	2.83	2.64	2.45	2.26
	13.2	12	3.01	2.82	2.62	2.43	2.24
	16.9	15.5	2.98	2.79	2.60	2.41	2.22

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			1.80	1.50	2.16	1.70	2.33	1.73	2.48	1.75	2.78	1.90	2.89	1.85
	12			1.80	1.50	2.16	1.70	2.33	1.73	2.48	1.75	2.77	1.89	2.87	1.84
	14			1.80	1.50	2.16	1.70	2.33	1.73	2.47	1.75	2.76	1.89	2.86	1.84
	16			1.80	1.50	2.16	1.70	2.33	1.73	2.47	1.75	2.75	1.88	2.85	1.84
	18			1.80	1.50	2.16	1.70	2.33	1.73	2.47	1.75	2.74	1.88	2.84	1.83
	20			1.80	1.50	2.16	1.70	2.33	1.73	2.46	1.75	2.73	1.88	2.82	1.82
	22			1.80	1.50	2.15	1.69	2.33	1.73	2.45	1.74	2.69	1.86	2.78	1.81
	24			1.80	1.50	2.15	1.69	2.33	1.73	2.44	1.74	2.66	1.85	2.75	1.80
	26			1.80	1.50	2.14	1.69	2.31	1.71	2.41	1.73	2.62	1.84	2.70	1.77
	28	1.63	1.48	1.80	1.50	2.13	1.68	2.29	1.71	2.38	1.70	2.58	1.82	2.66	1.76
7 (m³/min)	30	1.63	1.48	1.79	1.49	2.12	1.68	2.27	1.70	2.36	1.70	2.54	1.80	2.62	1.75
	32	1.63	1.48	1.79	1.49	2.10	1.67	2.24	1.69	2.33	1.69	2.50	1.78	2.58	1.74
	34	1.63	1.48	1.78	1.49	2.09	1.67	2.21	1.68	2.29	1.67	2.44	1.77	2.53	1.72
	35	1.63	1.48	1.78	1.49	2.09	1.67	2.20	1.67	2.27	1.67	2.42	1.76	2.50	1.72
	36	1.63	1.48	1.78	1.49	2.07	1.66	2.19	1.67	2.25	1.66	2.37	1.74	2.45	1.70
	38	1.63	1.48	1.77	1.48	2.04	1.64	2.17	1.67	2.21	1.64	2.29	1.71	2.36	1.67
	39	1.63	1.48	1.77	1.48	2.03	1.64	2.16	1.66	2.19	1.64	2.24	1.70	2.31	1.65
	41	1.63	1.48	1.76	1.48	1.97	1.62	2.07	1.62	2.09	1.60	2.14	1.66	2.20	1.62
	43	1.63	1.48	1.76	1.48	1.91	1.59	1.98	1.59	2.00	1.56	2.05	1.63	2.09	1.58

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	1.45	1.45	1.45	1.45	1.45	
	-17.8	-18	1.54	1.54	1.54	1.54	1.54	
	-15.7	-16	1.64	1.64	1.64	1.64	1.64	
	-13.7	-14	1.73	1.73	1.73	1.73	1.73	
	-11.7	-12	1.82	1.82	1.82	1.82	1.82	
	-9.6	-10	1.92	1.92	1.92	1.92	1.92	
	-7.5	-8	2.03	2.03	2.03	2.03	2.03	
	-5.5	-6	2.15	2.15	2.15	2.15	2.15	
	-3.4	-4	2.23	2.22	2.22	2.20	2.18	
	-1.3	-2	2.30	2.29	2.29	2.24	2.20	
7 (m³/min)	0.8	0	2.43	2.39	2.36	2.27	2.19	
	3.9	3	2.63	2.54	2.44	2.31	2.17	
	7.0	6	2.88	2.69	2.50	2.33	2.15	
	10.1	9	2.86	2.67	2.49	2.31	2.13	
	13.2	12	2.84	2.66	2.48	2.29	2.11	
	16.9	15.5	2.82	2.63	2.45	2.27	2.09	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			1.80	1.50	2.16	1.70	2.33	1.73	2.48	1.75	2.78	1.90	2.89	1.85
	12			1.80	1.50	2.16	1.70	2.33	1.73	2.48	1.75	2.77	1.89	2.87	1.84
	14			1.80	1.50	2.16	1.70	2.33	1.73	2.47	1.75	2.76	1.89	2.86	1.84
	16			1.80	1.50	2.16	1.70	2.33	1.73	2.47	1.75	2.75	1.88	2.85	1.84
	18			1.80	1.50	2.16	1.70	2.33	1.73	2.47	1.75	2.74	1.88	2.84	1.83
	20			1.80	1.50	2.16	1.70	2.33	1.73	2.46	1.75	2.73	1.88	2.82	1.82
	22			1.80	1.50	2.15	1.69	2.33	1.73	2.45	1.74	2.69	1.86	2.78	1.81
	24			1.80	1.50	2.15	1.69	2.33	1.73	2.44	1.74	2.66	1.85	2.75	1.80
	26			1.80	1.50	2.14	1.69	2.31	1.71	2.41	1.73	2.62	1.84	2.70	1.77
	28	1.63	1.48	1.80	1.50	2.13	1.68	2.29	1.71	2.38	1.70	2.58	1.82	2.66	1.76
7.00 (m³/min)	30	1.63	1.48	1.79	1.49	2.12	1.68	2.27	1.70	2.36	1.70	2.54	1.80	2.62	1.75
	32	1.63	1.48	1.79	1.49	2.10	1.67	2.24	1.69	2.33	1.69	2.50	1.78	2.58	1.74
	34	1.63	1.48	1.78	1.49	2.09	1.67	2.21	1.68	2.29	1.67	2.44	1.77	2.53	1.72
	35	1.63	1.48	1.78	1.49	2.09	1.67	2.20	1.67	2.27	1.67	2.42	1.76	2.50	1.72
	36	1.63	1.48	1.78	1.49	2.07	1.66	2.19	1.67	2.25	1.66	2.37	1.74	2.45	1.70
	38	1.63	1.48	1.77	1.48	2.04	1.64	2.17	1.67	2.21	1.64	2.29	1.71	2.36	1.67
	39	1.63	1.48	1.77	1.48	2.03	1.64	2.16	1.66	2.19	1.64	2.24	1.70	2.31	1.65
	41	1.63	1.48	1.76	1.48	1.97	1.62	2.07	1.62	2.09	1.60	2.14	1.66	2.20	1.62
	43	1.63	1.48	1.76	1.48	1.91	1.59	1.98	1.59	2.00	1.56	2.05	1.63	2.09	1.58

Model **FDTQ28KXE6**

Cool Mode

Heat Mode

Model	Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
			21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			2.45	1.95	2.93	2.21	3.17	2.26	3.37	2.29	3.78	2.48	3.92	2.40	
	12			2.45	1.95	2.93	2.21	3.17	2.26	3.37	2.29	3.76	2.47	3.90	2.40	
	14			2.45	1.95	2.93	2.21	3.17	2.26	3.36	2.28	3.75	2.47	3.89	2.39	
	16			2.45	1.95	2.93	2.21	3.17	2.26	3.36	2.28	3.74	2.46	3.87	2.39	
	18			2.45	1.95	2.93	2.21	3.17	2.26	3.35	2.28	3.72	2.45	3.85	2.38	
	20			2.45	1.95	2.93	2.21	3.17	2.26	3.35	2.28	3.71	2.44	3.84	2.38	
	22			2.45	1.95	2.93	2.21	3.17	2.26	3.33	2.27	3.66	2.43	3.78	2.36	
	24			2.44	1.95	2.93	2.21	3.17	2.26	3.32	2.27	3.62	2.41	3.73	2.34	
	26			2.44	1.95	2.91	2.20	3.14	2.25	3.28	2.25	3.56	2.39	3.68	2.32	
	28	2.21	1.93	2.44	1.95	2.90	2.20	3.11	2.24	3.24	2.24	3.50	2.37	3.62	2.31	
7.8 (m/min)	30	2.21	1.93	2.43	1.95	2.88	2.19	3.08	2.23	3.20	2.22	3.45	2.35	3.56	2.28	
	32	2.21	1.93	2.43	1.95	2.86	2.18	3.05	2.21	3.16	2.21	3.39	2.33	3.51	2.27	
	34	2.21	1.93	2.42	1.94	2.85	2.18	3.01	2.20	3.11	2.19	3.32	2.30	3.44	2.24	
	35	2.21	1.93	2.42	1.94	2.84	2.17	2.99	2.18	3.09	2.18	3.29	2.29	3.40	2.23	
	36	2.21	1.93	2.41	1.94	2.82	2.16	2.98	2.18	3.06	2.17	3.23	2.27	3.33	2.20	
	38	2.21	1.93	2.41	1.94	2.78	2.15	2.95	2.17	3.00	2.14	3.11	2.22	3.20	2.16	
	39	2.21	1.93	2.40	1.93	2.75	2.13	2.93	2.16	2.97	2.13	3.05	2.20	3.14	2.14	
	41	2.21	1.93	2.40	1.93	2.67	2.10	2.81	2.11	2.85	2.08	2.92	2.15	2.99	2.09	
	43	2.21	1.93	2.39	1.93	2.59	2.06	2.69	2.07	2.72	2.03	2.78	2.10	2.84	2.03	

Air flow	Outdoor air temp,		Indoor air temp,				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi	-19.8	-20	2.01	2.01	2.01	2.01	2.01
	-17.8	-18	2.14	2.14	2.14	2.14	2.14
	-15.7	-16	2.27	2.27	2.27	2.27	2.27
	-13.7	-14	2.39	2.39	2.39	2.39	2.39
	-11.7	-12	2.52	2.52	2.52	2.52	2.52
	-9.6	-10	2.65	2.65	2.65	2.65	2.65
	-7.5	-8	2.81	2.81	2.81	2.81	2.81
	-5.5	-6	2.98	2.98	2.98	2.98	2.98
	-3.4	-4	3.08	3.08	3.07	3.04	3.01
	-1.3	-2	3.18	3.17	3.17	3.11	3.04
7.8 (m/min)	0.8	0	3.36	3.31	3.26	3.14	3.03
	3.9	3	3.64	3.51	3.38	3.19	3.00
	7.0	6	3.98	3.72	3.46	3.22	2.98
	10.1	9	3.95	3.70	3.45	3.20	2.95
	13.2	12	3.93	3.68	3.43	3.17	2.92
	16.9	15.5	3.90	3.65	3.40	3.14	2.89

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.30	1.81	2.74	2.04	2.97	2.10	3.16	2.13	3.54	2.29	3.67	2.23
	12			2.30	1.81	2.74	2.04	2.97	2.10	3.15	2.12	3.52	2.28	3.66	2.22
	14			2.30	1.81	2.74	2.04	2.97	2.10	3.15	2.12	3.51	2.28	3.64	2.22
	16			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.50	2.27	3.63	2.21
	18			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.49	2.27	3.61	2.21
	20			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.47	2.26	3.59	2.20
	22			2.29	1.80	2.74	2.04	2.97	2.10	3.12	2.11	3.43	2.25	3.54	2.18
	24			2.29	1.80	2.74	2.04	2.97	2.10	3.11	2.10	3.39	2.23	3.50	2.17
	26			2.29	1.80	2.73	2.04	2.94	2.08	3.07	2.09	3.33	2.21	3.44	2.15
	28	2.07	1.78	2.28	1.80	2.72	2.03	2.91	2.07	3.03	2.07	3.28	2.19	3.39	2.13
7 (m/min)	30	2.07	1.78	2.28	1.80	2.70	2.02	2.88	2.05	3.00	2.06	3.23	2.17	3.34	2.11
	32	2.07	1.78	2.27	1.80	2.67	2.01	2.86	2.05	2.96	2.04	3.18	2.15	3.29	2.09
	34	2.07	1.78	2.27	1.80	2.66	2.01	2.82	2.03	2.92	2.02	3.11	2.13	3.22	2.07
	35	2.07	1.78	2.26	1.79	2.66	2.01	2.80	2.02	2.89	2.01	3.08	2.11	3.18	2.06
	36	2.07	1.78	2.26	1.79	2.64	2.00	2.79	2.02	2.86	2.00	3.02	2.09	3.12	2.03
	38	2.07	1.78	2.25	1.78	2.60	1.98	2.76	2.01	2.81	1.98	2.91	2.05	3.00	1.99
	39	2.07	1.78	2.25	1.78	2.58	1.97	2.74	2.00	2.78	1.97	2.86	2.03	2.94	1.97
	41	2.07	1.78	2.24	1.78	2.50	1.94	2.63	1.95	2.66	1.92	2.73	1.98	2.80	1.92
	43	2.07	1.78	2.24	1.78	2.43	1.91	2.52	1.91	2.55	1.88	2.60	1.93	2.66	1.87

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	1.86	1.86	1.86	1.86	1.86
	-17.8	-18	1.98	1.98	1.98	1.98	1.98
	-15.7	-16	2.09	2.09	2.09	2.09	2.09
	-13.7	-14	2.21	2.21	2.21	2.21	2.21
	-11.7	-12	2.33	2.33	2.33	2.33	2.33
	-9.6	-10	2.45	2.45	2.45	2.45	2.45
	-7.5	-8	2.60	2.60	2.60	2.60	2.60
	-5.5	-6	2.75	2.75	2.75	2.75	2.75
	-3.4	-4	2.85	2.84	2.84	2.81	2.78
	-1.3	-2	2.94	2.94	2.93	2.87	2.82
7 (m/min)	0.8	0	3.10	3.06	3.02	2.91	2.80
	3.9	3	3.37	3.25	3.13	2.95	2.78
	7.0	6	3.68	3.44	3.20	2.98	2.75
	10.1	9	3.66	3.42	3.19	2.96	2.73
	13.2	12	3.63	3.40	3.17	2.94	2.70
	16.9	15.5	3.60	3.37	3.14	2.91	2.68

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.30	1.81	2.74	2.04	2.97	2.10	3.16	2.13	3.54	2.29	3.67	2.23
	12			2.30	1.81	2.74	2.04	2.97	2.10	3.15	2.12	3.52	2.28	3.66	2.22
	14			2.30	1.81	2.74	2.04	2.97	2.10	3.15	2.12	3.51	2.28	3.64	2.22
	16			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.50	2.27	3.63	2.21
	18			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.49	2.27	3.61	2.21
	20			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.47	2.26	3.59	2.20
	22			2.29	1.80	2.74	2.04	2.97	2.10	3.12	2.11	3.43	2.25	3.54	2.18
	24			2.29	1.80	2.74	2.04	2.97	2.10	3.11	2.10	3.39	2.23	3.50	2.17
	26			2.29	1.80	2.73	2.04	2.94	2.08	3.07	2.09	3.33	2.21	3.44	2.15
	28	2.07	1.78	2.28	1.80	2.72	2.03	2.91	2.07	3.03	2.07	3.28	2.19	3.39	2.13
7.00 (m/min)	30	2.07	1.78	2.28	1.80	2.70	2.02	2.88	2.05	3.00	2.06	3.23	2.17	3.34	2.11
	32	2.07	1.78	2.27	1.80	2.67	2.01	2.86	2.05	2.96	2.04	3.18	2.15	3.29	2.09
	34	2.07	1.78	2.27	1.80	2.66	2.01	2.82	2.03	2.92	2.02	3.11	2.13	3.22	2.07
	35	2.07	1.78	2.26	1.79	2.66	2.01	2.80	2.02	2.89	2.01	3.08	2.11	3.18	2.06
	36	2.07	1.78	2.26	1.79	2.64	2.00	2.79	2.02	2.86	2.00	3.02	2.09	3.12	2.03
	38	2.07	1.78	2.25	1.78	2.60	1.98	2.76	2.01	2.81	1.98	2.91	2.05	3.00	1.99
	39	2.07	1.78	2.25	1.78	2.58	1.97	2.74	2.00	2.78	1.97	2.86	2.03	2.94	1.97
	41	2.07	1.78	2.24	1.78	2.50	1.94	2.63	1.95	2.66	1.92	2.73	1.98	2.80	1.92
43	2.07	1.78	2.24	1.78	2.43	1.91	2.52	1.91	2.55	1.88	2.60	1.93	2.66	1.87	

Model **FDTQ36KXE6** Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 "CDB 14 "CWB		23 "CDB 16 "CWB		26 "CDB 18 "CWB		27 "CDB 19 "CWB		28 "CDB 20 "CWB		31 "CDB 22 "CWB		33 "CDB 24 "CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.21	2.35	3.84	2.66	4.16	2.75	4.42	2.79	4.95	3.01	5.14	2.92
	12			3.21	2.35	3.84	2.66	4.16	2.75	4.41	2.78	4.93	3.00	5.12	2.90
	14			3.21	2.35	3.84	2.66	4.16	2.75	4.41	2.78	4.92	2.99	5.10	2.90
	16			3.21	2.35	3.84	2.66	4.16	2.75	4.40	2.78	4.90	2.99	5.08	2.89
	18			3.21	2.35	3.84	2.66	4.16	2.75	4.40	2.78	4.88	2.97	5.05	2.88
	20			3.21	2.35	3.84	2.66	4.16	2.75	4.39	2.78	4.86	2.97	5.03	2.87
	22			3.21	2.35	3.84	2.66	4.16	2.75	4.37	2.77	4.80	2.94	4.96	2.85
	24			3.20	2.34	3.84	2.66	4.16	2.75	4.35	2.76	4.74	2.91	4.89	2.82
	26			3.20	2.34	3.82	2.66	4.12	2.73	4.30	2.74	4.66	2.88	4.82	2.79
	28	2.90	2.30	3.20	2.34	3.80	2.65	4.08	2.71	4.25	2.71	4.59	2.85	4.74	2.76
7.8 (m/min)	30	2.90	2.30	3.19	2.33	3.77	2.63	4.04	2.69	4.20	2.69	4.52	2.82	4.67	2.73
	32	2.90	2.30	3.18	2.33	3.74	2.62	4.00	2.67	4.15	2.67	4.45	2.79	4.60	2.71
	34	2.90	2.30	3.17	2.33	3.73	2.61	3.95	2.65	4.08	2.64	4.36	2.76	4.51	2.67
	35	2.90	2.30	3.17	2.33	3.72	2.61	3.92	2.63	4.05	2.63	4.31	2.73	4.46	2.65
	36	2.90	2.30	3.16	2.32	3.70	2.60	3.90	2.63	4.01	2.61	4.23	2.70	4.37	2.62
	38	2.90	2.30	3.16	2.32	3.64	2.57	3.86	2.61	3.93	2.57	4.08	2.64	4.20	2.56
	39	2.90	2.30	3.15	2.32	3.61	2.55	3.84	2.60	3.89	2.55	4.00	2.61	4.11	2.51
	41	2.90	2.30	3.14	2.31	3.50	2.51	3.68	2.52	3.73	2.48	3.82	2.53	3.92	2.45
	43	2.90	2.30	3.13	2.31	3.40	2.46	3.53	2.46	3.57	2.42	3.64	2.47	3.73	2.39

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.53	2.53	2.53	2.53	2.53	
	-17.8	-18	2.70	2.70	2.70	2.70	2.70	
	-15.7	-16	2.86	2.86	2.86	2.86	2.86	
	-13.7	-14	3.02	3.02	3.02	3.02	3.02	
	-11.7	-12	3.19	3.19	3.19	3.19	3.19	
	-9.6	-10	3.35	3.35	3.35	3.35	3.35	
	-7.5	-8	3.55	3.55	3.55	3.55	3.55	
	-5.5	-6	3.76	3.76	3.76	3.76	3.76	
	-3.4	-4	3.89	3.88	3.88	3.84	3.80	
	-1.3	-2	4.02	4.01	4.00	3.92	3.85	
7.8 (m/min)	0.8	0	4.24	4.18	4.12	3.97	3.82	
	3.9	3	4.60	4.44	4.27	4.03	3.79	
	7.0	6	5.03	4.70	4.37	4.06	3.76	
	10.1	9	4.99	4.67	4.35	4.04	3.73	
	13.2	12	4.96	4.64	4.33	4.01	3.69	
	16.9	15.5	4.92	4.60	4.29	3.97	3.65	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.95	2.15	3.53	2.45	3.82	2.52	4.06	2.56	4.55	2.76	4.72	2.68
	12			2.95	2.15	3.53	2.45	3.82	2.52	4.05	2.56	4.53	2.75	4.70	2.67
	14			2.95	2.15	3.53	2.45	3.82	2.52	4.05	2.56	4.51	2.74	4.68	2.66
	16			2.95	2.15	3.53	2.45	3.82	2.52	4.04	2.55	4.50	2.74	4.66	2.66
	18			2.95	2.15	3.53	2.45	3.82	2.52	4.04	2.55	4.48	2.73	4.64	2.65
	20			2.95	2.15	3.53	2.45	3.82	2.52	4.03	2.55	4.47	2.73	4.62	2.64
	22			2.95	2.15	3.53	2.45	3.82	2.52	4.01	2.54	4.41	2.70	4.56	2.62
	24			2.94	2.15	3.52	2.44	3.82	2.52	3.99	2.53	4.35	2.68	4.49	2.59
	26			2.94	2.15	3.51	2.44	3.78	2.50	3.95	2.51	4.28	2.64	4.43	2.56
	28	2.66	2.11	2.94	2.15	3.49	2.43	3.74	2.48	3.90	2.49	4.22	2.62	4.36	2.53
7 (m/min)	30	2.66	2.11	2.93	2.15	3.47	2.42	3.71	2.47	3.86	2.47	4.15	2.58	4.29	2.50
	32	2.66	2.11	2.92	2.14	3.44	2.41	3.67	2.45	3.81	2.45	4.09	2.56	4.23	2.48
	34	2.66	2.11	2.91	2.14	3.43	2.40	3.62	2.43	3.75	2.42	4.00	2.52	4.14	2.45
	35	2.66	2.11	2.91	2.14	3.42	2.40	3.60	2.41	3.72	2.41	3.96	2.51	4.09	2.43
	36	2.66	2.11	2.91	2.14	3.39	2.38	3.58	2.41	3.68	2.39	3.89	2.48	4.02	2.41
	38	2.66	2.11	2.90	2.13	3.34	2.36	3.55	2.40	3.61	2.36	3.74	2.42	3.86	2.35
	39	2.66	2.11	2.89	2.12	3.32	2.35	3.53	2.39	3.58	2.35	3.67	2.39	3.78	2.32
	41	2.66	2.11	2.88	2.12	3.22	2.30	3.38	2.32	3.43	2.28	3.51	2.33	3.60	2.25
	43	2.66	2.11	2.87	2.11	3.12	2.26	3.24	2.26	3.28	2.22	3.35	2.27	3.42	2.19

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	2.32	2.32	2.32	2.32	2.32
	-17.8	-18	2.47	2.47	2.47	2.47	2.47
	-15.7	-16	2.62	2.62	2.62	2.62	2.62
	-13.7	-14	2.77	2.77	2.77	2.77	2.77
	-11.7	-12	2.92	2.92	2.92	2.92	2.92
	-9.6	-10	3.07	3.07	3.07	3.07	3.07
	-7.5	-8	3.25	3.25	3.25	3.25	3.25
	-5.5	-6	3.44	3.44	3.44	3.44	3.44
	-3.4	-4	3.56	3.56	3.55	3.52	3.48
	-1.3	-2	3.68	3.67	3.66	3.59	3.52
7 (m/min)	0.8	0	3.88	3.83	3.77	3.64	3.50
	3.9	3	4.21	4.06	3.91	3.69	3.47
	7.0	6	4.60	4.30	4.00	3.72	3.44
	10.1	9	4.57	4.28	3.99	3.70	3.41
	13.2	12	4.54	4.25	3.96	3.67	3.38
	16.9	15.5	4.51	4.22	3.93	3.64	3.35

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.95	2.15	3.53	2.45	3.82	2.52	4.06	2.56	4.55	2.76	4.72	2.68
	12			2.95	2.15	3.53	2.45	3.82	2.52	4.05	2.56	4.53	2.75	4.70	2.67
	14			2.95	2.15	3.53	2.45	3.82	2.52	4.05	2.56	4.51	2.74	4.68	2.66
	16			2.95	2.15	3.53	2.45	3.82	2.52	4.04	2.55	4.50	2.74	4.66	2.66
	18			2.95	2.15	3.53	2.45	3.82	2.52	4.04	2.55	4.48	2.73	4.64	2.65
	20			2.95	2.15	3.53	2.45	3.82	2.52	4.03	2.55	4.47	2.73	4.62	2.64
	22			2.95	2.15	3.53	2.45	3.82	2.52	4.01	2.54	4.41	2.70	4.56	2.62
	24			2.94	2.15	3.52	2.44	3.82	2.52	3.99	2.53	4.35	2.68	4.49	2.59
7.00 (m/min)	26			2.94	2.15	3.51	2.44	3.78	2.50	3.95	2.51	4.28	2.64	4.43	2.56
	28	2.66	2.11	2.94	2.15	3.49	2.43	3.74	2.48	3.90	2.49	4.22	2.62	4.36	2.53
	30	2.66	2.11	2.93	2.15	3.47	2.42	3.71	2.47	3.86	2.47	4.15	2.58	4.29	2.50
	32	2.66	2.11	2.92	2.14	3.44	2.41	3.67	2.45	3.81	2.45	4.09	2.56	4.23	2.48
	34	2.66	2.11	2.91	2.14	3.43	2.40	3.62	2.43	3.75	2.42	4.00	2.52	4.14	2.45
	35	2.66	2.11	2.91	2.14	3.42	2.40	3.60	2.41	3.72	2.41	3.96	2.51	4.09	2.43
	36	2.66	2.11	2.91	2.14	3.39	2.38	3.58	2.41	3.68	2.39	3.89	2.48	4.02	2.41
	38	2.66	2.11	2.90	2.13	3.34	2.36	3.55	2.40	3.61	2.36	3.74	2.42	3.86	2.35
39	2.66	2.11	2.89	2.12	3.32	2.35	3.53	2.39	3.58	2.35	3.67	2.39	3.78	2.32	
41	2.66	2.11	2.88	2.12	3.22	2.30	3.38	2.32	3.43	2.28	3.51	2.33	3.60	2.25	
43	2.66	2.11	2.87	2.11	3.12	2.26	3.24	2.26	3.28	2.22	3.35	2.27	3.42	2.19	

(f) Duct connected-High static pressure type (FDU)

Model FDU71KXE6

Cool Mode

Heat Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 "CDB 14 "CWB		23 "CDB 16 "CWB		26 "CDB 18 "CWB		27 "CDB 19 "CWB		28 "CDB 20 "CWB		31 "CDB 22 "CWB		33 "CDB 24 "CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			6.42	6.16	7.67	7.24	8.30	7.36	8.83	7.42	9.89	8.01	10.27	7.84
	12			6.42	6.16	7.67	7.24	8.30	7.36	8.82	7.42	9.86	8.00	10.23	7.83
	14			6.42	6.16	7.67	7.24	8.30	7.36	8.81	7.41	9.82	7.99	10.18	7.81
	16			6.42	6.16	7.67	7.24	8.30	7.36	8.79	7.40	9.78	7.97	10.14	7.80
	18			6.42	6.16	7.67	7.24	8.30	7.36	8.78	7.40	9.75	7.96	10.09	7.79
	20			6.42	6.16	7.67	7.24	8.30	7.36	8.77	7.40	9.71	7.95	10.05	7.77
	22			6.41	6.15	7.67	7.24	8.30	7.36	8.73	7.38	9.59	7.91	9.91	7.73
	24			6.40	6.14	7.67	7.24	8.30	7.36	8.69	7.37	9.47	7.87	9.77	7.69
30 (m³/min)	26			6.39	6.13	7.63	7.22	8.22	7.31	8.59	7.33	9.32	7.82	9.62	7.65
	28	5.79	5.56	6.39	6.13	7.60	7.21	8.14	7.29	8.48	7.30	9.17	7.77	9.47	7.60
	30	5.79	5.56	6.37	6.12	7.54	7.19	8.06	7.26	8.39	7.25	9.03	7.73	9.33	7.56
	32	5.79	5.56	6.36	6.11	7.48	7.17	7.99	7.23	8.29	7.21	8.89	7.68	9.19	7.52
	34	5.79	5.56	6.34	6.09	7.45	7.15	7.88	7.19	8.16	7.17	8.70	7.62	9.00	7.47
	35	5.79	5.56	6.33	6.08	7.44	7.14	7.83	7.20	8.09	7.14	8.61	7.59	8.91	7.44
	36	5.79	5.56	6.32	6.07	7.38	7.08	7.79	7.16	8.01	7.12	8.45	7.54	8.73	7.38
	38	5.79	5.56	6.30	6.05	7.27	6.98	7.71	7.13	7.86	7.06	8.14	7.44	8.39	7.29
	39	5.79	5.56	6.30	6.05	7.21	6.92	7.67	7.12	7.78	7.04	7.99	7.40	8.21	7.23
	41	5.79	5.56	6.27	6.02	7.00	6.72	7.36	7.00	7.45	6.92	7.63	7.28	7.83	7.13
43	5.79	5.56	6.25	6.00	6.78	6.51	7.05	6.77	7.12	6.79	7.28	6.99	7.44	7.01	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	5.26	5.26	5.26	5.26	5.26	5.26
	-17.8	-18	5.60	5.60	5.60	5.60	5.60	5.60
	-15.7	-16	5.94	5.94	5.94	5.94	5.94	5.94
	-13.7	-14	6.28	6.28	6.28	6.28	6.28	6.28
	-11.7	-12	6.62	6.62	6.62	6.62	6.62	6.62
	-9.6	-10	6.95	6.95	6.95	6.95	6.95	6.95
	-7.5	-8	7.38	7.38	7.38	7.38	7.38	7.38
	-5.5	-6	7.80	7.80	7.80	7.80	7.80	7.80
	-3.4	-4	8.07	8.06	8.05	7.97	7.89	
	-1.3	-2	8.34	8.32	8.30	8.14	7.98	
30 (m ³ /min)	0.8	0	8.80	8.67	8.55	8.24	7.94	
	3.9	3	9.55	9.21	8.87	8.37	7.87	
	7.0	6	10.43	9.75	9.07	8.44	7.80	
	10.1	9	10.36	9.70	9.04	8.38	7.73	
	13.2	12	10.29	9.64	8.98	8.32	7.66	
	16.9	15.5	10.22	9.56	8.90	8.24	7.58	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	5.56	6.96	6.29	7.53	6.40	8.01	6.46	8.97	6.98	9.31	6.83
	12			5.82	5.56	6.96	6.29	7.53	6.40	8.00	6.46	8.94	6.97	9.27	6.82
	14			5.82	5.56	6.96	6.29	7.53	6.40	7.99	6.45	8.90	6.96	9.23	6.80
	16			5.82	5.56	6.96	6.29	7.53	6.40	7.97	6.44	8.87	6.95	9.19	6.79
	18			5.82	5.56	6.96	6.29	7.53	6.40	7.96	6.44	8.84	6.94	9.15	6.78
	20			5.82	5.56	6.96	6.29	7.53	6.40	7.95	6.44	8.81	6.93	9.11	6.77
	22			5.81	5.56	6.95	6.29	7.53	6.40	7.92	6.43	8.70	6.89	8.99	6.73
	24			5.80	5.55	6.95	6.29	7.53	6.40	7.88	6.41	8.58	6.85	8.86	6.69
25 (m³/min)	26			5.80	5.55	6.92	6.28	7.46	6.38	7.79	6.38	8.45	6.81	8.73	6.65
	28	5.25	5.04	5.79	5.55	6.89	6.26	7.38	6.34	7.69	6.35	8.31	6.76	8.59	6.61
	30	5.25	5.04	5.78	5.55	6.83	6.24	7.31	6.31	7.60	6.30	8.19	6.72	8.46	6.57
	32	5.25	5.04	5.77	5.54	6.78	6.22	7.24	6.28	7.51	6.27	8.06	6.68	8.33	6.53
	34	5.25	5.04	5.75	5.52	6.76	6.21	7.15	6.25	7.39	6.23	7.89	6.62	8.16	6.48
	35	5.25	5.04	5.74	5.51	6.75	6.21	7.10	6.25	7.33	6.20	7.80	6.59	8.08	6.46
	36	5.25	5.04	5.73	5.50	6.69	6.19	7.06	6.22	7.26	6.18	7.66	6.55	7.92	6.41
	38	5.25	5.04	5.72	5.49	6.59	6.15	6.99	6.19	7.12	6.13	7.38	6.46	7.61	6.32
	39	5.25	5.04	5.71	5.48	6.54	6.13	6.96	6.18	7.05	6.11	7.24	6.41	7.45	6.27
41	5.25	5.04	5.69	5.46	6.35	6.06	6.67	6.07	6.76	6.00	6.92	6.31	7.10	6.17	
43	5.25	5.04	5.67	5.44	6.15	5.90	6.39	5.97	6.46	5.89	6.60	6.19	6.75	6.05	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64	4.64
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	4.94
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	5.24
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	5.54
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	5.83
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	6.13
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	6.51
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	6.88
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
25 (m ³ /min)	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
	7.0	6	9.20	8.60	8.00	7.44	6.88	
	10.1	9	9.14	8.56	7.97	7.40	6.82	
	13.2	12	9.08	8.50	7.92	7.34	6.76	
	16.9	15.5	9.01	8.43	7.85	7.27	6.69	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			5.33	5.11	6.37	5.76	6.89	5.85	7.33	5.91	8.21	6.42	8.53	6.29
	12			5.33	5.11	6.37	5.76	6.89	5.85	7.32	5.90	8.18	6.41	8.49	6.27
	14			5.33	5.11	6.37	5.76	6.89	5.85	7.31	5.90	8.15	6.40	8.45	6.26
	16			5.33	5.11	6.37	5.76	6.89	5.85	7.30	5.89	8.12	6.39	8.42	6.25
	18			5.33	5.11	6.37	5.76	6.89	5.85	7.29	5.89	8.09	6.38	8.38	6.24
	20			5.33	5.11	6.37	5.76	6.89	5.85	7.28	5.89	8.06	6.37	8.34	6.23
	22			5.32	5.11	6.37	5.76	6.89	5.85	7.25	5.88	7.96	6.34	8.23	6.19
22.50 (m³/min)	24			5.31	5.10	6.36	5.76	6.89	5.85	7.21	5.86	7.86	6.30	8.11	6.16
	26			5.31	5.10	6.33	5.74	6.83	5.83	7.13	5.83	7.73	6.26	7.99	6.12
	28	4.81	4.62	5.30	5.09	6.31	5.74	6.76	5.80	7.04	5.80	7.61	6.22	7.86	6.08
	30	4.81	4.62	5.29	5.08	6.26	5.72	6.70	5.78	6.96	5.77	7.49	6.18	7.75	6.03
	32	4.81	4.62	5.28	5.07	6.21	5.70	6.63	5.75	6.88	5.74	7.38	6.13	7.63	6.00
	34	4.81	4.62	5.26	5.05	6.19	5.69	6.54	5.72	6.77	5.70	7.22	6.08	7.47	5.95
	35	4.81	4.62	5.25	5.04	6.18	5.69	6.50	5.66	6.71	5.68	7.14	6.05	7.39	5.92
	36	4.81	4.62	5.25	5.04	6.13	5.67	6.47	5.70	6.65	5.66	7.02	6.01	7.25	5.88
	38	4.81	4.62	5.23	5.02	6.04	5.63	6.40	5.67	6.52	5.61	6.76	5.93	6.96	5.79
	39	4.81	4.62	5.23	5.02	5.99	5.61	6.37	5.66	6.46	5.59	6.63	5.88	6.82	5.75
41	4.81	4.62	5.21	5.00	5.81	5.54	6.11	5.56	6.19	5.50	6.34	5.79	6.50	5.66	
43	4.81	4.62	5.21	4.98	5.63	5.40	5.85	5.47	5.91	5.40	6.04	5.69	6.18	5.56	

Model **FDU90KXE6**

Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Uhi	10			8.21	7.88	9.82	9.43	10.62	9.65	11.30	9.73	12.66	10.57	13.14	10.36		
	12			8.21	7.88	9.82	9.43	10.62	9.65	11.28	9.72	12.61	10.55	13.09	10.34		
	14			8.21	7.88	9.82	9.43	10.62	9.65	11.27	9.71	12.57	10.54	13.03	10.33		
	16			8.21	7.88	9.82	9.43	10.62	9.65	11.25	9.71	12.52	10.53	12.97	10.31		
	18			8.21	7.88	9.82	9.43	10.62	9.65	11.24	9.70	12.47	10.51	12.92	10.30		
	20			8.21	7.88	9.82	9.43	10.62	9.65	11.22	9.70	12.43	10.50	12.86	10.28		
	22			8.20	7.87	9.81	9.42	10.62	9.65	11.17	9.68	12.27	10.45	12.68	10.22		
	24			8.19	7.86	9.81	9.42	10.62	9.65	11.12	9.66	12.11	10.40	12.51	10.15		
	26			8.18	7.85	9.77	9.38	10.52	9.62	10.99	9.62	11.92	10.31	12.32	10.10		
	28	7.41	7.11	8.18	7.85	9.72	9.33	10.42	9.58	10.86	9.57	11.73	10.25	12.12	10.04		
41 (m³/min)	30	7.41	7.11	8.16	7.83	9.64	9.25	10.32	9.54	10.73	9.53	11.55	10.19	11.94	9.99		
	32	7.41	7.11	8.14	7.81	9.57	9.19	10.22	9.51	10.61	9.49	11.37	10.14	11.76	9.93		
	34	7.41	7.11	8.11	7.79	9.54	9.16	10.09	9.46	10.44	9.43	11.13	10.06	11.52	9.86		
	35	7.41	7.11	8.10	7.78	9.52	9.14	10.02	9.32	10.35	9.40	11.01	10.03	11.40	9.83		
	36	7.41	7.11	8.09	7.77	9.45	9.07	9.97	9.42	10.25	9.36	10.82	9.97	11.18	9.76		
	38	7.41	7.11	8.07	7.75	9.30	8.93	9.87	9.32	10.05	9.23	10.42	9.81	10.73	9.61		
	39	7.41	7.11	8.06	7.74	9.23	8.86	9.82	9.30	9.95	9.19	10.22	9.75	10.51	9.55		
	41	7.41	7.11	8.03	7.71	8.96	8.60	9.42	9.04	9.54	9.06	9.77	9.38	10.02	9.33		
	43	7.41	7.11	8.00	7.68	8.68	8.33	9.02	8.66	9.12	8.76	9.32	8.95	9.53	9.15		

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	6.59	6.59	6.59	6.59	6.59	
	-17.8	-18	7.01	7.01	7.01	7.01	7.01	
	-15.7	-16	7.44	7.44	7.44	7.44	7.44	
	-13.7	-14	7.86	7.86	7.86	7.86	7.86	
	-11.7	-12	8.29	8.29	8.29	8.29	8.29	
	-9.6	-10	8.71	8.71	8.71	8.71	8.71	
	-7.5	-8	9.24	9.24	9.24	9.24	9.24	
	-5.5	-6	9.77	9.77	9.77	9.77	9.77	
	-3.4	-4	10.11	10.10	10.08	9.98	9.88	
	-1.3	-2	10.45	10.42	10.39	10.20	10.00	
41 (m³/min)	0.8	0	11.02	10.86	10.71	10.32	9.94	
	3.9	3	11.96	11.53	11.10	10.48	9.85	
	7.0	6	13.06	12.21	11.36	10.56	9.77	
	10.1	9	12.98	12.15	11.32	10.50	9.68	
	13.2	12	12.89	12.07	11.25	10.42	9.60	
	16.9	15.5	12.79	11.97	11.15	10.32	9.50	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Hi	10			7.38	7.08	8.82	8.45	9.54	8.58	10.15	8.67	11.37	9.41	11.80	9.21		
	12			7.38	7.08	8.82	8.45	9.54	8.58	10.14	8.66	11.33	9.39	11.75	9.20		
	14			7.38	7.08	8.82	8.45	9.54	8.58	10.12	8.66	11.29	9.38	11.70	9.18		
	16			7.38	7.08	8.82	8.45	9.54	8.58	10.11	8.65	11.25	9.36	11.65	9.17		
	18			7.38	7.08	8.82	8.45	9.54	8.58	10.09	8.65	11.20	9.35	11.60	9.15		
	20			7.38	7.08	8.82	8.45	9.54	8.58	10.08	8.64	11.16	9.33	11.55	9.14		
	22			7.37	7.08	8.82	8.45	9.54	8.58	10.03	8.62	11.02	9.29	11.39	9.09		
	24			7.36	7.07	8.81	8.45	9.54	8.58	9.99	8.61	10.88	9.24	11.24	9.04		
	26			7.35	7.06	8.77	8.42	9.45	8.55	9.87	8.57	10.71	9.19	11.06	8.98		
	28	6.66	6.39	7.34	7.05	8.73	8.38	9.36	8.51	9.75	8.51	10.54	9.13	10.89	8.94		
34 (m³/min)	30	6.66	6.39	7.33	7.04	8.66	8.31	9.27	8.48	9.64	8.47	10.38	9.08	10.73	8.89		
	32	6.66	6.39	7.31	7.02	8.60	8.26	9.18	8.45	9.53	8.43	10.22	9.03	10.56	8.83		
	34	6.66	6.39	7.28	6.99	8.57	8.23	9.06	8.40	9.37	8.37	10.00	8.93	10.35	8.75		
	35	6.66	6.39	7.27	6.98	8.55	8.21	9.00	8.37	9.30	8.35	9.89	8.89	10.24	8.72		
	36	6.66	6.39	7.26	6.97	8.49	8.15	8.96	8.37	9.21	8.31	9.72	8.84	10.04	8.66		
	38	6.66	6.39	7.25	6.96	8.36	8.03	8.87	8.33	9.03	8.25	9.36	8.73	9.64	8.54		
	39	6.66	6.39	7.24	6.95	8.29	7.96	8.82	8.31	8.94	8.22	9.18	8.67	9.44	8.48		
	41	6.66	6.39	7.21	6.92	8.04	7.72	8.46	8.12	8.56	8.09	8.77	8.42	9.00	8.35		
	43	6.66	6.39	7.19	6.90	7.80	7.49	8.10	7.78	8.19	7.86	8.37	8.04	8.56	8.22		

Air flow	Outdoor air temp,		Indoor air temp,				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	5.80	5.80	5.80	5.80	5.80
	-17.8	-18	6.17	6.17	6.17	6.17	6.17
	-15.7	-16	6.55	6.55	6.55	6.55	6.55
	-13.7	-14	6.92	6.92	6.92	6.92	6.92
	-11.7	-12	7.29	7.29	7.29	7.29	7.29
	-9.6	-10	7.67	7.67	7.67	7.67	7.67
	-7.5	-8	8.13	8.13	8.13	8.13	8.13
	-5.5	-6	8.60	8.60	8.60	8.60	8.60
	-3.4	-4	8.90	8.89	8.88	8.79	8.70
	-1.3	-2	9.20	9.18	9.15	8.98	8.80
34 (m³/min)	0.8	0	9.70	9.56	9.43	9.09	8.75
	3.9	3	10.53	10.15	9.78	9.23	8.68
	7.0	6	11.50	10.75	10.00	9.30	8.60
	10.1	9	11.43	10.69	9.96	9.24	8.53
	13.2	12	11.35	10.63	9.90	9.18	8.45
	16.9	15.5	11.26	10.54	9.81	9.09	8.36

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			6.82	6.55	8.15	7.73	8.82	7.85	9.38	7.91	10.51	8.59	10.91	8.41
	12			6.82	6.55	8.15	7.73	8.82	7.85	9.37	7.91	10.47	8.57	10.87	8.40
	14			6.82	6.55	8.15	7.73	8.82	7.85	9.36	7.90	10.43	8.56	10.82	8.38
	16			6.82	6.55	8.15	7.73	8.82	7.85	9.34	7.90	10.40	8.55	10.77	8.36
	18			6.82	6.55	8.15	7.73	8.82	7.85	9.33	7.89	10.36	8.54	10.72	8.35
	20			6.82	6.55	8.15	7.73	8.82	7.85	9.32	7.89	10.32	8.52	10.68	8.34
	22			6.81	6.54	8.15	7.73	8.82	7.85	9.28	7.88	10.19	8.48	10.53	8.29
30.50 (m ² /min)	24			6.80	6.53	8.15	7.73	8.82	7.85	9.23	7.86	10.06	8.44	10.39	8.25
	26			6.79	6.52	8.11	7.71	8.74	7.82	9.12	7.82	9.90	8.38	10.23	8.20
	28	6.16	5.91	6.79	6.52	8.07	7.70	8.65	7.78	9.02	7.78	9.74	8.33	10.07	8.05
	30	6.16	5.91	6.77	6.50	8.01	7.68	8.57	7.76	8.91	7.74	9.59	8.28	9.92	8.10
	32	6.16	5.91	6.76	6.49	7.95	7.63	8.49	7.72	8.81	7.71	9.44	8.23	9.77	8.06
	34	6.16	5.91	6.73	6.46	7.92	7.60	8.38	7.69	8.67	7.66	9.25	8.17	9.56	7.99
	35	6.16	5.91	6.72	6.45	7.90	7.58	8.32	7.65	8.60	7.63	9.15	8.13	9.46	7.97
	36	6.16	5.91	6.71	6.44	7.84	7.53	8.28	7.65	8.51	7.60	8.98	8.08	9.28	7.91
	38	6.16	5.91	6.70	6.43	7.73	7.42	8.20	7.62	8.35	7.54	8.65	7.97	8.91	7.80
	39	6.16	5.91	6.69	6.42	7.67	7.36	8.15	7.60	8.27	7.51	8.49	7.91	8.73	7.75
41	6.16	5.91	6.67	6.40	7.44	7.14	7.82	7.48	7.92	7.39	8.11	7.79	8.32	7.62	
43	6.16	5.91	6.64	6.37	7.21	6.92	7.49	7.19	7.57	7.27	7.73	7.42	7.91	7.50	

Model **FDU112KXE6**

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			10.39	9.64	12.43	10.91	13.44	11.10	14.30	11.20	16.02	12.15	16.63	11.88
	12			10.39	9.64	12.43	10.91	13.44	11.10	14.28	11.20	15.96	12.13	16.56	11.86
	14			10.39	9.64	12.43	10.91	13.44	11.10	14.26	11.19	15.90	12.11	16.49	11.84
	16			10.39	9.64	12.43	10.91	13.44	11.10	14.24	11.18	15.84	12.09	16.42	11.82
	18			10.39	9.64	12.43	10.91	13.44	11.10	14.22	11.17	15.79	12.07	16.34	11.79
	20			10.39	9.64	12.43	10.91	13.44	11.10	14.20	11.17	15.73	12.05	16.27	11.77
	22			10.38	9.63	12.42	10.91	13.44	11.10	14.14	11.14	15.53	11.98	16.05	11.67
41 (m/min)	24			10.36	9.63	12.42	10.91	13.44	11.10	14.07	11.12	15.33	11.89	15.83	11.61
	26			10.36	9.63	12.36	10.88	13.31	11.05	13.91	11.06	15.09	11.81	15.59	11.53
	28	9.38	9.00	10.35	9.62	12.30	10.86	13.19	11.00	13.74	11.00	14.85	11.72	15.34	11.45
	30	9.38	9.00	10.32	9.61	12.20	10.82	13.06	10.95	13.58	10.94	14.62	11.65	15.11	11.38
	32	9.38	9.00	10.30	9.60	12.11	10.79	12.93	10.90	13.42	10.88	14.39	11.57	14.88	11.31
	34	9.38	9.00	10.26	9.58	12.07	10.77	12.76	10.84	13.21	10.80	14.09	11.47	14.58	11.22
	35	9.38	9.00	10.25	9.58	12.05	10.76	12.68	10.78	13.10	10.76	13.94	11.42	14.42	11.17
	36	9.38	9.00	10.23	9.57	11.96	10.73	12.62	10.79	12.97	10.71	13.69	11.34	14.14	11.08
	38	9.38	9.00	10.21	9.56	11.77	10.65	12.49	10.74	12.72	10.62	13.19	11.17	13.58	10.91
	39	9.38	9.00	10.19	9.55	11.68	10.62	12.43	10.71	12.60	10.58	12.94	11.09	13.30	10.83
41	9.38	9.00	10.16	9.54	11.33	10.46	11.92	10.52	12.07	10.39	12.36	10.89	12.68	10.64	
43	9.38	9.00	10.12	9.53	10.98	10.33	11.41	10.31	11.54	10.18	11.79	10.68	12.06	10.43	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	8.39	8.39	8.39	8.39	8.39	8.39
	-17.8	-18	8.93	8.93	8.93	8.93	8.93	8.93
	-15.7	-16	9.47	9.47	9.47	9.47	9.47	9.47
	-13.7	-14	10.01	10.01	10.01	10.01	10.01	10.01
	-11.7	-12	10.55	10.55	10.55	10.55	10.55	10.55
	-9.6	-10	11.09	11.09	11.09	11.09	11.09	11.09
	-7.5	-8	11.77	11.77	11.77	11.77	11.77	11.77
	-5.5	-6	12.44	12.44	12.44	12.44	12.44	12.44
	-3.4	-4	12.88	12.86	12.84	12.72	12.59	
	-1.3	-2	13.31	13.28	13.24	12.99	12.73	
41 (m/min)	0.8	0	14.04	13.84	13.64	13.15	12.66	
	3.9	3	15.23	14.69	14.14	13.35	12.55	
	7.0	6	16.64	15.56	14.47	13.46	12.44	
	10.1	9	16.53	15.47	14.42	13.38	12.34	
	13.2	12	16.42	15.37	14.33	13.28	12.23	
	16.9	15.5	16.30	15.25	14.20	13.15	12.10	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			9.18	8.23	10.97	9.31	11.87	9.48	12.63	9.60	14.15	10.38	14.69	10.14
	12			9.18	8.23	10.97	9.31	11.87	9.48	12.61	9.59	14.10	10.36	14.63	10.12
	14			9.18	8.23	10.97	9.31	11.87	9.48	12.60	9.59	14.05	10.34	14.56	10.10
	16			9.18	8.23	10.97	9.31	11.87	9.48	12.58	9.58	14.00	10.33	14.50	10.08
	18			9.18	8.23	10.97	9.31	11.87	9.48	12.56	9.57	13.94	10.31	14.44	10.06
	20			9.18	8.23	10.97	9.31	11.87	9.48	12.55	9.57	13.89	10.29	14.37	10.04
	22			9.17	8.22	10.97	9.31	11.87	9.48	12.49	9.54	13.72	10.23	14.18	9.98
	24			9.15	8.22	10.97	9.31	11.87	9.48	12.43	9.52	13.54	10.17	13.98	9.91
	26			9.15	8.22	10.92	9.29	11.76	9.44	12.28	9.45	13.33	10.09	13.77	9.85
	28	8.29	7.96	9.14	8.21	10.86	9.27	11.65	9.40	12.14	9.40	13.11	10.02	13.55	9.78
34 (m/min)	30	8.29	7.96	9.12	8.20	10.78	9.24	11.54	9.36	12.00	9.34	12.91	9.95	13.35	9.69
	32	8.29	7.96	9.09	8.19	10.70	9.20	11.42	9.31	11.85	9.29	12.71	9.86	13.15	9.63
	34	8.29	7.96	9.06	8.18	10.66	9.19	11.27	9.25	11.66	9.22	12.45	9.77	12.87	9.54
	35	8.29	7.96	9.05	8.17	10.64	9.18	11.20	9.18	11.57	9.18	12.31	9.72	12.74	9.50
	36	8.29	7.96	9.04	8.17	10.56	9.15	11.14	9.20	11.46	9.14	12.09	9.65	12.49	9.43
	38	8.29	7.96	9.02	8.16	10.40	9.09	11.03	9.16	11.24	9.06	11.65	9.50	12.00	9.27
	39	8.29	7.96	9.00	8.15	10.32	9.05	10.98	9.14	11.13	9.02	11.43	9.42	11.75	9.20
	41	8.29	7.96	8.97	8.14	10.01	8.93	10.53	8.97	10.66	8.85	10.92	9.25	11.20	9.03
	43	8.29	7.96	8.94	8.13	9.70	8.81	10.08	8.80	10.19	8.68	10.41	9.09	10.65	8.86

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	7.25	7.25	7.25	7.25	7.25	7.25
	-17.8	-18	7.72	7.72	7.72	7.72	7.72	7.72
	-15.7	-16	8.18	8.18	8.18	8.18	8.18	8.18
	-13.7	-14	8.65	8.65	8.65	8.65	8.65	8.65
	-11.7	-12	9.12	9.12	9.12	9.12	9.12	9.12
	-9.6	-10	9.58	9.58	9.58	9.58	9.58	9.58
	-7.5	-8	10.17	10.17	10.17	10.17	10.17	10.17
	-5.5	-6	10.75	10.75	10.75	10.75	10.75	10.75
	-3.4	-4	11.13	11.11	11.09	10.98	10.88	
	-1.3	-2	11.50	11.47	11.44	11.22	11.00	
34 (m/min)	0.8	0	12.13	11.95	11.78	11.36	10.94	
	3.9	3	13.16	12.69	12.22	11.53	10.84	
	7.0	6	14.38	13.44	12.50	11.63	10.75	
	10.1	9	14.28	13.37	12.45	11.55	10.66	
	13.2	12	14.19	13.28	12.38	11.47	10.56	
	16.9	15.5	14.08	13.17	12.27	11.36	10.45	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			8.48	7.48	10.14	8.47	10.97	8.65	11.67	8.74	13.07	9.44	13.58	9.23
	12			8.48	7.48	10.14	8.47	10.97	8.65	11.66	8.73	13.03	9.43	13.52	9.21
	14			8.48	7.48	10.14	8.47	10.97	8.65	11.64	8.73	12.98	9.41	13.46	9.19
	16			8.48	7.48	10.14	8.47	10.97	8.65	11.62	8.72	12.93	9.40	13.40	9.17
	18			8.48	7.48	10.14	8.47	10.97	8.65	11.61	8.72	12.89	9.38	13.34	9.15
	20			8.48	7.48	10.14	8.47	10.97	8.65	11.59	8.71	12.84	9.36	13.28	9.13
	22			8.47	7.48	10.14	8.47	10.97	8.65	11.54	8.69	12.68	9.31	13.10	9.07
	24			8.46	7.48	10.13	8.47	10.97	8.65	11.49	8.67	12.51	9.25	12.92	9.02
	26			8.45	7.47	10.09	8.45	10.87	8.59	11.35	8.62	12.32	9.18	12.72	8.95
	28	7.66	7.35	8.45	7.47	10.04	8.43	10.76	8.55	11.22	8.57	12.12	9.11	12.52	8.89
30.50 (m/min)	30	7.66	7.35	8.42	7.46	9.96	8.40	10.66	8.51	11.09	8.50	11.93	9.04	12.34	8.83
	32	7.66	7.35	8.40	7.45	9.88	8.37	10.56	8.47	10.95	8.45	11.75	8.92	12.15	8.77
	34	7.66	7.35	8.38	7.44	9.85	8.36	10.42	8.42	10.78	8.39	11.50	8.88	11.90	8.67
	35	7.66	7.35	8.36	7.43	9.83	8.35	10.35	8.38	10.69	8.35	11.38	8.84	11.77	8.63
	36	7.66	7.35	8.35	7.43	9.76	8.32	10.30	8.37	10.59	8.32	11.17	8.76	11.54	8.56
	38	7.66	7.35	8.33	7.42	9.61	8.26	10.19	8.33	10.38	8.24	10.76	8.63	11.09	8.42
	39	7.66	7.35	8.32	7.42	9.54	8.23	10.14	8.31	10.28	8.20	10.56	8.56	11.06	8.35
	41	7.66	7.35	8.29	7.40	9.25	8.12	9.73	8.15	9.85	8.05	10.09	8.40	10.35	8.19
	43	7.66	7.35	8.26	7.39	8.96	8.00	9.32	8.00	9.42	7.89	9.62	8.24	9.84	8.04

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Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			12.75	11.68	15.24	13.18	16.48	13.43	17.54	13.57	19.64	14.67	20.40	14.34
	12			12.75	11.68	15.24	13.18	16.48	13.43	17.51	13.55	19.57	14.65	20.31	14.32
	14			12.75	11.68	15.24	13.18	16.48	13.43	17.49	13.55	19.50	14.62	20.22	14.29
	16			12.75	11.68	15.24	13.18	16.48	13.43	17.47	13.54	19.43	14.60	20.13	14.26
	18			12.75	11.68	15.24	13.18	16.48	13.43	17.44	13.53	19.36	14.57	20.04	14.23
	20			12.75	11.68	15.24	13.18	16.48	13.43	17.42	13.52	19.29	14.55	19.96	14.21
	22			12.73	11.67	15.23	13.18	16.48	13.43	17.34	13.49	19.04	14.47	19.68	14.12
	24			12.71	11.66	15.23	13.18	16.48	13.43	17.26	13.46	18.80	14.38	19.41	14.03
	26			12.70	11.66	15.15	13.15	16.33	13.38	17.05	13.38	18.50	14.28	19.11	13.94
	28	11.51	11.05	12.69	11.65	15.08	13.12	16.17	13.29	16.85	13.31	18.21	14.18	18.82	13.85
50 (m³/min)	30	11.51	11.05	12.66	11.64	14.97	13.08	16.02	13.24	16.65	13.24	17.93	14.09	18.53	13.77
	32	11.51	11.05	12.63	11.63	14.85	13.03	15.86	13.17	16.46	13.15	17.65	14.00	18.25	13.68
	34	11.51	11.05	12.59	11.61	14.80	13.01	15.65	13.09	16.20	13.05	17.28	13.84	17.88	13.54
	35	11.51	11.05	12.56	11.60	14.77	13.00	15.55	13.06	16.06	13.00	17.09	13.78	17.69	13.48
	36	11.51	11.05	12.55	11.59	14.66	12.96	15.47	13.03	15.91	12.95	16.79	13.68	17.34	13.37
	38	11.51	11.05	12.52	11.58	14.44	12.87	15.32	12.97	15.60	12.83	16.17	13.47	16.66	13.17
	39	11.51	11.05	12.50	11.58	14.33	12.83	15.24	12.94	15.45	12.78	15.87	13.38	16.31	13.06
	41	11.51	11.05	12.46	11.56	13.90	12.66	14.62	12.71	14.80	12.55	15.16	13.15	15.55	12.83
	43	11.51	11.05	12.41	11.54	13.47	12.47	14.00	12.48	14.15	12.29	14.46	12.89	14.78	12.57

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	10.56	10.56	10.56	10.56	10.56	
	-17.8	-18	11.24	11.24	11.24	11.24	11.24	
	-15.7	-16	11.91	11.91	11.91	11.91	11.91	
	-13.7	-14	12.59	12.59	12.59	12.59	12.59	
	-11.7	-12	13.27	13.27	13.27	13.27	13.27	
	-9.6	-10	13.95	13.95	13.95	13.95	13.95	
	-7.5	-8	14.80	14.80	14.80	14.80	14.80	
	-5.5	-6	15.65	15.65	15.65	15.65	15.65	
	-3.4	-4	16.20	16.18	16.15	15.99	15.83	
	-1.3	-2	16.74	16.70	16.65	16.33	16.02	
50 (m³/min)	0.8	0	17.65	17.40	17.15	16.54	15.93	
	3.9	3	19.16	18.47	17.79	16.79	15.79	
	7.0	6	20.93	19.57	18.20	16.93	15.65	
	10.1	9	20.79	19.46	18.13	16.82	15.52	
	13.2	12	20.66	19.34	18.02	16.70	15.38	
	16.9	15.5	20.50	19.18	17.86	16.54	15.22	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			11.48	10.15	13.72	11.46	14.84	11.67	15.79	11.81	17.69	12.74	18.36	12.44
	12			11.48	10.15	13.72	11.46	14.84	11.67	15.77	11.80	17.62	12.71	18.28	12.41
	14			11.48	10.15	13.72	11.46	14.84	11.67	15.75	11.80	17.56	12.69	18.20	12.39
	16			11.48	10.15	13.72	11.46	14.84	11.67	15.72	11.78	17.49	12.67	18.13	12.36
	18			11.48	10.15	13.72	11.46	14.84	11.67	15.70	11.77	17.43	12.65	18.05	12.34
42 (m³/min)	20			11.48	10.15	13.72	11.46	14.84	11.67	15.68	11.77	17.37	12.62	17.97	12.31
	22			11.46	10.14	13.71	11.45	14.84	11.67	15.61	11.74	17.15	12.55	17.72	12.23
	24			11.44	10.13	13.71	11.45	14.84	11.67	15.54	11.69	16.93	12.47	17.48	12.16
	26			11.43	10.13	13.64	11.42	14.70	11.61	15.35	11.62	16.66	12.38	17.21	12.07
	28	10.36	9.95	11.42	10.13	13.58	11.40	14.56	11.56	15.17	11.56	16.39	12.29	16.94	11.99
	30	10.36	9.95	11.40	10.12	13.48	11.36	14.42	11.51	14.99	11.49	16.14	12.20	16.69	11.91
	32	10.36	9.95	11.37	10.10	13.37	11.30	14.28	11.45	14.82	11.43	15.89	12.12	16.43	11.83
	34	10.36	9.95	11.33	10.09	13.32	11.28	14.09	11.38	14.58	11.34	15.56	12.00	16.09	11.72
	35	10.36	9.95	11.31	10.08	13.30	11.27	14.00	11.34	14.46	11.29	15.39	11.95	15.92	11.67
	36	10.36	9.95	11.30	10.08	13.20	11.23	13.93	11.32	14.32	11.24	15.11	11.85	15.61	11.57
	38	10.36	9.95	11.27	10.06	13.00	11.15	13.79	11.26	14.05	11.14	14.56	11.67	15.00	11.36
	39	10.36	9.95	11.26	10.06	12.90	11.11	13.72	11.24	13.91	11.07	14.28	11.55	14.69	11.27
	41	10.36	9.95	11.22	10.02	12.51	10.96	13.16	11.01	13.32	10.86	13.65	11.34	14.00	11.06
	43	10.36	9.95	11.18	10.00	12.13	10.81	12.60	10.79	12.74	10.65	13.02	11.14	13.31	10.85

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	9.28	9.28	9.28	9.28	9.28
	-17.8	-18	9.88	9.88	9.88	9.88	9.88
	-15.7	-16	10.47	10.47	10.47	10.47	10.47
	-13.7	-14	11.07	11.07	11.07	11.07	11.07
	-11.7	-12	11.67	11.67	11.67	11.67	11.67
	-9.6	-10	12.27	12.27	12.27	12.27	12.27
	-7.5	-8	13.01	13.01	13.01	13.01	13.01
	-5.5	-6	13.76	13.76	13.76	13.76	13.76
	-3.4	-4	14.24	14.22	14.20	14.06	13.92
	-1.3	-2	14.72	14.68	14.64	14.36	14.08
42 (m³/min)	0.8	0	15.52	15.30	15.08	14.54	14.00
	3.9	3	16.84	16.24	15.64	14.76	13.88
	7.0	6	18.40	17.20	16.00	14.88	13.76
	10.1	9	18.28	17.11	15.94	14.79	13.64
	13.2	12	18.16	17.00	15.84	14.68	13.52
	16.9	15.5	18.02	16.86	15.70	14.54	13.38

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			10.69	9.31	12.78	10.54	13.82	10.76	14.71	10.88	16.47	11.76	17.10	11.48
	12			10.69	9.31	12.78	10.54	13.82	10.76	14.69	10.87	16.41	11.73	17.03	11.45
	14			10.69	9.31	12.78	10.54	13.82	10.76	14.67	10.86	16.35	11.71	16.96	11.43
	16			10.69	9.31	12.78	10.54	13.82	10.76	14.65	10.86	16.29	11.69	16.88	11.41
	18			10.69	9.31	12.78	10.54	13.82	10.76	14.63	10.85	16.23	11.67	16.81	11.38
	20			10.69	9.31	12.78	10.54	13.82	10.76	14.61	10.84	16.18	11.65	16.74	11.36
	22			10.67	9.30	12.77	10.54	13.82	10.76	14.54	10.82	15.97	11.58	16.51	11.29
	24			10.66	9.30	12.77	10.54	13.82	10.76	14.47	10.79	15.77	11.51	16.28	11.21
	26			10.65	9.30	12.71	10.52	13.69	10.71	14.30	10.72	15.52	11.42	16.03	11.13
	28	9.65	9.21	10.64	9.29	12.65	10.49	13.56	10.66	14.13	10.66	15.27	11.33	15.78	11.05
37.50 (m³/min)	30	9.65	9.21	10.61	9.28	12.55	10.45	13.43	10.59	13.97	10.60	15.04	11.25	15.54	10.97
	32	9.65	9.21	10.59	9.27	12.45	10.41	13.30	10.54	13.80	10.54	14.80	11.17	15.31	10.90
	34	9.65	9.21	10.55	9.25	12.41	10.39	13.13	10.47	13.58	10.43	14.49	11.09	14.99	10.80
	35	9.65	9.21	10.54	9.25	12.39	10.39	13.04	10.43	13.47	10.39	14.33	11.00	14.83	10.75
	36	9.65	9.21	10.52	9.24	12.29	10.35	12.97	10.41	13.34	10.35	14.08	10.89	14.54	10.63
	38	9.65	9.21	10.50	9.23	12.11	10.28	12.84	10.36	13.08	10.25	13.56	10.72	13.97	10.46
	39	9.65	9.21	10.48	9.23	12.01	10.24	12.78	10.34	12.95	10.20	13.30	10.63	13.68	10.36
	41	9.65	9.21	10.45	9.21	11.65	10.09	12.26	10.14	12.41	10.00	12.71	10.43	13.04	10.17
	43	9.65	9.21	10.41	9.20	11.29	9.95	11.74	9.94	11.86	9.80	12.12	10.23	12.40	9.97

Model **FDU224KXE6**

Cool Mode

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Upper limit	10			21.75	17.52	26.00	19.83	28.12	20.27	29.92	20.56	33.51	22.12	34.80	21.55
	12			21.75	17.52	26.00	19.83	28.12	20.27	29.88	20.54	33.39	22.07	34.65	21.50
	14			21.75	17.52	26.00	19.83	28.12	20.27	29.84	20.53	33.27	22.03	34.50	21.44
	16			21.75	17.52	26.00	19.83	28.12	20.27	29.80	20.51	33.15	21.98	34.35	21.39
	18			21.75	17.52	26.00	19.83	28.12	20.27	29.76	20.49	33.03	21.94	34.20	21.35
	20			21.75	17.52	26.00	19.83	28.12	20.27	29.72	20.48	32.91	21.89	34.05	21.29
	22			21.72	17.50	25.99	19.83	28.12	20.27	29.58	20.42	32.49	21.74	33.58	21.13
	24			21.69	17.49	25.98	19.82	28.12	20.27	29.44	20.36	32.08	21.59	33.12	20.98
	26			21.67	17.48	25.86	19.77	27.86	20.16	29.09	20.20	31.57	21.40	32.61	20.80
	28	19.63	17.27	21.65	17.47	25.73	19.69	27.59	20.05	28.75	20.06	31.06	21.21	32.10	20.64
65 (m³/min)	30	19.63	17.27	21.60	17.45	25.54	19.61	27.33	19.94	28.41	19.93	30.59	21.04	31.62	20.48
	32	19.63	17.27	21.54	17.43	25.34	19.53	27.06	19.83	28.08	19.80	30.12	20.87	31.14	20.32
	34	19.63	17.27	21.47	17.39	25.25	19.49	26.71	19.69	27.63	19.62	29.48	20.64	30.50	20.11
	35	19.63	17.27	21.44	17.38	25.20	19.47	26.53	19.63	27.41	19.54	29.16	20.52	30.18	20.00
	36	19.63	17.27	21.41	17.37	25.01	19.39	26.40	19.57	27.14	19.43	28.64	20.34	29.59	19.81
	38	19.63	17.27	21.36	17.35	24.63	19.23	26.13	19.43	26.62	19.20	27.59	19.93	28.42	19.39
	39	19.63	17.27	21.33	17.33	24.44	19.15	26.00	19.37	26.36	19.10	27.07	19.74	27.83	19.20
	41	19.63	17.27	21.26	17.30	23.71	18.85	24.94	18.95	25.25	18.67	25.87	19.33	26.53	18.79
	43	19.63	17.27	21.18	17.27	22.98	18.52	23.88	18.53	24.14	18.26	24.66	18.87	25.22	18.34

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Upper limit	-19.8	-20	17.28	17.28	17.28	17.28	17.28	
	-17.8	-18	18.39	18.39	18.39	18.39	18.39	
	-15.7	-16	19.50	19.50	19.50	19.50	19.50	
	-13.7	-14	20.61	20.61	20.61	20.61	20.61	
	-11.7	-12	21.73	21.73	21.73	21.73	21.73	
	-9.6	-10	22.84	22.84	22.84	22.84	22.84	
	-7.5	-8	24.23	24.23	24.23	24.23	24.23	
	-5.5	-6	25.62	25.62	25.62	25.62	25.62	
	-3.4	-4	26.51	26.48	26.44	26.18	25.92	
	-1.3	-2	27.41	27.33	27.26	26.74	26.22	
65.00 (m³/min)	0.8	0	28.90	28.49	28.08	27.07	26.07	
	3.9	3	31.35	30.24	29.12	27.48	25.84	
	7.0	6	34.26	32.02	29.79	27.70	25.62	
	10.1	9	34.04	31.86	29.68	27.54	25.40	
	13.2	12	33.81	31.65	29.49	27.33	25.17	
	16.9	15.5	33.55	31.39	29.23	27.07	24.91	

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
60.00 (m³/min)	10			20.57	16.39	24.59	18.56	26.60	19.00	28.30	19.25	31.70	20.71	32.91	20.16
	12			20.57	16.39	24.59	18.56	26.60	19.00	28.26	19.23	31.58	20.66	32.77	20.12
	14			20.57	16.39	24.59	18.56	26.60	19.00	28.22	19.22	31.47	20.62	32.63	20.06
	16			20.57	16.39	24.59	18.56	26.60	19.00	28.18	19.20	31.35	20.58	32.48	20.01
	18			20.57	16.39	24.59	18.56	26.60	19.00	28.14	19.18	31.24	20.53	32.34	19.97
	20			20.57	16.39	24.59	18.56	26.60	19.00	28.10	19.17	31.12	20.49	32.20	19.92
	22			20.54	16.37	24.58	18.55	26.60	19.00	27.97	19.11	30.73	20.34	31.76	19.76
	24			20.51	16.36	24.57	18.55	26.60	19.00	27.84	19.06	30.34	20.20	31.32	19.62
	26			20.49	16.35	24.45	18.50	26.34	18.87	27.52	18.94	29.86	20.02	30.84	19.45
	28	18.57	16.15	20.47	16.34	24.34	18.45	26.09	18.76	27.19	18.80	29.38	19.84	30.36	19.29
	30	18.57	16.15	20.42	16.32	24.15	18.37	25.84	18.66	26.87	18.65	28.93	19.67	29.90	19.14
	32	18.57	16.15	20.37	16.30	23.96	18.29	25.59	18.56	26.56	18.53	28.48	19.51	29.45	18.99
	34	18.57	16.15	20.31	16.27	23.88	18.26	25.26	18.42	26.13	18.36	27.88	19.29	28.84	18.78
	35	18.57	16.15	20.27	16.25	23.84	18.24	25.09	18.32	25.92	18.28	27.58	19.18	28.54	18.69
	36	18.57	16.15	20.25	16.25	23.66	18.14	24.96	18.30	25.67	18.18	27.08	19.00	27.98	18.50
	38	18.57	16.15	20.20	16.22	23.30	17.99	24.71	18.20	25.17	17.98	26.09	18.65	26.88	18.11
	39	18.57	16.15	20.17	16.21	23.12	17.91	24.59	18.15	24.93	17.89	25.60	18.44	26.32	17.93
41	18.57	16.15	20.10	16.18	22.42	17.62	23.58	17.72	23.88	17.46	24.46	18.04	25.09	17.54	
43	18.57	16.15	20.03	16.15	21.73	17.34	22.58	17.32	22.83	17.06	23.33	17.65	23.85	17.11	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
60.00 (m³/min)	-19.8	-20	16.24	16.24	16.24	16.24	16.24	
	-17.8	-18	17.29	17.29	17.29	17.29	17.29	
	-15.7	-16	18.33	18.33	18.33	18.33	18.33	
	-13.7	-14	19.38	19.38	19.38	19.38	19.38	
	-11.7	-12	20.42	20.42	20.42	20.42	20.42	
	-9.6	-10	21.47	21.47	21.47	21.47	21.47	
	-7.5	-8	22.77	22.77	22.77	22.77	22.77	
	-5.5	-6	24.08	24.08	24.08	24.08	24.08	
	-3.4	-4	24.92	24.89	24.85	24.61	24.36	
	-1.3	-2	25.76	25.69	25.62	25.13	24.64	
	0.8	0	27.16	26.78	26.39	25.45	24.50	
	3.9	3	29.47	28.42	27.37	25.83	24.29	
	7.0	6	32.20	30.10	28.00	26.04	24.08	
	10.1	9	31.99	29.94	27.90	25.88	23.87	
	13.2	12	31.78	29.75	27.72	25.69	23.66	
16.9	15.5	31.54	29.51	27.48	25.45	23.42		

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			18.36	14.47	21.95	16.37	23.74	16.76	25.26	16.99	28.30	18.34	29.38	17.85
	12			18.36	14.47	21.95	16.37	23.74	16.76	25.23	16.98	28.19	18.30	29.25	17.81
	14			18.36	14.47	21.95	16.37	23.74	16.76	25.19	16.96	28.09	18.26	29.13	17.76
	16			18.36	14.47	21.95	16.37	23.74	16.76	25.16	16.95	27.99	18.22	29.00	17.71
	18			18.36	14.47	21.95	16.37	23.74	16.76	25.13	16.94	27.89	18.18	28.87	17.67
	20			18.36	14.47	21.95	16.37	23.74	16.76	25.09	16.92	27.79	18.14	28.75	17.63
	22			18.34	14.46	21.94	16.37	23.74	16.76	24.97	16.87	27.43	18.00	28.36	17.49
	24			18.31	14.44	21.93	16.37	23.74	16.76	24.86	16.83	27.08	17.87	27.96	17.32
	26			18.29	14.43	21.83	16.30	23.52	16.67	24.57	16.71	26.66	17.68	27.53	17.17
	28	16.58	14.23	18.28	14.43	21.73	16.26	23.30	16.57	24.27	16.58	26.23	17.52	27.10	17.02
51.00 (m³/min)	30	16.58	14.23	18.23	14.41	21.56	16.18	23.07	16.48	23.99	16.47	25.83	17.37	26.70	16.88
	32	16.58	14.23	18.19	14.39	21.39	16.11	22.85	16.38	23.71	16.36	25.43	17.21	26.29	16.74
	34	16.58	14.23	18.13	14.36	21.32	16.08	22.55	16.26	23.33	16.20	24.89	17.01	25.75	16.56
	35	16.58	14.23	18.10	14.35	21.28	16.06	22.40	16.13	23.14	16.13	24.62	16.91	25.45	16.47
	36	16.58	14.23	18.08	14.34	21.12	15.99	22.29	16.15	22.92	16.04	24.18	16.75	24.98	16.30
	38	16.58	14.23	18.03	14.32	20.80	15.86	22.06	16.03	22.47	15.83	23.30	16.40	23.99	15.95
	39	16.58	14.23	18.01	14.31	20.64	15.79	21.95	15.98	22.25	15.75	22.85	16.24	23.50	15.74
	41	16.58	14.23	17.95	14.28	20.02	15.53	21.06	15.62	21.32	15.38	21.84	15.87	22.40	15.45
	43	16.58	14.23	17.88	14.25	19.40	15.26	20.16	15.25	20.38	15.01	20.82	15.51	21.30	15.05

Model **FDU280KXE6**

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Upper limit	10			26.61	22.12	31.81	25.02	34.41	25.57	36.61	25.86	41.01	27.97	42.58	27.24
	12			26.61	22.12	31.81	25.02	34.41	25.57	36.56	25.84	40.86	27.87	42.39	27.18
	14			26.61	22.12	31.81	25.02	34.41	25.57	36.51	25.82	40.71	27.82	42.21	27.12
	16			26.61	22.12	31.81	25.02	34.41	25.57	36.46	25.80	40.56	27.76	42.03	27.06
	18			26.61	22.12	31.81	25.02	34.41	25.57	36.41	25.78	40.41	27.71	41.84	27.00
	20			26.61	22.12	31.81	25.02	34.41	25.57	36.36	25.76	40.26	27.66	41.66	26.94
	22			26.57	22.10	31.80	25.01	34.41	25.57	36.19	25.70	39.75	27.47	41.09	26.75
	24			26.53	22.09	31.78	25.00	34.41	25.57	36.02	25.64	39.25	27.29	40.52	26.52
	26			26.51	22.08	31.63	24.94	34.08	25.44	35.60	25.47	38.63	27.03	39.90	26.32
	87 (m³/min)	28	24.02	21.84	26.49	22.07	31.49	24.88	33.76	25.27	35.17	25.31	38.01	26.81	39.28
30	24.02	21.84	26.42	22.04	31.24	24.79	33.43	25.14	34.77	25.12	37.43	26.61	38.69	25.94	
32	24.02	21.84	26.36	22.01	31.00	24.65	33.11	25.01	34.36	24.96	36.85	26.41	38.10	25.70	
34	24.02	21.84	26.27	21.98	30.89	24.60	32.68	24.84	33.81	24.75	36.07	26.09	37.31	25.45	
35	24.02	21.84	26.23	21.96	30.84	24.58	32.46	24.67	33.53	24.65	35.68	25.95	36.92	25.32	
36	24.02	21.84	26.20	21.94	30.60	24.48	32.30	24.70	33.21	24.53	35.04	25.74	36.20	25.10	
38	24.02	21.84	26.13	21.92	30.14	24.30	31.97	24.57	32.57	24.29	33.76	25.15	34.77	24.50	
39	24.02	21.84	26.10	21.90	29.91	24.21	31.81	24.50	32.25	24.13	33.12	24.94	34.05	24.27	
41	24.02	21.84	26.01	21.86	29.01	23.85	30.51	23.96	30.89	23.62	31.65	24.43	32.46	23.78	
43	24.02	21.84	25.91	21.82	28.11	23.45	29.21	23.46	29.53	23.08	30.18	23.94	30.86	23.29	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Upper limit	-19.8	-20	21.49	21.49	21.49	21.49	21.49
	-17.8	-18	22.87	22.87	22.87	22.87	22.87
	-15.7	-16	24.26	24.26	24.26	24.26	24.26
	-13.7	-14	25.64	25.64	25.64	25.64	25.64
	-11.7	-12	27.02	27.02	27.02	27.02	27.02
	-9.6	-10	28.41	28.41	28.41	28.41	28.41
	-7.5	-8	30.13	30.13	30.13	30.13	30.13
87.00 (m ³ /min)	-5.5	-6	31.86	31.86	31.86	31.86	31.86
	-3.4	-4	32.97	32.93	32.88	32.56	32.23
	-1.3	-2	34.09	33.99	33.90	33.25	32.60
	0.8	0	35.94	35.43	34.92	33.67	32.42
	3.9	3	39.00	37.61	36.22	34.18	32.14
	7.0	6	42.61	39.83	37.05	34.46	31.86
	10.1	9	42.33	39.62	36.91	34.25	31.59
	13.2	12	42.05	39.37	36.68	33.99	31.31
	16.9	15.5	41.73	39.04	36.36	33.67	30.98

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
80.00 (m³/min)	10	25.71	21.10	30.73	23.84	33.24	24.39	35.37	24.68	39.62	26.62	41.13	25.94		
	12	25.71	21.10	30.73	23.84	33.24	24.39	35.32	24.67	39.47	26.56	40.96	25.88		
	14	25.71	21.10	30.73	23.84	33.24	24.39	35.27	24.64	39.33	26.51	40.78	25.82		
	16	25.71	21.10	30.73	23.84	33.24	24.39	35.22	24.62	39.19	26.46	40.60	25.76		
	18	25.71	21.10	30.73	23.84	33.24	24.39	35.18	24.61	39.04	26.40	40.42	25.70		
	20	25.71	21.10	30.73	23.84	33.24	24.39	35.13	24.59	38.90	26.35	40.25	25.65		
	22	25.67	21.08	30.72	23.84	33.24	24.39	34.96	24.52	38.41	26.17	39.70	25.46		
	24	25.63	21.07	30.71	23.83	33.24	24.39	34.80	24.46	37.92	25.99	39.15	25.28		
	26	25.61	21.05	30.56	23.77	32.93	24.26	34.39	24.30	37.32	25.77	38.55	25.08		
	28	23.21	20.78	25.59	21.05	30.42	23.71	32.61	24.13	33.98	24.14	36.72	25.55	37.95	24.88
	30	23.21	20.78	25.53	21.02	30.18	23.61	32.30	23.96	33.59	23.99	36.16	25.36	37.38	24.69
	32	23.21	20.78	25.46	20.99	29.95	23.52	31.99	23.84	33.19	23.84	35.60	25.15	36.81	24.51
	34	23.21	20.78	25.38	20.96	29.84	23.47	31.57	23.67	32.66	23.59	34.85	24.89	36.05	24.21
	35	23.21	20.78	25.34	20.94	29.79	23.45	31.36	23.52	32.40	23.49	34.47	24.75	35.67	24.09
	36	23.21	20.78	25.31	20.93	29.57	23.36	31.20	23.53	32.09	23.37	33.85	24.49	34.98	23.86
	38	23.21	20.78	25.24	20.89	29.12	23.18	30.89	23.40	31.46	23.13	32.61	24.05	33.59	23.21
	39	23.21	20.78	25.21	20.88	28.89	23.08	30.73	23.34	31.15	23.01	32.00	23.84	32.90	23.21
	41	23.21	20.78	25.12	20.84	28.03	22.69	29.48	22.85	29.84	22.52	30.58	23.30	31.36	22.67
	43	23.21	20.78	25.04	20.81	27.16	22.26	28.22	22.32	28.53	21.90	29.15	22.82	29.81	22.19

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
80.00 (m³/min)	-19.8	-20	18.27	18.27	18.27	18.27	18.27
	-17.8	-18	19.45	19.45	19.45	19.45	19.45
	-15.7	-16	20.62	20.62	20.62	20.62	20.62
	-13.7	-14	21.80	21.80	21.80	21.80	21.80
	-11.7	-12	22.97	22.97	22.97	22.97	22.97
	-9.6	-10	24.15	24.15	24.15	24.15	24.15
	-7.5	-8	25.62	25.62	25.62	25.62	25.62
	-5.5	-6	27.09	27.09	27.09	27.09	27.09
	-3.4	-4	28.04	28.00	27.96	27.68	27.41
	-1.3	-2	28.98	28.90	28.82	28.27	27.72
	0.8	0	30.56	30.12	29.69	28.63	27.56
	3.9	3	33.15	31.97	30.79	29.06	27.33
	7.0	6	36.23	33.86	31.50	29.30	27.09
	10.1	9	35.99	33.69	31.38	29.12	26.85
	13.2	12	35.75	33.47	31.19	28.90	26.62
	16.9	15.5	35.48	33.19	30.91	28.63	26.34

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			22.95	18.33	27.44	20.75	29.68	21.24	31.58	21.54	35.37	23.24	36.73	22.64
	12			22.95	18.33	27.44	20.75	29.68	21.24	31.53	21.52	35.24	23.19	36.57	22.58
	14			22.95	18.33	27.44	20.75	29.68	21.24	31.49	21.47	35.12	23.14	36.41	22.49
	16			22.95	18.33	27.44	20.75	29.68	21.24	31.45	21.46	34.99	23.09	36.25	22.44
	18			22.95	18.33	27.44	20.75	29.68	21.24	31.41	21.44	34.86	23.04	36.09	22.39
	20			22.95	18.33	27.44	20.75	29.68	21.24	31.36	21.42	34.73	23.00	35.93	22.33
	22			22.92	18.32	27.43	20.74	29.68	21.24	31.22	21.37	34.29	22.80	35.44	22.17
	24			22.89	18.30	27.42	20.74	29.68	21.24	31.07	21.31	33.85	22.63	34.95	22.00
	26			22.87	18.30	27.29	20.68	29.40	21.12	30.71	21.16	33.32	22.44	34.42	21.79
	28	20.72	18.07	22.85	18.29	27.16	20.63	29.12	21.01	30.34	21.02	32.78	22.21	33.88	21.61
	30	20.72	18.07	22.79	18.26	26.95	20.54	28.84	20.86	29.99	20.88	32.29	22.03	33.37	21.43
68.00 (m³/min)	32	20.72	18.07	22.74	18.24	26.74	20.46	28.56	20.75	29.64	20.74	31.79	21.85	32.87	21.27
	34	20.72	18.07	22.66	18.20	26.65	20.42	28.19	20.60	29.16	20.52	31.11	21.61	32.19	20.93
	35	20.72	18.07	22.62	18.19	26.60	20.40	28.00	20.44	28.93	20.44	30.78	21.38	31.85	20.82
	36	20.72	18.07	22.60	18.18	26.40	20.28	27.86	20.47	28.65	20.33	30.23	21.18	31.25	20.62
	38	20.72	18.07	22.54	18.15	26.00	20.11	27.58	20.35	28.09	20.11	29.12	20.79	29.99	20.22
	39	20.72	18.07	22.51	18.14	25.80	20.03	27.44	20.30	27.82	20.01	28.57	20.59	29.37	20.02
	41	20.72	18.07	22.43	18.10	25.02	19.71	26.32	19.82	26.65	19.53	27.30	20.16	28.00	19.59
	43	20.72	18.07	22.35	18.07	24.25	19.37	25.20	19.38	25.48	19.09	26.03	19.72	26.62	19.16

(g) Duct connected-Middle static pressure type (FDUM)

Model **FDUM22KXE6** Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			1.89	1.81	2.25	2.16	2.44	2.20	2.59	2.22	2.91	2.41	3.02	2.37
	12			1.89	1.81	2.25	2.16	2.44	2.20	2.59	2.22	2.89	2.41	3.00	2.36
	14			1.89	1.81	2.25	2.16	2.44	2.20	2.59	2.22	2.88	2.41	2.99	2.35
	16			1.89	1.81	2.25	2.16	2.44	2.20	2.58	2.22	2.87	2.40	2.98	2.35
	18			1.89	1.81	2.25	2.16	2.44	2.20	2.58	2.22	2.86	2.40	2.96	2.34
	20			1.89	1.81	2.25	2.16	2.44	2.20	2.58	2.22	2.85	2.40	2.95	2.34
	22			1.88	1.80	2.25	2.16	2.44	2.20	2.56	2.21	2.82	2.38	2.91	2.33
	24			1.88	1.80	2.25	2.16	2.44	2.20	2.55	2.20	2.78	2.37	2.87	2.32
	26			1.88	1.80	2.24	2.15	2.42	2.20	2.52	2.19	2.74	2.36	2.83	2.30
	28	1.70	1.63	1.88	1.80	2.23	2.14	2.39	2.18	2.49	2.19	2.69	2.34	2.78	2.29
11 (m/min)	30	1.70	1.63	1.87	1.80	2.21	2.12	2.37	2.18	2.46	2.18	2.65	2.33	2.74	2.26
	32	1.70	1.63	1.87	1.80	2.20	2.11	2.35	2.17	2.43	2.16	2.61	2.31	2.70	2.25
	34	1.70	1.63	1.86	1.79	2.19	2.10	2.32	2.16	2.40	2.15	2.56	2.28	2.64	2.23
	35	1.70	1.63	1.86	1.79	2.19	2.10	2.30	2.14	2.38	2.14	2.53	2.27	2.62	2.23
	36	1.70	1.63	1.86	1.79	2.17	2.08	2.29	2.15	2.35	2.14	2.48	2.26	2.57	2.21
	38	1.70	1.63	1.85	1.78	2.14	2.05	2.27	2.14	2.31	2.12	2.39	2.23	2.46	2.19
	39	1.70	1.63	1.85	1.78	2.12	2.04	2.25	2.13	2.28	2.11	2.35	2.22	2.41	2.17
	41	1.70	1.63	1.84	1.77	2.06	1.98	2.16	2.07	2.19	2.08	2.24	2.15	2.30	2.15
	43	1.70	1.63	1.84	1.77	1.99	1.91	2.07	1.99	2.09	2.01	2.14	2.05	2.19	2.10

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	1.53	1.53	1.53	1.53	1.53	
	-17.8	-18	1.63	1.63	1.63	1.63	1.63	
	-15.7	-16	1.73	1.73	1.73	1.73	1.73	
	-13.7	-14	1.83	1.83	1.83	1.83	1.83	
	-11.7	-12	1.93	1.93	1.93	1.93	1.93	
	-9.6	-10	2.02	2.02	2.02	2.02	2.02	
	-7.5	-8	2.15	2.15	2.15	2.15	2.15	
	-5.5	-6	2.27	2.27	2.27	2.27	2.27	
	-3.4	-4	2.35	2.35	2.34	2.32	2.30	
	-1.3	-2	2.43	2.42	2.42	2.37	2.32	
11 (m/min)	0.8	0	2.56	2.52	2.49	2.40	2.31	
	3.9	3	2.78	2.68	2.58	2.44	2.29	
	7.0	6	3.04	2.84	2.64	2.46	2.27	
	10.1	9	3.02	2.82	2.63	2.44	2.25	
	13.2	12	3.00	2.81	2.61	2.42	2.23	
	16.9	15.5	2.97	2.78	2.59	2.40	2.21	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 "CDB 14 "CWB		23 "CDB 16 "CWB		26 "CDB 18 "CWB		27 "CDB 19 "CWB		28 "CDB 20 "CWB		31 "CDB 22 "CWB		33 "CDB 24 "CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			1.80	1.73	2.16	2.03	2.33	2.06	2.48	2.08	2.78	2.26	2.89	2.21
	12			1.80	1.73	2.16	2.03	2.33	2.06	2.48	2.08	2.77	2.26	2.87	2.21
	14			1.80	1.73	2.16	2.03	2.33	2.06	2.47	2.08	2.76	2.25	2.86	2.20
	16			1.80	1.73	2.16	2.03	2.33	2.06	2.47	2.08	2.75	2.25	2.85	2.20
	18			1.80	1.73	2.16	2.03	2.33	2.06	2.47	2.08	2.74	2.24	2.84	2.20
	20			1.80	1.73	2.16	2.03	2.33	2.06	2.46	2.07	2.73	2.24	2.82	2.19
	22			1.80	1.73	2.15	2.03	2.33	2.06	2.45	2.07	2.69	2.23	2.78	2.18
	24			1.80	1.73	2.15	2.03	2.33	2.06	2.44	2.07	2.66	2.22	2.75	2.17
	26			1.80	1.73	2.14	2.02	2.31	2.05	2.41	2.06	2.62	2.20	2.70	2.14
	28	1.63	1.56	1.80	1.73	2.13	2.02	2.29	2.05	2.38	2.04	2.58	2.19	2.66	2.13
	30	1.63	1.56	1.79	1.72	2.12	2.02	2.27	2.04	2.36	2.03	2.54	2.16	2.62	2.11
	32	1.63	1.56	1.79	1.72	2.10	2.01	2.24	2.03	2.33	2.02	2.50	2.15	2.58	2.10
	34	1.63	1.56	1.78	1.71	2.09	2.00	2.21	2.01	2.29	2.01	2.44	2.13	2.53	2.09
	35	1.63	1.56	1.78	1.71	2.09	2.00	2.20	2.00	2.27	2.00	2.42	2.13	2.50	2.08
	36	1.63	1.56	1.78	1.71	2.07	1.99	2.19	2.01	2.25	1.99	2.37	2.11	2.45	2.07
	38	1.63	1.56	1.77	1.70	2.04	1.96	2.17	2.00	2.21	1.98	2.29	2.09	2.36	2.05
39	1.63	1.56	1.77	1.70	2.03	1.95	2.16	2.00	2.19	1.98	2.24	2.07	2.31	2.03	
41	1.63	1.56	1.76	1.69	1.97	1.89	2.07	1.95	2.09	1.93	2.14	2.05	2.20	2.00	
43	1.63	1.56	1.76	1.69	1.91	1.83	1.98	1.90	2.00	1.90	2.05	1.97	2.09	1.97	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	1.45	1.45	1.45	1.45	1.45	
	-17.8	-18	1.54	1.54	1.54	1.54	1.54	
	-15.7	-16	1.64	1.64	1.64	1.64	1.64	
	-13.7	-14	1.73	1.73	1.73	1.73	1.73	
	-11.7	-12	1.82	1.82	1.82	1.82	1.82	
	-9.6	-10	1.92	1.92	1.92	1.92	1.92	
	-7.5	-8	2.03	2.03	2.03	2.03	2.03	
	-5.5	-6	2.15	2.15	2.15	2.15	2.15	
	-3.4	-4	2.23	2.22	2.22	2.20	2.18	
	-1.3	-2	2.30	2.29	2.29	2.24	2.20	
10 (m/min)	0.8	0	2.43	2.39	2.36	2.27	2.19	
	3.9	3	2.63	2.54	2.44	2.31	2.17	
	7.0	6	2.88	2.69	2.50	2.33	2.15	
	10.1	9	2.86	2.67	2.49	2.31	2.13	
	13.2	12	2.84	2.66	2.48	2.29	2.11	
	16.9	15.5	2.82	2.63	2.45	2.27	2.09	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			1.70	1.63	2.04	1.91	2.20	1.94	2.35	1.95	2.63	2.12	2.73	2.07
	12			1.70	1.63	2.04	1.91	2.20	1.94	2.34	1.95	2.62	2.11	2.72	2.07
	14			1.70	1.63	2.04	1.91	2.20	1.94	2.34	1.95	2.61	2.11	2.70	2.07
	16			1.70	1.63	2.04	1.91	2.20	1.94	2.34	1.95	2.60	2.11	2.69	2.06
	18			1.70	1.63	2.04	1.91	2.20	1.94	2.33	1.95	2.59	2.10	2.68	2.06
	20			1.70	1.63	2.04	1.91	2.20	1.94	2.33	1.95	2.58	2.10	2.67	2.06
	22			1.70	1.63	2.04	1.91	2.20	1.94	2.32	1.94	2.55	2.09	2.63	2.05
	24			1.70	1.63	2.04	1.91	2.20	1.94	2.31	1.94	2.51	2.08	2.60	2.03
9 (m/min)	26			1.70	1.63	2.03	1.90	2.18	1.92	2.28	1.93	2.48	2.07	2.56	2.02
	28	1.54	1.48	1.70	1.63	2.02	1.90	2.16	1.92	2.25	1.92	2.44	2.05	2.52	2.01
	30	1.54	1.48	1.69	1.62	2.00	1.89	2.14	1.91	2.23	1.91	2.40	2.04	2.48	2.00
	32	1.54	1.48	1.69	1.62	1.99	1.89	2.12	1.90	2.20	1.90	2.36	2.03	2.44	1.98
	34	1.54	1.48	1.68	1.61	1.98	1.88	2.09	1.89	2.17	1.89	2.31	2.01	2.39	1.97
	35	1.54	1.48	1.68	1.61	1.98	1.88	2.08	1.87	2.15	1.88	2.29	2.01	2.37	1.97
	36	1.54	1.48	1.68	1.61	1.96	1.88	2.07	1.88	2.13	1.88	2.25	1.99	2.32	1.95
	38	1.54	1.48	1.67	1.60	1.93	1.85	2.05	1.88	2.09	1.86	2.16	1.96	2.23	1.92
39	1.54	1.48	1.67	1.60	1.92	1.84	2.04	1.87	2.07	1.85	2.12	1.95	2.18	1.90	
41	1.54	1.48	1.67	1.60	1.86	1.79	1.96	1.85	1.98	1.82	2.03	1.92	2.08	1.88	
43	1.54	1.48	1.66	1.59	1.80	1.73	1.87	1.80	1.89	1.79	1.93	1.85	1.98	1.84	

Model **FDUM28KXE6**

Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			2.56	2.46	3.06	2.87	3.31	2.92	3.52	2.93	3.94	3.19	4.09	3.12
	12			2.56	2.46	3.06	2.87	3.31	2.92	3.51	2.93	3.93	3.19	4.07	3.12
	14			2.56	2.46	3.06	2.87	3.31	2.92	3.51	2.93	3.91	3.19	4.06	3.12
	16			2.56	2.46	3.06	2.87	3.31	2.92	3.50	2.93	3.90	3.18	4.04	3.11
	18			2.56	2.46	3.06	2.87	3.31	2.92	3.50	2.93	3.88	3.18	4.02	3.11
	20			2.56	2.46	3.06	2.87	3.31	2.92	3.49	2.92	3.87	3.16	4.00	3.07
	22			2.55	2.45	3.06	2.87	3.31	2.92	3.48	2.92	3.82	3.15	3.95	3.06
	24			2.55	2.45	3.05	2.87	3.31	2.92	3.46	2.91	3.77	3.14	3.89	3.04
15.5 (m³/min)	26			2.55	2.45	3.04	2.86	3.28	2.91	3.42	2.90	3.71	3.09	3.84	3.03
	28	2.31	2.22	2.55	2.45	3.03	2.86	3.24	2.89	3.38	2.89	3.65	3.08	3.78	3.02
	30	2.31	2.22	2.54	2.44	3.00	2.85	3.21	2.88	3.34	2.88	3.60	3.06	3.72	3.00
	32	2.31	2.22	2.53	2.43	2.98	2.84	3.18	2.87	3.30	2.87	3.54	3.05	3.66	2.99
	34	2.31	2.22	2.53	2.43	2.97	2.83	3.14	2.85	3.25	2.84	3.47	3.03	3.59	2.97
	35	2.31	2.22	2.52	2.42	2.96	2.83	3.12	2.84	3.22	2.83	3.43	3.02	3.55	2.96
	36	2.31	2.22	2.52	2.42	2.94	2.82	3.10	2.84	3.19	2.82	3.37	3.00	3.48	2.93
	38	2.31	2.22	2.51	2.41	2.90	2.78	3.07	2.83	3.13	2.80	3.24	2.95	3.34	2.90
	39	2.31	2.22	2.51	2.41	2.87	2.76	3.06	2.83	3.10	2.79	3.18	2.94	3.27	2.87
	41	2.31	2.22	2.50	2.40	2.79	2.68	2.93	2.78	2.97	2.74	3.04	2.89	3.12	2.83
43	2.31	2.22	2.49	2.39	2.70	2.59	2.81	2.70	2.84	2.70	2.90	2.78	2.97	2.79	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.13	2.13	2.13	2.13	2.13	
	-17.8	-18	2.27	2.27	2.27	2.27	2.27	
	-15.7	-16	2.41	2.41	2.41	2.41	2.41	
	-13.7	-14	2.55	2.55	2.55	2.55	2.55	
	-11.7	-12	2.68	2.68	2.68	2.68	2.68	
	-9.6	-10	2.82	2.82	2.82	2.82	2.82	
	-7.5	-8	2.99	2.99	2.99	2.99	2.99	
	-5.5	-6	3.16	3.16	3.16	3.16	3.16	
	-3.4	-4	3.28	3.27	3.27	3.23	3.20	
	-1.3	-2	3.39	3.38	3.37	3.30	3.24	
15.5 (m³/min)	0.8	0	3.57	3.52	3.47	3.34	3.22	
	3.9	3	3.87	3.74	3.60	3.39	3.19	
	7.0	6	4.23	3.96	3.68	3.42	3.16	
	10.1	9	4.20	3.94	3.67	3.40	3.14	
	13.2	12	4.18	3.91	3.64	3.38	3.11	
	16.9	15.5	4.14	3.88	3.61	3.34	3.08	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.30	2.15	2.74	2.43	2.97	2.47	3.16	2.50	3.54	2.70	3.67	2.64
	12			2.30	2.15	2.74	2.43	2.97	2.47	3.15	2.49	3.52	2.70	3.66	2.64
	14			2.30	2.15	2.74	2.43	2.97	2.47	3.15	2.49	3.51	2.69	3.64	2.61
	16			2.30	2.15	2.74	2.43	2.97	2.47	3.14	2.48	3.50	2.69	3.63	2.61
	18			2.30	2.15	2.74	2.43	2.97	2.47	3.14	2.48	3.49	2.68	3.61	2.60
	20			2.30	2.15	2.74	2.43	2.97	2.47	3.14	2.48	3.47	2.68	3.59	2.60
	22			2.29	2.15	2.74	2.43	2.97	2.47	3.12	2.48	3.43	2.65	3.54	2.59
	24			2.29	2.15	2.74	2.43	2.97	2.47	3.11	2.48	3.39	2.63	3.50	2.58
	26			2.29	2.15	2.73	2.42	2.94	2.46	3.07	2.46	3.33	2.62	3.44	2.56
12 (m³/min)	28	2.07	1.99	2.28	2.14	2.72	2.42	2.91	2.45	3.03	2.44	3.28	2.60	3.39	2.55
	30	2.07	1.99	2.28	2.14	2.70	2.41	2.88	2.43	3.00	2.43	3.23	2.59	3.34	2.54
	32	2.07	1.99	2.27	2.14	2.67	2.40	2.86	2.42	2.96	2.42	3.18	2.58	3.29	2.52
	34	2.07	1.99	2.27	2.14	2.66	2.39	2.82	2.41	2.92	2.40	3.11	2.56	3.22	2.50
	35	2.07	1.99	2.26	2.13	2.66	2.39	2.80	2.41	2.89	2.39	3.08	2.54	3.18	2.49
	36	2.07	1.99	2.26	2.13	2.64	2.38	2.79	2.40	2.86	2.38	3.02	2.52	3.12	2.47
	38	2.07	1.99	2.25	2.13	2.60	2.37	2.76	2.39	2.81	2.36	2.91	2.49	3.00	2.43
	39	2.07	1.99	2.25	2.13	2.58	2.36	2.74	2.38	2.78	2.35	2.86	2.46	2.94	2.41
	41	2.07	1.99	2.24	2.12	2.50	2.33	2.63	2.34	2.66	2.31	2.73	2.42	2.80	2.37
43	2.07	1.99	2.24	2.12	2.43	2.29	2.52	2.28	2.55	2.25	2.60	2.38	2.66	2.33	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi 12 (m³/min)	-19.8	-20	1.86	1.86	1.86	1.86	1.86	
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	
	0.8	0	3.10	3.06	3.02	2.91	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.21	2.06	2.64	2.32	2.85	2.36	3.03	2.38	3.40	2.59	3.53	2.53
	12			2.21	2.06	2.64	2.32	2.85	2.36	3.03	2.38	3.39	2.59	3.51	2.52
	14			2.21	2.06	2.64	2.32	2.85	2.36	3.03	2.38	3.37	2.57	3.50	2.52
	16			2.21	2.06	2.64	2.32	2.85	2.36	3.02	2.38	3.36	2.57	3.48	2.52
	18			2.21	2.06	2.64	2.32	2.85	2.36	3.02	2.38	3.35	2.57	3.47	2.51
	20			2.21	2.06	2.64	2.32	2.85	2.36	3.01	2.38	3.34	2.56	3.45	2.50
	22			2.20	2.05	2.63	2.32	2.85	2.36	3.00	2.37	3.29	2.55	3.41	2.49
	24			2.20	2.05	2.63	2.32	2.85	2.36	2.99	2.37	3.25	2.53	3.36	2.47
	26			2.20	2.05	2.62	2.31	2.82	2.35	2.95	2.36	3.20	2.52	3.31	2.46
	28	1.99	1.91	2.20	2.05	2.61	2.31	2.80	2.34	2.91	2.34	3.15	2.50	3.25	2.44
(m³/min)	30	1.99	1.91	2.19	2.05	2.59	2.30	2.77	2.33	2.88	2.33	3.10	2.48	3.21	2.42
	32	1.99	1.91	2.18	2.05	2.57	2.29	2.74	2.32	2.85	2.32	3.05	2.46	3.16	2.41
	34	1.99	1.91	2.18	2.05	2.56	2.29	2.71	2.31	2.80	2.30	2.99	2.44	3.09	2.39
	35	1.99	1.91	2.17	2.04	2.56	2.29	2.69	2.29	2.78	2.29	2.96	2.43	3.06	2.38
	36	1.99	1.91	2.17	2.04	2.54	2.28	2.68	2.30	2.75	2.28	2.90	2.41	3.00	2.36
	38	1.99	1.91	2.17	2.04	2.50	2.27	2.65	2.29	2.70	2.26	2.80	2.38	2.88	2.32
	39	1.99	1.91	2.16	2.04	2.48	2.26	2.64	2.28	2.67	2.25	2.74	2.36	2.82	2.30
	41	1.99	1.91	2.16	2.04	2.40	2.23	2.53	2.24	2.56	2.21	2.62	2.32	2.69	2.25
	43	1.99	1.91	2.15	2.03	2.33	2.20	2.42	2.20	2.45	2.17	2.50	2.26	2.56	2.21

Model **FDUM36KXE6** Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.25	2.92	3.89	3.29	4.21	3.36	4.48	3.39	5.02	3.68	5.21	3.57
	12			3.25	2.92	3.89	3.29	4.21	3.36	4.47	3.39	5.00	3.67	5.18	3.56
	14			3.25	2.92	3.89	3.29	4.21	3.36	4.47	3.39	4.98	3.66	5.16	3.56
	16			3.25	2.92	3.89	3.29	4.21	3.36	4.46	3.39	4.96	3.63	5.14	3.55
	18			3.25	2.92	3.89	3.29	4.21	3.36	4.45	3.38	4.94	3.63	5.12	3.54
	20			3.25	2.92	3.89	3.29	4.21	3.36	4.45	3.38	4.92	3.62	5.10	3.54
	22			3.25	2.92	3.89	3.29	4.21	3.36	4.43	3.38	4.86	3.60	5.03	3.52
14 (m³/min)	24			3.25	2.92	3.89	3.29	4.21	3.36	4.41	3.36	4.80	3.58	4.96	3.50
	26			3.24	2.91	3.87	3.28	4.17	3.34	4.35	3.34	4.72	3.56	4.88	3.48
	28	2.94	2.82	3.24	2.91	3.85	3.28	4.13	3.32	4.30	3.33	4.65	3.54	4.80	3.46
	30	2.94	2.82	3.23	2.91	3.82	3.26	4.09	3.31	4.25	3.30	4.58	3.52	4.73	3.43
	32	2.94	2.82	3.22	2.90	3.79	3.25	4.05	3.29	4.20	3.29	4.51	3.49	4.66	3.41
	34	2.94	2.82	3.21	2.90	3.78	3.25	4.00	3.28	4.13	3.26	4.41	3.46	4.56	3.38
	35	2.94	2.82	3.21	2.90	3.77	3.25	3.97	3.26	4.10	3.25	4.36	3.44	4.52	3.36
	36	2.94	2.82	3.20	2.89	3.74	3.24	3.95	3.25	4.06	3.23	4.29	3.41	4.43	3.34
	38	2.94	2.82	3.20	2.89	3.69	3.21	3.91	3.24	3.98	3.20	4.13	3.36	4.25	3.28
	39	2.94	2.82	3.19	2.89	3.66	3.20	3.89	3.23	3.94	3.19	4.05	3.33	4.16	3.25
41	2.94	2.82	3.18	2.88	3.55	3.16	3.73	3.17	3.78	3.13	3.87	3.27	3.97	3.19	
43	2.94	2.82	3.17	2.88	3.44	3.11	3.57	3.11	3.61	3.07	3.69	3.21	3.77	3.13	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.59	2.59	2.59	2.59	2.59	
	-17.8	-18	2.75	2.75	2.75	2.75	2.75	
	-15.7	-16	2.92	2.92	2.92	2.92	2.92	
	-13.7	-14	3.09	3.09	3.09	3.09	3.09	
	-11.7	-12	3.25	3.25	3.25	3.25	3.25	
	-9.6	-10	3.42	3.42	3.42	3.42	3.42	
	-7.5	-8	3.63	3.63	3.63	3.63	3.63	
	-5.5	-6	3.84	3.84	3.84	3.84	3.84	
	-3.4	-4	3.97	3.96	3.96	3.92	3.88	
	-1.3	-2	4.10	4.09	4.08	4.00	3.92	
14 (m/min)	0.8	0	4.33	4.26	4.20	4.05	3.90	
	3.9	3	4.69	4.53	4.36	4.11	3.87	
	7.0	6	5.13	4.79	4.46	4.15	3.84	
	10.1	9	5.10	4.77	4.44	4.12	3.80	
	13.2	12	5.06	4.74	4.42	4.09	3.77	
	16.9	15.5	5.02	4.70	4.38	4.05	3.73	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.95	2.62	3.53	2.95	3.82	3.02	4.06	3.04	4.55	3.29	4.72	3.22
	12			2.95	2.62	3.53	2.95	3.82	3.02	4.05	3.04	4.53	3.29	4.70	3.21
	14			2.95	2.62	3.53	2.95	3.82	3.02	4.05	3.04	4.51	3.28	4.68	3.21
	16			2.95	2.62	3.53	2.95	3.82	3.02	4.04	3.03	4.50	3.28	4.66	3.19
	18			2.95	2.62	3.53	2.95	3.82	3.02	4.04	3.03	4.48	3.27	4.64	3.19
	20			2.95	2.62	3.53	2.95	3.82	3.02	4.03	3.03	4.47	3.27	4.62	3.18
	22			2.95	2.62	3.53	2.95	3.82	3.02	4.01	3.02	4.41	3.24	4.56	3.17
	24			2.94	2.61	3.52	2.95	3.82	3.02	3.99	3.02	4.35	3.22	4.49	3.14
	26			2.94	2.61	3.51	2.95	3.78	3.00	3.95	3.00	4.28	3.20	4.43	3.12
	28	2.66	2.55	2.94	2.61	3.49	2.94	3.74	2.98	3.90	2.99	4.22	3.17	4.36	3.10
12 (m³/min)	30	2.66	2.55	2.93	2.61	3.47	2.93	3.71	2.97	3.86	2.97	4.15	3.15	4.29	3.07
	32	2.66	2.55	2.92	2.61	3.44	2.92	3.67	2.96	3.81	2.95	4.09	3.13	4.23	3.06
	34	2.66	2.55	2.91	2.60	3.43	2.92	3.62	2.93	3.75	2.93	4.00	3.10	4.14	3.03
	35	2.66	2.55	2.91	2.60	3.42	2.91	3.60	2.92	3.72	2.91	3.96	3.09	4.09	3.01
	36	2.66	2.55	2.91	2.60	3.39	2.90	3.58	2.92	3.68	2.90	3.89	3.06	4.02	2.99
	38	2.66	2.55	2.90	2.60	3.34	2.88	3.55	2.91	3.61	2.87	3.74	3.01	3.86	2.94
	39	2.66	2.55	2.89	2.59	3.32	2.87	3.53	2.90	3.58	2.86	3.67	2.98	3.78	2.91
	41	2.66	2.55	2.88	2.58	3.22	2.83	3.38	2.84	3.43	2.81	3.51	2.91	3.60	2.84
	43	2.66	2.55	2.87	2.58	3.12	2.79	3.24	2.78	3.28	2.75	3.35	2.86	3.42	2.79

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.32	2.32	2.32	2.32	2.32	
	-17.8	-18	2.47	2.47	2.47	2.47	2.47	
	-15.7	-16	2.62	2.62	2.62	2.62	2.62	
	-13.7	-14	2.77	2.77	2.77	2.77	2.77	
	-11.7	-12	2.92	2.92	2.92	2.92	2.92	
	-9.6	-10	3.07	3.07	3.07	3.07	3.07	
	-7.5	-8	3.25	3.25	3.25	3.25	3.25	
	-5.5	-6	3.44	3.44	3.44	3.44	3.44	
	-3.4	-4	3.56	3.56	3.55	3.52	3.48	
	-1.3	-2	3.68	3.67	3.66	3.59	3.52	
12 (m³/min)	0.8	0	3.88	3.83	3.77	3.64	3.50	
	3.9	3	4.21	4.06	3.91	3.69	3.47	
	7.0	6	4.60	4.30	4.00	3.72	3.44	
	10.1	9	4.57	4.28	3.99	3.70	3.41	
	13.2	12	4.54	4.25	3.96	3.67	3.38	
	16.9	15.5	4.51	4.22	3.93	3.64	3.35	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.79	2.43	3.33	2.75	3.60	2.80	3.83	2.83	4.30	3.07	4.46	3.00
	12			2.79	2.43	3.33	2.75	3.60	2.80	3.83	2.83	4.28	3.06	4.44	2.99
	14			2.79	2.43	3.33	2.75	3.60	2.80	3.82	2.82	4.26	3.05	4.42	2.98
	16			2.79	2.43	3.33	2.75	3.60	2.80	3.82	2.82	4.25	3.05	4.40	2.97
	18			2.79	2.43	3.33	2.75	3.60	2.80	3.81	2.82	4.23	3.04	4.38	2.97
	20			2.79	2.43	3.33	2.75	3.60	2.80	3.81	2.82	4.22	3.04	4.36	2.96
11 (m³/min)	22			2.78	2.43	3.33	2.75	3.60	2.80	3.79	2.81	4.16	3.02	4.30	2.94
	24			2.78	2.43	3.33	2.75	3.60	2.80	3.77	2.80	4.11	3.00	4.24	2.92
	26			2.78	2.43	3.31	2.74	3.57	2.79	3.73	2.79	4.05	2.98	4.18	2.90
	28	2.52	2.40	2.77	2.43	3.30	2.74	3.54	2.78	3.68	2.77	3.98	2.95	4.11	2.88
	30	2.52	2.40	2.77	2.43	3.27	2.73	3.50	2.76	3.64	2.76	3.92	2.93	4.05	2.86
	32	2.52	2.40	2.76	2.42	3.25	2.71	3.47	2.75	3.60	2.75	3.86	2.91	3.99	2.84
	34	2.52	2.40	2.75	2.42	3.24	2.71	3.42	2.73	3.54	2.72	3.78	2.88	3.91	2.81
	35	2.52	2.40	2.75	2.42	3.23	2.70	3.40	2.72	3.51	2.71	3.74	2.86	3.87	2.80
36	2.52	2.40	2.74	2.41	3.21	2.70	3.38	2.71	3.48	2.70	3.67	2.84	3.79	2.78	
38	2.52	2.40	2.74	2.41	3.16	2.68	3.35	2.70	3.41	2.67	3.54	2.79	3.64	2.73	
39	2.52	2.40	2.73	2.41	3.13	2.67	3.33	2.69	3.38	2.66	3.47	2.77	3.57	2.70	
41	2.52	2.40	2.72	2.40	3.04	2.63	3.20	2.64	3.24	2.60	3.31	2.72	3.40	2.63	
43	2.52	2.40	2.71	2.40	2.94	2.59	3.06	2.59	3.09	2.55	3.16	2.65	3.23	2.58	

Model **FDUM45KXE6**

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.92	3.39	4.68	3.83	5.07	3.90	5.39	3.94	6.04	4.27	6.27	4.17
	12			3.92	3.39	4.68	3.83	5.07	3.90	5.38	3.94	6.02	4.26	6.24	4.16
	14			3.92	3.39	4.68	3.83	5.07	3.90	5.38	3.94	5.99	4.25	6.22	4.15
	16			3.92	3.39	4.68	3.83	5.07	3.90	5.37	3.94	5.97	4.24	6.19	4.12
	18			3.92	3.39	4.68	3.83	5.07	3.90	5.36	3.93	5.95	4.23	6.16	4.11
	20			3.92	3.39	4.68	3.83	5.07	3.90	5.35	3.93	5.93	4.23	6.13	4.10
	22			3.91	3.39	4.68	3.83	5.07	3.90	5.33	3.92	5.85	4.20	6.05	4.08
15.5 (m³/min)	24			3.91	3.39	4.68	3.83	5.07	3.90	5.30	3.91	5.78	4.16	5.97	4.05
	26			3.90	3.37	4.66	3.82	5.02	3.88	5.24	3.89	5.69	4.13	5.88	4.03
	28	3.54	3.34	3.90	3.37	4.64	3.80	4.97	3.86	5.18	3.86	5.60	4.10	5.78	4.00
	30	3.54	3.34	3.89	3.37	4.60	3.79	4.92	3.84	5.12	3.84	5.51	4.07	5.70	3.98
	32	3.54	3.34	3.88	3.37	4.56	3.77	4.88	3.82	5.06	3.82	5.43	4.05	5.61	3.94
	34	3.54	3.34	3.87	3.36	4.55	3.77	4.81	3.80	4.98	3.79	5.31	4.00	5.49	3.91
	35	3.54	3.34	3.86	3.36	4.54	3.77	4.78	3.78	4.94	3.77	5.25	3.98	5.44	3.89
	36	3.54	3.34	3.86	3.36	4.51	3.75	4.76	3.78	4.89	3.76	5.16	3.95	5.33	3.85
	38	3.54	3.34	3.85	3.35	4.44	3.72	4.71	3.76	4.80	3.72	4.97	3.89	5.12	3.79
	39	3.54	3.34	3.84	3.35	4.40	3.71	4.68	3.75	4.75	3.70	4.88	3.85	5.01	3.75
41	3.54	3.34	3.83	3.35	4.27	3.65	4.49	3.67	4.55	3.62	4.66	3.77	4.78	3.68	
43	3.54	3.34	3.82	3.34	4.14	3.59	4.30	3.58	4.35	3.53	4.44	3.70	4.54	3.61	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.							
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB			
Uhi	-19.8	-20	3.11	3.11	3.11	3.11	3.11			
	-17.8	-18	3.31	3.31	3.31	3.31	3.31			
	-15.7	-16	3.51	3.51	3.51	3.51	3.51			
	-13.7	-14	3.71	3.71	3.71	3.71	3.71			
	-11.7	-12	3.91	3.91	3.91	3.91	3.91			
	-9.6	-10	4.11	4.11	4.11	4.11	4.11			
	-7.5	-8	4.36	4.36	4.36	4.36	4.36			
	-5.5	-6	4.61	4.61	4.61	4.61	4.61			
	-3.4	-4	4.77	4.76	4.76	4.71	4.66			
	-1.3	-2	4.93	4.92	4.90	4.81	4.72			
15.5 (m³/min)	0.8	0	5.20	5.13	5.05	4.87	4.69			
	3.9	3	5.64	5.44	5.24	4.94	4.65			
	7.0	6	6.16	5.76	5.36	4.98	4.61			
	10.1	9	6.12	5.73	5.34	4.95	4.57			
	13.2	12	6.08	5.70	5.31	4.92	4.53			
	16.9	15.5	6.04	5.65	5.26	4.87	4.48			

Air flow	Outdoor air temp. ("°CDB")	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			3.69	3.14	4.41	3.55	4.77	3.62	5.07	3.67	5.68	3.96	5.90	3.85
	12			3.69	3.14	4.41	3.55	4.77	3.62	5.07	3.67	5.66	3.95	5.88	3.84
	14			3.69	3.14	4.41	3.55	4.77	3.62	5.06	3.66	5.64	3.95	5.85	3.83
	16			3.69	3.14	4.41	3.55	4.77	3.62	5.05	3.66	5.62	3.94	5.83	3.83
	18			3.69	3.14	4.41	3.55	4.77	3.62	5.05	3.66	5.60	3.91	5.80	3.82
	20			3.69	3.14	4.41	3.55	4.77	3.62	5.04	3.65	5.58	3.91	5.78	3.81
	22			3.68	3.14	4.41	3.55	4.77	3.62	5.02	3.64	5.51	3.88	5.70	3.79
	24			3.68	3.14	4.41	3.55	4.77	3.62	4.99	3.63	5.44	3.86	5.62	3.77
	26			3.68	3.14	4.39	3.54	4.73	3.60	4.93	3.61	5.35	3.83	5.53	3.74
	28	3.33	3.10	3.67	3.14	4.37	3.53	4.68	3.59	4.88	3.59	5.27	3.81	5.44	3.71
14 (m³/min)	30	3.33	3.10	3.66	3.13	4.33	3.51	4.64	3.57	4.82	3.56	5.19	3.78	5.36	3.68
	32	3.33	3.10	3.65	3.12	4.30	3.49	4.59	3.55	4.76	3.54	5.11	3.75	5.28	3.66
	34	3.33	3.10	3.64	3.12	4.28	3.48	4.53	3.52	4.69	3.51	5.00	3.71	5.17	3.62
	35	3.33	3.10	3.64	3.12	4.28	3.48	4.50	3.51	4.65	3.50	4.95	3.69	5.12	3.61
	36	3.33	3.10	3.63	3.11	4.24	3.46	4.48	3.51	4.60	3.48	4.86	3.66	5.02	3.57
	38	3.33	3.10	3.62	3.11	4.18	3.44	4.43	3.48	4.52	3.43	4.68	3.60	4.82	3.50
	39	3.33	3.10	3.62	3.11	4.15	3.43	4.41	3.46	4.47	3.41	4.59	3.56	4.72	3.48
	41	3.33	3.10	3.61	3.10	4.02	3.38	4.23	3.40	4.28	3.35	4.39	3.49	4.50	3.40
	43	3.33	3.10	3.59	3.10	3.90	3.34	4.05	3.33	4.09	3.29	4.18	3.42	4.28	3.33

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.90	2.90	2.90	2.90	2.90	
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	
	-3.4	-4	4.45	4.44	4.44	4.39	4.35	
	-1.3	-2	4.60	4.59	4.58	4.49	4.40	
14 (m³/min)	0.8	0	4.85	4.78	4.71	4.54	4.38	
	3.9	3	5.26	5.08	4.89	4.61	4.34	
	7.0	6	5.75	5.38	5.00	4.65	4.30	
	10.1	9	5.71	5.35	4.98	4.62	4.26	
	13.2	12	5.68	5.31	4.95	4.59	4.23	
	16.9	15.5	5.63	5.27	4.91	4.54	4.18	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			3.34	2.77	4.00	3.14	4.32	3.22	4.60	3.26	5.15	3.52	5.35	3.42
	12			3.34	2.77	4.00	3.14	4.32	3.22	4.60	3.26	5.14	3.52	5.33	3.41
	14			3.34	2.77	4.00	3.14	4.32	3.22	4.59	3.25	5.12	3.51	5.31	3.41
	16			3.34	2.77	4.00	3.14	4.32	3.22	4.58	3.25	5.10	3.48	5.28	3.40
	18			3.34	2.77	4.00	3.14	4.32	3.22	4.58	3.25	5.08	3.48	5.26	3.39
	20			3.34	2.77	4.00	3.14	4.32	3.22	4.57	3.25	5.06	3.47	5.24	3.39
12 (m³/min)	22			3.34	2.77	4.00	3.14	4.32	3.22	4.55	3.24	5.00	3.45	5.16	3.36
	24			3.33	2.77	3.99	3.14	4.32	3.22	4.53	3.23	4.93	3.43	5.09	3.34
	26			3.33	2.77	3.98	3.13	4.28	3.20	4.47	3.20	4.86	3.41	5.02	3.32
	28	3.02	2.74	3.33	2.77	3.96	3.13	4.24	3.18	4.42	3.19	4.78	3.38	4.94	3.29
	30	3.02	2.74	3.32	2.77	3.93	3.12	4.20	3.15	4.37	3.17	4.70	3.35	4.86	3.27
	32	3.02	2.74	3.31	2.76	3.90	3.10	4.16	3.14	4.32	3.13	4.63	3.33	4.79	3.24
	34	3.02	2.74	3.30	2.76	3.88	3.10	4.11	3.12	4.25	3.11	4.53	3.29	4.69	3.21
	35	3.02	2.74	3.30	2.76	3.88	3.10	4.08	3.10	4.21	3.09	4.48	3.27	4.64	3.19
36	3.02	2.74	3.29	2.75	3.85	3.09	4.06	3.10	4.17	3.08	4.40	3.24	4.55	3.16	
38	3.02	2.74	3.28	2.75	3.79	3.06	4.02	3.09	4.09	3.05	4.24	3.18	4.37	3.10	
39	3.02	2.74	3.28	2.75	3.76	3.05	4.00	3.08	4.05	3.04	4.16	3.16	4.28	3.07	
41	3.02	2.74	3.27	2.75	3.65	3.00	3.84	3.02	3.88	2.97	3.98	3.09	4.08	3.01	
43	3.02	2.74	3.26	2.74	3.53	2.95	3.67	2.96	3.71	2.91	3.79	3.03	3.88	2.94	

Model **FDUM56KXE6** Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			4.91	3.92	5.87	4.44	6.35	4.54	6.76	4.61	7.57	4.97	7.86	4.84
	12			4.91	3.92	5.87	4.44	6.35	4.54	6.75	4.60	7.54	4.96	7.82	4.82
	14			4.91	3.92	5.87	4.44	6.35	4.54	6.74	4.60	7.51	4.95	7.79	4.81
	16			4.91	3.92	5.87	4.44	6.35	4.54	6.73	4.60	7.48	4.94	7.76	4.80
	18			4.91	3.92	5.87	4.44	6.35	4.54	6.72	4.59	7.46	4.93	7.72	4.79
	20			4.91	3.92	5.87	4.44	6.35	4.54	6.71	4.58	7.43	4.92	7.69	4.78
	22			4.90	3.92	5.87	4.44	6.35	4.54	6.68	4.57	7.34	4.88	7.58	4.74
	24			4.90	3.92	5.86	4.43	6.35	4.54	6.65	4.56	7.24	4.84	7.48	4.71
	26			4.89	3.91	5.84	4.42	6.29	4.52	6.57	4.53	7.13	4.80	7.36	4.66
	28	4.43	3.86	4.89	3.91	5.81	4.41	6.23	4.49	6.49	4.49	7.01	4.75	7.25	4.63
15.5 (m³/min)	30	4.43	3.86	4.88	3.91	5.77	4.39	6.17	4.46	6.42	4.47	6.91	4.72	7.14	4.58
	32	4.43	3.86	4.86	3.90	5.72	4.37	6.11	4.44	6.34	4.43	6.80	4.67	7.03	4.55
	34	4.43	3.86	4.85	3.90	5.70	4.36	6.03	4.41	6.24	4.39	6.66	4.62	6.89	4.50
	35	4.43	3.86	4.84	3.89	5.69	4.36	5.99	4.37	6.19	4.37	6.58	4.59	6.81	4.47
	36	4.43	3.86	4.83	3.89	5.65	4.34	5.96	4.37	6.13	4.34	6.47	4.55	6.68	4.43
	38	4.43	3.86	4.82	3.88	5.56	4.30	5.90	4.35	6.01	4.30	6.23	4.46	6.42	4.34
	39	4.43	3.86	4.82	3.88	5.52	4.29	5.87	4.34	5.95	4.28	6.11	4.41	6.28	4.27
	41	4.43	3.86	4.80	3.87	5.35	4.21	5.63	4.24	5.70	4.18	5.84	4.30	5.99	4.18
	43	4.43	3.86	4.78	3.87	5.19	4.14	5.39	4.14	5.45	4.08	5.57	4.21	5.69	4.09

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi	-19.8	-20	3.96	3.96	3.96	3.96	3.96
	-17.8	-18	4.22	4.22	4.22	4.22	4.22
	-15.7	-16	4.47	4.47	4.47	4.47	4.47
	-13.7	-14	4.73	4.73	4.73	4.73	4.73
	-11.7	-12	4.98	4.98	4.98	4.98	4.98
	-9.6	-10	5.24	5.24	5.24	5.24	5.24
	-7.5	-8	5.56	5.56	5.56	5.56	5.56
	-5.5	-6	5.87	5.87	5.87	5.87	5.87
	-3.4	-4	6.08	6.07	6.06	6.00	5.94
	-1.3	-2	6.28	6.27	6.25	6.13	6.01
15.5 (m/min)	0.8	0	6.63	6.53	6.44	6.21	5.98
	3.9	3	7.19	6.93	6.68	6.30	5.93
	7.0	6	7.85	7.34	6.83	6.35	5.87
	10.1	9	7.80	7.30	6.80	6.31	5.82
	13.2	12	7.75	7.26	6.76	6.27	5.77
	16.9	15.5	7.69	7.20	6.70	6.21	5.71

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			4.59	3.61	5.49	4.09	5.94	4.19	6.32	4.25	7.07	4.57	7.35	4.46
	12			4.59	3.61	5.49	4.09	5.94	4.19	6.31	4.25	7.05	4.56	7.31	4.44
	14			4.59	3.61	5.49	4.09	5.94	4.19	6.30	4.24	7.02	4.55	7.28	4.43
	16			4.59	3.61	5.49	4.09	5.94	4.19	6.29	4.24	7.00	4.54	7.25	4.42
	18			4.59	3.61	5.49	4.09	5.94	4.19	6.28	4.24	6.97	4.53	7.22	4.41
14 (m³/min)	20			4.59	3.61	5.49	4.09	5.94	4.19	6.27	4.23	6.95	4.53	7.19	4.40
	22			4.58	3.61	5.49	4.09	5.94	4.19	6.24	4.22	6.86	4.49	7.09	4.37
	24			4.58	3.61	5.48	4.09	5.94	4.19	6.21	4.20	6.77	4.46	6.99	4.33
	26			4.57	3.60	5.46	4.07	5.88	4.16	6.14	4.18	6.66	4.42	6.88	4.29
	28	4.14	3.55	4.57	3.60	5.43	4.06	5.82	4.14	6.07	4.14	6.56	4.38	6.78	4.26
	30	4.14	3.55	4.56	3.60	5.39	4.05	5.77	4.12	6.00	4.12	6.46	4.34	6.67	4.22
	32	4.14	3.55	4.55	3.60	5.35	4.03	5.71	4.09	5.93	4.09	6.36	4.30	6.57	4.19
	34	4.14	3.55	4.53	3.59	5.33	4.02	5.64	4.06	5.83	4.05	6.22	4.25	6.44	4.14
	35	4.14	3.55	4.52	3.58	5.32	4.02	5.60	4.03	5.79	4.03	6.16	4.22	6.37	4.12
36	4.14	3.55	4.52	3.58	5.28	4.00	5.57	4.03	5.73	4.01	6.05	4.19	6.25	4.07	
38	4.14	3.55	4.51	3.57	5.20	3.96	5.52	4.01	5.62	3.96	5.82	4.10	6.00	3.99	
39	4.14	3.55	4.50	3.57	5.16	3.95	5.49	4.00	5.56	3.94	5.71	4.06	5.87	3.94	
41	4.14	3.55	4.49	3.56	5.00	3.88	5.26	3.90	5.33	3.84	5.46	3.97	5.60	3.83	
43	4.14	3.55	4.47	3.56	4.85	3.81	5.04	3.81	5.10	3.75	5.21	3.86	5.32	3.75	

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	3.65	3.65	3.65	3.65	3.65
	-17.8	-18	3.89	3.89	3.89	3.89	3.89
	-15.7	-16	4.12	4.12	4.12	4.12	4.12
	-13.7	-14	4.36	4.36	4.36	4.36	4.36
	-11.7	-12	4.59	4.59	4.59	4.59	4.59
	-9.6	-10	4.83	4.83	4.83	4.83	4.83
	-7.5	-8	5.12	5.12	5.12	5.12	5.12
	-5.5	-6	5.42	5.42	5.42	5.42	5.42
	-3.4	-4	5.61	5.60	5.59	5.54	5.48
	-1.3	-2	5.80	5.78	5.76	5.65	5.54
14 (m³/min)	0.8	0	6.11	6.02	5.94	5.73	5.51
	3.9	3	6.63	6.39	6.16	5.81	5.47
	7.0	6	7.25	6.77	6.30	5.86	5.42
	10.1	9	7.20	6.74	6.28	5.82	5.37
	13.2	12	7.15	6.69	6.24	5.78	5.32
	16.9	15.5	7.10	6.64	6.18	5.73	5.27

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			4.11	3.19	4.92	3.62	5.32	3.70	5.66	3.76	6.34	4.05	6.58	3.95
	12			4.11	3.19	4.92	3.62	5.32	3.70	5.65	3.76	6.32	4.04	6.56	3.94
	14			4.11	3.19	4.92	3.62	5.32	3.70	5.65	3.76	6.30	4.04	6.53	3.93
	16			4.11	3.19	4.92	3.62	5.32	3.70	5.64	3.75	6.27	4.03	6.50	3.92
	18			4.11	3.19	4.92	3.62	5.32	3.70	5.63	3.75	6.25	4.02	6.47	3.90
	20			4.11	3.19	4.92	3.62	5.32	3.70	5.62	3.75	6.23	4.01	6.44	3.89
	22			4.11	3.19	4.92	3.62	5.32	3.70	5.60	3.73	6.15	3.98	6.35	3.86
	24			4.10	3.18	4.92	3.62	5.32	3.70	5.57	3.72	6.07	3.95	6.27	3.83
	26			4.10	3.18	4.89	3.60	5.27	3.68	5.51	3.70	5.97	3.91	6.17	3.79
	28	3.71	3.14	4.10	3.18	4.87	3.59	5.22	3.66	5.44	3.67	5.88	3.88	6.07	3.76
12 (m³/min)	30	3.71	3.14	4.09	3.18	4.83	3.58	5.17	3.64	5.38	3.64	5.79	3.84	5.98	3.73
	32	3.71	3.14	4.08	3.17	4.79	3.56	5.12	3.62	5.31	3.62	5.70	3.80	5.89	3.70
	34	3.71	3.14	4.06	3.17	4.78	3.56	5.05	3.59	5.23	3.58	5.58	3.76	5.77	3.65
	35	3.71	3.14	4.06	3.17	4.77	3.55	5.02	3.56	5.19	3.56	5.52	3.73	5.71	3.63
	36	3.71	3.14	4.05	3.16	4.73	3.53	4.99	3.56	5.14	3.54	5.42	3.70	5.60	3.59
	38	3.71	3.14	4.04	3.16	4.66	3.50	4.94	3.54	5.04	3.50	5.22	3.61	5.38	3.52
	39	3.71	3.14	4.04	3.16	4.63	3.49	4.92	3.53	4.99	3.48	5.12	3.58	5.27	3.46
	41	3.71	3.14	4.02	3.15	4.49	3.42	4.72	3.45	4.78	3.39	4.89	3.48	5.02	3.39
	43	3.71	3.14	4.01	3.14	4.35	3.36	4.52	3.36	4.57	3.30	4.67	3.41	4.77	3.31

Model FDUM71KXE6

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			6.24	4.99	7.46	5.64	8.07	5.78	8.58	5.84	9.61	6.32	9.98	6.14
	12			6.24	4.99	7.46	5.64	8.07	5.78	8.57	5.84	9.58	6.29	9.94	6.13
	14			6.24	4.99	7.46	5.64	8.07	5.78	8.56	5.83	9.54	6.27	9.90	6.11
	16			6.24	4.99	7.46	5.64	8.07	5.78	8.55	5.83	9.51	6.26	9.85	6.10
	18			6.24	4.99	7.46	5.64	8.07	5.78	8.54	5.83	9.47	6.25	9.81	6.09
	20			6.24	4.99	7.46	5.64	8.07	5.78	8.52	5.82	9.44	6.24	9.77	6.07
20 (m³/min)	22			6.23	4.99	7.45	5.64	8.07	5.78	8.48	5.80	9.32	6.20	9.63	6.03
	24			6.22	4.99	7.45	5.64	8.07	5.78	8.44	5.79	9.20	6.16	9.50	5.99
	26			6.22	4.99	7.42	5.63	7.99	5.75	8.35	5.76	9.06	6.11	9.35	5.93
	28	5.63	4.91	6.21	4.98	7.38	5.61	7.91	5.72	8.25	5.72	8.91	6.05	9.21	5.88
	30	5.63	4.91	6.19	4.97	7.32	5.59	7.84	5.68	8.15	5.68	8.77	6.00	9.07	5.84
	32	5.63	4.91	6.18	4.97	7.27	5.57	7.76	5.65	8.05	5.64	8.64	5.95	8.93	5.78
	34	5.63	4.91	6.16	4.95	7.24	5.56	7.66	5.61	7.93	5.59	8.46	5.88	8.75	5.73
	35	5.63	4.91	6.15	4.95	7.23	5.54	7.61	5.56	7.86	5.57	8.37	5.85	8.66	5.69
	36	5.63	4.91	6.14	4.94	7.17	5.52	7.57	5.57	7.79	5.53	8.21	5.78	8.49	5.64
	38	5.63	4.91	6.13	4.94	7.07	5.48	7.50	5.54	7.64	5.48	7.91	5.67	8.15	5.53
39	5.63	4.91	6.12	4.93	7.01	5.46	7.46	5.53	7.56	5.44	7.76	5.62	7.98	5.46	
41	5.63	4.91	6.10	4.93	6.80	5.37	7.15	5.40	7.24	5.31	7.42	5.50	7.61	5.34	
43	5.63	4.91	6.08	4.92	6.59	5.27	6.85	5.27	6.92	5.19	7.07	5.34	7.23	5.19	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	5.05	5.05	5.05	5.05	5.05	
	-17.8	-18	5.37	5.37	5.37	5.37	5.37	
	-15.7	-16	5.70	5.70	5.70	5.70	5.70	
	-13.7	-14	6.02	6.02	6.02	6.02	6.02	
	-11.7	-12	6.35	6.35	6.35	6.35	6.35	
	-9.6	-10	6.67	6.67	6.67	6.67	6.67	
	-7.5	-8	7.08	7.08	7.08	7.08	7.08	
	-5.5	-6	7.48	7.48	7.48	7.48	7.48	
	-3.4	-4	7.74	7.73	7.72	7.65	7.57	
	-1.3	-2	8.00	7.98	7.96	7.81	7.66	
20 (m³/min)	0.8	0	8.44	8.32	8.20	7.91	7.61	
	3.9	3	9.16	8.83	8.50	8.03	7.55	
	7.0	6	10.01	9.35	8.70	8.09	7.48	
	10.1	9	9.94	9.30	8.67	8.04	7.42	
	13.2	12	9.87	9.24	8.61	7.98	7.35	
	16.9	15.5	9.80	9.17	8.54	7.91	7.28	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	4.59	6.96	5.19	7.53	5.30	8.01	5.39	8.97	5.82	9.31	5.66
	12			5.82	4.59	6.96	5.19	7.53	5.30	8.00	5.39	8.94	5.81	9.27	5.65
	14			5.82	4.59	6.96	5.19	7.53	5.30	7.99	5.38	8.90	5.79	9.23	5.63
	16			5.82	4.59	6.96	5.19	7.53	5.30	7.97	5.38	8.87	5.78	9.19	5.62
	18			5.82	4.59	6.96	5.19	7.53	5.30	7.96	5.37	8.84	5.77	9.15	5.61
	20			5.82	4.59	6.96	5.19	7.53	5.30	7.95	5.37	8.81	5.75	9.11	5.57
	22			5.81	4.58	6.95	5.19	7.53	5.30	7.92	5.36	8.70	5.71	8.99	5.53
	24			5.80	4.57	6.95	5.19	7.53	5.30	7.88	5.34	8.58	5.64	8.86	5.49
	26			5.80	4.57	6.92	5.17	7.46	5.28	7.79	5.28	8.45	5.60	8.73	5.45
	28	5.25	4.51	5.79	4.57	6.89	5.16	7.38	5.25	7.69	5.25	8.31	5.55	8.59	5.40
18 (m³/min)	30	5.25	4.51	5.78	4.56	6.83	5.13	7.31	5.22	7.60	5.21	8.19	5.51	8.46	5.35
	32	5.25	4.51	5.77	4.56	6.78	5.11	7.24	5.19	7.51	5.18	8.06	5.46	8.33	5.31
	34	5.25	4.51	5.75	4.55	6.76	5.11	7.15	5.16	7.39	5.13	7.89	5.40	8.16	5.25
	35	5.25	4.51	5.74	4.55	6.75	5.10	7.10	5.11	7.33	5.11	7.80	5.36	8.08	5.23
	36	5.25	4.51	5.73	4.54	6.69	5.07	7.06	5.11	7.26	5.08	7.66	5.31	7.92	5.17
	38	5.25	4.51	5.72	4.54	6.59	5.03	6.99	5.09	7.12	5.03	7.38	5.20	7.61	5.07
	39	5.25	4.51	5.71	4.53	6.54	5.01	6.96	5.08	7.05	4.99	7.24	5.15	7.45	5.01
	41	5.25	4.51	5.69	4.53	6.35	4.93	6.67	4.96	6.76	4.88	6.92	5.04	7.10	4.89
	43	5.25	4.51	5.67	4.52	6.15	4.84	6.39	4.83	6.46	4.76	6.60	4.92	6.75	4.75

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64	
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
18 (m³/min)	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
	7.0	6	9.20	8.60	8.00	7.44	6.88	
	10.1	9	9.14	8.56	7.97	7.40	6.82	
	13.2	12	9.08	8.50	7.92	7.34	6.76	
	16.9	15.5	9.01	8.43	7.85	7.27	6.69	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			5.37	4.17	6.42	4.71	6.94	4.83	7.39	4.91	8.27	5.29	8.59	5.15
	12			5.37	4.17	6.42	4.71	6.94	4.83	7.38	4.91	8.24	5.28	8.55	5.13
	14			5.37	4.17	6.42	4.71	6.94	4.83	7.37	4.90	8.21	5.27	8.52	5.13
	16			5.37	4.17	6.42	4.71	6.94	4.83	7.36	4.90	8.18	5.26	8.48	5.11
	18			5.37	4.17	6.42	4.71	6.94	4.83	7.35	4.89	8.15	5.24	8.44	5.09
	20			5.37	4.17	6.42	4.71	6.94	4.83	7.34	4.89	8.12	5.23	8.41	5.08
	22			5.36	4.16	6.42	4.71	6.94	4.83	7.30	4.87	8.02	5.19	8.29	5.03
	24			5.35	4.15	6.41	4.71	6.94	4.83	7.27	4.86	7.92	5.15	8.18	5.00
	26			5.35	4.15	6.38	4.69	6.88	4.81	7.18	4.82	7.79	5.10	8.05	4.93
	28	4.85	4.10	5.34	4.15	6.35	4.68	6.81	4.78	7.10	4.79	7.67	5.03	7.93	4.90
16 (m³/min)	30	4.85	4.10	5.33	4.15	6.30	4.66	6.75	4.74	7.02	4.75	7.55	4.99	7.81	4.86
	32	4.85	4.10	5.32	4.14	6.26	4.65	6.68	4.71	6.93	4.70	7.44	4.95	7.69	4.82
	34	4.85	4.10	5.30	4.13	6.23	4.63	6.59	4.67	6.82	4.66	7.28	4.90	7.53	4.76
	35	4.85	4.10	5.29	4.13	6.22	4.63	6.55	4.65	6.77	4.64	7.20	4.87	7.45	4.74
	36	4.85	4.10	5.29	4.13	6.18	4.61	6.52	4.65	6.70	4.61	7.07	4.82	7.31	4.69
	38	4.85	4.10	5.27	4.12	6.08	4.57	6.45	4.62	6.57	4.56	6.81	4.72	7.02	4.59
	39	4.85	4.10	5.27	4.12	6.03	4.55	6.42	4.61	6.51	4.54	6.68	4.67	6.87	4.53
	41	4.85	4.10	5.25	4.11	5.85	4.47	6.16	4.50	6.23	4.42	6.39	4.57	6.55	4.43
	43	4.85	4.10	5.23	4.10	5.67	4.39	5.90	4.39	5.96	4.32	6.09	4.45	6.23	4.31

Model **FDUM90KXE6**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			7.83	5.86	9.36	6.65	10.12	6.82	10.77	6.93	12.06	7.47	12.53	7.27
	12			7.83	5.86	9.36	6.65	10.12	6.82	10.76	6.93	12.02	7.45	12.47	7.24
	14			7.83	5.86	9.36	6.65	10.12	6.82	10.74	6.92	11.98	7.44	12.42	7.23
	16			7.83	5.86	9.36	6.65	10.12	6.82	10.73	6.91	11.93	7.42	12.36	7.21
	18			7.83	5.86	9.36	6.65	10.12	6.82	10.71	6.91	11.89	7.41	12.31	7.18
	20			7.83	5.86	9.36	6.65	10.12	6.82	10.70	6.90	11.85	7.39	12.26	7.17
	22			7.82	5.85	9.35	6.64	10.12	6.82	10.65	6.89	11.70	7.33	12.09	7.10
	24			7.81	5.85	9.35	6.64	10.12	6.82	10.60	6.87	11.55	7.27	11.92	7.04
	26			7.80	5.84	9.31	6.63	10.03	6.79	10.47	6.81	11.36	7.18	11.74	6.97
	28	7.07	5.74	7.79	5.84	9.26	6.60	9.93	6.74	10.35	6.75	11.18	7.11	11.56	6.90
22 (m/min)	30	7.07	5.74	7.77	5.83	9.19	6.57	9.84	6.69	10.23	6.70	11.01	7.04	11.38	6.84
	32	7.07	5.74	7.75	5.82	9.12	6.53	9.74	6.66	10.11	6.65	10.84	6.97	11.21	6.75
	34	7.07	5.74	7.73	5.81	9.09	6.52	9.61	6.59	9.95	6.58	10.61	6.86	10.98	6.68
	35	7.07	5.74	7.72	5.81	9.07	6.51	9.55	6.59	9.87	6.54	10.50	6.82	10.86	6.64
	36	7.07	5.74	7.71	5.81	9.00	6.48	9.50	6.54	9.77	6.51	10.31	6.76	10.65	6.57
	38	7.07	5.74	7.69	5.80	8.87	6.42	9.41	6.51	9.58	6.43	9.93	6.61	10.23	6.42
	39	7.07	5.74	7.68	5.79	8.80	6.37	9.36	6.49	9.49	6.38	9.74	6.54	10.02	6.34
	41	7.07	5.74	7.65	5.77	8.54	6.27	8.98	6.30	9.09	6.21	9.31	6.37	9.55	6.18
	43	7.07	5.74	7.62	5.76	8.27	6.16	8.60	6.16	8.69	6.05	8.88	6.21	9.08	5.99

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	6.25	6.25	6.25	6.25	6.25	
	-17.8	-18	6.65	6.65	6.65	6.65	6.65	
	-15.7	-16	7.05	7.05	7.05	7.05	7.05	
	-13.7	-14	7.45	7.45	7.45	7.45	7.45	
	-11.7	-12	7.85	7.85	7.85	7.85	7.85	
	-9.6	-10	8.26	8.26	8.26	8.26	8.26	
	-7.5	-8	8.76	8.76	8.76	8.76	8.76	
	-5.5	-6	9.26	9.26	9.26	9.26	9.26	
	-3.4	-4	9.59	9.57	9.56	9.46	9.37	
	-1.3	-2	9.91	9.88	9.85	9.67	9.48	
22 (m/min)	0.8	0	10.45	10.30	10.15	9.79	9.42	
	3.9	3	11.34	10.93	10.53	9.94	9.34	
	7.0	6	12.39	11.58	10.77	10.02	9.26	
	10.1	9	12.30	11.52	10.73	9.96	9.18	
	13.2	12	12.22	11.44	10.66	9.88	9.10	
	16.9	15.5	12.13	11.35	10.57	9.79	9.01	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			7.38	5.45	8.82	6.19	9.54	6.35	10.15	6.47	11.37	6.97	11.80	6.77
	12			7.38	5.45	8.82	6.19	9.54	6.35	10.14	6.47	11.33	6.95	11.75	6.75
	14			7.38	5.45	8.82	6.19	9.54	6.35	10.12	6.45	11.29	6.94	11.70	6.71
	16			7.38	5.45	8.82	6.19	9.54	6.35	10.11	6.45	11.25	6.92	11.65	6.69
	18			7.38	5.45	8.82	6.19	9.54	6.35	10.09	6.44	11.20	6.90	11.60	6.68
	20			7.38	5.45	8.82	6.19	9.54	6.35	10.08	6.44	11.16	6.89	11.55	6.66
20 (m/min)	22			7.37	5.45	8.82	6.19	9.54	6.35	10.03	6.42	11.02	6.81	11.39	6.61
	24			7.36	5.45	8.81	6.18	9.54	6.35	9.99	6.39	10.88	6.76	11.24	6.56
	26			7.35	5.44	8.77	6.17	9.45	6.32	9.87	6.33	10.71	6.69	11.06	6.48
	28	6.66	5.35	7.34	5.44	8.73	6.14	9.36	6.27	9.75	6.29	10.54	6.62	10.89	6.41
	30	6.66	5.35	7.33	5.43	8.66	6.11	9.27	6.24	9.64	6.24	10.38	6.56	10.73	6.35
	32	6.66	5.35	7.31	5.41	8.60	6.09	9.18	6.19	9.53	6.19	10.22	6.49	10.56	6.29
	34	6.66	5.35	7.28	5.40	8.57	6.07	9.06	6.14	9.37	6.12	10.00	6.40	10.35	6.22
	35	6.66	5.35	7.27	5.40	8.55	6.06	9.00	6.12	9.30	6.09	9.89	6.35	10.24	6.15
	36	6.66	5.35	7.26	5.39	8.49	6.04	8.96	6.10	9.21	6.05	9.72	6.26	10.04	6.09
38	6.66	5.35	7.25	5.39	8.36	5.97	8.87	6.06	9.03	5.98	9.36	6.14	9.64	5.95	
39	6.66	5.35	7.24	5.39	8.29	5.94	8.82	6.04	8.94	5.94	9.18	6.07	9.44	5.87	
41	6.66	5.35	7.21	5.37	8.04	5.81	8.46	5.87	8.56	5.78	8.77	5.90	9.00	5.72	
43	6.66	5.35	7.19	5.36	7.80	5.71	8.10	5.71	8.19	5.61	8.37	5.75	8.56	5.57	

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	5.80	5.80	5.80	5.80	5.80
	-17.8	-18	6.17	6.17	6.17	6.17	6.17
	-15.7	-16	6.55	6.55	6.55	6.55	6.55
	-13.7	-14	6.92	6.92	6.92	6.92	6.92
	-11.7	-12	7.29	7.29	7.29	7.29	7.29
	-9.6	-10	7.67	7.67	7.67	7.67	7.67
	-7.5	-8	8.13	8.13	8.13	8.13	8.13
	-5.5	-6	8.60	8.60	8.60	8.60	8.60
	-3.4	-4	8.90	8.89	8.88	8.79	8.70
	-1.3	-2	9.20	9.18	9.15	8.98	8.80
20 (m³/min)	0.8	0	9.70	9.56	9.43	9.09	8.75
	3.9	3	10.53	10.15	9.78	9.23	8.68
	7.0	6	11.50	10.75	10.00	9.30	8.60
	10.1	9	11.43	10.69	9.96	9.24	8.53
	13.2	12	11.35	10.63	9.90	9.18	8.45
	16.9	15.5	11.26	10.54	9.81	9.09	8.36

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			6.89	5.02	8.23	5.70	8.90	5.87	9.47	5.98	10.61	6.44	11.02	6.25
	12			6.89	5.02	8.23	5.70	8.90	5.87	9.46	5.98	10.57	6.43	10.97	6.23
	14			6.89	5.02	8.23	5.70	8.90	5.87	9.45	5.96	10.53	6.40	10.92	6.22
	16			6.89	5.02	8.23	5.70	8.90	5.87	9.43	5.96	10.50	6.39	10.88	6.20
	18			6.89	5.02	8.23	5.70	8.90	5.87	9.42	5.95	10.46	6.38	10.83	6.18
	20			6.89	5.02	8.23	5.70	8.90	5.87	9.41	5.95	10.42	6.36	10.78	6.15
	22			6.88	5.02	8.23	5.70	8.90	5.87	9.37	5.93	10.29	6.30	10.63	6.10
	24			6.87	5.01	8.22	5.70	8.90	5.87	9.32	5.91	10.16	6.25	10.49	6.03
	26			6.86	5.01	8.19	5.69	8.82	5.84	9.21	5.86	10.00	6.17	10.33	5.98
	28	6.22	4.93	6.85	5.01	8.15	5.67	8.74	5.80	9.10	5.80	9.84	6.10	10.16	5.91
18 (m/min)	30	6.22	4.93	6.84	5.00	8.09	5.64	8.65	5.74	9.00	5.76	9.69	6.05	10.01	5.86
	32	6.22	4.93	6.82	4.99	8.02	5.61	8.57	5.71	8.89	5.70	9.54	5.98	9.86	5.80
	34	6.22	4.93	6.80	4.98	7.99	5.59	8.46	5.67	8.75	5.65	9.33	5.90	9.66	5.72
	35	6.22	4.93	6.79	4.98	7.98	5.58	8.40	5.63	8.68	5.62	9.23	5.85	9.55	5.68
	36	6.22	4.93	6.78	4.98	7.92	5.56	8.36	5.62	8.59	5.58	9.07	5.79	9.37	5.61
	38	6.22	4.93	6.76	4.97	7.80	5.50	8.27	5.58	8.43	5.51	8.74	5.63	9.00	5.47
	39	6.22	4.93	6.75	4.96	7.74	5.48	8.23	5.56	8.34	5.47	8.57	5.58	8.81	5.40
	41	6.22	4.93	6.73	4.95	7.51	5.37	7.90	5.41	7.99	5.32	8.19	5.43	8.40	5.26
	43	6.22	4.93	6.71	4.94	7.28	5.26	7.56	5.26	7.64	5.15	7.81	5.29	7.99	5.11

Model **FDUM112KXE6** Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			9.88	7.75	11.81	8.78	12.77	8.99	13.59	9.12	15.22	9.85	15.81	9.59
	12			9.88	7.75	11.81	8.78	12.77	8.99	13.57	9.12	15.17	9.82	15.74	9.55
	14			9.88	7.75	11.81	8.78	12.77	8.99	13.55	9.11	15.11	9.80	15.67	9.53
	16			9.88	7.75	11.81	8.78	12.77	8.99	13.53	9.10	15.06	9.78	15.60	9.51
	18			9.88	7.75	11.81	8.78	12.77	8.99	13.52	9.10	15.00	9.76	15.53	9.49
	20			9.88	7.75	11.81	8.78	12.77	8.99	13.50	9.09	14.95	9.74	15.46	9.45
	22			9.86	7.74	11.80	8.78	12.77	8.99	13.43	9.06	14.76	9.66	15.25	9.38
31 (m³/min)	24			9.85	7.74	11.80	8.78	12.77	8.99	13.37	9.03	14.57	9.58	15.04	9.30
	26			9.84	7.74	11.74	8.75	12.65	8.94	13.21	8.97	14.34	9.49	14.81	9.22
	28	8.92	7.64	9.83	7.73	11.69	8.73	12.53	8.88	13.06	8.90	14.11	9.41	14.58	9.13
	30	8.92	7.64	9.81	7.72	11.60	8.68	12.41	8.84	12.91	8.84	13.89	9.32	14.36	9.06
	32	8.92	7.64	9.78	7.71	11.51	8.65	12.29	8.79	12.75	8.77	13.68	9.24	14.14	8.98
	34	8.92	7.64	9.75	7.70	11.47	8.63	12.13	8.72	12.55	8.68	13.39	9.12	13.85	8.84
	35	8.92	7.64	9.74	7.69	11.45	8.63	12.05	8.68	12.45	8.65	13.25	9.08	13.71	8.80
	36	8.92	7.64	9.72	7.69	11.36	8.58	11.99	8.66	12.33	8.60	13.01	8.95	13.44	8.72
	38	8.92	7.64	9.70	7.68	11.19	8.51	11.87	8.60	12.09	8.50	12.53	8.79	12.91	8.56
	39	8.92	7.64	9.69	7.67	11.10	8.47	11.81	8.58	11.97	8.46	12.29	8.71	12.64	8.46
	41	8.92	7.64	9.65	7.66	10.77	8.33	11.33	8.39	11.47	8.25	11.75	8.51	12.05	8.27
43	8.92	7.64	9.62	7.64	10.44	8.16	10.85	8.15	10.96	8.02	11.20	8.31	11.46	8.07	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	7.89	7.89	7.89	7.89	7.89	7.89
	-17.8	-18	8.40	8.40	8.40	8.40	8.40	8.40
	-15.7	-16	8.90	8.90	8.90	8.90	8.90	8.90
	-13.7	-14	9.41	9.41	9.41	9.41	9.41	9.41
	-11.7	-12	9.92	9.92	9.92	9.92	9.92	9.92
	-9.6	-10	10.43	10.43	10.43	10.43	10.43	10.43
	-7.5	-8	11.06	11.06	11.06	11.06	11.06	11.06
	-5.5	-6	11.70	11.70	11.70	11.70	11.70	11.70
	-3.4	-4	12.10	12.09	12.07	11.95	11.83	
	-1.3	-2	12.51	12.48	12.44	12.21	11.97	
31 (m ³ /min)	0.8	0	13.19	13.01	12.82	12.36	11.90	
	3.9	3	14.31	13.80	13.29	12.55	11.80	
	7.0	6	15.64	14.62	13.60	12.65	11.70	
	10.1	9	15.54	14.54	13.55	12.57	11.59	
	13.2	12	15.44	14.45	13.46	12.48	11.49	
	16.9	15.5	15.32	14.33	13.35	12.36	11.37	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			9.18	7.23	10.97	8.18	11.87	8.38	12.63	8.50	14.15	9.14	14.69	8.91
	12			9.18	7.23	10.97	8.18	11.87	8.38	12.61	8.49	14.10	9.12	14.63	8.89
	14			9.18	7.23	10.97	8.18	11.87	8.38	12.60	8.49	14.05	9.11	14.56	8.87
	16			9.18	7.23	10.97	8.18	11.87	8.38	12.58	8.48	14.00	9.09	14.50	8.85
	18			9.18	7.23	10.97	8.18	11.87	8.38	12.56	8.47	13.94	9.07	14.44	8.83
	20			9.18	7.23	10.97	8.18	11.87	8.38	12.55	8.47	13.89	9.05	14.37	8.80
	22			9.17	7.22	10.97	8.18	11.87	8.38	12.49	8.44	13.72	8.99	14.18	8.74
	24			9.15	7.21	10.97	8.18	11.87	8.38	12.43	8.41	13.54	8.93	13.98	8.67
	26			9.15	7.21	10.92	8.15	11.76	8.33	12.28	8.35	13.33	8.84	13.77	8.58
	28	8.29	7.11	9.14	7.21	10.86	8.12	11.65	8.28	12.14	8.29	13.11	8.76	13.55	8.52
28 (m³/min)	30	8.29	7.11	9.12	7.20	10.78	8.09	11.54	8.24	12.00	8.23	12.91	8.68	13.35	8.44
	32	8.29	7.11	9.09	7.19	10.70	8.06	11.42	8.18	11.85	8.17	12.71	8.60	13.15	8.37
	34	8.29	7.11	9.06	7.17	10.66	8.04	11.27	8.12	11.66	8.09	12.45	8.51	12.87	8.27
	35	8.29	7.11	9.05	7.17	10.64	8.03	11.20	8.06	11.57	8.06	12.31	8.45	12.74	8.23
	36	8.29	7.11	9.04	7.17	10.56	7.99	11.14	8.06	11.46	8.02	12.09	8.37	12.49	8.14
	38	8.29	7.11	9.02	7.15	10.40	7.93	11.03	8.02	11.24	7.92	11.65	8.21	12.00	7.97
	39	8.29	7.11	9.00	7.14	10.32	7.89	10.98	8.00	11.13	7.88	11.43	8.12	11.75	7.88
	41	8.29	7.11	8.97	7.12	10.01	7.76	10.53	7.81	10.66	7.68	10.92	7.93	11.20	7.67
	43	8.29	7.11	8.94	7.11	9.70	7.62	10.08	7.63	10.19	7.50	10.41	7.72	10.65	7.50

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	7.25	7.25	7.25	7.25	7.25	7.25
	-17.8	-18	7.72	7.72	7.72	7.72	7.72	7.72
	-15.7	-16	8.18	8.18	8.18	8.18	8.18	8.18
	-13.7	-14	8.65	8.65	8.65	8.65	8.65	8.65
	-11.7	-12	9.12	9.12	9.12	9.12	9.12	9.12
	-9.6	-10	9.58	9.58	9.58	9.58	9.58	9.58
	-7.5	-8	10.17	10.17	10.17	10.17	10.17	10.17
	-5.5	-6	10.75	10.75	10.75	10.75	10.75	10.75
	-3.4	-4	11.13	11.11	11.09	10.98	10.88	
	-1.3	-2	11.50	11.47	11.44	11.22	11.00	
28 (m ³ /min)	0.8	0	12.13	11.95	11.78	11.36	10.94	
	3.9	3	13.16	12.69	12.22	11.53	10.84	
	7.0	6	14.38	13.44	12.50	11.63	10.75	
	10.1	9	14.28	13.37	12.45	11.55	10.66	
	13.2	12	14.19	13.28	12.38	11.47	10.56	
	16.9	15.5	14.08	13.17	12.27	11.36	10.45	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			8.43	6.53	10.07	7.38	10.90	7.57	11.59	7.69	12.99	8.30	13.48	8.07
	12			8.43	6.53	10.07	7.38	10.90	7.57	11.58	7.68	12.94	8.27	13.43	8.05
	14			8.43	6.53	10.07	7.38	10.90	7.57	11.56	7.68	12.89	8.25	13.37	8.03
	16			8.43	6.53	10.07	7.38	10.90	7.57	11.55	7.67	12.85	8.24	13.31	8.01
	18			8.43	6.53	10.07	7.38	10.90	7.57	11.53	7.67	12.80	8.22	13.25	7.99
	20			8.43	6.53	10.07	7.38	10.90	7.57	11.52	7.66	12.75	8.21	13.19	7.96
	22			8.41	6.52	10.07	7.38	10.90	7.57	11.46	7.64	12.59	8.13	13.01	7.90
	24			8.40	6.52	10.07	7.38	10.90	7.57	11.41	7.61	12.43	8.07	12.83	7.83
	26			8.40	6.52	10.02	7.36	10.79	7.53	11.27	7.56	12.23	7.99	12.64	7.73
	28	7.61	6.42	8.39	6.51	9.97	7.34	10.69	7.49	11.14	7.50	12.04	7.92	12.44	7.66
25 (m³/min)	30	7.61	6.42	8.37	6.49	9.89	7.30	10.59	7.44	11.01	7.45	11.85	7.82	12.25	7.60
	32	7.61	6.42	8.35	6.49	9.82	7.28	10.49	7.38	10.88	7.38	11.67	7.75	12.07	7.55
	34	7.61	6.42	8.32	6.47	9.78	7.26	10.35	7.32	10.71	7.30	11.42	7.67	11.82	7.46
	35	7.61	6.42	8.31	6.47	9.77	7.26	10.28	7.30	10.62	7.26	11.30	7.63	11.69	7.42
	36	7.61	6.42	8.30	6.46	9.69	7.22	10.23	7.28	10.52	7.23	11.10	7.55	11.47	7.34
	38	7.61	6.42	8.28	6.46	9.55	7.16	10.13	7.24	10.31	7.15	10.69	7.40	11.01	7.18
	39	7.61	6.42	8.27	6.45	9.47	7.12	10.07	7.22	10.21	7.11	10.49	7.32	10.78	7.10
	41	7.61	6.42	8.24	6.44	9.19	7.00	9.66	7.05	9.78	6.93	10.02	7.15	10.28	6.93
43	7.61	6.42	8.21	6.43	8.90	6.88	9.25	6.87	9.35	6.76	9.56	6.97	9.77	6.77	

Model FDUM140KXE6

Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			12.36	9.58	14.78	10.84	15.98	11.12	17.01	11.29	19.05	12.17	19.78	11.85
	12			12.36	9.58	14.78	10.84	15.98	11.12	16.98	11.28	18.98	12.15	19.69	11.82
	14			12.36	9.58	14.78	10.84	15.98	11.12	16.96	11.27	18.91	12.12	19.61	11.73
	16			12.36	9.58	14.78	10.84	15.98	11.12	16.94	11.26	18.84	12.08	19.52	11.70
	18			12.36	9.58	14.78	10.84	15.98	11.12	16.91	11.25	18.77	12.06	19.44	11.68
	20			12.36	9.58	14.78	10.84	15.98	11.12	16.89	11.24	18.71	12.04	19.35	11.65
	22			12.34	9.57	14.77	10.84	15.98	11.12	16.81	11.19	18.47	11.90	19.09	11.57
	24			12.33	9.57	14.77	10.84	15.98	11.12	16.73	11.17	18.23	11.82	18.83	11.49
	26			12.32	9.56	14.70	10.81	15.83	11.06	16.54	11.10	17.94	11.72	18.54	11.39
	28	11.16	9.42	12.31	9.56	14.63	10.78	15.68	10.95	16.34	11.01	17.66	11.61	18.25	11.28
38 (m/min)	30	11.16	9.42	12.28	9.54	14.51	10.74	15.53	10.89	16.15	10.92	17.39	11.52	17.97	11.17
	32	11.16	9.42	12.24	9.53	14.40	10.68	15.38	10.84	15.96	10.81	17.12	11.41	17.70	11.09
	34	11.16	9.42	12.20	9.51	14.35	10.66	15.18	10.76	15.71	10.72	16.76	11.27	17.33	10.96
	35	11.16	9.42	12.18	9.50	14.33	10.65	15.08	10.71	15.58	10.67	16.58	11.19	17.15	10.89
	36	11.16	9.42	12.17	9.50	14.22	10.61	15.00	10.69	15.43	10.62	16.28	11.07	16.82	10.77
	38	11.16	9.42	12.14	9.47	14.00	10.50	14.85	10.64	15.13	10.50	15.68	10.86	16.15	10.55
	39	11.16	9.42	12.12	9.46	13.89	10.46	14.78	10.59	14.98	10.44	15.39	10.74	15.82	10.39
	41	11.16	9.42	12.08	9.44	13.48	10.28	14.18	10.35	14.35	10.18	14.70	10.46	15.08	10.17
	43	11.16	9.42	12.04	9.43	13.06	10.10	13.57	10.09	13.72	9.94	14.02	10.24	14.34	9.94

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi	-19.8	-20	10.12	10.12	10.12	10.12	10.12
	-17.8	-18	10.77	10.77	10.77	10.77	10.77
	-15.7	-16	11.42	11.42	11.42	11.42	11.42
	-13.7	-14	12.08	12.08	12.08	12.08	12.08
	-11.7	-12	12.73	12.73	12.73	12.73	12.73
	-9.6	-10	13.38	13.38	13.38	13.38	13.38
	-7.5	-8	14.19	14.19	14.19	14.19	14.19
	-5.5	-6	15.01	15.01	15.01	15.01	15.01
	-3.4	-4	15.53	15.51	15.49	15.33	15.18
	-1.3	-2	16.05	16.01	15.97	15.66	15.36
38 (m/min)	0.8	0	16.93	16.69	16.45	15.86	15.27
	3.9	3	18.37	17.71	17.06	16.10	15.14
	7.0	6	20.07	18.76	17.45	16.23	15.01
	10.1	9	19.94	18.66	17.38	16.13	14.88
	13.2	12	19.81	18.54	17.28	16.01	14.75
	16.9	15.5	19.65	18.39	17.12	15.86	14.59

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			11.48	8.80	13.72	9.97	14.84	10.21	15.79	10.39	17.69	11.20	18.36	10.85
	12			11.48	8.80	13.72	9.97	14.84	10.21	15.77	10.38	17.62	11.17	18.28	10.83
	14			11.48	8.80	13.72	9.97	14.84	10.21	15.75	10.37	17.56	11.15	18.20	10.80
	16			11.48	8.80	13.72	9.97	14.84	10.21	15.72	10.36	17.49	11.13	18.13	10.78
	18			11.48	8.80	13.72	9.97	14.84	10.21	15.70	10.35	17.43	11.09	18.05	10.76
	20			11.48	8.80	13.72	9.97	14.84	10.21	15.68	10.34	17.37	11.03	17.97	10.73
	22			11.46	8.79	13.71	9.96	14.84	10.21	15.61	10.32	17.15	10.96	17.72	10.65
	24			11.44	8.79	13.71	9.96	14.84	10.21	15.54	10.27	16.93	10.88	17.48	10.56
	26			11.43	8.78	13.64	9.93	14.70	10.16	15.35	10.17	16.66	10.79	17.21	10.46
	28	10.36	8.65	11.42	8.78	13.58	9.91	14.56	10.10	15.17	10.11	16.39	10.68	16.94	10.36
34 (m/min)	30	10.36	8.65	11.40	8.77	13.48	9.87	14.42	10.05	14.99	10.04	16.14	10.58	16.69	10.28
	32	10.36	8.65	11.37	8.76	13.37	9.81	14.28	9.98	14.82	9.98	15.89	10.48	16.43	10.18
	34	10.36	8.65	11.33	8.74	13.32	9.79	14.09	9.91	14.58	9.87	15.56	10.35	16.09	10.06
	35	10.36	8.65	11.31	8.73	13.30	9.78	14.00	9.80	14.46	9.83	15.39	10.28	15.92	9.99
	36	10.36	8.65	11.30	8.73	13.20	9.74	13.93	9.83	14.32	9.76	15.11	10.17	15.61	9.88
	38	10.36	8.65	11.27	8.70	13.00	9.65	13.79	9.78	14.05	9.64	14.56	9.97	15.00	9.64
	39	10.36	8.65	11.26	8.70	12.90	9.61	13.72	9.73	13.91	9.59	14.28	9.82	14.69	9.55
	41	10.36	8.65	11.22	8.68	12.51	9.44	13.16	9.51	13.32	9.35	13.65	9.61	14.00	9.32
	43	10.36	8.65	11.18	8.66	12.13	9.28	12.60	9.26	12.74	9.12	13.02	9.39	13.31	9.10

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	9.28	9.28	9.28	9.28	9.28	
	-17.8	-18	9.88	9.88	9.88	9.88	9.88	
	-15.7	-16	10.47	10.47	10.47	10.47	10.47	
	-13.7	-14	11.07	11.07	11.07	11.07	11.07	
	-11.7	-12	11.67	11.67	11.67	11.67	11.67	
	-9.6	-10	12.27	12.27	12.27	12.27	12.27	
	-7.5	-8	13.01	13.01	13.01	13.01	13.01	
	-5.5	-6	13.76	13.76	13.76	13.76	13.76	
	-3.4	-4	14.24	14.22	14.20	14.06	13.92	
	-1.3	-2	14.72	14.68	14.64	14.36	14.08	
34 (m/min)	0.8	0	15.52	15.30	15.08	14.54	14.00	
	3.9	3	16.84	16.24	15.64	14.76	13.88	
	7.0	6	18.40	17.20	16.00	14.88	13.76	
	10.1	9	18.28	17.11	15.94	14.79	13.64	
	13.2	12	18.16	17.00	15.84	14.68	13.52	
	16.9	15.5	18.02	16.86	15.70	14.54	13.38	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			10.75	8.09	12.86	9.17	13.91	9.41	14.80	9.57	16.57	10.32	17.21	10.01
	12			10.75	8.09	12.86	9.17	13.91	9.41	14.78	9.56	16.51	10.29	17.13	9.99
	14			10.75	8.09	12.86	9.17	13.91	9.41	14.76	9.55	16.45	10.24	17.06	9.97
	16			10.75	8.09	12.86	9.17	13.91	9.41	14.74	9.55	16.39	10.22	16.99	9.95
	18			10.75	8.09	12.86	9.17	13.91	9.41	14.72	9.54	16.33	10.20	16.91	9.92
	20			10.75	8.09	12.86	9.17	13.91	9.41	14.70	9.53	16.27	10.18	16.84	9.90
	22			10.74	8.09	12.85	9.17	13.91	9.41	14.63	9.51	16.07	10.11	16.61	9.80
	24			10.72	8.08	12.85	9.17	13.91	9.41	14.56	9.47	15.86	10.02	16.38	9.71
	26			10.72	8.08	12.79	9.14	13.78	9.36	14.39	9.37	15.61	9.92	16.13	9.62
	28	9.71	7.94	10.71	8.06	12.73	9.12	13.64	9.31	14.22	9.31	15.36	9.82	15.88	9.52
31 (m/min)	30	9.71	7.94	10.68	8.05	12.63	9.06	13.51	9.24	14.05	9.25	15.13	9.73	15.64	9.44
	32	9.71	7.94	10.65	8.04	12.53	9.03	13.38	9.18	13.89	9.18	14.89	9.64	15.40	9.35
	34	9.71	7.94	10.62	8.02	12.49	9.01	13.21	9.11	13.66	9.08	14.58	9.50	15.08	9.20
	35	9.71	7.94	10.60	8.01	12.46	9.00	13.12	9.05	13.55	9.04	14.42	9.43	14.92	9.15
	36	9.71	7.94	10.59	8.01	12.37	8.95	13.05	9.04	13.42	8.98	14.16	9.31	14.63	9.07
	38	9.71	7.94	10.56	8.00	12.18	8.86	12.92	8.98	13.16	8.87	13.64	9.13	14.05	8.86
	39	9.71	7.94	10.55	8.00	12.09	8.82	12.86	8.95	13.03	8.80	13.39	9.03	13.76	8.76
	41	9.71	7.94	10.51	7.98	11.73	8.67	12.33	8.73	12.49	8.58	12.79	8.80	13.12	8.54
	43	9.71	7.94	10.47	7.96	11.36	8.48	11.81	8.47	11.94	8.34	12.20	8.58	12.47	8.31

(h) Duct connected (Ultra thin)-Low static pressure type (FDQS)

Model **FDQS22KXE6**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi 11 (m³/min)	10			1.86	1.79	2.22	2.13	2.41	2.18	2.56	2.19	2.87	2.38	2.98	2.34
	12			1.86	1.79	2.22	2.13	2.41	2.18	2.56	2.19	2.86	2.38	2.96	2.33
	14			1.86	1.79	2.22	2.13	2.41	2.18	2.55	2.19	2.85	2.37	2.95	2.33
	16			1.86	1.79	2.22	2.13	2.41	2.18	2.55	2.19	2.84	2.37	2.94	2.32
	18			1.86	1.79	2.22	2.13	2.41	2.18	2.55	2.19	2.83	2.37	2.93	2.32
	20			1.86	1.79	2.22	2.13	2.41	2.18	2.54	2.19	2.82	2.37	2.91	2.31
	22			1.86	1.79	2.22	2.13	2.41	2.18	2.53	2.18	2.78	2.35	2.87	2.30
	24			1.86	1.79	2.22	2.13	2.41	2.18	2.52	2.18	2.74	2.34	2.83	2.29
	26			1.85	1.78	2.21	2.12	2.38	2.17	2.49	2.17	2.70	2.32	2.79	2.27
	28	1.68	1.61	1.85	1.78	2.20	2.11	2.36	2.16	2.46	2.16	2.66	2.31	2.75	2.26
	30	1.68	1.61	1.85	1.78	2.18	2.09	2.34	2.15	2.43	2.15	2.62	2.30	2.71	2.25
Hi 9 (m³/min)	32	1.68	1.61	1.84	1.77	2.17	2.08	2.32	2.14	2.40	2.14	2.58	2.28	2.66	2.24
	34	1.68	1.61	1.84	1.77	2.16	2.07	2.29	2.13	2.36	2.12	2.52	2.27	2.61	2.22
	35	1.68	1.61	1.83	1.76	2.16	2.07	2.27	2.11	2.35	2.12	2.50	2.25	2.58	2.21
	36	1.68	1.61	1.83	1.76	2.14	2.05	2.26	2.12	2.32	2.11	2.45	2.24	2.53	2.18
	38	1.68	1.61	1.83	1.76	2.11	2.03	2.24	2.11	2.28	2.09	2.36	2.19	2.43	2.15
	39	1.68	1.61	1.83	1.76	2.09	2.01	2.22	2.11	2.26	2.09	2.32	2.18	2.38	2.14
	41	1.68	1.61	1.82	1.75	2.03	1.95	2.13	2.04	2.16	2.05	2.21	2.12	2.27	2.11
	43	1.68	1.61	1.81	1.74	1.97	1.89	2.04	1.96	2.07	1.99	2.11	2.03	2.16	2.07

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Uhi 11 (m³/min)	-19.8	-20	1.50	1.50	1.50	1.50	1.50	
	-17.8	-18	1.59	1.59	1.59	1.59	1.59	
	-15.7	-16	1.69	1.69	1.69	1.69	1.69	
	-13.7	-14	1.79	1.79	1.79	1.79	1.79	
	-11.7	-12	1.88	1.88	1.88	1.88	1.88	
	-9.6	-10	1.98	1.98	1.98	1.98	1.98	
	-7.5	-8	2.10	2.10	2.10	2.10	2.10	
	-5.5	-6	2.22	2.22	2.22	2.22	2.22	
	-3.4	-4	2.30	2.29	2.29	2.27	2.24	
	-1.3	-2	2.37	2.37	2.36	2.32	2.27	
	0.8	0	2.50	2.47	2.43	2.34	2.26	
3.9	3	2.72	2.62	2.52	2.38	2.24		
7.0	6	2.97	2.77	2.58	2.40	2.22		
10.1	9	2.95	2.76	2.57	2.38	2.20		
13.2	12	2.93	2.74	2.55	2.37	2.18		
16.9	15.5	2.91	2.72	2.53	2.34	2.16		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi 11 (m³/min)	10			1.80	1.73	2.16	2.07	2.33	2.11	2.48	2.12	2.78	2.31	2.89	2.26
	12			1.80	1.73	2.16	2.07	2.33	2.11	2.48	2.12	2.77	2.30	2.87	2.25
	14			1.80	1.73	2.16	2.07	2.33	2.11	2.47	2.12	2.76	2.30	2.86	2.25
	16			1.80	1.73	2.16	2.07	2.33	2.11	2.47	2.12	2.75	2.30	2.85	2.25
	18			1.80	1.73	2.16	2.07	2.33	2.11	2.47	2.12	2.74	2.29	2.84	2.24
	20			1.80	1.73	2.16	2.07	2.33	2.11	2.46	2.12	2.73	2.29	2.82	2.24
	22			1.80	1.73	2.15	2.06	2.33	2.11	2.45	2.11	2.69	2.27	2.78	2.23
	24			1.80	1.73	2.15	2.06	2.33	2.11	2.44	2.11	2.66	2.26	2.75	2.22
	26			1.80	1.73	2.14	2.05	2.31	2.10	2.41	2.10	2.62	2.25	2.70	2.20
	28	1.63	1.56	1.80	1.73	2.13	2.04	2.29	2.09	2.38	2.09	2.58	2.24	2.66	2.19
	30	1.63	1.56	1.79	1.72	2.12	2.04	2.27	2.08	2.36	2.08	2.54	2.23	2.62	2.18
Hi 9 (m³/min)	32	1.63	1.56	1.79	1.72	2.10	2.02	2.24	2.07	2.33	2.07	2.50	2.21	2.58	2.16
	34	1.63	1.56	1.78	1.71	2.09	2.01	2.21	2.06	2.29	2.05	2.44	2.19	2.53	2.15
	35	1.63	1.56	1.78	1.71	2.09	2.01	2.20	2.05	2.27	2.05	2.42	2.18	2.50	2.14
	36	1.63	1.56	1.78	1.71	2.07	1.99	2.19	2.05	2.25	2.04	2.37	2.17	2.45	2.13
	38	1.63	1.56	1.77	1.70	2.04	1.96	2.17	2.05	2.21	2.03	2.29	2.14	2.36	2.10
	39	1.63	1.56	1.77	1.70	2.03	1.95	2.16	2.04	2.19	2.02	2.24	2.13	2.31	2.08
	41	1.63	1.56	1.76	1.69	1.97	1.89	2.07	1.99	2.09	1.98	2.14	2.05	2.20	2.05
	43	1.63	1.56	1.76	1.69	1.91	1.83	1.98	1.90	2.00	1.92	2.05	1.97	2.09	2.01

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Hi 9 (m³/min)	-19.8	-20	1.45	1.45	1.45	1.45	1.45	
	-17.8	-18	1.54	1.54	1.54	1.54	1.54	
	-15.7	-16	1.64	1.64	1.64	1.64	1.64	
	-13.7	-14	1.73	1.73	1.73	1.73	1.73	
	-11.7	-12	1.82	1.82	1.82	1.82	1.82	
	-9.6	-10	1.92	1.92	1.92	1.92	1.92	
	-7.5	-8	2.03	2.03	2.03	2.03	2.03	
	-5.5	-6	2.15	2.15	2.15	2.15	2.15	
	-3.4	-4	2.23	2.22	2.22	2.20	2.18	
	-1.3	-2	2.30	2.29	2.29	2.24	2.20	
	0.8	0	2.43	2.39	2.36	2.27	2.19	
3.9	3	2.63	2.54	2.44	2.31	2.17		
7.0	6	2.88	2.69	2.50	2.33	2.15		
10.1	9	2.86	2.67	2.49	2.31	2.13		
13.2	12	2.84	2.66	2.48	2.29	2.11		
16.9	15.5	2.82	2.63	2.45	2.27	2.09		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi 11 (m³/min)	10			1.70	1.63	2.03	1.89	2.19	1.92	2.33	1.94	2.61	2.10	2.72	2.06
	12			1.70	1.63	2.03	1.89	2.19	1.92	2.33	1.94	2.61	2.10	2.70	2.05
	14			1.70	1.63	2.03	1.89	2.19	1.92	2.33	1.94	2.60	2.09	2.69	2.05
	16			1.70	1.63	2.03	1.89	2.19	1.92	2.32	1.93	2.59	2.09	2.68	2.04
	18			1.70	1.63	2.03	1.89	2.19	1.92	2.32	1.93	2.58	2.09	2.67	2.04
	20			1.70	1.63	2.03	1.89	2.19	1.92	2.32	1.93	2.57	2.08	2.66	2.04
	22			1.69	1.62	2.03	1.89	2.19	1.92	2.31	1.92	2.54	2.07	2.62	2.03
	24			1.69	1.62	2.03	1.89	2.19	1.92	2.30	1.92	2.50	2.06	2.58	2.02
	26			1.69	1.62	2.02	1.88	2.17	1.91	2.27	1.91	2.46	2.05	2.54	2.00
	28	1.53	1.47	1.69	1.62	2.01	1.88	2.15	1.90	2.24	1.90	2.42	2.03	2.50	1.99
	30	1.53	1.47	1.68	1.61	1.99	1.87	2.13	1.89	2.22	1.89	2.39	2.02	2.47	1.98
Hi 9 (m³/min)	32	1.53	1.47	1.68	1.61	1.98	1.87	2.11	1.89	2.19	1.88	2.35	2.01	2.43	1.97
	34	1.53	1.47	1.68	1.61	1.97	1.86	2.08	1.88	2.16	1.87	2.30	1.99	2.38	1.95
	35	1.53	1.47	1.67	1.60	1.97	1.86	2.07	1.86	2.14	1.87	2.28	1.99	2.35	1.94
	36	1.53	1.47	1.67	1.60	1.95	1.86	2.06	1.86	2.12	1.86	2.23	1.97	2.31	1.93
	38	1.53	1.47	1.67	1.60	1.92	1.84	2.04	1.86	2.08	1.84	2.15	1.94	2.22	1.90
	39	1.53	1.47	1.66	1.59	1.91	1.83	2.03	1.85	2.06	1.83	2.11	1.93	2.17	1.89
	41	1.53	1.47	1.66	1.59	1.85	1.78	1.95	1.83	1.97	1.80	2.02	1.90	2.07	1.86
	43	1.53	1.47	1.65	1.58	1.79	1.72	1.86	1.79	1.88	1.77	1.92	1.84	1.97	1.83

Model FDQS28KXE6

Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi 11 (m³/min)	10			2.36	2.27	2.82	2.57	3.05	2.61	3.25	2.63	3.64	2.86	3.78	2.80
	12			2.36	2.27	2.82	2.57	3.05	2.61	3.24	2.63	3.63	2.86	3.76	2.79
	14			2.36	2.27	2.82	2.57	3.05	2.61	3.24	2.63	3.61	2.85	3.75	2.79
	16			2.36	2.27	2.82	2.57	3.05	2.61	3.23	2.62	3.60	2.85	3.73	2.78
	18			2.36	2.27	2.82	2.57	3.05	2.61	3.23	2.62	3.59	2.84	3.71	2.78
	20			2.36	2.27	2.82	2.57	3.05	2.61	3.23	2.62	3.57	2.84	3.70	2.78
	22			2.36	2.27	2.82	2.57	3.05	2.61	3.21	2.62	3.53	2.82	3.65	2.76
	24			2.35	2.26	2.82	2.57	3.05	2.61	3.20	2.61	3.48	2.81	3.60	2.75
	26			2.35	2.26	2.81	2.57	3.02	2.60	3.16	2.60	3.43	2.79	3.54	2.73
	28	2.13	2.04	2.35	2.26	2.79	2.56	3.00	2.59	3.12	2.59	3.37	2.77	3.48	2.71
	30	2.13	2.04	2.34	2.25	2.77	2.55	2.97	2.58	3.08	2.57	3.32	2.76	3.43	2.69
	32	2.13	2.04	2.34	2.25	2.75	2.54	2.94	2.57	3.05	2.56	3.27	2.74	3.38	2.68
	34	2.13	2.04	2.33	2.24	2.74	2.54	2.90	2.55	3.00	2.54	3.20	2.71	3.31	2.66
	35	2.13	2.04	2.33	2.24	2.74	2.54	2.88	2.53	2.98	2.54	3.17	2.70	3.28	2.65
	36	2.13	2.04	2.32	2.23	2.72	2.53	2.87	2.54	2.95	2.53	3.11	2.69	3.21	2.63
	38	2.13	2.04	2.32	2.23	2.67	2.52	2.84	2.53	2.89	2.51	3.00	2.65	3.08	2.59
	39	2.13	2.04	2.32	2.23	2.65	2.51	2.82	2.53	2.86	2.50	2.94	2.63	3.02	2.57
	41	2.13	2.04	2.31	2.22	2.57	2.47	2.71	2.49	2.74	2.46	2.81	2.59	2.88	2.52
	43	2.13	2.04	2.30	2.21	2.49	2.39	2.59	2.45	2.62	2.41	2.68	2.54	2.74	2.48

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Uhi 11 (m³/min)	-19.8	-20	1.91	1.91	1.91	1.91	1.91	
	-17.8	-18	2.04	2.04	2.04	2.04	2.04	
	-15.7	-16	2.16	2.16	2.16	2.16	2.16	
	-13.7	-14	2.28	2.28	2.28	2.28	2.28	
	-11.7	-12	2.41	2.41	2.41	2.41	2.41	
	-9.6	-10	2.53	2.53	2.53	2.53	2.53	
	-7.5	-8	2.68	2.68	2.68	2.68	2.68	
	-5.5	-6	2.84	2.84	2.84	2.84	2.84	
	-3.4	-4	2.94	2.93	2.93	2.90	2.87	
	-1.3	-2	3.04	3.03	3.02	2.96	2.90	
	0.8	0	3.20	3.16	3.11	3.00	2.89	
	3.9	3	3.47	3.35	3.23	3.04	2.86	
	7.0	6	3.80	3.55	3.30	3.07	2.84	
	10.1	9	3.77	3.53	3.29	3.05	2.81	
	13.2	12	3.75	3.51	3.27	3.03	2.79	
	16.9	15.5	3.72	3.48	3.24	3.00	2.76	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 9 (m³/min)	10			2.30	2.04	2.74	2.29	2.97	2.33	3.16	2.36	3.54	2.56	3.67	2.49
	12			2.30	2.04	2.74	2.29	2.97	2.33	3.15	2.36	3.52	2.55	3.66	2.48
	14			2.30	2.04	2.74	2.29	2.97	2.33	3.15	2.36	3.51	2.55	3.64	2.48
	16			2.30	2.04	2.74	2.29	2.97	2.33	3.14	2.35	3.50	2.55	3.63	2.47
	18			2.30	2.04	2.74	2.29	2.97	2.33	3.14	2.35	3.49	2.54	3.61	2.47
	20			2.30	2.04	2.74	2.29	2.97	2.33	3.14	2.35	3.47	2.52	3.59	2.46
	22			2.29	2.03	2.74	2.29	2.97	2.33	3.12	2.34	3.43	2.51	3.54	2.45
	24			2.29	2.03	2.74	2.29	2.97	2.33	3.11	2.34	3.39	2.50	3.50	2.43
	26			2.29	2.03	2.73	2.29	2.94	2.32	3.07	2.32	3.33	2.48	3.44	2.42
	28	2.07	1.99	2.28	2.02	2.72	2.28	2.91	2.31	3.03	2.31	3.28	2.46	3.39	2.40
	30	2.07	1.99	2.28	2.02	2.70	2.28	2.88	2.30	3.00	2.30	3.23	2.44	3.34	2.39
	32	2.07	1.99	2.27	2.02	2.67	2.26	2.86	2.29	2.96	2.28	3.18	2.43	3.29	2.37
	34	2.07	1.99	2.27	2.02	2.66	2.26	2.82	2.28	2.92	2.27	3.11	2.41	3.22	2.35
	35	2.07	1.99	2.26	2.02	2.66	2.26	2.80	2.27	2.89	2.26	3.08	2.40	3.18	2.34
	36	2.07	1.99	2.26	2.02	2.64	2.25	2.79	2.27	2.86	2.25	3.02	2.38	3.12	2.32
	38	2.07	1.99	2.25	2.01	2.60	2.24	2.76	2.26	2.81	2.23	2.91	2.34	3.00	2.28
	39	2.07	1.99	2.25	2.01	2.58	2.23	2.74	2.25	2.78	2.22	2.86	2.32	2.94	2.26
	41	2.07	1.99	2.24	2.01	2.50	2.20	2.63	2.21	2.66	2.17	2.73	2.27	2.80	2.22
	43	2.07	1.99	2.24	2.01	2.43	2.17	2.52	2.16	2.55	2.14	2.60	2.23	2.66	2.17

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Hi 9 (m³/min)	-19.8	-20	1.86	1.86	1.86	1.86	1.86	1.86	
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	1.98	
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	2.09	
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	2.21	
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	2.33	
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	2.45	
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	2.60	
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	2.75	
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	2.78	
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	2.82	
	0.8	0	3.10	3.06	3.02	2.91	2.80	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	2.68	

Air flow	Outdoor air temp. (CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me 8 (m³/min)	10			2.16	1.87	2.59	2.11	2.80	2.16	2.98	2.18	3.34	2.35	3.46	2.29
	12			2.16	1.87	2.59	2.11	2.80	2.16	2.97	2.17	3.32	2.34	3.45	2.29
	14			2.16	1.87	2.59	2.11	2.80	2.16	2.97	2.17	3.31	2.34	3.43	2.28
	16			2.16	1.87	2.59	2.11	2.80	2.16	2.97	2.17	3.30	2.34	3.42	2.28
	18			2.16	1.87	2.59	2.11	2.80	2.16	2.96	2.17	3.29	2.33	3.40	2.27
	20			2.16	1.87	2.59	2.11	2.80	2.16	2.96	2.17	3.27	2.33	3.39	2.27
	22			2.16	1.87	2.59	2.11	2.80	2.16	2.94	2.16	3.23	2.31	3.34	2.26
	24			2.16	1.87	2.58	2.11	2.80	2.16	2.93	2.16	3.19	2.30	3.30	2.24
	26			2.16	1.87	2.57	2.11	2.77	2.14	2.90	2.15	3.14	2.28	3.25	2.23
	28	1.95	1.85	2.15	1.87	2.56	2.10	2.75	2.14	2.86	2.13	3.09	2.27	3.19	2.21
	30	1.95	1.85	2.15	1.87	2.54	2.09	2.72	2.12	2.83	2.12	3.04	2.25	3.15	2.20
	32	1.95	1.85	2.14	1.86	2.52	2.08	2.69	2.11	2.79	2.11	3.00	2.24	3.10	2.18
	34	1.95	1.85	2.14	1.86	2.51	2.08	2.66	2.10	2.75	2.09	2.93	2.21	3.03	2.16
	35	1.95	1.85	2.13	1.85	2.51	2.08	2.64	2.09	2.73	2.08	2.90	2.20	3.00	2.15
	36	1.95	1.85	2.13	1.85	2.49	2.07	2.63	2.09	2.70	2.07	2.85	2.18	2.94	2.13
	38	1.95	1.85	2.13	1.85	2.45	2.06	2.60	2.08	2.65	2.05	2.75	2.15	2.83	2.09
39	1.95	1.85	2.12	1.85	2.43	2.05	2.59	2.07	2.62	2.04	2.69	2.13	2.77	2.08	
41	1.95	1.85	2.12	1.85	2.36	2.02	2.48	2.03	2.51	2.00	2.57	2.08	2.64	2.03	
43	1.95	1.85	2.11	1.85	2.29	1.99	2.38	1.99	2.40	1.96	2.45	2.04	2.51	1.99	

Model FDQS36KXE6

Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.04	2.69	3.64	3.05	3.93	3.10	4.18	3.14	4.69	3.40	4.87	3.32
	12			3.04	2.69	3.64	3.05	3.93	3.10	4.18	3.14	4.67	3.39	4.85	3.31
	14			3.04	2.69	3.64	3.05	3.93	3.10	4.17	3.14	4.65	3.38	4.82	3.30
	16			3.04	2.69	3.64	3.05	3.93	3.10	4.17	3.14	4.64	3.38	4.80	3.30
	18			3.04	2.69	3.64	3.05	3.93	3.10	4.16	3.13	4.62	3.37	4.78	3.29
	20			3.04	2.69	3.64	3.05	3.93	3.10	4.16	3.13	4.60	3.37	4.76	3.28
	22			3.04	2.69	3.63	3.05	3.93	3.10	4.14	3.13	4.54	3.34	4.70	3.26
	24			3.03	2.69	3.63	3.05	3.93	3.10	4.12	3.12	4.49	3.33	4.63	3.24
	26			3.03	2.69	3.62	3.04	3.90	3.09	4.07	3.10	4.41	3.30	4.56	3.22
	28	2.75	2.64	3.03	2.69	3.60	3.03	3.86	3.08	4.02	3.08	4.34	3.27	4.49	3.20
	30	2.75	2.64	3.02	2.68	3.57	3.02	3.82	3.06	3.97	3.06	4.28	3.25	4.42	3.17
	32	2.75	2.64	3.01	2.68	3.54	3.01	3.78	3.04	3.93	3.04	4.21	3.23	4.35	3.15
	34	2.75	2.64	3.00	2.67	3.53	3.00	3.73	3.03	3.86	3.01	4.12	3.19	4.26	3.12
	35	2.75	2.64	3.00	2.67	3.52	3.00	3.71	3.01	3.83	3.00	4.08	3.18	4.22	3.10
	36	2.75	2.64	2.99	2.67	3.50	2.99	3.69	3.01	3.80	2.99	4.00	3.15	4.14	3.08
	38	2.75	2.64	2.99	2.67	3.44	2.97	3.65	2.99	3.72	2.96	3.86	3.10	3.97	3.03
11 (m³/min)	39	2.75	2.64	2.98	2.67	3.42	2.96	3.64	2.99	3.69	2.95	3.79	3.08	3.89	3.00
	41	2.75	2.64	2.97	2.66	3.32	2.92	3.49	2.93	3.53	2.89	3.62	3.02	3.71	2.95
	43	2.75	2.64	2.96	2.66	3.21	2.88	3.34	2.88	3.38	2.84	3.45	2.97	3.53	2.89

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Uhi 11 (m³/min)	-19.8	-20	2.39	2.39	2.39	2.39	2.39	
	-17.8	-18	2.54	2.54	2.54	2.54	2.54	
	-15.7	-16	2.70	2.70	2.70	2.70	2.70	
	-13.7	-14	2.85	2.85	2.85	2.85	2.85	
	-11.7	-12	3.00	3.00	3.00	3.00	3.00	
	-9.6	-10	3.16	3.16	3.16	3.16	3.16	
	-7.5	-8	3.35	3.35	3.35	3.35	3.35	
	-5.5	-6	3.54	3.54	3.54	3.54	3.54	
	-3.4	-4	3.67	3.66	3.66	3.62	3.58	
	-1.3	-2	3.79	3.78	3.77	3.70	3.63	
	0.8	0	4.00	3.94	3.88	3.74	3.61	
	3.9	3	4.34	4.18	4.03	3.80	3.57	
	7.0	6	4.74	4.43	4.12	3.83	3.54	
	10.1	9	4.71	4.41	4.10	3.81	3.51	
	13.2	12	4.68	4.38	4.08	3.78	3.48	
	16.9	15.5	4.64	4.34	4.04	3.74	3.45	

Air flow	Outdoor air temp. (CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 9 (m³/min)	10			2.95	2.41	3.53	2.73	3.82	2.78	4.06	2.82	4.55	3.05	4.72	2.97
	12			2.95	2.41	3.53	2.73	3.82	2.78	4.05	2.81	4.53	3.04	4.70	2.96
	14			2.95	2.41	3.53	2.73	3.82	2.78	4.05	2.81	4.51	3.03	4.68	2.96
	16			2.95	2.41	3.53	2.73	3.82	2.78	4.04	2.81	4.50	3.03	4.66	2.95
	18			2.95	2.41	3.53	2.73	3.82	2.78	4.04	2.81	4.48	3.02	4.64	2.94
	20			2.95	2.41	3.53	2.73	3.82	2.78	4.03	2.81	4.47	3.02	4.62	2.93
	22			2.95	2.41	3.53	2.73	3.82	2.78	4.01	2.80	4.41	2.99	4.56	2.91
	24			2.94	2.40	3.52	2.72	3.82	2.78	3.99	2.79	4.35	2.97	4.49	2.89
	26			2.94	2.40	3.51	2.72	3.78	2.77	3.95	2.77	4.28	2.94	4.43	2.87
	28	2.66	2.37	2.94	2.40	3.49	2.71	3.74	2.75	3.90	2.76	4.22	2.92	4.36	2.84
	30	2.66	2.37	2.93	2.40	3.47	2.70	3.71	2.74	3.86	2.74	4.15	2.90	4.29	2.82
	32	2.66	2.37	2.92	2.40	3.44	2.69	3.67	2.72	3.81	2.72	4.09	2.88	4.23	2.80
	34	2.66	2.37	2.91	2.39	3.43	2.68	3.62	2.70	3.75	2.70	4.00	2.84	4.14	2.77
	35	2.66	2.37	2.91	2.39	3.42	2.68	3.60	2.70	3.72	2.68	3.96	2.82	4.09	2.75
	36	2.66	2.37	2.91	2.39	3.39	2.67	3.58	2.69	3.68	2.67	3.89	2.80	4.02	2.73
	38	2.66	2.37	2.90	2.39	3.34	2.65	3.55	2.68	3.61	2.64	3.74	2.75	3.86	2.68
39	2.66	2.37	2.89	2.38	3.32	2.64	3.53	2.67	3.58	2.63	3.67	2.72	3.78	2.65	
41	2.66	2.37	2.88	2.38	3.22	2.60	3.38	2.61	3.43	2.57	3.51	2.67	3.60	2.59	
43	2.66	2.37	2.87	2.37	3.12	2.55	3.24	2.55	3.28	2.51	3.35	2.60	3.42	2.53	

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Hi 9 (m³/min)	-19.8	-20	2.32	2.32	2.32	2.32	2.32	2.32	
	-17.8	-18	2.47	2.47	2.47	2.47	2.47	2.47	
	-15.7	-16	2.62	2.62	2.62	2.62	2.62	2.62	
	-13.7	-14	2.77	2.77	2.77	2.77	2.77	2.77	
	-11.7	-12	2.92	2.92	2.92	2.92	2.92	2.92	
	-9.6	-10	3.07	3.07	3.07	3.07	3.07	3.07	
	-7.5	-8	3.25	3.25	3.25	3.25	3.25	3.25	
	-5.5	-6	3.44	3.44	3.44	3.44	3.44	3.44	
	-3.4	-4	3.56	3.56	3.55	3.52	3.48	3.48	
	-1.3	-2	3.68	3.67	3.66	3.59	3.52	3.52	
	0.8	0	3.88	3.83	3.77	3.64	3.50	3.50	
	3.9	3	4.21	4.06	3.91	3.69	3.47	3.47	
	7.0	6	4.60	4.30	4.00	3.72	3.44	3.44	
	10.1	9	4.57	4.28	3.99	3.70	3.41	3.41	
	13.2	12	4.54	4.25	3.96	3.67	3.38	3.38	
	16.9	15.5	4.51	4.22	3.93	3.64	3.35	3.35	

Air flow	Outdoor air temp. (CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me 8 (m³/min)	10			2.78	2.22	3.32	2.51	3.59	2.57	3.82	2.61	4.28	2.82	4.45	2.74
	12			2.78	2.22	3.32	2.51	3.59	2.57	3.82	2.61	4.27	2.81	4.43	2.74
	14			2.78	2.22	3.32	2.51	3.59	2.57	3.81	2.60	4.25	2.80	4.41	2.73
	16			2.78	2.22	3.32	2.51	3.59	2.57	3.81	2.60	4.24	2.80	4.39	2.72
	18			2.78	2.22	3.32	2.51	3.59	2.57	3.80	2.60	4.22	2.79	4.37	2.71
	20			2.78	2.22	3.32	2.51	3.59	2.57	3.80	2.60	4.21	2.78	4.35	2.70
	22			2.77	2.22	3.32	2.51	3.59	2.57	3.78	2.59	4.15	2.76	4.29	2.68
	24			2.77	2.22	3.32	2.51	3.59	2.57	3.76	2.58	4.10	2.74	4.23	2.66
	26			2.77	2.22	3.30	2.50	3.56	2.56	3.72	2.57	4.03	2.72	4.17	2.64
	28	2.51	2.19	2.77	2.22	3.29	2.50	3.53	2.55	3.67	2.55	3.97	2.69	4.10	2.62
	30	2.51	2.19	2.76	2.22	3.26	2.49	3.49	2.53	3.63	2.53	3.91	2.67	4.04	2.60
	32	2.51	2.19	2.75	2.21	3.24	2.48	3.46	2.51	3.59	2.51	3.85	2.65	3.98	2.58
	34	2.51	2.19	2.74	2.21	3.23	2.47	3.41	2.49	3.53	2.49	3.77	2.62	3.90	2.55
	35	2.51	2.19	2.74	2.21	3.22	2.47	3.39	2.47	3.50	2.47	3.73	2.60	3.86	2.54
	36	2.51	2.19	2.74	2.21	3.20	2.46	3.37	2.48	3.47	2.46	3.66	2.58	3.78	2.51
38	2.51	2.19	2.73	2.20	3.15	2.44	3.34	2.47	3.40	2.43	3.53	2.53	3.63	2.46	
39	2.51	2.19	2.73	2.20	3.12	2.43	3.32	2.46	3.37	2.42	3.46	2.50	3.56	2.43	
41	2.51	2.19	2.72	2.19	3.03	2.39	3.19	2.40	3.23	2.37	3.31	2.45	3.39	2.38	
43	2.51	2.19	2.71	2.19	2.94	2.35	3.05	2.35	3.08	2.31	3.15	2.39	3.22	2.34	

Model **FDQS45KXE6** Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 11 (m³/min)	10			3.69	2.98	4.41	3.37	4.77	3.45	5.07	3.49	5.68	3.77	5.90	3.68
	12			3.69	2.98	4.41	3.37	4.77	3.45	5.07	3.49	5.66	3.76	5.88	3.67
	14			3.69	2.98	4.41	3.37	4.77	3.45	5.06	3.48	5.64	3.76	5.85	3.66
	16			3.69	2.98	4.41	3.37	4.77	3.45	5.05	3.48	5.62	3.75	5.83	3.65
	18			3.69	2.98	4.41	3.37	4.77	3.45	5.05	3.48	5.60	3.74	5.80	3.64
	20			3.69	2.98	4.41	3.37	4.77	3.45	5.04	3.48	5.58	3.73	5.78	3.63
	22			3.68	2.98	4.41	3.37	4.77	3.45	5.02	3.47	5.51	3.71	5.70	3.61
	24			3.68	2.98	4.41	3.37	4.77	3.45	4.99	3.46	5.44	3.68	5.62	3.57
	26			3.68	2.98	4.39	3.36	4.73	3.43	4.93	3.43	5.35	3.64	5.53	3.54
	28	3.33	2.94	3.67	2.97	4.37	3.35	4.68	3.41	4.88	3.41	5.27	3.61	5.44	3.51
	30	3.33	2.94	3.66	2.97	4.33	3.34	4.64	3.39	4.82	3.39	5.19	3.58	5.36	3.49
	32	3.33	2.94	3.65	2.96	4.30	3.33	4.59	3.37	4.76	3.36	5.11	3.55	5.28	3.46
	34	3.33	2.94	3.64	2.96	4.28	3.32	4.53	3.35	4.69	3.34	5.00	3.52	5.17	3.42
	35	3.33	2.94	3.64	2.96	4.28	3.32	4.50	3.33	4.65	3.32	4.95	3.50	5.12	3.41
	36	3.33	2.94	3.63	2.96	4.24	3.30	4.48	3.33	4.60	3.30	4.86	3.46	5.02	3.37
	38	3.33	2.94	3.62	2.95	4.18	3.27	4.43	3.31	4.52	3.27	4.68	3.39	4.82	3.30
	39	3.33	2.94	3.62	2.95	4.15	3.26	4.41	3.30	4.47	3.25	4.59	3.36	4.72	3.27
	41	3.33	2.94	3.61	2.95	4.02	3.21	4.23	3.23	4.28	3.18	4.39	3.29	4.50	3.20
	43	3.33	2.94	3.59	2.94	3.90	3.16	4.05	3.16	4.09	3.11	4.18	3.22	4.28	3.12

Heat Mode

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Hi 11 (m³/min)	-19.8	-20	2.90	2.90	2.90	2.90	2.90	2.90	
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	3.09	
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	3.27	
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	3.46	
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	3.65	
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	3.83	
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	4.07	
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	4.30	
	-3.4	-4	4.45	4.44	4.44	4.39	4.35		
	-1.3	-2	4.60	4.59	4.58	4.49	4.40		
	0.8	0	4.85	4.78	4.71	4.54	4.38		
	3.9	3	5.26	5.08	4.89	4.61	4.34		
	7.0	6	5.75	5.38	5.00	4.65	4.30		
	10.1	9	5.71	5.35	4.98	4.62	4.26		
	13.2	12	5.68	5.31	4.95	4.59	4.23		
	16.9	15.5	5.63	5.27	4.91	4.54	4.18		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me 10 (m³/min)	10			3.52	2.76	4.20	3.12	4.55	3.20	4.84	3.25	5.42	3.50	5.63	3.41
	12			3.52	2.76	4.20	3.12	4.55	3.20	4.83	3.24	5.40	3.50	5.60	3.40
	14			3.52	2.76	4.20	3.12	4.55	3.20	4.82	3.24	5.38	3.49	5.58	3.39
	16			3.52	2.76	4.20	3.12	4.55	3.20	4.82	3.24	5.36	3.48	5.55	3.38
	18			3.52	2.76	4.20	3.12	4.55	3.20	4.81	3.23	5.34	3.47	5.53	3.37
	20			3.52	2.76	4.20	3.12	4.55	3.20	4.81	3.23	5.32	3.46	5.51	3.37
	22			3.51	2.75	4.20	3.12	4.55	3.20	4.78	3.22	5.25	3.43	5.43	3.34
	24			3.51	2.75	4.20	3.12	4.55	3.20	4.76	3.21	5.19	3.41	5.36	3.31
	26			3.50	2.75	4.18	3.12	4.50	3.18	4.70	3.19	5.10	3.37	5.27	3.28
	28	3.17	2.72	3.50	2.75	4.16	3.10	4.46	3.16	4.65	3.17	5.02	3.34	5.19	3.25
	30	3.17	2.72	3.49	2.75	4.13	3.09	4.42	3.15	4.59	3.14	4.95	3.32	5.11	3.23
	32	3.17	2.72	3.48	2.74	4.10	3.08	4.38	3.13	4.54	3.12	4.87	3.29	5.04	3.20
	34	3.17	2.72	3.47	2.74	4.08	3.07	4.32	3.11	4.47	3.09	4.77	3.25	4.93	3.16
	35	3.17	2.72	3.47	2.74	4.08	3.07	4.29	3.09	4.43	3.08	4.72	3.23	4.88	3.14
	36	3.17	2.72	3.46	2.73	4.04	3.05	4.27	3.08	4.39	3.06	4.63	3.20	4.78	3.09
	38	3.17	2.72	3.45	2.73	3.98	3.03	4.23	3.06	4.30	3.02	4.46	3.12	4.60	3.03
	39	3.17	2.72	3.45	2.73	3.95	3.02	4.20	3.05	4.26	3.01	4.38	3.09	4.50	3.00
	41	3.17	2.72	3.44	2.72	3.83	2.96	4.03	2.98	4.08	2.94	4.18	3.02	4.29	2.94
	43	3.17	2.72	3.42	2.72	3.72	2.92	3.86	2.91	3.90	2.86	3.99	2.95	4.08	2.87

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Me 10 (m³/min)	-19.8	-20	2.71	2.71	2.71	2.71	2.71	2.71	
	-17.8	-18	2.88	2.88	2.88	2.88	2.88	2.88	
	-15.7	-16	3.06	3.06	3.06	3.06	3.06	3.06	
	-13.7	-14	3.23	3.23	3.23	3.23	3.23	3.23	
	-11.7	-12	3.41	3.41	3.41	3.41	3.41	3.41	
	-9.6	-10	3.58	3.58	3.58	3.58	3.58	3.58	
	-7.5	-8	3.80	3.80	3.80	3.80	3.80	3.80	
	-5.5	-6	4.02	4.02	4.02	4.02	4.02	4.02	
	-3.4	-4	4.16	4.15	4.14	4.10	4.06		
	-1.3	-2	4.30	4.28	4.27	4.19	4.11		
	0.8	0	4.53	4.47	4.40	4.24	4.09		
	3.9	3	4.92	4.74	4.56	4.31	4.05		
	7.0	6	5.37	5.02	4.67	4.34	4.02		
	10.1	9	5.34	4.99	4.65	4.32	3.98		
	13.2	12	5.30	4.96	4.62	4.28	3.95		
	16.9	15.5	5.26	4.92	4.58	4.24	3.91		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Lo 9 (m³/min)	10			3.34	2.59	3.99	2.92	4.31	2.99	4.59	3.04	5.14	3.28	5.34	3.19
	12			3.34	2.59	3.99	2.92	4.31	2.99	4.58	3.04	5.12	3.27	5.32	3.19
	14			3.34	2.59	3.99	2.92	4.31	2.99	4.58	3.04	5.10	3.27	5.29	3.18
	16			3.34	2.59	3.99	2.92	4.31	2.99	4.57	3.03	5.09	3.26	5.27	3.17
	18			3.34	2.59	3.99	2.92	4.31	2.99	4.57	3.03	5.07	3.25	5.25	3.16
	20			3.34	2.59	3.99	2.92	4.31	2.99	4.56	3.03	5.05	3.25	5.22	3.15
	22			3.33	2.58	3.99	2.92	4.31	2.99	4.54	3.02	4.98	3.22	5.15	3.13
	24			3.33	2.58	3.99	2.92	4.31	2.99	4.52	3.01	4.92	3.20	5.08	3.10
	26			3.32	2.58	3.97	2.91	4.27	2.97	4.46	2.98	4.84	3.16	5.00	3.07
	28	3.01	2.54	3.32	2.58	3.95	2.91	4.23	2.96	4.41	2.96	4.77	3.13	4.92	3.04
	30	3.01	2.54	3.31	2.57	3.92	2.89	4.19	2.94	4.36	2.94	4.69	3.10	4.85	3.02
	32	3.01	2.54	3.30	2.57	3.89	2.88	4.15	2.92	4.31	2.92	4.62	3.08	4.78	2.99
	34	3.01	2.54	3.29	2.56	3.87	2.87	4.10	2.90	4.24	2.89	4.52	3.04	4.68	2.96
	35	3.01	2.54	3.29	2.56	3.87	2.87	4.07	2.89	4.20	2.87	4.47	3.02	4.63	2.94
	36	3.01	2.54	3.28	2.56	3.84	2.86	4.05	2.88	4.16	2.86	4.39	2.99	4.54	2.91
	38	3.01	2.54	3.28	2.56	3.78	2.83	4.01	2.86	4.08	2.83	4.23	2.93	4.36	2.84
39	3.01	2.54	3.27	2.56	3.75	2.82	3.99	2.86	4.04	2.81	4.15	2.90	4.27	2.81	
41	3.01	2.54	3.26	2.55	3.64	2.77	3.83	2.79	3.87	2.74	3.97	2.83	4.07	2.74	
43	3.01	2.54	3.25	2.55	3.53	2.73	3.66	2.72	3.70	2.68	3.78	2.76	3.87	2.68	

Model **FDQS56KXE6** Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 11 (m³/min)	10			4.59	3.35	5.49	3.80	5.94	3.91	6.32	3.99	7.07	4.29	7.35	4.17
	12			4.59	3.35	5.49	3.80	5.94	3.91	6.31	3.98	7.05	4.28	7.31	4.16
	14			4.59	3.35	5.49	3.80	5.94	3.91	6.30	3.98	7.02	4.27	7.28	4.14
	16			4.59	3.35	5.49	3.80	5.94	3.91	6.29	3.97	7.00	4.26	7.25	4.13
	18			4.59	3.35	5.49	3.80	5.94	3.91	6.28	3.97	6.97	4.25	7.22	4.12
	20			4.59	3.35	5.49	3.80	5.94	3.91	6.27	3.96	6.95	4.24	7.19	4.11
	22			4.58	3.35	5.49	3.80	5.94	3.91	6.24	3.95	6.86	4.20	7.09	4.06
	24			4.58	3.35	5.48	3.80	5.94	3.91	6.21	3.94	6.77	4.16	6.99	4.02
	26			4.57	3.34	5.46	3.79	5.88	3.88	6.14	3.90	6.66	4.12	6.88	3.98
	28	4.14	3.28	4.57	3.34	5.43	3.78	5.82	3.86	6.07	3.87	6.56	4.07	6.78	3.94
	30	4.14	3.28	4.56	3.34	5.39	3.76	5.77	3.84	6.00	3.84	6.46	4.03	6.67	3.90
	32	4.14	3.28	4.55	3.33	5.35	3.74	5.71	3.81	5.93	3.81	6.36	3.99	6.57	3.86
	34	4.14	3.28	4.53	3.32	5.33	3.73	5.64	3.78	5.83	3.77	6.22	3.93	6.44	3.81
	35	4.14	3.28	4.52	3.32	5.32	3.72	5.60	3.75	5.79	3.75	6.16	3.90	6.37	3.79
	36	4.14	3.28	4.52	3.32	5.28	3.71	5.57	3.75	5.73	3.72	6.05	3.86	6.25	3.73
	38	4.14	3.28	4.51	3.31	5.20	3.67	5.52	3.72	5.62	3.67	5.82	3.76	6.00	3.65
	39	4.14	3.28	4.50	3.31	5.16	3.65	5.49	3.71	5.56	3.65	5.71	3.72	5.87	3.60
	41	4.14	3.28	4.49	3.30	5.00	3.58	5.26	3.61	5.33	3.55	5.46	3.62	5.60	3.51
	43	4.14	3.28	4.47	3.29	4.85	3.51	5.04	3.51	5.10	3.45	5.21	3.53	5.32	3.40

Heat Mode

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Hi 11 (m³/min)	-19.8	-20	3.65	3.65	3.65	3.65	3.65	3.65	
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	3.89	
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	4.12	
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	4.36	
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	4.59	
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	4.83	
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	5.12	
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	5.42	
	-3.4	-4	5.61	5.60	5.59	5.54	5.48		
	-1.3	-2	5.80	5.78	5.76	5.65	5.54		
	0.8	0	6.11	6.02	5.94	5.73	5.51		
	3.9	3	6.63	6.39	6.16	5.81	5.47		
	7.0	6	7.25	6.77	6.30	5.86	5.42		
	10.1	9	7.20	6.74	6.28	5.82	5.37		
	13.2	12	7.15	6.69	6.24	5.78	5.32		
	16.9	15.5	7.10	6.64	6.18	5.73	5.27		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me 10 (m³/min)	10			4.38	3.15	5.23	3.57	5.66	3.69	6.02	3.75	6.75	4.05	7.00	3.91
	12			4.38	3.15	5.23	3.57	5.66	3.69	6.01	3.75	6.72	4.03	6.97	3.90
	14			4.38	3.15	5.23	3.57	5.66	3.69	6.01	3.75	6.70	4.02	6.94	3.89
	16			4.38	3.15	5.23	3.57	5.66	3.69	6.00	3.74	6.67	4.00	6.91	3.88
	18			4.38	3.15	5.23	3.57	5.66	3.69	5.99	3.74	6.65	3.99	6.88	3.87
	20			4.38	3.15	5.23	3.57	5.66	3.69	5.98	3.73	6.62	3.98	6.85	3.86
	22			4.37	3.14	5.23	3.57	5.66	3.69	5.95	3.72	6.54	3.95	6.76	3.82
	24			4.36	3.14	5.23	3.57	5.66	3.69	5.93	3.71	6.46	3.92	6.67	3.79
	26			4.36	3.14	5.20	3.56	5.61	3.66	5.86	3.68	6.35	3.87	6.56	3.74
	28	3.95	3.08	4.36	3.14	5.18	3.55	5.55	3.63	5.79	3.65	6.25	3.82	6.46	3.70
	30	3.95	3.08	4.35	3.13	5.14	3.53	5.50	3.61	5.72	3.61	6.16	3.78	6.36	3.66
	32	3.95	3.08	4.34	3.13	5.10	3.51	5.45	3.59	5.65	3.58	6.06	3.74	6.27	3.63
	34	3.95	3.08	4.32	3.12	5.08	3.50	5.38	3.55	5.56	3.53	5.93	3.69	6.14	3.58
	35	3.95	3.08	4.31	3.11	5.07	3.50	5.34	3.52	5.52	3.51	5.87	3.66	6.07	3.55
	36	3.95	3.08	4.31	3.11	5.03	3.48	5.31	3.52	5.46	3.49	5.76	3.61	5.96	3.51
	38	3.95	3.08	4.30	3.11	4.96	3.45	5.26	3.49	5.36	3.45	5.55	3.53	5.72	3.41
	39	3.95	3.08	4.29	3.10	4.92	3.43	5.23	3.48	5.30	3.42	5.45	3.49	5.60	3.36
	41	3.95	3.08	4.28	3.10	4.77	3.36	5.02	3.39	5.08	3.33	5.21	3.39	5.34	3.28
	43	3.95	3.08	4.26	3.09	4.63	3.29	4.81	3.29	4.86	3.23	4.96	3.29	5.08	3.19

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Me 10 (m³/min)	-19.8	-20	3.42	3.42	3.42	3.42	3.42	3.42	
	-17.8	-18	3.64	3.64	3.64	3.64	3.64	3.64	
	-15.7	-16	3.86	3.86	3.86	3.86	3.86	3.86	
	-13.7	-14	4.08	4.08	4.08	4.08	4.08	4.08	
	-11.7	-12	4.30	4.30	4.30	4.30	4.30	4.30	
	-9.6	-10	4.52	4.52	4.52	4.52	4.52	4.52	
	-7.5	-8	4.79	4.79	4.79	4.79	4.79	4.79	
	-5.5	-6	5.07	5.07	5.07	5.07	5.07	5.07	
	-3.4	-4	5.24	5.23	5.23	5.18	5.12		
	-1.3	-2	5.42	5.40	5.39	5.29	5.18		
	0.8	0	5.71	5.63	5.55	5.35	5.15		
	3.9	3	6.20	5.98	5.76	5.43	5.11		
	7.0	6	6.77	6.33	5.89	5.48	5.07		
	10.1	9	6.73	6.30	5.87	5.44	5.02		
	13.2	12	6.69	6.26	5.83	5.40	4.98		
	16.9	15.5	6.63	6.21	5.78	5.35	4.93		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Lo 9 (m³/min)	10			4.16	2.94	4.97	3.34	5.37	3.45	5.72	3.52	6.40	3.79	6.65	3.68
	12			4.16	2.94	4.97	3.34	5.37	3.45	5.71	3.52	6.38	3.78	6.62	3.66
	14			4.16	2.94	4.97	3.34	5.37	3.45	5.70	3.51	6.36	3.77	6.59	3.65
	16			4.16	2.94	4.97	3.34	5.37	3.45	5.69	3.51	6.34	3.76	6.56	3.64
	18			4.16	2.94	4.97	3.34	5.37	3.45	5.69	3.51	6.31	3.75	6.54	3.63
	20			4.16	2.94	4.97	3.34	5.37	3.45	5.68	3.50	6.29	3.74	6.51	3.62
	22			4.15	2.94	4.97	3.34	5.37	3.45	5.65	3.49	6.21	3.70	6.42	3.58
	24			4.14	2.93	4.96	3.34	5.37	3.45	5.63	3.48	6.13	3.67	6.33	3.53
	26			4.14	2.93	4.94	3.33	5.32	3.43	5.56	3.44	6.03	3.62	6.23	3.50
	28	3.75	2.87	4.14	2.93	4.92	3.32	5.27	3.40	5.49	3.41	5.94	3.58	6.13	3.46
	30	3.75	2.87	4.13	2.93	4.88	3.30	5.22	3.38	5.43	3.38	5.85	3.54	6.04	3.42
	32	3.75	2.87	4.12	2.92	4.84	3.28	5.17	3.35	5.37	3.35	5.76	3.50	5.95	3.38
	34	3.75	2.87	4.10	2.91	4.82	3.27	5.10	3.32	5.28	3.31	5.63	3.44	5.83	3.34
	35	3.75	2.87	4.10	2.91	4.82	3.27	5.07	3.30	5.24	3.29	5.57	3.42	5.77	3.31
	36	3.75	2.87	4.09	2.91	4.78	3.25	5.04	3.29	5.19	3.27	5.47	3.38	5.65	3.27
	38	3.75	2.87	4.08	2.90	4.71	3.21	4.99	3.27	5.09	3.23	5.27	3.29	5.43	3.18
39	3.75	2.87	4.08	2.90	4.67	3.20	4.97	3.26	5.04	3.20	5.17	3.25	5.32	3.14	
41	3.75	2.87	4.06	2.89	4.53	3.13	4.77	3.16	4.82	3.10	4.94	3.16	5.07	3.04	
43	3.75	2.87	4.05	2.89	4.39	3.07	4.56	3.07	4.61	3.01	4.71	3.06	4.82	2.95	

(i) Wall-mounted type (FDK)

Model **FDK22KXE6**

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Uhi	10			1.93	1.85	2.30	2.21	2.49	2.26	2.65	2.28	2.97	2.48	3.08	2.43		
	12			1.93	1.85	2.30	2.21	2.49	2.26	2.65	2.28	2.96	2.47	3.07	2.42		
	14			1.93	1.85	2.30	2.21	2.49	2.26	2.64	2.28	2.95	2.47	3.06	2.42		
	16			1.93	1.85	2.30	2.21	2.49	2.26	2.64	2.28	2.94	2.47	3.04	2.41		
	18			1.93	1.85	2.30	2.21	2.49	2.26	2.64	2.28	2.93	2.46	3.03	2.41		
	20			1.93	1.85	2.30	2.21	2.49	2.26	2.63	2.27	2.91	2.46	3.02	2.41		
	22			1.92	1.84	2.30	2.21	2.49	2.26	2.62	2.27	2.88	2.45	2.97	2.39		
	24			1.92	1.84	2.30	2.21	2.49	2.26	2.61	2.27	2.84	2.43	2.93	2.38		
	26			1.92	1.84	2.29	2.20	2.47	2.25	2.58	2.25	2.80	2.42	2.89	2.37		
	28	1.74	1.67	1.92	1.84	2.28	2.19	2.44	2.24	2.55	2.24	2.75	2.40	2.84	2.35		
9 (m³/min)	30	1.74	1.67	1.91	1.83	2.26	2.17	2.42	2.23	2.52	2.23	2.71	2.39	2.80	2.34		
	32	1.74	1.67	1.91	1.83	2.24	2.15	2.40	2.22	2.49	2.22	2.67	2.38	2.76	2.33		
	34	1.74	1.67	1.90	1.82	2.24	2.15	2.37	2.21	2.45	2.20	2.61	2.35	2.70	2.30		
	35	1.74	1.67	1.90	1.82	2.23	2.14	2.35	2.21	2.43	2.20	2.58	2.34	2.67	2.30		
	36	1.74	1.67	1.90	1.82	2.22	2.13	2.34	2.20	2.40	2.19	2.54	2.33	2.62	2.28		
	38	1.74	1.67	1.89	1.81	2.18	2.09	2.31	2.19	2.36	2.17	2.44	2.30	2.52	2.25		
	39	1.74	1.67	1.89	1.81	2.17	2.08	2.30	2.19	2.33	2.16	2.40	2.28	2.47	2.24		
	41	1.74	1.67	1.88	1.80	2.10	2.02	2.21	2.12	2.24	2.13	2.29	2.20	2.35	2.20		
	43	1.74	1.67	1.88	1.80	2.04	1.96	2.12	2.04	2.14	2.05	2.18	2.09	2.23	2.14		

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	1.60	1.60	1.60	1.60	1.60	
	-17.8	-18	1.70	1.70	1.70	1.70	1.70	
	-15.7	-16	1.81	1.81	1.81	1.81	1.81	
	-13.7	-14	1.91	1.91	1.91	1.91	1.91	
	-11.7	-12	2.01	2.01	2.01	2.01	2.01	
	-9.6	-10	2.12	2.12	2.12	2.12	2.12	
	-7.5	-8	2.24	2.24	2.24	2.24	2.24	
	-5.5	-6	2.37	2.37	2.37	2.37	2.37	
	-3.4	-4	2.46	2.45	2.45	2.43	2.40	
	-1.3	-2	2.54	2.53	2.53	2.48	2.43	
9 (m/min)	0.8	0	2.68	2.64	2.60	2.51	2.42	
	3.9	3	2.90	2.80	2.70	2.55	2.39	
	7.0	6	3.17	2.97	2.76	2.57	2.37	
	10.1	9	3.15	2.95	2.75	2.55	2.35	
	13.2	12	3.13	2.93	2.73	2.53	2.33	
	16.9	15.5	3.11	2.91	2.71	2.51	2.31	

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Hi	10			1.80	1.73	2.16	2.04	2.33	2.06	2.48	2.08	2.78	2.26	2.89	2.21		
	12			1.80	1.73	2.16	2.04	2.33	2.06	2.48	2.08	2.77	2.26	2.87	2.21		
	14			1.80	1.73	2.16	2.04	2.33	2.06	2.47	2.08	2.76	2.25	2.86	2.20		
	16			1.80	1.73	2.16	2.04	2.33	2.06	2.47	2.08	2.75	2.25	2.85	2.20		
	18			1.80	1.73	2.16	2.04	2.33	2.06	2.47	2.08	2.74	2.25	2.84	2.20		
	20			1.80	1.73	2.16	2.04	2.33	2.06	2.46	2.08	2.73	2.24	2.82	2.19		
	22			1.80	1.73	2.15	2.03	2.33	2.06	2.45	2.07	2.69	2.23	2.78	2.18		
	24			1.80	1.73	2.15	2.03	2.33	2.06	2.44	2.07	2.66	2.22	2.75	2.17		
	26			1.80	1.73	2.14	2.03	2.31	2.06	2.41	2.06	2.62	2.21	2.70	2.16		
	28			1.80	1.73	2.13	2.02	2.29	2.05	2.38	2.05	2.58	2.19	2.66	2.14		
8 (m³/min)	30	1.63	1.56	1.79	1.72	2.12	2.02	2.27	2.04	2.36	2.04	2.54	2.18	2.62	2.13		
	32	1.63	1.56	1.79	1.72	2.10	2.01	2.24	2.03	2.33	2.03	2.50	2.17	2.58	2.12		
	34	1.63	1.56	1.78	1.71	2.09	2.01	2.21	2.02	2.29	2.01	2.44	2.15	2.53	2.10		
	35	1.63	1.56	1.78	1.71	2.09	2.01	2.20	2.00	2.27	2.01	2.42	2.14	2.50	2.09		
	36	1.63	1.56	1.78	1.71	2.07	1.99	2.19	2.01	2.25	2.00	2.37	2.12	2.45	2.08		
	38	1.63	1.56	1.77	1.70	2.04	1.96	2.17	2.01	2.21	1.99	2.29	2.10	2.36	2.05		
	39	1.63	1.56	1.77	1.70	2.03	1.95	2.16	2.00	2.19	1.98	2.24	2.08	2.31	2.04		
	41	1.63	1.56	1.76	1.69	1.97	1.89	2.07	1.97	2.09	1.94	2.14	2.05	2.20	2.00		
	43	1.63	1.56	1.76	1.69	1.91	1.83	1.98	1.90	2.00	1.91	2.05	1.97	2.09	1.97		

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	1.45	1.45	1.45	1.45	1.45	
	-17.8	-18	1.54	1.54	1.54	1.54	1.54	
	-15.7	-16	1.64	1.64	1.64	1.64	1.64	
	-13.7	-14	1.73	1.73	1.73	1.73	1.73	
	-11.7	-12	1.82	1.82	1.82	1.82	1.82	
	-9.6	-10	1.92	1.92	1.92	1.92	1.92	
	-7.5	-8	2.03	2.03	2.03	2.03	2.03	
	-5.5	-6	2.15	2.15	2.15	2.15	2.15	
	-3.4	-4	2.23	2.22	2.22	2.20	2.18	
	-1.3	-2	2.30	2.29	2.29	2.24	2.20	
8 (m/min)	0.8	0	2.43	2.39	2.36	2.27	2.19	
	3.9	3	2.63	2.54	2.44	2.31	2.17	
	7.0	6	2.88	2.69	2.50	2.33	2.15	
	10.1	9	2.86	2.67	2.49	2.31	2.13	
	13.2	12	2.84	2.66	2.48	2.29	2.11	
	16.9	15.5	2.82	2.63	2.45	2.27	2.09	

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Me	10			1.66	1.59	1.99	1.81	2.15	1.84	2.29	1.86	2.56	2.01	2.66	1.97		
	12			1.66	1.59	1.99	1.81	2.15	1.84	2.29	1.86	2.56	2.01	2.65	1.96		
	14			1.66	1.59	1.99	1.81	2.15	1.84	2.28	1.85	2.55	2.01	2.64	1.96		
	16			1.66	1.59	1.99	1.81	2.15	1.84	2.28	1.85	2.54	2.00	2.63	1.96		
	18			1.66	1.59	1.99	1.81	2.15	1.84	2.28	1.85	2.53	2.00	2.62	1.96		
	20			1.66	1.59	1.99	1.81	2.15	1.84	2.27	1.85	2.52	2.00	2.61	1.95		
	22			1.66	1.59	1.99	1.81	2.15	1.84	2.26	1.85	2.49	1.99	2.57	1.94		
	24			1.66	1.59	1.99	1.81	2.15	1.84	2.25	1.84	2.45	1.97	2.53	1.93		
	26			1.66	1.59	1.98	1.81	2.13	1.83	2.23	1.84	2.42	1.96	2.50	1.92		
	28	1.50	1.44	1.66	1.59	1.97	1.80	2.11	1.82	2.20	1.82	2.38	1.95	2.46	1.91		
7 (m/min)	30	1.50	1.44	1.65	1.58	1.95	1.79	2.09	1.82	2.17	1.81	2.34	1.94	2.42	1.89		
	32	1.50	1.44	1.65	1.58	1.94	1.79	2.07	1.81	2.15	1.81	2.30	1.92	2.38	1.88		
	34	1.50	1.44	1.64	1.57	1.93	1.78	2.04	1.80	2.11	1.79	2.26	1.91	2.33	1.87		
	35	1.50	1.44	1.64	1.57	1.93	1.78	2.03	1.79	2.10	1.79	2.23	1.90	2.31	1.86		
	36	1.50	1.44	1.64	1.57	1.91	1.78	2.02	1.79	2.08	1.78	2.19	1.89	2.26	1.84		
	38	1.50	1.44	1.63	1.56	1.88	1.77	2.00	1.78	2.04	1.77	2.11	1.86	2.17	1.82		
	39	1.50	1.44	1.63	1.56	1.87	1.76	1.99	1.78	2.02	1.76	2.07	1.85	2.13	1.80		
	41	1.50	1.44	1.63	1.56	1.81	1.74	1.91	1.75	1.93	1.72	1.98	1.81	2.03	1.77		
	43	1.50	1.44	1.62	1.56	1.76	1.69	1.83	1.72	1.85	1.70	1.89	1.78	1.93	1.74		

Model FDK28KXE6

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			2.46	2.19	2.94	2.48	3.18	2.52	3.38	2.55	3.79	2.76	3.93	2.70
	12			2.46	2.19	2.94	2.48	3.18	2.52	3.38	2.55	3.78	2.76	3.92	2.69
	14			2.46	2.19	2.94	2.48	3.18	2.52	3.37	2.55	3.76	2.75	3.90	2.69
	16			2.46	2.19	2.94	2.48	3.18	2.52	3.37	2.55	3.75	2.75	3.88	2.68
	18			2.46	2.19	2.94	2.48	3.18	2.52	3.36	2.55	3.73	2.74	3.87	2.68
	20			2.46	2.19	2.94	2.48	3.18	2.52	3.36	2.55	3.72	2.74	3.85	2.67
	22			2.46	2.19	2.94	2.48	3.18	2.52	3.34	2.54	3.67	2.72	3.80	2.66
	24			2.45	2.19	2.94	2.48	3.18	2.52	3.33	2.54	3.63	2.71	3.75	2.64
9 (m/min)	26			2.45	2.19	2.92	2.47	3.15	2.51	3.29	2.52	3.57	2.69	3.69	2.62
	28	2.22	2.13	2.45	2.19	2.91	2.47	3.12	2.50	3.25	2.50	3.51	2.67	3.63	2.60
	30	2.22	2.13	2.44	2.18	2.89	2.46	3.09	2.49	3.21	2.49	3.46	2.65	3.58	2.59
	32	2.22	2.13	2.44	2.18	2.87	2.45	3.06	2.48	3.18	2.47	3.41	2.63	3.52	2.56
	34	2.22	2.13	2.43	2.18	2.86	2.45	3.02	2.46	3.12	2.45	3.33	2.60	3.45	2.54
	35	2.22	2.13	2.42	2.17	2.85	2.44	3.00	2.46	3.10	2.44	3.30	2.59	3.41	2.53
	36	2.22	2.13	2.42	2.17	2.83	2.44	2.99	2.45	3.07	2.43	3.24	2.57	3.35	2.51
	38	2.22	2.13	2.42	2.17	2.79	2.42	2.96	2.44	3.01	2.41	3.12	2.53	3.21	2.46
	39	2.22	2.13	2.41	2.17	2.76	2.41	2.94	2.43	2.98	2.40	3.06	2.51	3.15	2.45
41	2.22	2.13	2.40	2.17	2.68	2.38	2.82	2.39	2.85	2.35	2.92	2.46	3.00	2.40	
43	2.22	2.13	2.40	2.17	2.60	2.34	2.70	2.34	2.73	2.31	2.79	2.42	2.85	2.36	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.05	2.05	2.05	2.05	2.05	
	-17.8	-18	2.18	2.18	2.18	2.18	2.18	
	-15.7	-16	2.31	2.31	2.31	2.31	2.31	
	-13.7	-14	2.44	2.44	2.44	2.44	2.44	
	-11.7	-12	2.57	2.57	2.57	2.57	2.57	
	-9.6	-10	2.71	2.71	2.71	2.71	2.71	
	-7.5	-8	2.87	2.87	2.87	2.87	2.87	
	-5.5	-6	3.04	3.04	3.04	3.04	3.04	
	-3.4	-4	3.14	3.14	3.13	3.10	3.07	
	-1.3	-2	3.25	3.24	3.23	3.17	3.11	
9 (m/min)	0.8	0	3.42	3.38	3.33	3.21	3.09	
	3.9	3	3.72	3.58	3.45	3.26	3.06	
	7.0	6	4.06	3.79	3.53	3.28	3.04	
	10.1	9	4.03	3.77	3.52	3.26	3.01	
	13.2	12	4.01	3.75	3.49	3.24	2.98	
	16.9	15.5	3.98	3.72	3.46	3.21	2.95	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.30	2.01	2.74	2.27	2.97	2.32	3.16	2.34	3.54	2.53	3.67	2.47
	12			2.30	2.01	2.74	2.27	2.97	2.32	3.15	2.34	3.52	2.52	3.66	2.46
	14			2.30	2.01	2.74	2.27	2.97	2.32	3.15	2.34	3.51	2.52	3.64	2.46
	16			2.30	2.01	2.74	2.27	2.97	2.32	3.14	2.33	3.50	2.52	3.63	2.46
	18			2.30	2.01	2.74	2.27	2.97	2.32	3.14	2.33	3.49	2.51	3.61	2.45
	20			2.30	2.01	2.74	2.27	2.97	2.32	3.14	2.33	3.47	2.51	3.59	2.44
	22			2.29	2.01	2.74	2.27	2.97	2.32	3.12	2.33	3.43	2.49	3.54	2.43
	24			2.29	2.01	2.74	2.27	2.97	2.32	3.11	2.32	3.39	2.48	3.50	2.41
	26			2.29	2.01	2.73	2.26	2.94	2.30	3.07	2.31	3.33	2.46	3.44	2.39
	28	2.07	1.99	2.28	2.00	2.72	2.26	2.91	2.29	3.03	2.29	3.28	2.44	3.39	2.38
8 (m/min)	30	2.07	1.99	2.28	2.00	2.70	2.25	2.88	2.28	3.00	2.28	3.23	2.42	3.34	2.36
	32	2.07	1.99	2.27	2.00	2.67	2.24	2.86	2.27	2.96	2.26	3.18	2.40	3.29	2.35
	34	2.07	1.99	2.27	2.00	2.66	2.23	2.82	2.26	2.92	2.25	3.11	2.38	3.22	2.32
	35	2.07	1.99	2.26	1.99	2.66	2.23	2.80	2.24	2.89	2.24	3.08	2.37	3.18	2.31
	36	2.07	1.99	2.26	1.99	2.64	2.23	2.79	2.24	2.86	2.23	3.02	2.35	3.12	2.29
	38	2.07	1.99	2.25	1.99	2.60	2.21	2.76	2.23	2.81	2.20	2.91	2.31	3.00	2.25
	39	2.07	1.99	2.25	1.99	2.58	2.20	2.74	2.22	2.78	2.19	2.86	2.29	2.94	2.23
	41	2.07	1.99	2.24	1.99	2.50	2.17	2.63	2.18	2.66	2.15	2.73	2.24	2.80	2.19
	43	2.07	1.99	2.24	1.99	2.43	2.14	2.52	2.14	2.55	2.11	2.60	2.20	2.66	2.14

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	1.86	1.86	1.86	1.86	1.86	
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	
8 (m³/min)	0.8	0	3.10	3.06	3.02	2.91	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.12	1.81	2.54	2.05	2.75	2.10	2.92	2.12	3.27	2.29	3.40	2.24
	12			2.12	1.81	2.54	2.05	2.75	2.10	2.92	2.12	3.26	2.29	3.38	2.23
	14			2.12	1.81	2.54	2.05	2.75	2.10	2.91	2.11	3.25	2.28	3.37	2.22
	16			2.12	1.81	2.54	2.05	2.75	2.10	2.91	2.11	3.24	2.28	3.35	2.22
	18			2.12	1.81	2.54	2.05	2.75	2.10	2.91	2.11	3.22	2.27	3.34	2.21
	20			2.12	1.81	2.54	2.05	2.75	2.10	2.90	2.11	3.21	2.27	3.32	2.21
	22			2.12	1.81	2.54	2.05	2.75	2.10	2.89	2.11	3.17	2.25	3.28	2.19
	24			2.12	1.81	2.54	2.05	2.75	2.10	2.87	2.10	3.13	2.24	3.23	2.18
	26			2.12	1.81	2.52	2.05	2.72	2.08	2.84	2.09	3.08	2.22	3.18	2.16
	28	1.92	1.79	2.11	1.81	2.51	2.04	2.69	2.07	2.81	2.08	3.03	2.20	3.13	2.14
7 (m/min)	30	1.92	1.79	2.11	1.81	2.49	2.03	2.67	2.06	2.77	2.06	2.99	2.19	3.09	2.13
	32	1.92	1.79	2.10	1.81	2.47	2.03	2.64	2.05	2.74	2.05	2.94	2.17	3.04	2.11
	34	1.92	1.79	2.10	1.81	2.46	2.02	2.61	2.04	2.70	2.03	2.88	2.15	2.98	2.10
	35	1.92	1.79	2.09	1.80	2.46	2.02	2.59	2.02	2.68	2.03	2.85	2.14	2.95	2.09
	36	1.92	1.79	2.09	1.80	2.44	2.01	2.58	2.03	2.65	2.01	2.80	2.12	2.89	2.07
	38	1.92	1.79	2.08	1.80	2.40	2.00	2.55	2.02	2.60	1.99	2.69	2.08	2.77	2.03
	39	1.92	1.79	2.08	1.80	2.39	1.99	2.54	2.01	2.57	1.98	2.64	2.06	2.72	2.01
	41	1.92	1.79	2.08	1.80	2.31	1.96	2.43	1.97	2.46	1.94	2.53	2.02	2.59	1.97
43	1.92	1.79	2.07	1.79	2.24	1.93	2.33	1.93	2.36	1.90	2.41	1.98	2.46	1.92	

Model FDK36KXE6

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.10	2.71	3.70	3.05	4.01	3.12	4.26	3.16	4.78	3.42	4.96	3.33
	12			3.10	2.71	3.70	3.05	4.01	3.12	4.26	3.16	4.76	3.41	4.94	3.32
	14			3.10	2.71	3.70	3.05	4.01	3.12	4.25	3.15	4.74	3.40	4.92	3.32
	16			3.10	2.71	3.70	3.05	4.01	3.12	4.25	3.15	4.72	3.39	4.89	3.31
	18			3.10	2.71	3.70	3.05	4.01	3.12	4.24	3.15	4.71	3.39	4.87	3.30
	20			3.10	2.71	3.70	3.05	4.01	3.12	4.23	3.14	4.69	3.38	4.85	3.29
	22			3.09	2.71	3.70	3.05	4.01	3.12	4.21	3.14	4.63	3.36	4.79	3.28
	24			3.09	2.71	3.70	3.05	4.01	3.12	4.19	3.13	4.57	3.34	4.72	3.25
	26			3.09	2.71	3.68	3.04	3.97	3.10	4.15	3.11	4.50	3.31	4.65	3.23
	28	2.80	2.68	3.08	2.70	3.67	3.04	3.93	3.09	4.10	3.09	4.43	3.29	4.57	3.21
	30	2.80	2.68	3.08	2.70	3.64	3.02	3.89	3.07	4.05	3.07	4.36	3.26	4.51	3.19
11 (m³/min)	32	2.80	2.68	3.07	2.70	3.61	3.01	3.86	3.05	4.00	3.05	4.29	3.24	4.44	3.16
	34	2.80	2.68	3.06	2.69	3.60	3.01	3.81	3.03	3.94	3.02	4.20	3.20	4.35	3.13
	35	2.80	2.68	3.05	2.69	3.59	3.00	3.78	3.02	3.91	3.01	4.16	3.19	4.30	3.11
	36	2.80	2.68	3.05	2.69	3.56	2.99	3.76	3.01	3.87	2.99	4.08	3.16	4.22	3.09
	38	2.80	2.68	3.04	2.68	3.51	2.97	3.72	3.00	3.79	2.96	3.93	3.11	4.05	3.04
	39	2.80	2.68	3.04	2.68	3.48	2.96	3.70	2.99	3.76	2.95	3.86	3.09	3.97	3.01
	41	2.80	2.68	3.03	2.68	3.38	2.92	3.55	2.93	3.60	2.89	3.69	3.03	3.78	2.95
	43	2.80	2.68	3.02	2.68	3.27	2.88	3.40	2.87	3.44	2.83	3.51	2.96	3.59	2.89

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi	-19.8	-20	2.50	2.50	2.50	2.50	2.50
	-17.8	-18	2.66	2.66	2.66	2.66	2.66
	-15.7	-16	2.82	2.82	2.82	2.82	2.82
	-13.7	-14	2.98	2.98	2.98	2.98	2.98
	-11.7	-12	3.14	3.14	3.14	3.14	3.14
	-9.6	-10	3.30	3.30	3.30	3.30	3.30
	-7.5	-8	3.51	3.51	3.51	3.51	3.51
	-5.5	-6	3.71	3.71	3.71	3.71	3.71
	-3.4	-4	3.84	3.83	3.83	3.79	3.75
	-1.3	-2	3.97	3.95	3.94	3.87	3.79
	0.8	0	4.18	4.12	4.06	3.92	3.77
11 (m³/min)	3.9	3	4.54	4.37	4.21	3.98	3.74
	7.0	6	4.96	4.63	4.31	4.01	3.71
	10.1	9	4.92	4.61	4.29	3.98	3.67
	13.2	12	4.89	4.58	4.27	3.95	3.64
	16.9	15.5	4.85	4.54	4.23	3.92	3.60

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 "CDB 14 "CWB		23 "CDB 16 "CWB		26 "CDB 18 "CWB		27 "CDB 19 "CWB		28 "CDB 20 "CWB		31 "CDB 22 "CWB		33 "CDB 24 "CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.95	2.52	3.53	2.85	3.82	2.91	4.06	2.94	4.55	3.18	4.72	3.10
	12			2.95	2.52	3.53	2.85	3.82	2.91	4.05	2.94	4.53	3.17	4.70	3.10
	14			2.95	2.52	3.53	2.85	3.82	2.91	4.05	2.94	4.51	3.17	4.68	3.09
	16			2.95	2.52	3.53	2.85	3.82	2.91	4.04	2.93	4.50	3.16	4.66	3.08
	18			2.95	2.52	3.53	2.85	3.82	2.91	4.04	2.93	4.48	3.15	4.64	3.08
	20			2.95	2.52	3.53	2.85	3.82	2.91	4.03	2.93	4.47	3.15	4.62	3.07
	22			2.95	2.52	3.53	2.85	3.82	2.91	4.01	2.92	4.41	3.13	4.56	3.05
	24			2.94	2.51	3.52	2.84	3.82	2.91	3.99	2.91	4.35	3.11	4.49	3.02
	26			2.94	2.51	3.51	2.84	3.78	2.89	3.95	2.90	4.28	3.08	4.43	3.00
	28	2.66	2.49	2.94	2.51	3.49	2.83	3.74	2.88	3.90	2.88	4.22	3.06	4.36	2.98
	30	2.66	2.49	2.93	2.51	3.47	2.82	3.71	2.87	3.86	2.86	4.15	3.03	4.29	2.96
10 (m³/min)	32	2.66	2.49	2.92	2.51	3.44	2.81	3.67	2.85	3.81	2.84	4.09	3.01	4.23	2.94
	34	2.66	2.49	2.91	2.50	3.43	2.81	3.62	2.83	3.75	2.82	4.00	2.98	4.14	2.91
	35	2.66	2.49	2.91	2.50	3.42	2.80	3.60	2.81	3.72	2.81	3.96	2.97	4.09	2.89
	36	2.66	2.49	2.91	2.50	3.39	2.78	3.58	2.81	3.68	2.79	3.89	2.94	4.02	2.87
	38	2.66	2.49	2.90	2.50	3.34	2.76	3.55	2.80	3.61	2.75	3.74	2.89	3.86	2.82
	39	2.66	2.49	2.89	2.49	3.32	2.75	3.53	2.79	3.58	2.74	3.67	2.86	3.78	2.79
	41	2.66	2.49	2.88	2.49	3.22	2.71	3.38	2.72	3.43	2.69	3.51	2.81	3.60	2.73
	43	2.66	2.49	2.87	2.49	3.12	2.67	3.24	2.67	3.28	2.63	3.35	2.75	3.42	2.67

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	2.32	2.32	2.32	2.32	2.32
	-17.8	-18	2.47	2.47	2.47	2.47	2.47
	-15.7	-16	2.62	2.62	2.62	2.62	2.62
	-13.7	-14	2.77	2.77	2.77	2.77	2.77
	-11.7	-12	2.92	2.92	2.92	2.92	2.92
	-9.6	-10	3.07	3.07	3.07	3.07	3.07
	-7.5	-8	3.25	3.25	3.25	3.25	3.25
	-5.5	-6	3.44	3.44	3.44	3.44	3.44
	-3.4	-4	3.56	3.56	3.55	3.52	3.48
	-1.3	-2	3.68	3.67	3.66	3.59	3.52
	0.8	0	3.88	3.83	3.77	3.64	3.50
10 (m³/min)	3.9	3	4.21	4.06	3.91	3.69	3.47
	7.0	6	4.60	4.30	4.00	3.72	3.44
	10.1	9	4.57	4.28	3.99	3.70	3.41
	13.2	12	4.54	4.25	3.96	3.67	3.38
	16.9	15.5	4.51	4.22	3.93	3.64	3.35

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.79	2.33	3.33	2.64	3.60	2.70	3.83	2.73	4.30	2.95	4.46	2.88
	12			2.79	2.33	3.33	2.64	3.60	2.70	3.83	2.73	4.28	2.94	4.44	2.87
	14			2.79	2.33	3.33	2.64	3.60	2.70	3.82	2.72	4.26	2.94	4.42	2.86
	16			2.79	2.33	3.33	2.64	3.60	2.70	3.82	2.72	4.25	2.93	4.40	2.86
	18			2.79	2.33	3.33	2.64	3.60	2.70	3.81	2.72	4.23	2.93	4.38	2.85
	20			2.79	2.33	3.33	2.64	3.60	2.70	3.81	2.72	4.22	2.92	4.36	2.84
	22			2.78	2.33	3.33	2.64	3.60	2.70	3.79	2.71	4.16	2.90	4.30	2.82
	24			2.78	2.33	3.33	2.64	3.60	2.70	3.77	2.70	4.11	2.88	4.24	2.80
	26			2.78	2.33	3.31	2.63	3.57	2.68	3.73	2.69	4.05	2.86	4.18	2.78
	28	2.52	2.30	2.77	2.32	3.30	2.63	3.54	2.67	3.68	2.67	3.98	2.84	4.11	2.76
	30	2.52	2.30	2.77	2.32	3.27	2.62	3.50	2.66	3.64	2.65	3.92	2.81	4.05	2.74
9 (m³/min)	32	2.52	2.30	2.76	2.32	3.25	2.61	3.47	2.64	3.60	2.64	3.86	2.79	3.99	2.72
	34	2.52	2.30	2.75	2.31	3.24	2.61	3.42	2.62	3.54	2.62	3.78	2.76	3.91	2.69
	35	2.52	2.30	2.75	2.31	3.23	2.60	3.40	2.62	3.51	2.60	3.74	2.75	3.87	2.68
	36	2.52	2.30	2.74	2.31	3.21	2.59	3.38	2.61	3.48	2.59	3.67	2.72	3.79	2.65
	38	2.52	2.30	2.74	2.31	3.16	2.57	3.35	2.60	3.41	2.57	3.54	2.68	3.64	2.60
	39	2.52	2.30	2.73	2.31	3.13	2.56	3.33	2.59	3.38	2.55	3.47	2.65	3.57	2.58
	41	2.52	2.30	2.72	2.30	3.04	2.52	3.20	2.53	3.24	2.50	3.31	2.59	3.40	2.52
	43	2.52	2.30	2.71	2.30	2.94	2.48	3.06	2.48	3.09	2.44	3.16	2.54	3.23	2.47

Model **FDK45KXE6**

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.89	3.48	4.64	3.93	5.02	4.00	5.35	4.05	5.99	4.38	6.22	4.28
	12			3.89	3.48	4.64	3.93	5.02	4.00	5.34	4.04	5.97	4.37	6.19	4.27
	14			3.89	3.48	4.64	3.93	5.02	4.00	5.33	4.04	5.94	4.36	6.16	4.26
	16			3.89	3.48	4.64	3.93	5.02	4.00	5.32	4.04	5.92	4.35	6.14	4.25
	18			3.89	3.48	4.64	3.93	5.02	4.00	5.32	4.04	5.90	4.34	6.11	4.24
	20			3.89	3.48	4.64	3.93	5.02	4.00	5.31	4.03	5.88	4.34	6.08	4.23
	22			3.88	3.47	4.64	3.93	5.02	4.00	5.28	4.02	5.81	4.31	6.00	4.20
	24			3.87	3.47	4.64	3.93	5.02	4.00	5.26	4.01	5.73	4.28	5.92	4.18
	26			3.87	3.47	4.62	3.92	4.98	3.99	5.20	3.99	5.64	4.25	5.83	4.15
14 (m/min)	28	3.51	3.37	3.87	3.47	4.60	3.91	4.93	3.97	5.14	3.97	5.55	4.22	5.74	4.12
	30	3.51	3.37	3.86	3.47	4.56	3.90	4.88	3.95	5.08	3.94	5.47	4.19	5.65	4.09
	32	3.51	3.37	3.85	3.46	4.53	3.88	4.83	3.93	5.02	3.92	5.38	4.16	5.56	4.06
	34	3.51	3.37	3.84	3.46	4.51	3.88	4.77	3.90	4.94	3.89	5.27	4.12	5.45	4.03
	35	3.51	3.37	3.83	3.45	4.50	3.87	4.74	3.89	4.90	3.88	5.21	4.10	5.39	4.01
	36	3.51	3.37	3.83	3.45	4.47	3.86	4.72	3.88	4.85	3.86	5.12	4.07	5.29	3.98
	38	3.51	3.37	3.82	3.45	4.40	3.83	4.67	3.86	4.76	3.82	4.93	4.01	5.08	3.91
	39	3.51	3.37	3.81	3.44	4.37	3.82	4.65	3.86	4.71	3.81	4.84	3.98	4.97	3.85
41	3.51	3.37	3.80	3.44	4.24	3.76	4.46	3.78	4.51	3.73	4.62	3.90	4.74	3.78	
43	3.51	3.37	3.78	3.43	4.11	3.71	4.27	3.71	4.31	3.66	4.41	3.81	4.51	3.71	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	3.13	3.13	3.13	3.13	3.13	
	-17.8	-18	3.33	3.33	3.33	3.33	3.33	
	-15.7	-16	3.53	3.53	3.53	3.53	3.53	
	-13.7	-14	3.73	3.73	3.73	3.73	3.73	
	-11.7	-12	3.93	3.93	3.93	3.93	3.93	
	-9.6	-10	4.13	4.13	4.13	4.13	4.13	
	-7.5	-8	4.38	4.38	4.38	4.38	4.38	
	-5.5	-6	4.64	4.64	4.64	4.64	4.64	
	-3.4	-4	4.80	4.79	4.78	4.74	4.69	
	-1.3	-2	4.96	4.95	4.93	4.84	4.74	
14 (m³/min)	0.8	0	5.23	5.15	5.08	4.90	4.72	
	3.9	3	5.67	5.47	5.27	4.97	4.68	
	7.0	6	6.20	5.79	5.39	5.01	4.64	
	10.1	9	6.16	5.76	5.37	4.98	4.59	
	13.2	12	6.12	5.73	5.34	4.95	4.55	
	16.9	15.5	6.07	5.68	5.29	4.90	4.51	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			3.69	3.01	4.41	3.40	4.77	3.48	5.07	3.52	5.68	3.81	5.90	3.71
	12			3.69	3.01	4.41	3.40	4.77	3.48	5.07	3.52	5.66	3.80	5.88	3.70
	14			3.69	3.01	4.41	3.40	4.77	3.48	5.06	3.52	5.64	3.79	5.85	3.69
	16			3.69	3.01	4.41	3.40	4.77	3.48	5.05	3.51	5.62	3.78	5.83	3.69
	18			3.69	3.01	4.41	3.40	4.77	3.48	5.05	3.51	5.60	3.78	5.80	3.67
	20			3.69	3.01	4.41	3.40	4.77	3.48	5.04	3.51	5.58	3.77	5.78	3.67
11 (m/min)	22			3.68	3.01	4.41	3.40	4.77	3.48	5.02	3.50	5.51	3.74	5.70	3.63
	24			3.68	3.01	4.41	3.40	4.77	3.48	4.99	3.49	5.44	3.71	5.62	3.61
	26			3.68	3.01	4.39	3.39	4.73	3.46	4.93	3.47	5.35	3.68	5.53	3.58
	28	3.33	2.96	3.67	3.00	4.37	3.39	4.68	3.44	4.88	3.44	5.27	3.65	5.44	3.55
	30	3.33	2.96	3.66	3.00	4.33	3.37	4.64	3.43	4.82	3.42	5.19	3.62	5.36	3.52
	32	3.33	2.96	3.65	3.00	4.30	3.36	4.59	3.40	4.76	3.40	5.11	3.59	5.28	3.49
	34	3.33	2.96	3.64	2.99	4.28	3.35	4.53	3.38	4.69	3.37	5.00	3.55	5.17	3.45
	35	3.33	2.96	3.64	2.99	4.28	3.35	4.50	3.38	4.65	3.35	4.95	3.53	5.12	3.44
	36	3.33	2.96	3.63	2.99	4.24	3.33	4.48	3.36	4.60	3.33	4.86	3.49	5.02	3.40
	38	3.33	2.96	3.62	2.98	4.18	3.31	4.43	3.34	4.52	3.30	4.68	3.43	4.82	3.34
39	3.33	2.96	3.62	2.98	4.15	3.29	4.41	3.33	4.47	3.28	4.59	3.40	4.72	3.30	
41	3.33	2.96	3.61	2.98	4.02	3.24	4.23	3.26	4.28	3.21	4.39	3.33	4.50	3.23	
43	3.33	2.96	3.59	2.97	3.90	3.19	4.05	3.19	4.09	3.14	4.18	3.25	4.28	3.16	

Air flow	Outdoor air temp,		Indoor air temp,				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.27	3.27	3.27	3.27	3.27
	-13.7	-14	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65
	-9.6	-10	3.83	3.83	3.83	3.83	3.83
	-7.5	-8	4.07	4.07	4.07	4.07	4.07
	-5.5	-6	4.30	4.30	4.30	4.30	4.30
	-3.4	-4	4.45	4.44	4.44	4.39	4.35
	-1.3	-2	4.60	4.59	4.58	4.49	4.40
11 (m³/min)	0.8	0	4.85	4.78	4.71	4.54	4.38
	3.9	3	5.26	5.08	4.89	4.61	4.34
	7.0	6	5.75	5.38	5.00	4.65	4.30
	10.1	9	5.71	5.35	4.98	4.62	4.26
	13.2	12	5.68	5.31	4.95	4.59	4.23
	16.9	15.5	5.63	5.27	4.91	4.54	4.18

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			3.25	2.57	3.88	2.90	4.20	2.97	4.47	3.02	5.00	3.25	5.19	3.16
	12			3.25	2.57	3.88	2.90	4.20	2.97	4.46	3.01	4.98	3.24	5.17	3.16
	14			3.25	2.57	3.88	2.90	4.20	2.97	4.45	3.01	4.97	3.24	5.15	3.15
	16			3.25	2.57	3.88	2.90	4.20	2.97	4.45	3.01	4.95	3.23	5.13	3.14
	18			3.25	2.57	3.88	2.90	4.20	2.97	4.44	3.01	4.93	3.22	5.10	3.13
	20			3.25	2.57	3.88	2.90	4.20	2.97	4.44	3.01	4.91	3.22	5.08	3.12
	22			3.24	2.56	3.88	2.90	4.20	2.97	4.42	2.99	4.85	3.19	5.01	3.10
	24			3.24	2.56	3.88	2.90	4.20	2.97	4.39	2.98	4.79	3.17	4.94	3.08
	26			3.23	2.56	3.86	2.89	4.16	2.95	4.34	2.96	4.71	3.14	4.87	3.05
	28	2.93	2.52	3.23	2.56	3.84	2.88	4.12	2.94	4.29	2.94	4.64	3.11	4.79	3.02
9 (m/min)	30	2.93	2.52	3.22	2.55	3.81	2.87	4.08	2.92	4.24	2.92	4.57	3.08	4.72	3.00
	32	2.93	2.52	3.22	2.55	3.78	2.86	4.04	2.90	4.19	2.90	4.50	3.05	4.65	2.97
	34	2.93	2.52	3.20	2.55	3.77	2.85	3.99	2.88	4.12	2.87	4.40	3.02	4.55	2.93
	35	2.93	2.52	3.20	2.55	3.76	2.85	3.96	2.89	4.09	2.86	4.35	3.00	4.50	2.92
	36	2.93	2.52	3.20	2.55	3.73	2.84	3.94	2.86	4.05	2.84	4.27	2.97	4.42	2.89
	38	2.93	2.52	3.19	2.54	3.68	2.82	3.90	2.85	3.97	2.81	4.12	2.91	4.24	2.83
	39	2.93	2.52	3.18	2.54	3.65	2.80	3.88	2.84	3.93	2.79	4.04	2.88	4.15	2.80
	41	2.93	2.52	3.17	2.53	3.54	2.76	3.72	2.77	3.77	2.73	3.86	2.82	3.96	2.74
	43	2.93	2.52	3.16	2.53	3.43	2.71	3.56	2.71	3.60	2.66	3.68	2.75	3.76	2.67

Model FDK56KXE6

Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			4.76	3.84	5.69	4.34	6.16	4.45	6.55	4.51	7.34	4.86	7.62	4.74
	12			4.76	3.84	5.69	4.34	6.16	4.45	6.54	4.50	7.31	4.85	7.59	4.73
	14			4.76	3.84	5.69	4.34	6.16	4.45	6.53	4.50	7.29	4.84	7.56	4.71
	16			4.76	3.84	5.69	4.34	6.16	4.45	6.53	4.50	7.26	4.83	7.52	4.70
	18			4.76	3.84	5.69	4.34	6.16	4.45	6.52	4.49	7.23	4.82	7.49	4.69
	20			4.76	3.84	5.69	4.34	6.16	4.45	6.51	4.49	7.21	4.81	7.46	4.68
	22			4.76	3.84	5.69	4.34	6.16	4.45	6.48	4.48	7.12	4.78	7.35	4.64
	24			4.75	3.84	5.69	4.34	6.16	4.45	6.45	4.47	7.02	4.74	7.25	4.61
	26			4.74	3.83	5.66	4.33	6.10	4.43	6.37	4.43	6.91	4.70	7.14	4.57
	28	4.30	3.79	4.74	3.83	5.64	4.32	6.04	4.39	6.30	4.41	6.80	4.66	7.03	4.53
14 (m³/min)	30	4.30	3.79	4.73	3.83	5.59	4.30	5.98	4.37	6.22	4.37	6.70	4.62	6.92	4.50
	32	4.30	3.79	4.72	3.82	5.55	4.29	5.93	4.35	6.15	4.34	6.60	4.58	6.82	4.46
	34	4.30	3.79	4.70	3.81	5.53	4.28	5.85	4.32	6.05	4.30	6.46	4.53	6.68	4.41
	35	4.30	3.79	4.69	3.81	5.52	4.27	5.81	4.36	6.00	4.28	6.39	4.50	6.61	4.38
	36	4.30	3.79	4.69	3.81	5.48	4.26	5.78	4.29	5.94	4.26	6.27	4.46	6.48	4.34
	38	4.30	3.79	4.68	3.80	5.39	4.22	5.72	4.26	5.83	4.21	6.04	4.37	6.22	4.25
	39	4.30	3.79	4.67	3.80	5.35	4.20	5.69	4.25	5.77	4.19	5.93	4.33	6.10	4.21
	41	4.30	3.79	4.65	3.79	5.19	4.13	5.46	4.16	5.53	4.10	5.66	4.24	5.81	4.12
	43	4.30	3.79	4.64	3.79	5.03	4.07	5.23	4.06	5.29	4.00	5.40	4.15	5.52	4.03

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	3.86	3.86	3.86	3.86	3.86	3.86
	-17.8	-18	4.11	4.11	4.11	4.11	4.11	4.11
	-15.7	-16	4.36	4.36	4.36	4.36	4.36	4.36
	-13.7	-14	4.61	4.61	4.61	4.61	4.61	4.61
	-11.7	-12	4.86	4.86	4.86	4.86	4.86	4.86
	-9.6	-10	5.11	5.11	5.11	5.11	5.11	5.11
	-7.5	-8	5.42	5.42	5.42	5.42	5.42	5.42
	-5.5	-6	5.73	5.73	5.73	5.73	5.73	5.73
	-3.4	-4	5.93	5.92	5.91	5.85	5.79	
	-1.3	-2	6.13	6.11	6.09	5.98	5.86	
	0.8	0	6.46	6.37	6.28	6.05	5.83	
	3.9	3	7.01	6.76	6.51	6.14	5.78	
	7.0	6	7.66	7.16	6.66	6.19	5.73	
	10.1	9	7.61	7.12	6.64	6.16	5.68	
	13.2	12	7.56	7.08	6.59	6.11	5.63	
	16.9	15.5	7.50	7.02	6.54	6.05	5.57	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			4.59	3.77	5.49	4.26	5.94	4.35	6.32	4.41	7.07	4.76	7.35	4.64
	12			4.59	3.77	5.49	4.26	5.94	4.35	6.31	4.41	7.05	4.75	7.31	4.63
	14			4.59	3.77	5.49	4.26	5.94	4.35	6.30	4.41	7.02	4.74	7.28	4.62
	16			4.59	3.77	5.49	4.26	5.94	4.35	6.29	4.40	7.00	4.73	7.25	4.61
	18			4.59	3.77	5.49	4.26	5.94	4.35	6.28	4.40	6.97	4.72	7.22	4.60
14 (m³/min)	20			4.59	3.77	5.49	4.26	5.94	4.35	6.27	4.39	6.95	4.71	7.19	4.59
	22			4.58	3.76	5.49	4.26	5.94	4.35	6.24	4.38	6.86	4.68	7.09	4.55
	24			4.58	3.76	5.48	4.26	5.94	4.35	6.21	4.37	6.77	4.65	6.99	4.52
	26			4.57	3.76	5.46	4.25	5.88	4.33	6.14	4.34	6.66	4.61	6.88	4.48
	28	4.14	3.71	4.57	3.76	5.43	4.23	5.82	4.30	6.07	4.31	6.56	4.57	6.78	4.45
	30	4.14	3.71	4.56	3.75	5.39	4.22	5.77	4.28	6.00	4.28	6.46	4.53	6.67	4.41
	32	4.14	3.71	4.55	3.75	5.35	4.20	5.71	4.26	5.93	4.25	6.36	4.49	6.57	4.37
	34	4.14	3.71	4.53	3.74	5.33	4.19	5.64	4.23	5.83	4.21	6.22	4.44	6.44	4.33
	35	4.14	3.71	4.52	3.73	5.32	4.19	5.60	4.20	5.79	4.20	6.16	4.42	6.37	4.30
	36	4.14	3.71	4.52	3.73	5.28	4.17	5.57	4.20	5.73	4.17	6.05	4.38	6.25	4.26

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	3.65	3.65	3.65	3.65	3.65	3.65
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	3.89
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	4.12
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	4.36
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	4.59
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	4.83
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	5.12
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	5.42
	-3.4	-4	5.61	5.60	5.59	5.54	5.48	
	-1.3	-2	5.80	5.78	5.76	5.65	5.54	
	0.8	0	6.11	6.02	5.94	5.73	5.51	
	3.9	3	6.63	6.39	6.16	5.81	5.47	
	7.0	6	7.25	6.77	6.30	5.86	5.42	
	10.1	9	7.20	6.74	6.28	5.82	5.37	
	13.2	12	7.15	6.69	6.24	5.78	5.32	
	16.9	15.5	7.10	6.64	6.18	5.73	5.27	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			4.21	3.35	5.03	3.79	5.44	3.88	5.79	3.93	6.48	4.25	6.73	4.14
	12			4.21	3.35	5.03	3.79	5.44	3.88	5.78	3.93	6.46	4.24	6.70	4.12
	14			4.21	3.35	5.03	3.79	5.44	3.88	5.77	3.93	6.43	4.23	6.67	4.11
	16			4.21	3.35	5.03	3.79	5.44	3.88	5.76	3.92	6.41	4.22	6.64	4.10
	18			4.21	3.35	5.03	3.79	5.44	3.88	5.75	3.92	6.39	4.21	6.61	4.09
	20			4.21	3.35	5.03	3.79	5.44	3.88	5.75	3.92	6.36	4.20	6.58	4.08
	22			4.20	3.35	5.02	3.79	5.44	3.88	5.72	3.91	6.28	4.16	6.49	4.04
	24			4.19	3.35	5.02	3.79	5.44	3.88	5.69	3.89	6.20	4.13	6.40	4.01
	26			4.19	3.35	5.00	3.78	5.39	3.86	5.63	3.87	6.10	4.09	6.31	3.98
	28	3.80	3.30	4.19	3.35	4.98	3.77	5.34	3.84	5.56	3.84	6.01	4.06	6.21	3.95
12 (m³/min)	30	3.80	3.30	4.18	3.34	4.94	3.75	5.28	3.81	5.49	3.81	5.92	4.03	6.11	3.91
	32	3.80	3.30	4.17	3.34	4.90	3.73	5.23	3.79	5.43	3.79	5.82	3.99	6.02	3.88
	34	3.80	3.30	4.15	3.33	4.88	3.73	5.16	3.76	5.34	3.75	5.70	3.94	5.90	3.84
	35	3.80	3.30	4.15	3.33	4.87	3.72	5.13	3.74	5.30	3.73	5.64	3.92	5.83	3.82
	36	3.80	3.30	4.14	3.32	4.84	3.71	5.10	3.73	5.25	3.71	5.54	3.89	5.72	3.78
	38	3.80	3.30	4.13	3.32	4.76	3.67	5.05	3.71	5.15	3.67	5.34	3.81	5.50	3.70
	39	3.80	3.30	4.12	3.31	4.73	3.66	5.03	3.71	5.10	3.65	5.23	3.77	5.38	3.66
	41	3.80	3.30	4.11	3.31	4.58	3.60	4.82	3.62	4.88	3.57	5.00	3.69	5.13	3.58
	43	3.80	3.30	4.10	3.31	4.44	3.54	4.62	3.54	4.67	3.48	4.77	3.60	4.88	3.50

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Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			6.07	5.25	7.26	5.95	7.85	6.07	8.36	6.14	9.36	6.64	9.72	6.49
	12			6.07	5.25	7.26	5.95	7.85	6.07	8.35	6.14	9.33	6.63	9.68	6.47
	14			6.07	5.25	7.26	5.95	7.85	6.07	8.33	6.13	9.29	6.62	9.64	6.45
	16			6.07	5.25	7.26	5.95	7.85	6.07	8.32	6.12	9.26	6.61	9.59	6.43
	18			6.07	5.25	7.26	5.95	7.85	6.07	8.31	6.12	9.23	6.59	9.55	6.42
	20			6.07	5.25	7.26	5.95	7.85	6.07	8.30	6.12	9.19	6.57	9.51	6.41
21 (m/min)	22			6.07	5.25	7.26	5.95	7.85	6.07	8.26	6.10	9.08	6.53	9.38	6.36
	24			6.06	5.25	7.26	5.95	7.85	6.07	8.22	6.09	8.96	6.49	9.25	6.32
	26			6.05	5.24	7.22	5.93	7.78	6.04	8.13	6.05	8.82	6.44	9.11	6.28
	28	5.48	5.19	6.05	5.24	7.19	5.92	7.71	6.02	8.03	6.01	8.68	6.39	8.97	6.23
	30	5.48	5.19	6.03	5.23	7.13	5.89	7.63	5.98	7.94	5.98	8.54	6.34	8.83	6.19
	32	5.48	5.19	6.02	5.23	7.08	5.87	7.56	5.96	7.84	5.94	8.41	6.30	8.70	6.14
	34	5.48	5.19	6.00	5.22	7.05	5.86	7.46	5.91	7.72	5.90	8.23	6.23	8.52	6.09
	35	5.48	5.19	5.99	5.22	7.04	5.86	7.41	6.00	7.66	5.86	8.15	6.21	8.43	6.06
	36	5.48	5.19	5.98	5.21	6.99	5.84	7.37	5.87	7.58	5.83	8.00	6.15	8.26	5.99
38	5.48	5.19	5.97	5.21	6.88	5.79	7.30	5.84	7.43	5.78	7.71	6.04	7.94	5.89	
39	5.48	5.19	5.96	5.20	6.83	5.77	7.26	5.83	7.36	5.75	7.56	5.99	7.77	5.84	
41	5.48	5.19	5.94	5.20	6.62	5.69	6.97	5.72	7.05	5.64	7.22	5.88	7.41	5.73	
43	5.48	5.19	5.92	5.19	6.42	5.61	6.67	5.60	6.74	5.52	6.89	5.77	7.04	5.61	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	4.92	4.92	4.92	4.92	4.92	4.92
	-17.8	-18	5.23	5.23	5.23	5.23	5.23	5.23
	-15.7	-16	5.55	5.55	5.55	5.55	5.55	5.55
	-13.7	-14	5.87	5.87	5.87	5.87	5.87	5.87
	-11.7	-12	6.18	6.18	6.18	6.18	6.18	6.18
	-9.6	-10	6.50	6.50	6.50	6.50	6.50	6.50
	-7.5	-8	6.90	6.90	6.90	6.90	6.90	6.90
	-5.5	-6	7.29	7.29	7.29	7.29	7.29	7.29
	-3.4	-4	7.55	7.54	7.53	7.45	7.38	
	-1.3	-2	7.80	7.78	7.76	7.61	7.46	
21 (m/min)	0.8	0	8.23	8.11	7.99	7.71	7.42	
	3.9	3	8.93	8.61	8.29	7.82	7.36	
	7.0	6	9.75	9.12	8.48	7.89	7.29	
	10.1	9	9.69	9.07	8.45	7.84	7.23	
	13.2	12	9.62	9.01	8.40	7.78	7.17	
	16.9	15.5	9.55	8.94	8.32	7.71	7.09	

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	5.14	6.96	5.83	7.53	5.94	8.01	6.01	8.97	6.49	9.31	6.34
	12			5.82	5.14	6.96	5.83	7.53	5.94	8.00	6.00	8.94	6.48	9.27	6.33
	14			5.82	5.14	6.96	5.83	7.53	5.94	7.99	6.00	8.90	6.47	9.23	6.32
	16			5.82	5.14	6.96	5.83	7.53	5.94	7.97	5.99	8.87	6.46	9.19	6.30
	18			5.82	5.14	6.96	5.83	7.53	5.94	7.96	5.99	8.84	6.45	9.15	6.29
	20			5.82	5.14	6.96	5.83	7.53	5.94	7.95	5.98	8.81	6.44	9.11	6.28
	22			5.81	5.14	6.95	5.82	7.53	5.94	7.92	5.97	8.70	6.40	8.99	6.24
	24			5.80	5.14	6.95	5.82	7.53	5.94	7.88	5.96	8.58	6.35	8.86	6.20
	26			5.80	5.14	6.92	5.81	7.46	5.91	7.79	5.92	8.45	6.31	8.73	6.15
	28	5.25	5.04	5.79	5.13	6.89	5.80	7.38	5.88	7.69	5.89	8.31	6.26	8.59	6.11
21 (m/min)	30	5.25	5.04	5.78	5.13	6.83	5.77	7.31	5.85	7.60	5.84	8.19	6.22	8.46	6.07
	32	5.25	5.04	5.77	5.12	6.78	5.75	7.24	5.82	7.51	5.81	8.06	6.17	8.33	6.03
	34	5.25	5.04	5.75	5.12	6.76	5.75	7.15	5.79	7.39	5.76	7.89	6.10	8.16	5.96
	35	5.25	5.04	5.74	5.11	6.75	5.74	7.10	5.75	7.33	5.74	7.80	6.07	8.08	5.94
	36	5.25	5.04	5.73	5.11	6.69	5.72	7.06	5.75	7.26	5.71	7.66	6.03	7.92	5.89
	38	5.25	5.04	5.72	5.10	6.59	5.68	6.99	5.72	7.12	5.66	7.38	5.93	7.61	5.79
	39	5.25	5.04	5.71	5.10	6.54	5.66	6.96	5.71	7.05	5.64	7.24	5.88	7.45	5.74
	41	5.25	5.04	5.69	5.09	6.35	5.58	6.67	5.60	6.76	5.53	6.92	5.78	7.10	5.63
	43	5.25	5.04	5.67	5.08	6.15	5.50	6.39	5.50	6.46	5.42	6.60	5.67	6.75	5.53

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64	4.64
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	4.94
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	5.24
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	5.54
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	5.83
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	6.13
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	6.51
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	6.88
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
21 (m/min)	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
	7.0	6	9.20	8.60	8.00	7.44	6.88	
	10.1	9	9.14	8.56	7.97	7.40	6.82	
	13.2	12	9.08	8.50	7.92	7.34	6.76	
	16.9	15.5	9.01	8.43	7.85	7.27	6.69	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			5.39	4.58	6.45	5.20	6.97	5.30	7.42	5.36	8.31	5.80	8.63	5.66
	12			5.39	4.58	6.45	5.20	6.97	5.30	7.41	5.36	8.28	5.79	8.59	5.65
	14			5.39	4.58	6.45	5.20	6.97	5.30	7.40	5.35	8.25	5.78	8.56	5.63
	16			5.39	4.58	6.45	5.20	6.97	5.30	7.39	5.35	8.22	5.77	8.52	5.62
	18			5.39	4.58	6.45	5.20	6.97	5.30	7.38	5.35	8.19	5.75	8.48	5.61
	20			5.39	4.58	6.45	5.20	6.97	5.30	7.37	5.34	8.16	5.74	8.44	5.60
	22			5.39	4.58	6.45	5.20	6.97	5.30	7.34	5.33	8.06	5.71	8.33	5.56
	24			5.38	4.58	6.44	5.19	6.97	5.30	7.30	5.31	7.96	5.67	8.21	5.51
	26			5.37	4.57	6.41	5.18	6.91	5.28	7.22	5.28	7.83	5.62	8.09	5.47
	28	4.87	4.53	5.37	4.57	6.38	5.17	6.84	5.25	7.13	5.25	7.70	5.57	7.96	5.43
18 (m/min)	30	4.87	4.53	5.36	4.57	6.33	5.14	6.78	5.22	7.05	5.22	7.59	5.53	7.84	5.39
	32	4.87	4.53	5.34	4.56	6.28	5.12	6.71	5.20	6.96	5.18	7.47	5.49	7.72	5.35
	34	4.87	4.53	5.33	4.56	6.26	5.11	6.62	5.16	6.85	5.14	7.31	5.43	7.56	5.30
	35	4.87	4.53	5.32	4.55	6.25	5.11	6.58	5.13	6.80	5.12	7.23	5.40	7.48	5.27
	36	4.87	4.53	5.31	4.55	6.20	5.09	6.55	5.13	6.73	5.10	7.10	5.36	7.34	5.23
	38	4.87	4.53	5.30	4.54	6.11	5.05	6.48	5.11	6.60	5.05	6.84	5.27	7.05	5.13
	39	4.87	4.53	5.29	4.54	6.06	5.03	6.45	5.08	6.54	5.02	6.71	5.21	6.90	5.08
	41	4.87	4.53	5.27	4.53	5.88	4.96	6.19	4.98	6.26	4.91	6.42	5.11	6.58	4.98
	43	4.87	4.53	5.25	4.52	5.70	4.89	5.92	4.88	5.99	4.81	6.12	5.01	6.26	4.88

(j) Ceiling suspended type (FDE)

Model **FDE36KXE6A** Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Uhi	10			3.14	2.78	3.75	3.13	4.06	3.19	4.32	3.23	4.84	3.49	5.02	3.41		
	12			3.14	2.78	3.75	3.13	4.06	3.19	4.31	3.23	4.82	3.49	5.00	3.41		
	14			3.14	2.78	3.75	3.13	4.06	3.19	4.31	3.23	4.80	3.48	4.98	3.40		
	16			3.14	2.78	3.75	3.13	4.06	3.19	4.30	3.22	4.79	3.48	4.96	3.39		
	18			3.14	2.78	3.75	3.13	4.06	3.19	4.30	3.22	4.77	3.47	4.94	3.39		
	20			3.14	2.78	3.75	3.13	4.06	3.19	4.29	3.22	4.75	3.46	4.92	3.38		
	22			3.14	2.78	3.75	3.13	4.06	3.19	4.27	3.21	4.69	3.44	4.85	3.35		
	24			3.13	2.77	3.75	3.13	4.06	3.19	4.25	3.20	4.63	3.42	4.78	3.33		
12 (m³/min)	26			3.13	2.77	3.73	3.12	4.02	3.18	4.20	3.18	4.56	3.39	4.71	3.31		
	28	2.83	2.72	3.13	2.77	3.72	3.12	3.98	3.16	4.15	3.16	4.48	3.37	4.63	3.28		
	30	2.83	2.72	3.12	2.77	3.69	3.11	3.94	3.15	4.10	3.14	4.42	3.35	4.56	3.26		
	32	2.83	2.72	3.11	2.76	3.66	3.10	3.91	3.14	4.05	3.13	4.35	3.32	4.50	3.24		
	34	2.83	2.72	3.10	2.76	3.64	3.09	3.86	3.12	3.99	3.11	4.26	3.29	4.40	3.21		
	35	2.83	2.72	3.09	2.75	3.64	3.09	3.83	3.14	3.96	3.09	4.21	3.27	4.36	3.20		
	36	2.83	2.72	3.09	2.75	3.61	3.08	3.81	3.09	3.92	3.07	4.13	3.24	4.27	3.16		
	38	2.83	2.72	3.08	2.75	3.56	3.06	3.77	3.08	3.84	3.05	3.98	3.19	4.10	3.11		
	39	2.83	2.72	3.08	2.75	3.53	3.05	3.75	3.07	3.80	3.03	3.91	3.17	4.02	3.08		
	41	2.83	2.72	3.07	2.74	3.42	3.00	3.60	3.02	3.64	2.97	3.73	3.10	3.83	3.03		
43	2.83	2.72	3.06	2.74	3.32	2.96	3.45	2.95	3.48	2.91	3.56	3.05	3.64	2.96			

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.48	2.48	2.48	2.48	2.48	
	-17.8	-18	2.64	2.64	2.64	2.64	2.64	
	-15.7	-16	2.80	2.80	2.80	2.80	2.80	
	-13.7	-14	2.96	2.96	2.96	2.96	2.96	
	-11.7	-12	3.12	3.12	3.12	3.12	3.12	
	-9.6	-10	3.28	3.28	3.28	3.28	3.28	
	-7.5	-8	3.48	3.48	3.48	3.48	3.48	
	-5.5	-6	3.68	3.68	3.68	3.68	3.68	
	-3.4	-4	3.81	3.80	3.80	3.76	3.72	
	-1.3	-2	3.94	3.93	3.92	3.84	3.77	
	0.8	0	4.15	4.09	4.03	3.89	3.75	
	3.9	3	4.50	4.34	4.18	3.95	3.71	
12 (m³/min)	7.0	6	4.92	4.60	4.28	3.98	3.68	
	10.1	9	4.89	4.58	4.26	3.96	3.65	
	13.2	12	4.86	4.55	4.24	3.93	3.62	
	16.9	15.5	4.82	4.51	4.20	3.89	3.58	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Hi	10			2.95	2.58	3.53	2.91	3.82	2.97	4.06	3.00	4.55	3.25	4.72	3.16		
	12			2.95	2.58	3.53	2.91	3.82	2.97	4.05	2.99	4.53	3.24	4.70	3.16		
	14			2.95	2.58	3.53	2.91	3.82	2.97	4.05	2.99	4.51	3.23	4.68	3.15		
	16			2.95	2.58	3.53	2.91	3.82	2.97	4.04	2.99	4.50	3.23	4.66	3.15		
	18			2.95	2.58	3.53	2.91	3.82	2.97	4.04	2.99	4.48	3.22	4.64	3.14		
	20			2.95	2.58	3.53	2.91	3.82	2.97	4.03	2.99	4.47	3.21	4.62	3.13		
	22			2.95	2.58	3.53	2.91	3.82	2.97	4.01	2.98	4.41	3.19	4.56	3.12		
11 (m³/min)	24			2.94	2.57	3.52	2.91	3.82	2.97	3.99	2.97	4.35	3.17	4.49	3.09		
	26			2.94	2.57	3.51	2.90	3.78	2.95	3.95	2.96	4.28	3.15	4.43	3.07		
	28	2.66	2.54	2.94	2.57	3.49	2.89	3.74	2.93	3.90	2.94	4.22	3.12	4.36	3.05		
	30	2.66	2.54	2.93	2.57	3.47	2.89	3.71	2.92	3.86	2.92	4.15	3.10	4.29	3.03		
	32	2.66	2.54	2.92	2.56	3.44	2.87	3.67	2.91	3.81	2.90	4.09	3.08	4.23	3.00		
	34	2.66	2.54	2.91	2.56	3.43	2.87	3.62	2.89	3.75	2.88	4.00	3.04	4.14	2.97		
	35	2.66	2.54	2.91	2.56	3.42	2.86	3.60	2.88	3.72	2.87	3.96	3.03	4.09	2.96		
36	2.66	2.54	2.91	2.56	3.39	2.85	3.58	2.87	3.68	2.85	3.89	3.01	4.02	2.94			
38	2.66	2.54	2.90	2.55	3.34	2.83	3.55	2.86	3.61	2.82	3.74	2.95	3.86	2.88			
39	2.66	2.54	2.89	2.55	3.32	2.82	3.53	2.85	3.58	2.81	3.67	2.93	3.78	2.86			
41	2.66	2.54	2.88	2.55	3.22	2.79	3.38	2.79	3.43	2.76	3.51	2.87	3.60	2.80			
43	2.66	2.54	2.87	2.54	3.12	2.74	3.24	2.74	3.28	2.70	3.35	2.82	3.42	2.75			

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.32	2.32	2.32	2.32	2.32	
	-17.8	-18	2.47	2.47	2.47	2.47	2.47	
	-15.7	-16	2.62	2.62	2.62	2.62	2.62	
	-13.7	-14	2.77	2.77	2.77	2.77	2.77	
	-11.7	-12	2.92	2.92	2.92	2.92	2.92	
	-9.6	-10	3.07	3.07	3.07	3.07	3.07	
	-7.5	-8	3.25	3.25	3.25	3.25	3.25	
	-5.5	-6	3.44	3.44	3.44	3.44	3.44	
	-3.4	-4	3.56	3.56	3.55	3.52	3.48	
	-1.3	-2	3.68	3.67	3.66	3.59	3.52	
	0.8	0	3.88	3.83	3.77	3.64	3.50	
	3.9	3	4.21	4.06	3.91	3.69	3.47	
11 (m³/min)	7.0	6	4.60	4.30	4.00	3.72	3.44	
	10.1	9	4.57	4.28	3.99	3.70	3.41	
	13.2	12	4.54	4.25	3.96	3.67	3.38	
	16.9	15.5	4.51	4.22	3.93	3.64	3.35	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Me	10			2.54	2.19	3.04	2.48	3.29	2.53	3.50	2.56	3.92	2.77	4.07	2.70		
	12			2.54	2.19	3.04	2.48	3.29	2.53	3.49	2.56	3.90	2.76	4.05	2.70		
	14			2.54	2.19	3.04	2.48	3.29	2.53	3.49	2.56	3.89	2.76	4.03	2.69		
	16			2.54	2.19	3.04	2.48	3.29	2.53	3.48	2.55	3.87	2.75	4.01	2.68		
	18			2.54	2.19	3.04	2.48	3.29	2.53	3.48	2.55	3.86	2.75	4.00	2.68		
	20			2.54	2.19	3.04	2.48	3.29	2.53	3.47	2.55	3.85	2.74	3.98	2.68		
9 (m³/min)	22			2.54	2.19	3.04	2.48	3.29	2.53	3.46	2.55	3.80	2.73	3.92	2.65		
	24			2.53	2.19	3.04	2.48	3.29	2.53	3.44	2.54	3.75	2.71	3.87	2.64		
	26			2.53	2.19	3.02	2.47	3.26	2.52	3.40	2.52	3.69	2.68	3.81	2.62		
	28	2.29	2.17	2.53	2.19	3.01	2.47	3.22	2.50	3.36	2.51	3.63	2.66	3.75	2.60		
	30	2.29	2.17	2.52	2.19	2.98	2.46	3.19	2.49	3.32	2.49	3.57	2.64	3.69	2.56		
	32	2.29	2.17	2.52	2.19	2.96	2.45	3.16	2.48	3.28	2.47	3.52	2.63	3.64	2.55		
	34	2.29	2.17	2.51	2.18	2.95	2.45	3.12	2.46	3.23	2.46	3.44	2.58	3.56	2.52		
	35	2.29	2.17	2.50	2.18	2.95	2.45	3.10	2.45	3.20	2.45	3.41	2.57	3.53	2.51		
	36	2.29	2.17	2.50	2.18	2.92	2.43	3.08	2.45	3.17	2.43	3.35	2.55	3.46	2.49		
38	2.29	2.17	2.50	2.18	2.88	2.41	3.05	2.44	3.11	2.41	3.22	2.51	3.32	2.45			
39	2.29	2.17	2.49	2.17	2.86	2.41	3.04	2.43	3.08	2.40	3.16	2.49	3.25	2.43			
41	2.29	2.17	2.48	2.17	2.77	2.37	2.91	2.38	2.95	2.35	3.02	2.44	3.10	2.38			
43	2.29	2.17	2.47	2.16	2.68	2.34	2.79	2.33	2.82	2.30	2.88	2.40	2.95	2.34			

Model **FDE45KXE6A**

Cool Mode

Model	Outdoor air temp. ("CDB)		Indoor air temperature												
Air flow	Outdoor air temp. ("CDB)	21 "CDB 14 "CWB		23 "CDB 16 "CWB		26 "CDB 18 "CWB		27 "CDB 19 "CWB		28 "CDB 20 "CWB		31 "CDB 22 "CWB		33 "CDB 24 "CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			3.92	3.16	4.68	3.58	5.07	3.66	5.39	3.70	6.04	4.00	6.27	3.90
	12			3.92	3.16	4.68	3.58	5.07	3.66	5.38	3.69	6.02	4.00	6.24	3.89
	14			3.92	3.16	4.68	3.58	5.07	3.66	5.38	3.69	5.99	3.98	6.22	3.88
	16			3.92	3.16	4.68	3.58	5.07	3.66	5.37	3.69	5.97	3.98	6.19	3.87
	18			3.92	3.16	4.68	3.58	5.07	3.66	5.36	3.69	5.95	3.97	6.16	3.86
	20			3.92	3.16	4.68	3.58	5.07	3.66	5.35	3.68	5.93	3.96	6.13	3.85
	22			3.91	3.16	4.68	3.58	5.07	3.66	5.33	3.68	5.85	3.93	6.05	3.82
12 (m³/min)	24			3.91	3.16	4.68	3.58	5.07	3.66	5.30	3.66	5.78	3.90	5.97	3.80
	26			3.90	3.15	4.66	3.57	5.02	3.64	5.24	3.64	5.69	3.87	5.88	3.76
	28	3.54	3.12	3.90	3.15	4.64	3.56	4.97	3.62	5.18	3.62	5.60	3.83	5.78	3.73
	30	3.54	3.12	3.89	3.15	4.60	3.54	4.92	3.60	5.12	3.59	5.51	3.80	5.70	3.70
	32	3.54	3.12	3.88	3.15	4.56	3.52	4.88	3.58	5.06	3.57	5.43	3.77	5.61	3.66
	34	3.54	3.12	3.87	3.14	4.55	3.52	4.81	3.55	4.98	3.54	5.31	3.72	5.49	3.63
	35	3.54	3.12	3.86	3.14	4.54	3.51	4.78	3.54	4.94	3.52	5.25	3.70	5.44	3.61
36	3.54	3.12	3.86	3.14	4.51	3.50	4.76	3.53	4.89	3.51	5.16	3.67	5.33	3.57	
38	3.54	3.12	3.85	3.13	4.44	3.47	4.71	3.51	4.80	3.47	4.97	3.60	5.12	3.50	
39	3.54	3.12	3.84	3.13	4.40	3.46	4.68	3.49	4.75	3.45	4.88	3.57	5.01	3.47	
41	3.54	3.12	3.83	3.12	4.27	3.40	4.49	3.42	4.55	3.37	4.66	3.47	4.78	3.37	
43	3.54	3.12	3.82	3.12	4.14	3.34	4.30	3.34	4.35	3.29	4.44	3.40	4.54	3.30	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	3.10	3.10	3.10	3.10	3.10	
	-17.8	-18	3.30	3.30	3.30	3.30	3.30	
	-15.7	-16	3.50	3.50	3.50	3.50	3.50	
	-13.7	-14	3.70	3.70	3.70	3.70	3.70	
	-11.7	-12	3.90	3.90	3.90	3.90	3.90	
	-9.6	-10	4.10	4.10	4.10	4.10	4.10	
	-7.5	-8	4.35	4.35	4.35	4.35	4.35	
	-5.5	-6	4.60	4.60	4.60	4.60	4.60	
	-3.4	-4	4.76	4.75	4.75	4.70	4.65	
	-1.3	-2	4.92	4.91	4.90	4.80	4.71	
	0.8	0	5.19	5.12	5.04	4.86	4.68	
	3.9	3	5.63	5.43	5.23	4.94	4.64	
12 (m³/min)	7.0	6	6.15	5.75	5.35	4.98	4.60	
	10.1	9	6.11	5.72	5.33	4.95	4.56	
	13.2	12	6.07	5.68	5.30	4.91	4.52	
	16.9	15.5	6.03	5.64	5.25	4.86	4.47	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			3.69	2.94	4.41	3.33	4.77	3.40	5.07	3.44	5.68	3.73	5.90	3.63
	12			3.69	2.94	4.41	3.33	4.77	3.40	5.07	3.44	5.66	3.72	5.88	3.62
	14			3.69	2.94	4.41	3.33	4.77	3.40	5.06	3.44	5.64	3.71	5.85	3.61
	16			3.69	2.94	4.41	3.33	4.77	3.40	5.05	3.43	5.62	3.70	5.83	3.60
	18			3.69	2.94	4.41	3.33	4.77	3.40	5.05	3.43	5.60	3.69	5.80	3.59
	20			3.69	2.94	4.41	3.33	4.77	3.40	5.04	3.43	5.58	3.69	5.78	3.59
	22			3.68	2.94	4.41	3.33	4.77	3.40	5.02	3.42	5.51	3.66	5.70	3.55
11 (m³/min)	24			3.68	2.94	4.41	3.33	4.77	3.40	4.99	3.41	5.44	3.63	5.62	3.53
	26			3.68	2.94	4.39	3.32	4.73	3.38	4.93	3.39	5.35	3.60	5.53	3.50
	28	3.33	2.90	3.67	2.93	4.37	3.31	4.68	3.36	4.88	3.37	5.27	3.57	5.44	3.46
	30	3.33	2.90	3.66	2.93	4.33	3.29	4.64	3.35	4.82	3.34	5.19	3.54	5.36	3.44
	32	3.33	2.90	3.65	2.92	4.30	3.28	4.59	3.33	4.76	3.32	5.11	3.50	5.28	3.41
	34	3.33	2.90	3.64	2.92	4.28	3.27	4.53	3.30	4.69	3.29	5.00	3.46	5.17	3.37
	35	3.33	2.90	3.64	2.92	4.28	3.27	4.50	3.29	4.65	3.28	4.95	3.45	5.12	3.35
	36	3.33	2.90	3.63	2.92	4.24	3.26	4.48	3.28	4.60	3.26	4.86	3.41	5.02	3.32
	38	3.33	2.90	3.62	2.91	4.18	3.23	4.43	3.26	4.52	3.23	4.68	3.35	4.82	3.25
	39	3.33	2.90	3.62	2.91	4.15	3.21	4.41	3.26	4.47	3.21	4.59	3.31	4.72	3.22
41	3.33	2.90	3.61	2.91	4.02	3.16	4.23	3.18	4.28	3.13	4.39	3.24	4.50	3.13	
43	3.33	2.90	3.59	2.90	3.90	3.11	4.05	3.11	4.09	3.05	4.18	3.15	4.28	3.06	

Air flow	Outdoor air temp,		Indoor air temp,				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.27	3.27	3.27	3.27	3.27
	-13.7	-14	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65
	-9.6	-10	3.83	3.83	3.83	3.83	3.83
	-7.5	-8	4.07	4.07	4.07	4.07	4.07
	-5.5	-6	4.30	4.30	4.30	4.30	4.30
	-3.4	-4	4.45	4.44	4.44	4.39	4.35
	-1.3	-2	4.60	4.59	4.58	4.49	4.40
	0.8	0	4.85	4.78	4.71	4.54	4.38
	3.9	3	5.26	5.08	4.89	4.61	4.34
11 (m³/min)	7.0	6	5.75	5.38	5.00	4.65	4.30
	10.1	9	5.71	5.35	4.98	4.62	4.26
	13.2	12	5.68	5.31	4.95	4.59	4.23
	16.9	15.5	5.63	5.27	4.91	4.54	4.18

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			3.18	2.50	3.80	2.83	4.11	2.90	4.38	2.95	4.90	3.17	5.09	3.09
	12			3.18	2.50	3.80	2.83	4.11	2.90	4.37	2.94	4.88	3.17	5.07	3.08
	14			3.18	2.50	3.80	2.83	4.11	2.90	4.36	2.94	4.87	3.16	5.05	3.06
	16			3.18	2.50	3.80	2.83	4.11	2.90	4.36	2.94	4.85	3.16	5.02	3.05
	18			3.18	2.50	3.80	2.83	4.11	2.90	4.35	2.93	4.83	3.15	5.00	3.05
	20			3.18	2.50	3.80	2.83	4.11	2.90	4.35	2.93	4.81	3.14	4.98	3.04
	22			3.18	2.50	3.80	2.83	4.11	2.90	4.33	2.92	4.75	3.10	4.91	3.02
	24			3.17	2.50	3.80	2.83	4.11	2.90	4.31	2.91	4.69	3.08	4.84	2.99
	26			3.17	2.50	3.78	2.82	4.07	2.88	4.26	2.89	4.62	3.06	4.77	2.97
	28	2.87	2.46	3.17	2.50	3.76	2.81	4.04	2.87	4.20	2.87	4.54	3.03	4.69	2.94
	30	2.87	2.46	3.16	2.49	3.73	2.80	4.00	2.85	4.16	2.85	4.47	3.00	4.62	2.92
	32	2.87	2.46	3.15	2.49	3.71	2.79	3.96	2.83	4.11	2.83	4.40	2.97	4.55	2.89
9 (m³/min)	34	2.87	2.46	3.14	2.49	3.69	2.78	3.91	2.81	4.04	2.80	4.31	2.94	4.46	2.86
	35	2.87	2.46	3.14	2.49	3.69	2.78	3.88	2.79	4.01	2.79	4.26	2.92	4.41	2.85
	36	2.87	2.46	3.13	2.48	3.66	2.77	3.86	2.79	3.97	2.77	4.19	2.90	4.33	2.82
	38	2.87	2.46	3.12	2.48	3.60	2.75	3.82	2.78	3.89	2.74	4.04	2.84	4.16	2.76
	39	2.87	2.46	3.12	2.48	3.57	2.73	3.80	2.77	3.85	2.73	3.96	2.81	4.07	2.73
	41	2.87	2.46	3.11	2.47	3.47	2.69	3.65	2.71	3.69	2.66	3.78	2.75	3.88	2.67
	43	2.87	2.46	3.10	2.46	3.36	2.64	3.49	2.64	3.53	2.60	3.61	2.69	3.69	2.61

Model FDE56KXE6A

Cool Mode

Model	Air flow	Indoor air temperature															
		Outdoor air temp. ("CDB)		21 "CDB 14 "CWB		23 "CDB 16 "CWB		26 "CDB 18 "CWB		27 "CDB 19 "CWB		28 "CDB 20 "CWB		31 "CDB 22 "CWB		33 "CDB 24 "CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			4.93	3.67	5.90	4.16	6.38	4.28	6.79	4.35	7.60	4.69	7.90	4.54		
	12			4.93	3.67	5.90	4.16	6.38	4.28	6.78	4.35	7.58	4.68	7.86	4.53		
	14			4.93	3.67	5.90	4.16	6.38	4.28	6.77	4.34	7.55	4.67	7.83	4.52		
	16			4.93	3.67	5.90	4.16	6.38	4.28	6.76	4.34	7.52	4.65	7.79	4.50		
	18			4.93	3.67	5.90	4.16	6.38	4.28	6.75	4.34	7.49	4.63	7.76	4.49		
	20			4.93	3.67	5.90	4.16	6.38	4.28	6.74	4.33	7.47	4.62	7.73	4.48		
	22			4.93	3.67	5.90	4.16	6.38	4.28	6.71	4.32	7.37	4.58	7.62	4.44		
	24			4.92	3.67	5.89	4.16	6.38	4.28	6.68	4.30	7.28	4.54	7.52	4.40		
	26			4.92	3.67	5.87	4.15	6.32	4.25	6.60	4.27	7.16	4.50	7.40	4.36		
	28	4.45	3.60	4.91	3.66	5.84	4.14	6.26	4.23	6.52	4.23	7.05	4.45	7.28	4.32		
12 (m/min)	30	4.45	3.60	4.90	3.66	5.79	4.12	6.20	4.20	6.45	4.20	6.94	4.41	7.18	4.28		
	32	4.45	3.60	4.89	3.65	5.75	4.10	6.14	4.17	6.37	4.17	6.83	4.36	7.07	4.24		
	34	4.45	3.60	4.87	3.64	5.73	4.09	6.06	4.14	6.27	4.13	6.69	4.31	6.92	4.19		
	35	4.45	3.60	4.86	3.64	5.72	4.08	6.02	4.15	6.22	4.10	6.62	4.28	6.85	4.16		
	36	4.45	3.60	4.86	3.64	5.68	4.07	5.99	4.10	6.16	4.08	6.50	4.24	6.71	4.11		
	38	4.45	3.60	4.85	3.64	5.59	4.02	5.93	4.08	6.04	4.02	6.26	4.14	6.45	4.02		
	39	4.45	3.60	4.84	3.63	5.55	4.00	5.90	4.06	5.98	4.00	6.14	4.09	6.32	3.97		
	41	4.45	3.60	4.82	3.62	5.38	3.92	5.66	3.95	5.73	3.89	5.87	3.99	6.02	3.86		
	43	4.45	3.60	4.81	3.62	5.21	3.85	5.42	3.85	5.48	3.78	5.60	3.89	5.72	3.76		

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	3.94	3.94	3.94	3.94	3.94	
	-17.8	-18	4.19	4.19	4.19	4.19	4.19	
	-15.7	-16	4.45	4.45	4.45	4.45	4.45	
	-13.7	-14	4.70	4.70	4.70	4.70	4.70	
	-11.7	-12	4.95	4.95	4.95	4.95	4.95	
	-9.6	-10	5.21	5.21	5.21	5.21	5.21	
	-7.5	-8	5.52	5.52	5.52	5.52	5.52	
	-5.5	-6	5.84	5.84	5.84	5.84	5.84	
	-3.4	-4	6.04	6.03	6.03	5.97	5.91	
	-1.3	-2	6.25	6.23	6.21	6.09	5.98	
12 (m/min)	0.8	0	6.59	6.49	6.40	6.17	5.94	
	3.9	3	7.15	6.89	6.64	6.26	5.89	
	7.0	6	7.81	7.30	6.79	6.31	5.84	
	10.1	9	7.76	7.26	6.76	6.28	5.79	
	13.2	12	7.71	7.21	6.72	6.23	5.74	
	16.9	15.5	7.65	7.15	6.66	6.17	5.68	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 "CDB 14 "CWB		23 "CDB 16 "CWB		26 "CDB 18 "CWB		27 "CDB 19 "CWB		28 "CDB 20 "CWB		31 "CDB 22 "CWB		33 "CDB 24 "CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			4.59	3.40	5.49	3.86	5.94	3.97	6.32	4.03	7.07	4.34	7.35	4.22
	12			4.59	3.40	5.49	3.86	5.94	3.97	6.31	4.03	7.05	4.34	7.31	4.20
	14			4.59	3.40	5.49	3.86	5.94	3.97	6.30	4.02	7.02	4.32	7.28	4.18
	16			4.59	3.40	5.49	3.86	5.94	3.97	6.29	4.02	7.00	4.31	7.25	4.17
	18			4.59	3.40	5.49	3.86	5.94	3.97	6.28	4.01	6.97	4.30	7.22	4.16
	20			4.59	3.40	5.49	3.86	5.94	3.97	6.27	4.01	6.95	4.29	7.19	4.15
	22			4.58	3.40	5.49	3.86	5.94	3.97	6.24	4.00	6.86	4.24	7.09	4.11
	24			4.58	3.40	5.48	3.85	5.94	3.97	6.21	3.98	6.77	4.21	6.99	4.07
	26			4.57	3.39	5.46	3.85	5.88	3.94	6.14	3.95	6.66	4.16	6.88	4.03
	28	4.14	3.33	4.57	3.39	5.43	3.83	5.82	3.91	6.07	3.92	6.56	4.12	6.78	3.99
11 (m/min)	30	4.14	3.33	4.56	3.39	5.39	3.81	5.77	3.89	6.00	3.89	6.46	4.08	6.67	3.96
	32	4.14	3.33	4.55	3.38	5.35	3.79	5.71	3.86	5.93	3.86	6.36	4.04	6.57	3.92
	34	4.14	3.33	4.53	3.37	5.33	3.78	5.64	3.83	5.83	3.82	6.22	3.99	6.44	3.87
	35	4.14	3.33	4.52	3.37	5.32	3.78	5.60	3.81	5.79	3.80	6.16	3.96	6.37	3.85
	36	4.14	3.33	4.52	3.37	5.28	3.76	5.57	3.80	5.73	3.77	6.05	3.92	6.25	3.80
	38	4.14	3.33	4.51	3.36	5.20	3.72	5.52	3.77	5.62	3.72	5.82	3.83	6.00	3.71
	39	4.14	3.33	4.50	3.36	5.16	3.71	5.49	3.76	5.56	3.70	5.71	3.78	5.87	3.67
	41	4.14	3.33	4.49	3.35	5.00	3.63	5.26	3.65	5.33	3.59	5.46	3.69	5.60	3.57
	43	4.14	3.33	4.47	3.34	4.85	3.56	5.04	3.56	5.10	3.50	5.21	3.59	5.32	3.47

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	3.65	3.65	3.65	3.65	3.65	
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	
	-3.4	-4	5.61	5.60	5.59	5.54	5.48	
	-1.3	-2	5.80	5.78	5.76	5.65	5.54	
11 (m/min)	0.8	0	6.11	6.02	5.94	5.73	5.51	
	3.9	3	6.63	6.39	6.16	5.81	5.47	
	7.0	6	7.25	6.77	6.30	5.86	5.42	
	10.1	9	7.20	6.74	6.28	5.82	5.37	
	13.2	12	7.15	6.69	6.24	5.78	5.32	
	16.9	15.5	7.10	6.64	6.18	5.73	5.27	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
9 (m³/min)	10			3.86	2.85	4.62	3.24	4.99	3.33	5.31	3.38	5.95	3.65	6.18	3.54
	12			3.86	2.85	4.62	3.24	4.99	3.33	5.30	3.38	5.93	3.64	6.15	3.53
	14			3.86	2.85	4.62	3.24	4.99	3.33	5.30	3.38	5.91	3.63	6.12	3.52
	16			3.86	2.85	4.62	3.24	4.99	3.33	5.29	3.37	5.89	3.62	6.10	3.51
	18			3.86	2.85	4.62	3.24	4.99	3.33	5.28	3.37	5.86	3.61	6.07	3.50
	20			3.86	2.85	4.62	3.24	4.99	3.33	5.28	3.37	5.84	3.60	6.04	3.49
	22			3.86	2.85	4.61	3.23	4.99	3.33	5.25	3.35	5.77	3.57	5.96	3.46
	24			3.85	2.85	4.61	3.23	4.99	3.33	5.23	3.34	5.69	3.54	5.88	3.42
	26			3.85	2.85	4.59	3.22	4.95	3.31	5.17	3.32	5.60	3.49	5.79	3.39
	28	3.49	2.80	3.84	2.84	4.57	3.22	4.90	3.28	5.10	3.29	5.51	3.46	5.70	3.35
	30	3.49	2.80	3.83	2.84	4.53	3.20	4.85	3.26	5.04	3.26	5.43	3.42	5.61	3.32
	32	3.49	2.80	3.82	2.83	4.50	3.18	4.80	3.24	4.99	3.24	5.35	3.39	5.53	3.29
	34	3.49	2.80	3.81	2.83	4.48	3.17	4.74	3.21	4.91	3.20	5.23	3.34	5.41	3.24
	35	3.49	2.80	3.81	2.83	4.47	3.17	4.71	3.20	4.87	3.19	5.18	3.32	5.36	3.23
	36	3.49	2.80	3.80	2.82	4.44	3.16	4.69	3.19	4.82	3.17	5.08	3.28	5.25	3.19
	38	3.49	2.80	3.79	2.82	4.37	3.12	4.64	3.17	4.73	3.13	4.90	3.21	5.05	3.11
39	3.49	2.80	3.79	2.82	4.34	3.11	4.62	3.16	4.68	3.11	4.81	3.18	4.94	3.08	
41	3.49	2.80	3.77	2.81	4.21	3.05	4.43	3.08	4.48	3.02	4.59	3.09	4.71	2.99	
43	3.49	2.80	3.76	2.80	4.08	2.99	4.24	2.99	4.29	2.94	4.38	3.01	4.48	2.91	

Model FDE71KXE6A

Cool Mode

Heat Mode

Model	DBT/TK/CSA		Indoor air temperature													
Air flow	Outdoor air temp. ("CDB)	21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB		
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
Uhi	10			6.30	5.29	7.54	5.99	8.15	6.11	8.67	6.18	9.71	6.68	10.09	6.51	
	12			6.30	5.29	7.54	5.99	8.15	6.11	8.66	6.18	9.68	6.67	10.04	6.50	
	14			6.30	5.29	7.54	5.99	8.15	6.11	8.65	6.17	9.64	6.65	10.00	6.48	
	16			6.30	5.29	7.54	5.99	8.15	6.11	8.64	6.17	9.61	6.64	9.96	6.47	
	18			6.30	5.29	7.54	5.99	8.15	6.11	8.63	6.17	9.57	6.62	9.91	6.45	
	20			6.30	5.29	7.54	5.99	8.15	6.11	8.61	6.16	9.54	6.61	9.87	6.44	
	22			6.29	5.29	7.53	5.98	8.15	6.11	8.57	6.14	9.42	6.57	9.73	6.39	
	24			6.29	5.29	7.53	5.98	8.15	6.11	8.53	6.13	9.30	6.52	9.60	6.35	
	26			6.28	5.28	7.49	5.97	8.07	6.08	8.43	6.09	9.15	6.47	9.45	6.30	
	28	5.69	5.22	6.28	5.28	7.46	5.95	8.00	6.05	8.33	6.05	9.00	6.41	9.30	6.25	
20 (m³/min)	30	5.69	5.22	6.26	5.27	7.40	5.93	7.92	6.02	8.24	6.01	8.87	6.37	9.17	6.20	
	32	5.69	5.22	6.24	5.26	7.34	5.90	7.84	5.98	8.14	5.97	8.73	6.32	9.03	6.16	
	34	5.69	5.22	6.22	5.25	7.32	5.90	7.74	5.94	8.01	5.92	8.55	6.25	8.84	6.09	
	35	5.69	5.22	6.21	5.25	7.31	5.89	7.69	5.92	7.94	5.90	8.45	6.22	8.75	6.06	
	36	5.69	5.22	6.21	5.25	7.25	5.87	7.65	5.91	7.87	5.87	8.30	6.16	8.58	6.01	
	38	5.69	5.22	6.19	5.24	7.14	5.82	7.57	5.87	7.72	5.81	8.00	6.06	8.24	5.90	
	39	5.69	5.22	6.18	5.24	7.09	5.80	7.54	5.86	7.64	5.78	7.85	6.00	8.07	5.84	
	41	5.69	5.22	6.16	5.23	6.87	5.71	7.23	5.74	7.32	5.66	7.50	5.88	7.69	5.72	
	43	5.69	5.22	6.14	5.22	6.66	5.62	6.92	5.62	7.00	5.54	7.15	5.76	7.31	5.60	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	5.06	5.06	5.06	5.06	5.06	
	-17.8	-18	5.39	5.39	5.39	5.39	5.39	
	-15.7	-16	5.72	5.72	5.72	5.72	5.72	
	-13.7	-14	6.04	6.04	6.04	6.04	6.04	
	-11.7	-12	6.37	6.37	6.37	6.37	6.37	
	-9.6	-10	6.69	6.69	6.69	6.69	6.69	
	-7.5	-8	7.10	7.10	7.10	7.10	7.10	
	-5.5	-6	7.51	7.51	7.51	7.51	7.51	
	-3.4	-4	7.77	7.76	7.75	7.67	7.60	
	-1.3	-2	8.03	8.01	7.99	7.84	7.68	
20 (m³/min)	0.8	0	8.47	8.35	8.23	7.93	7.64	
	3.9	3	9.19	8.86	8.53	8.05	7.57	
	7.0	6	10.04	9.38	8.73	8.12	7.51	
	10.1	9	9.97	9.34	8.70	8.07	7.44	
	13.2	12	9.91	9.28	8.64	8.01	7.38	
	16.9	15.5	9.83	9.20	8.57	7.93	7.30	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	4.83	6.96	5.46	7.53	5.58	8.01	5.65	8.97	6.10	9.31	5.94
	12			5.82	4.83	6.96	5.46	7.53	5.58	8.00	5.64	8.94	6.09	9.27	5.93
	14			5.82	4.83	6.96	5.46	7.53	5.58	7.99	5.64	8.90	6.07	9.23	5.91
	16			5.82	4.83	6.96	5.46	7.53	5.58	7.97	5.63	8.87	6.06	9.19	5.90
	18			5.82	4.83	6.96	5.46	7.53	5.58	7.96	5.63	8.84	6.05	9.15	5.89
	20			5.82	4.83	6.96	5.46	7.53	5.58	7.95	5.62	8.81	6.04	9.11	5.87
	22			5.81	4.83	6.95	5.46	7.53	5.58	7.92	5.61	8.70	5.99	8.99	5.83
	24			5.80	4.83	6.95	5.46	7.53	5.58	7.88	5.60	8.58	5.95	8.86	5.79
	26			5.80	4.83	6.92	5.44	7.46	5.55	7.79	5.56	8.45	5.90	8.73	5.74
	28	5.25	4.76	5.79	4.82	6.89	5.43	7.38	5.52	7.69	5.52	8.31	5.85	8.59	5.70
18 (m³/min)	30	5.25	4.76	5.78	4.82	6.83	5.41	7.31	5.49	7.60	5.48	8.19	5.81	8.46	5.65
	32	5.25	4.76	5.77	4.81	6.78	5.39	7.24	5.46	7.51	5.45	8.06	5.76	8.33	5.61
	34	5.25	4.76	5.75	4.80	6.76	5.38	7.15	5.42	7.39	5.40	7.89	5.70	8.16	5.55
	35	5.25	4.76	5.74	4.79	6.75	5.37	7.10	5.40	7.33	5.38	7.80	5.66	8.08	5.53
	36	5.25	4.76	5.73	4.79	6.69	5.35	7.06	5.39	7.26	5.35	7.66	5.61	7.92	5.47
	38	5.25	4.76	5.72	4.78	6.59	5.31	6.99	5.36	7.12	5.30	7.38	5.51	7.61	5.37
	39	5.25	4.76	5.71	4.78	6.54	5.29	6.96	5.35	7.05	5.27	7.24	5.46	7.45	5.32
	41	5.25	4.76	5.69	4.77	6.35	5.21	6.67	5.23	6.76	5.16	6.92	5.35	7.10	5.21
	43	5.25	4.76	5.67	4.76	6.15	5.13	6.39	5.12	6.46	5.04	6.60	5.24	6.75	5.10

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64	
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
18 (m³/min)	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
	7.0	6	9.20	8.60	8.00	7.44	6.88	
	10.1	9	9.14	8.56	7.97	7.40	6.82	
	13.2	12	9.08	8.50	7.92	7.34	6.76	
	16.9	15.5	9.01	8.43	7.85	7.27	6.69	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			4.76	3.84	5.69	4.34	6.16	4.45	6.55	4.51	7.34	4.86	7.62	4.74
	12			4.76	3.84	5.69	4.34	6.16	4.45	6.54	4.50	7.31	4.85	7.59	4.73
	14			4.76	3.84	5.69	4.34	6.16	4.45	6.53	4.50	7.29	4.84	7.56	4.71
	16			4.76	3.84	5.69	4.34	6.16	4.45	6.53	4.50	7.26	4.83	7.52	4.70
	18			4.76	3.84	5.69	4.34	6.16	4.45	6.52	4.49	7.23	4.82	7.49	4.69
	20			4.76	3.84	5.69	4.34	6.16	4.45	6.51	4.49	7.21	4.81	7.46	4.68
	22			4.76	3.84	5.69	4.34	6.16	4.45	6.48	4.48	7.12	4.78	7.35	4.64
	24			4.75	3.84	5.69	4.34	6.16	4.45	6.45	4.47	7.02	4.74	7.25	4.61
	26			4.74	3.83	5.66	4.33	6.10	4.43	6.37	4.43	6.91	4.70	7.14	4.57
	28	4.30	3.79	4.74	3.83	5.64	4.32	6.04	4.39	6.30	4.41	6.80	4.66	7.03	4.53
14 (m³/min)	30	4.30	3.79	4.73	3.83	5.59	4.30	5.98	4.37	6.22	4.37	6.70	4.62	6.92	4.50
	32	4.30	3.79	4.72	3.82	5.55	4.29	5.93	4.35	6.15	4.34	6.60	4.58	6.82	4.46
	34	4.30	3.79	4.70	3.81	5.53	4.28	5.85	4.32	6.05	4.30	6.46	4.53	6.68	4.41
	35	4.30	3.79	4.69	3.81	5.52	4.27	5.81	4.30	6.00	4.28	6.39	4.50	6.61	4.38
	36	4.30	3.79	4.69	3.81	5.48	4.26	5.78	4.29	5.94	4.26	6.27	4.46	6.48	4.34
	38	4.30	3.79	4.68	3.80	5.39	4.22	5.72	4.26	5.83	4.21	6.04	4.37	6.22	4.25
	39	4.30	3.79	4.67	3.80	5.35	4.20	5.69	4.25	5.77	4.19	5.93	4.33	6.10	4.21
	41	4.30	3.79	4.65	3.79	5.19	4.13	5.46	4.16	5.53	4.10	5.66	4.24	5.81	4.12
	43	4.30	3.79	4.64	3.79	5.03	4.07	5.23	4.06	5.29	4.00	5.40	4.15	5.52	4.03

Model **FDE112KXE6A** Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature															
		21 °CDB		23 °CDB		26 °CDB		27 °CDB		28 °CDB		31 °CDB		33 °CDB			
		14 °CWB		16 °CWB		18 °CWB		19 °CWB		20 °CWB		22 °CWB		24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Uhi	10			9.96	8.05	11.91	9.09	12.88	9.30	13.70	9.42	15.35	10.18	15.94	9.92		
	12			9.96	8.05	11.91	9.09	12.88	9.30	13.68	9.41	15.29	10.16	15.87	9.89		
	14			9.96	8.05	11.91	9.09	12.88	9.30	13.67	9.41	15.24	10.14	15.80	9.87		
	16			9.96	8.05	11.91	9.09	12.88	9.30	13.65	9.40	15.18	10.11	15.73	9.84		
	18			9.96	8.05	11.91	9.09	12.88	9.30	13.63	9.39	15.13	10.10	15.66	9.82		
	20			9.96	8.05	11.91	9.09	12.88	9.30	13.61	9.38	15.07	10.07	15.59	9.79		
	22			9.95	8.04	11.90	9.09	12.88	9.30	13.55	9.36	14.88	10.00	15.38	9.72		
	24			9.93	8.03	11.90	9.09	12.88	9.30	13.48	9.33	14.69	9.93	15.17	9.65		
	26			9.92	8.03	11.84	9.06	12.76	9.25	13.32	9.26	14.46	9.82	14.93	9.55		
	28	8.99	7.92	9.91	8.02	11.79	9.04	12.64	9.20	13.17	9.21	14.23	9.74	14.70	9.47		
29 (m³/min)	30	8.99	7.92	9.89	8.01	11.69	9.00	12.51	9.14	13.01	9.14	14.01	9.66	14.48	9.39		
	32	8.99	7.92	9.87	8.01	11.60	8.96	12.39	9.09	12.86	9.08	13.79	9.57	14.26	9.32		
	34	8.99	7.92	9.83	7.99	11.56	8.94	12.23	9.03	12.65	9.00	13.50	9.47	13.97	9.22		
	35	8.99	7.92	9.82	7.98	11.54	8.94	12.15	8.99	12.55	8.96	13.36	9.41	13.82	9.17		
	36	8.99	7.92	9.81	7.98	11.46	8.90	12.09	8.97	12.43	8.91	13.12	9.33	13.55	9.08		
	38	8.99	7.92	9.78	7.97	11.28	8.83	11.97	8.92	12.19	8.81	12.64	9.15	13.01	8.90		
	39	8.99	7.92	9.77	7.96	11.19	8.79	11.91	8.90	12.07	8.77	12.40	9.06	12.75	8.81		
	41	8.99	7.92	9.73	7.94	10.86	8.65	11.42	8.70	11.56	8.57	11.85	8.87	12.15	8.62		
	43	8.99	7.92	9.70	7.93	10.52	8.51	10.94	8.50	11.06	8.38	11.30	8.67	11.55	8.42		

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.							
			16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB			
Uhi	DB	WB	-19.8	-20	7.96	7.96	7.96	7.96	7.96	7.96
	DB	WB	-17.8	-18	8.48	8.48	8.48	8.48	8.48	8.48
	DB	WB	-15.7	-16	8.99	8.99	8.99	8.99	8.99	8.99
	DB	WB	-13.7	-14	9.50	9.50	9.50	9.50	9.50	9.50
	DB	WB	-11.7	-12	10.01	10.01	10.01	10.01	10.01	10.01
	DB	WB	-9.6	-10	10.53	10.53	10.53	10.53	10.53	10.53
	DB	WB	-7.5	-8	11.17	11.17	11.17	11.17	11.17	11.17
	DB	WB	-5.5	-6	11.81	11.81	11.81	11.81	11.81	11.81
	DB	WB	-3.4	-4	12.22	12.20	12.19	12.07	11.95	
	DB	WB	-1.3	-2	12.63	12.60	12.56	12.32	12.08	
29 (m³/min)	DB	WB	0.8	0	13.32	13.13	12.94	12.48	12.01	
	DB	WB	3.9	3	14.45	13.94	13.42	12.67	11.91	
	DB	WB	7.0	6	15.79	14.76	13.73	12.77	11.81	
	DB	WB	10.1	9	15.69	14.68	13.68	12.69	11.70	
	DB	WB	13.2	12	15.58	14.59	13.59	12.60	11.60	
	DB	WB	16.9	15.5	15.46	14.47	13.47	12.48	11.48	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature															
		21 °CDB		23 °CDB		26 °CDB		27 °CDB		28 °CDB		31 °CDB		33 °CDB			
		14 °CWB		16 °CWB		18 °CWB		19 °CWB		20 °CWB		22 °CWB		24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Hi	10			9.18	7.32	10.97	8.28	11.87	8.47	12.63	8.59	14.15	9.28	14.69	9.03		
	12			9.18	7.32	10.97	8.28	11.87	8.47	12.61	8.58	14.10	9.26	14.63	9.01		
	14			9.18	7.32	10.97	8.28	11.87	8.47	12.60	8.58	14.05	9.24	14.56	8.99		
	16			9.18	7.32	10.97	8.28	11.87	8.47	12.58	8.57	14.00	9.22	14.50	8.97		
	18			9.18	7.32	10.97	8.28	11.87	8.47	12.56	8.56	13.94	9.20	14.44	8.94		
	20			9.18	7.32	10.97	8.28	11.87	8.47	12.55	8.56	13.89	9.18	14.37	8.92		
	22			9.17	7.32	10.97	8.28	11.87	8.47	12.49	8.53	13.72	9.11	14.18	8.85		
	24			9.15	7.31	10.97	8.28	11.87	8.47	12.43	8.51	13.54	9.04	13.98	8.78		
	26			9.15	7.31	10.92	8.26	11.76	8.43	12.28	8.44	13.33	8.96	13.77	8.71		
	28	8.29	7.21	9.14	7.31	10.86	8.23	11.65	8.38	12.14	8.39	13.11	8.88	13.55	8.63		
26 (m³/min)	30	8.29	7.21	9.12	7.30	10.78	8.20	11.54	8.33	12.00	8.33	12.91	8.79	13.35	8.55		
	32	8.29	7.21	9.09	7.29	10.70	8.16	11.42	8.28	11.85	8.27	12.71	8.71	13.15	8.48		
	34	8.29	7.21	9.06	7.27	10.66	8.15	11.27	8.22	11.66	8.19	12.45	8.62	12.87	8.38		
	35	8.29	7.21	9.05	7.27	10.64	8.14	11.20	8.18	11.57	8.16	12.31	8.56	12.74	8.34		
	36	8.29	7.21	9.04	7.26	10.56	8.10	11.14	8.17	11.46	8.11	12.09	8.48	12.49	8.25		
	38	8.29	7.21	9.02	7.25	10.40	8.03	11.03	8.12	11.24	8.02	11.65	8.32	12.00	8.09		
	39	8.29	7.21	9.00	7.25	10.32	8.00	10.98	8.10	11.13	7.98	11.43	8.24	11.75	8.01		
	41	8.29	7.21	8.97	7.23	10.01	7.87	10.53	7.92	10.66	7.80	10.92	8.06	11.20	7.82		
	43	8.29	7.21	8.94	7.22	9.70	7.74	10.08	7.73	10.19	7.61	10.41	7.87	10.65	7.65		

Air flow	Outdoor air temp.		Indoor air temp.							
			16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB			
Hi	DB	WB	-19.8	-20	7.25	7.25	7.25	7.25	7.25	7.25
	DB	WB	-17.8	-18	7.72	7.72	7.72	7.72	7.72	7.72
	DB	WB	-15.7	-16	8.18	8.18	8.18	8.18	8.18	8.18
	DB	WB	-13.7	-14	8.65	8.65	8.65	8.65	8.65	8.65
	DB	WB	-11.7	-12	9.12	9.12	9.12	9.12	9.12	9.12
	DB	WB	-9.6	-10	9.58	9.58	9.58	9.58	9.58	9.58
	DB	WB	-7.5	-8	10.17	10.17	10.17	10.17	10.17	10.17
	DB	WB	-5.5	-6	10.75	10.75	10.75	10.75	10.75	10.75
	DB	WB	-3.4	-4	11.13	11.11	11.09	10.98	10.88	
	DB	WB	-1.3	-2	11.50	11.47	11.44	11.22	11.00	
26 (m³/min)	DB	WB	0.8	0	12.13	11.95	11.78	11.36	10.94	
	DB	WB	3.9	3	13.16	12.69	12.22	11.53	10.84	
	DB	WB	7.0	6	14.38	13.44	12.50	11.63	10.75	
	DB	WB	10.1	9	14.28	13.37	12.45	11.55	10.66	
	DB	WB	13.2	12	14.19	13.28	12.38	11.47	10.56	
	DB	WB	16.9	15.5	14.08	13.17	12.27	11.36	10.45	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature															
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Me	10			8.34	6.55	9.98	7.42	10.79	7.59	11.48	7.70	12.86	8.31	13.35	8.09		
	12			8.34	6.55	9.98	7.42	10.79	7.59	11.47	7.69	12.81	8.29	13.30	8.07		
	14			8.34	6.55	9.98	7.42	10.79	7.59	11.45	7.69	12.77	8.27	13.24	8.05		
	16			8.34	6.55	9.98	7.42	10.79	7.59	11.43	7.68	12.72	8.25	13.18	8.03		
	18			8.34	6.55	9.98	7.42	10.79	7.59	11.42	7.67	12.67	8.23	13.12	8.00		
	20			8.34	6.55	9.98	7.42	10.79	7.59	11.40	7.67	12.63	8.22	13.06	7.98		
	22			8.33	6.55	9.97	7.42	10.79	7.59	11.35	7.65	12.47	8.16	12.89	7.92		
	24			8.32	6.54	9.97	7.42	10.79	7.59	11.30	7.62	12.31	8.10	12.71	7.85		
	26			8.31	6.54	9.92	7.39	10.69	7.55	11.16	7.57	12.11	8.01	12.51	7.78		
	28	7.53	6.44	8.31	6.54	9.87	7.37	10.59	7.51	11.03	7.51	11.92	7.93	12.32	7.71		
23 (m/min)	30	7.53	6.44	8.29	6.53	9.80	7.33	10.49	7.47	10.90	7.46	11.74	7.87	12.13	7.64		
	32	7.53	6.44	8.27	6.52	9.72	7.30	10.38	7.42	10.77	7.41	11.56	7.80	11.95	7.58		
	34	7.53	6.44	8.24	6.51	9.69	7.28	10.25	7.37	10.60	7.34	11.31	7.70	11.70	7.50		
	35	7.53	6.44	8.23	6.50	9.67	7.28	10.18	7.33	10.52	7.31	11.19	7.66	11.58	7.46		
	36	7.53	6.44	8.22	6.50	9.60	7.24	10.13	7.32	10.42	7.27	10.99	7.58	11.35	7.38		
	38	7.53	6.44	8.19	6.48	9.45	7.18	10.03	7.27	10.21	7.18	10.59	7.44	10.90	7.21		
	39	7.53	6.44	8.18	6.48	9.38	7.15	9.98	7.24	10.11	7.13	10.39	7.35	10.68	7.14		
	41	7.53	6.44	8.16	6.47	9.10	7.03	9.57	7.07	9.69	6.97	9.93	7.19	10.18	6.98		
	43	7.53	6.44	8.13	6.46	8.82	6.91	9.16	6.91	9.26	6.80	9.46	7.02	9.68	6.81		

Model **FDE140KXE6A** Cool Mode

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature											
		21 °CDB		23 °CDB		26 °CDB		27 °CDB		28 °CDB		31 °CDB	
		14 °CWB		16 °CWB		18 °CWB		19 °CWB		20 °CWB		22 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			12.04	9.19	14.39	10.41	15.57	10.69	16.57	10.85	18.56	11.70
	12			12.04	9.19	14.39	10.41	15.57	10.69	16.54	10.84	18.49	11.67
	14			12.04	9.19	14.39	10.41	15.57	10.69	16.52	10.83	18.42	11.65
	16			12.04	9.19	14.39	10.41	15.57	10.69	16.50	10.82	18.36	11.62
	18			12.04	9.19	14.39	10.41	15.57	10.69	16.48	10.82	18.29	11.59
	20			12.04	9.19	14.39	10.41	15.57	10.69	16.45	10.80	18.22	11.57
	22			12.02	9.18	14.39	10.41	15.57	10.69	16.38	10.77	17.99	11.46
	24			12.01	9.18	14.38	10.41	15.57	10.69	16.30	10.74	17.76	11.37
	26			12.00	9.17	14.32	10.38	15.42	10.61	16.11	10.66	17.48	11.26
	28	10.87	9.04	11.99	9.17	14.25	10.35	15.28	10.55	15.92	10.58	17.20	11.15
31 (m³/min)	30	10.87	9.04	11.96	9.16	14.14	10.30	15.13	10.49	15.73	10.48	16.94	11.05
	32	10.87	9.04	11.93	9.14	14.03	10.25	14.98	10.42	15.55	10.41	16.68	10.95
	34	10.87	9.04	11.89	9.12	13.98	10.23	14.79	10.34	15.30	10.30	16.32	10.79
	35	10.87	9.04	11.87	9.11	13.96	10.22	14.69	10.28	15.18	10.26	16.15	10.73
	36	10.87	9.04	11.85	9.10	13.85	10.17	14.62	10.27	15.03	10.19	15.86	10.62
	38	10.87	9.04	11.83	9.10	13.64	10.08	14.47	10.20	14.74	10.07	15.28	10.40
	39	10.87	9.04	11.81	9.09	13.53	10.03	14.40	10.17	14.59	10.01	14.99	10.29
	41	10.87	9.04	11.77	9.07	13.13	9.85	13.81	9.92	13.98	9.77	14.32	10.04
	43	10.87	9.04	11.73	9.05	12.72	9.67	13.22	9.67	13.37	9.51	13.66	9.78

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi	-19.8	-20	9.81	9.81	9.81	9.81	9.81
	-17.8	-18	10.45	10.45	10.45	10.45	10.45
	-15.7	-16	11.08	11.08	11.08	11.08	11.08
	-13.7	-14	11.71	11.71	11.71	11.71	11.71
	-11.7	-12	12.34	12.34	12.34	12.34	12.34
	-9.6	-10	12.97	12.97	12.97	12.97	12.97
	-7.5	-8	13.76	13.76	13.76	13.76	13.76
	-5.5	-6	14.55	14.55	14.55	14.55	14.55
	-3.4	-4	15.06	15.04	15.02	14.87	14.72
	-1.3	-2	15.57	15.52	15.48	15.19	14.89
31 (m³/min)	0.8	0	16.41	16.18	15.95	15.38	14.81
	3.9	3	17.81	17.17	16.54	15.61	14.68
	7.0	6	19.46	18.19	16.92	15.74	14.55
	10.1	9	19.33	18.09	16.86	15.64	14.42
	13.2	12	19.20	17.98	16.75	15.52	14.30
	16.9	15.5	19.06	17.83	16.60	15.38	14.15

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature											
		21 °CDB		23 °CDB		26 °CDB		27 °CDB		28 °CDB		31 °CDB	
		14 °CWB		16 °CWB		18 °CWB		19 °CWB		20 °CWB		22 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			11.48	8.74	13.72	9.89	14.84	10.16	15.79	10.31	17.69	11.11
	12			11.48	8.74	13.72	9.89	14.84	10.16	15.77	10.30	17.62	11.08
	14			11.48	8.74	13.72	9.89	14.84	10.16	15.75	10.30	17.56	11.06
	16			11.48	8.74	13.72	9.89	14.84	10.16	15.72	10.28	17.49	11.03
	18			11.48	8.74	13.72	9.89	14.84	10.16	15.70	10.27	17.43	11.00
	20			11.48	8.74	13.72	9.89	14.84	10.16	15.68	10.26	17.37	10.98
	22			11.46	8.73	13.71	9.88	14.84	10.16	15.61	10.24	17.15	10.89
	24			11.44	8.72	13.71	9.88	14.84	10.16	15.54	10.21	16.93	10.80
	26			11.43	8.71	13.64	9.85	14.70	10.10	15.35	10.12	16.66	10.70
	28	10.36	8.59	11.42	8.71	13.58	9.83	14.56	10.03	15.17	10.05	16.39	10.59
29 (m³/min)	30	10.36	8.59	11.40	8.70	13.48	9.78	14.42	9.97	14.99	9.97	16.14	10.49
	32	10.36	8.59	11.37	8.69	13.37	9.73	14.28	9.91	14.82	9.90	15.89	10.39
	34	10.36	8.59	11.33	8.67	13.32	9.71	14.09	9.81	14.58	9.80	15.56	10.26
	35	10.36	8.59	11.31	8.66	13.30	9.70	14.00	9.80	14.46	9.75	15.39	10.19
	36	10.36	8.59	11.30	8.65	13.20	9.66	13.93	9.75	14.32	9.69	15.11	10.09
	38	10.36	8.59	11.27	8.64	13.00	9.57	13.79	9.69	14.05	9.56	14.56	9.86
	39	10.36	8.59	11.26	8.63	12.90	9.52	13.72	9.66	13.91	9.51	14.28	9.76
	41	10.36	8.59	11.22	8.62	12.51	9.35	13.16	9.42	13.32	9.26	13.65	9.52
	43	10.36	8.59	11.18	8.60	12.13	9.19	12.60	9.18	12.74	9.03	13.02	9.29

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	9.28	9.28	9.28	9.28	9.28
	-17.8	-18	9.88	9.88	9.88	9.88	9.88
	-15.7	-16	10.47	10.47	10.47	10.47	10.47
	-13.7	-14	11.07	11.07	11.07	11.07	11.07
	-11.7	-12	11.67	11.67	11.67	11.67	11.67
	-9.6	-10	12.27	12.27	12.27	12.27	12.27
	-7.5	-8	13.01	13.01	13.01	13.01	13.01
	-5.5	-6	13.76	13.76	13.76	13.76	13.76
	-3.4	-4	14.24	14.22	14.20	14.06	13.92
	-1.3	-2	14.72	14.68	14.64	14.36	14.08
29 (m³/min)	0.8	0	15.52	15.30	15.08	14.54	14.00
	3.9	3	16.84	16.24	15.64	14.76	13.88
	7.0	6	18.40	17.20	16.00	14.88	13.76
	10.1	9	18.28	17.11	15.94	14.79	13.64
	13.2	12	18.16	17.00	15.84	14.68	13.52
	16.9	15.5	18.02	16.86	15.70	14.54	13.38

Air flow	Outdoor air temp. ("°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			10.57	7.96	12.64	9.02	13.67	9.27	14.55	9.42	16.30	10.16	16.92	9.87
	12			10.57	7.96	12.64	9.02	13.67	9.27	14.53	9.41	16.24	10.12	16.85	9.83
	14			10.57	7.96	12.64	9.02	13.67	9.27	14.51	9.40	16.18	10.10	16.77	9.80
	16			10.57	7.96	12.64	9.02	13.67	9.27	14.49	9.39	16.12	10.07	16.70	9.77
	18			10.57	7.96	12.64	9.02	13.67	9.27	14.47	9.38	16.06	10.04	16.63	9.75
	20			10.57	7.96	12.64	9.02	13.67	9.27	14.45	9.37	16.00	10.02	16.56	9.72
	22			10.56	7.96	12.64	9.02	13.67	9.27	14.38	9.34	15.80	9.94	16.33	9.63
	24			10.54	7.95	12.63	9.03	13.67	9.27	14.31	9.31	15.60	9.86	16.10	9.55
	26			10.54	7.95	12.57	8.99	13.55	9.21	14.15	9.24	15.35	9.75	15.86	9.46
	28	9.55	7.83	10.53	7.94	12.51	8.96	13.42	9.16	13.98	9.17	15.10	9.65	15.61	9.37
26 (m³/min)	30	9.55	7.83	10.50	7.93	12.42	8.92	13.29	9.10	13.82	9.10	14.87	9.56	15.38	9.28
	32	9.55	7.83	10.47	7.91	12.32	8.88	13.16	9.04	13.65	9.03	14.64	9.47	15.14	9.20
	34	9.55	7.83	10.44	7.90	12.28	8.86	12.99	8.97	13.44	8.94	14.33	9.35	14.83	9.08
	35	9.55	7.83	10.42	7.89	12.26	8.85	12.90	8.90	13.33	8.89	14.18	9.29	14.67	9.03
	36	9.55	7.83	10.41	7.89	12.16	8.80	12.84	8.90	13.20	8.84	13.93	9.19	14.39	8.93
	38	9.55	7.83	10.38	7.87	11.98	8.72	12.71	8.83	12.94	8.73	13.42	8.99	13.82	8.73
	39	9.55	7.83	10.37	7.87	11.89	8.68	12.64	8.80	12.82	8.67	13.16	8.90	13.53	8.63
	41	9.55	7.83	10.34	7.86	11.53	8.52	12.13	8.58	12.28	8.44	12.58	8.66	12.90	8.39
	43	9.55	7.83	10.30	7.84	11.17	8.37	11.61	8.36	11.74	8.23	11.99	8.42	12.26	8.18

(K) Floor standing (with casing) type (FDFL)

Model **FDFL71KXE6**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			5.82	4.76	6.96	5.38	7.53	5.51	8.01	5.57	8.97	6.01	9.31	5.86
	12			5.82	4.76	6.96	5.38	7.53	5.51	8.00	5.57	8.94	6.00	9.27	5.84
	14			5.82	4.76	6.96	5.38	7.53	5.51	7.99	5.57	8.90	5.98	9.23	5.83
	16			5.82	4.76	6.96	5.38	7.53	5.51	7.97	5.56	8.87	5.97	9.19	5.81
	18			5.82	4.76	6.96	5.38	7.53	5.51	7.96	5.55	8.84	5.96	9.15	5.80
	20			5.82	4.76	6.96	5.38	7.53	5.51	7.95	5.55	8.81	5.95	9.11	5.79
	22			5.81	4.76	6.95	5.38	7.53	5.51	7.92	5.54	8.70	5.91	8.99	5.75
	24			5.80	4.75	6.95	5.38	7.53	5.51	7.88	5.52	8.58	5.87	8.86	5.70
18 (m³/min)	26			5.80	4.75	6.92	5.37	7.46	5.48	7.79	5.49	8.45	5.82	8.73	5.66
	28	5.25	4.69	5.79	4.75	6.89	5.35	7.38	5.45	7.69	5.45	8.31	5.77	8.59	5.62
	30	5.25	4.69	5.78	4.75	6.83	5.33	7.31	5.42	7.60	5.41	8.19	5.72	8.46	5.57
	32	5.25	4.69	5.77	4.74	6.78	5.31	7.24	5.38	7.51	5.38	8.06	5.68	8.33	5.53
	34	5.25	4.69	5.75	4.73	6.76	5.30	7.15	5.34	7.39	5.32	7.89	5.62	8.16	5.47
	35	5.25	4.69	5.74	4.73	6.75	5.30	7.10	5.33	7.33	5.30	7.80	5.59	8.08	5.44
	36	5.25	4.69	5.73	4.72	6.69	5.27	7.06	5.31	7.26	5.27	7.66	5.52	7.92	5.39
	38	5.25	4.69	5.72	4.72	6.59	5.23	6.99	5.28	7.12	5.22	7.38	5.43	7.61	5.29
	39	5.25	4.69	5.71	4.71	6.54	5.21	6.96	5.27	7.05	5.19	7.24	5.38	7.45	5.24
	41	5.25	4.69	5.69	4.71	6.35	5.12	6.67	5.15	6.76	5.08	6.92	5.26	7.10	5.11
43	5.25	4.69	5.67	4.70	6.15	5.04	6.39	5.04	6.46	4.94	6.60	5.15	6.75	5.01	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	4.64	4.64	4.64	4.64	4.64	
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
18 (m³/min)	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
	7.0	6	9.20	8.60	8.00	7.44	6.88	
	10.1	9	9.14	8.56	7.97	7.40	6.82	
	13.2	12	9.08	8.50	7.92	7.34	6.76	
	16.9	15.5	9.01	8.43	7.85	7.27	6.69	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	4.76	6.96	5.38	7.53	5.51	8.01	5.57	8.97	6.01	9.31	5.86
	12			5.82	4.76	6.96	5.38	7.53	5.51	8.00	5.57	8.94	6.00	9.27	5.84
	14			5.82	4.76	6.96	5.38	7.53	5.51	7.99	5.57	8.90	5.98	9.23	5.83
	16			5.82	4.76	6.96	5.38	7.53	5.51	7.97	5.56	8.87	5.97	9.19	5.81
	18			5.82	4.76	6.96	5.38	7.53	5.51	7.96	5.55	8.84	5.96	9.15	5.80
	20			5.82	4.76	6.96	5.38	7.53	5.51	7.95	5.55	8.81	5.95	9.11	5.79
18 (m³/min)	22			5.81	4.76	6.95	5.38	7.53	5.51	7.92	5.54	8.70	5.91	8.99	5.75
	24			5.80	4.75	6.95	5.38	7.53	5.51	7.88	5.52	8.58	5.87	8.86	5.70
	26			5.80	4.75	6.92	5.37	7.46	5.48	7.79	5.49	8.45	5.82	8.73	5.66
	28	5.25	4.69	5.79	4.75	6.89	5.35	7.38	5.45	7.69	5.45	8.31	5.77	8.59	5.62
	30	5.25	4.69	5.78	4.75	6.83	5.33	7.31	5.42	7.60	5.41	8.19	5.72	8.46	5.57
	32	5.25	4.69	5.77	4.74	6.78	5.31	7.24	5.38	7.51	5.38	8.06	5.68	8.33	5.53
	34	5.25	4.69	5.75	4.73	6.76	5.30	7.15	5.34	7.39	5.32	7.89	5.62	8.16	5.47
	35	5.25	4.69	5.74	4.73	6.75	5.30	7.10	5.33	7.33	5.30	7.80	5.59	8.08	5.44
	36	5.25	4.69	5.73	4.72	6.69	5.27	7.06	5.31	7.26	5.27	7.66	5.52	7.92	5.39
	38	5.25	4.69	5.72	4.72	6.59	5.23	6.99	5.28	7.12	5.22	7.38	5.43	7.61	5.29
	39	5.25	4.69	5.71	4.71	6.54	5.21	6.96	5.27	7.05	5.19	7.24	5.38	7.45	5.24
	41	5.25	4.69	5.69	4.71	6.35	5.12	6.67	5.15	6.76	5.08	6.92	5.26	7.10	5.11
	43	5.25	4.69	5.67	4.70	6.15	5.04	6.39	5.04	6.46	4.94	6.60	5.15	6.75	5.01

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64	
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
18 (m³/min)	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
	7.0	6	9.20	8.60	8.00	7.44	6.88	
	10.1	9	9.14	8.56	7.97	7.40	6.82	
	13.2	12	9.08	8.50	7.92	7.34	6.76	
	16.9	15.5	9.01	8.43	7.85	7.27	6.69	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			5.11	4.14	6.10	4.68	6.60	4.78	7.03	4.85	7.87	5.24	8.17	5.10
	12			5.11	4.14	6.10	4.68	6.60	4.78	7.02	4.85	7.84	5.23	8.14	5.09
	14			5.11	4.14	6.10	4.68	6.60	4.78	7.01	4.84	7.81	5.22	8.10	5.08
	16			5.11	4.14	6.10	4.68	6.60	4.78	7.00	4.84	7.78	5.20	8.07	5.07
	18			5.11	4.14	6.10	4.68	6.60	4.78	6.99	4.83	7.76	5.20	8.03	5.05
	20			5.11	4.14	6.10	4.68	6.60	4.78	6.98	4.83	7.73	5.18	8.00	5.04
15 (m³/min)	22			5.10	4.14	6.10	4.68	6.60	4.78	6.95	4.82	7.63	5.15	7.89	5.01
	24			5.09	4.13	6.10	4.68	6.60	4.78	6.91	4.80	7.53	5.10	7.78	4.97
	26			5.09	4.13	6.07	4.67	6.54	4.76	6.83	4.77	7.41	5.06	7.66	4.92
	28	4.61	4.08	5.08	4.13	6.04	4.65	6.48	4.73	6.75	4.74	7.29	5.01	7.54	4.88
	30	4.61	4.08	5.07	4.13	6.00	4.64	6.42	4.71	6.67	4.70	7.18	4.97	7.43	4.84
	32	4.61	4.08	5.06	4.12	5.95	4.61	6.35	4.68	6.59	4.67	7.07	4.93	7.31	4.80
	34	4.61	4.08	5.04	4.11	5.93	4.61	6.27	4.65	6.49	4.63	6.92	4.87	7.16	4.75
35	4.61	4.08	5.03	4.11	5.92	4.60	6.23	4.61	6.44	4.61	6.85	4.85	7.09	4.72	
36	4.61	4.08	5.03	4.11	5.87	4.58	6.20	4.62	6.37	4.58	6.73	4.80	6.95	4.68	
38	4.61	4.08	5.02	4.10	5.78	4.54	6.14	4.59	6.25	4.54	6.48	4.71	6.67	4.58	
39	4.61	4.08	5.01	4.10	5.74	4.53	6.11	4.58	6.19	4.51	6.36	4.67	6.54	4.54	
41	4.61	4.08	4.99	4.09	5.57	4.45	5.86	4.48	5.93	4.41	6.07	4.57	6.23	4.44	
43	4.61	4.08	4.97	4.08	5.40	4.38	5.61	4.38	5.67	4.31	5.79	4.47	5.92	4.34	

(I) Floor standing (without casing) type (FDFU)

Model **FDFU28KXE6**

Cool Mode

Heat Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			2.30	2.21	2.74	2.63	2.97	2.75	3.16	2.77	3.54	3.02	3.67	2.96
	12			2.30	2.21	2.74	2.63	2.97	2.75	3.15	2.77	3.52	3.01	3.66	2.95
	14			2.30	2.21	2.74	2.63	2.97	2.75	3.15	2.77	3.51	3.01	3.64	2.95
	16			2.30	2.21	2.74	2.63	2.97	2.75	3.14	2.77	3.50	3.00	3.63	2.95
	18			2.30	2.21	2.74	2.63	2.97	2.75	3.14	2.77	3.49	3.00	3.61	2.94
	20			2.30	2.21	2.74	2.63	2.97	2.75	3.14	2.77	3.47	2.99	3.59	2.93
	22			2.29	2.20	2.74	2.63	2.97	2.75	3.12	2.76	3.43	2.98	3.54	2.92
	24			2.29	2.20	2.74	2.63	2.97	2.75	3.11	2.76	3.39	2.97	3.50	2.91
	26			2.29	2.20	2.73	2.62	2.94	2.74	3.07	2.74	3.33	2.95	3.44	2.88
	28	2.07	1.99	2.28	2.19	2.72	2.61	2.91	2.73	3.03	2.73	3.28	2.93	3.39	2.87
12 (m³/min)	30	2.07	1.99	2.28	2.19	2.70	2.59	2.88	2.72	3.00	2.72	3.23	2.91	3.34	2.85
	32	2.07	1.99	2.27	2.18	2.67	2.56	2.86	2.72	2.96	2.71	3.18	2.90	3.29	2.84
	34	2.07	1.99	2.27	2.18	2.66	2.55	2.82	2.70	2.92	2.69	3.11	2.88	3.22	2.82
	35	2.07	1.99	2.26	2.17	2.66	2.55	2.80	2.69	2.89	2.68	3.08	2.87	3.18	2.81
	36	2.07	1.99	2.26	2.17	2.64	2.53	2.79	2.68	2.86	2.67	3.02	2.85	3.12	2.79
	38	2.07	1.99	2.25	2.16	2.60	2.50	2.76	2.65	2.81	2.65	2.91	2.79	3.00	2.75
	39	2.07	1.99	2.25	2.16	2.58	2.48	2.74	2.63	2.78	2.64	2.86	2.75	2.94	2.73
	41	2.07	1.99	2.24	2.15	2.50	2.40	2.63	2.52	2.66	2.55	2.73	2.62	2.80	2.69
	43	2.07	1.99	2.24	2.15	2.43	2.33	2.52	2.42	2.55	2.45	2.60	2.50	2.66	2.55

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	1.86	1.86	1.86	1.86	1.86	1.86
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	1.98
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	2.09
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	2.21
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	2.33
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	2.45
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	2.60
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	2.75
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	
12 (m³/min)	0.8	0	3.10	3.06	3.02	2.91	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.30	2.21	2.74	2.63	2.97	2.75	3.16	2.77	3.54	3.02	3.67	2.96
	12			2.30	2.21	2.74	2.63	2.97	2.75	3.15	2.77	3.52	3.01	3.66	2.95
	14			2.30	2.21	2.74	2.63	2.97	2.75	3.15	2.77	3.51	3.01	3.64	2.95
	16			2.30	2.21	2.74	2.63	2.97	2.75	3.14	2.77	3.50	3.00	3.63	2.95
	18			2.30	2.21	2.74	2.63	2.97	2.75	3.14	2.77	3.49	3.00	3.61	2.94
	20			2.30	2.21	2.74	2.63	2.97	2.75	3.14	2.77	3.47	2.99	3.59	2.93
12 (m³/min)	22			2.29	2.20	2.74	2.63	2.97	2.75	3.12	2.76	3.43	2.98	3.54	2.92
	24			2.29	2.20	2.74	2.63	2.97	2.75	3.11	2.76	3.39	2.97	3.50	2.91
	26			2.29	2.20	2.73	2.62	2.94	2.74	3.07	2.74	3.33	2.95	3.44	2.88
	28	2.07	1.99	2.28	2.19	2.72	2.61	2.91	2.73	3.03	2.73	3.28	2.93	3.39	2.87
	30	2.07	1.99	2.28	2.19	2.70	2.59	2.88	2.72	3.00	2.72	3.23	2.91	3.34	2.85
	32	2.07	1.99	2.27	2.18	2.67	2.56	2.86	2.72	2.96	2.71	3.18	2.90	3.29	2.84
	34	2.07	1.99	2.27	2.18	2.66	2.55	2.82	2.70	2.92	2.69	3.11	2.88	3.22	2.82
	35	2.07	1.99	2.26	2.17	2.66	2.55	2.80	2.69	2.89	2.68	3.08	2.87	3.18	2.81
	36	2.07	1.99	2.26	2.17	2.64	2.53	2.79	2.68	2.86	2.67	3.02	2.85	3.12	2.79
38	2.07	1.99	2.25	2.16	2.60	2.50	2.76	2.65	2.81	2.65	2.91	2.79	3.00	2.75	
39	2.07	1.99	2.25	2.16	2.58	2.48	2.74	2.63	2.78	2.64	2.86	2.75	2.94	2.73	
41	2.07	1.99	2.24	2.15	2.50	2.40	2.63	2.52	2.66	2.55	2.73	2.62	2.80	2.69	
43	2.07	1.99	2.24	2.15	2.43	2.33	2.52	2.42	2.55	2.45	2.60	2.50	2.66	2.55	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	1.86	1.86	1.86	1.86	1.86	1.86
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	1.98
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	2.09
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	2.21
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	2.33
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	2.45
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	2.60
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	2.75
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	
12 (m³/min)	0.8	0	3.10	3.06	3.02	2.91	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.17	2.08	2.60	2.50	2.81	2.56	2.99	2.58	3.35	2.81	3.48	2.74
	12			2.17	2.08	2.60	2.50	2.81	2.56	2.98	2.58	3.34	2.80	3.46	2.74
	14			2.17	2.08	2.60	2.50	2.81	2.56	2.98	2.58	3.32	2.79	3.45	2.74
	16			2.17	2.08	2.60	2.50	2.81	2.56	2.98	2.58	3.31	2.79	3.43	2.73
	18			2.17	2.08	2.60	2.50	2.81	2.56	2.97	2.57	3.30	2.78	3.42	2.73
	20			2.17	2.08	2.60	2.50	2.81	2.56	2.97	2.57	3.29	2.78	3.40	2.72
	22			2.17	2.08	2.60	2.50	2.81	2.56	2.95	2.57	3.25	2.77	3.35	2.71
	24			2.17	2.08	2.59	2.49	2.81	2.56	2.94	2.56	3.20	2.75	3.31	2.69
	26			2.16	2.07	2.58	2.48	2.78	2.55	2.91	2.55	3.15	2.74	3.26	2.68
	28	1.96	1.88	2.16	2.07	2.57	2.47	2.76	2.54	2.87	2.53	3.10	2.72	3.21	2.67
11 (m³/min)	30	1.96	1.88	2.16	2.07	2.55	2.45	2.73	2.53	2.84	2.52	3.06	2.71	3.16	2.65
	32	1.96	1.88	2.15	2.06	2.53	2.43	2.70	2.52	2.80	2.51	3.01	2.68	3.11	2.63
	34	1.96	1.88	2.14	2.05	2.52	2.42	2.67	2.51	2.76	2.50	2.94	2.66	3.05	2.61
	35	1.96	1.88	2.14	2.05	2.52	2.42	2.65	2.49	2.74	2.49	2.91	2.65	3.01	2.60
	36	1.96	1.88	2.14	2.05	2.50	2.40	2.64	2.50	2.71	2.48	2.86	2.64	2.96	2.59
	38	1.96	1.88	2.13	2.04	2.46	2.36	2.61	2.49	2.66	2.46	2.76	2.61	2.84	2.55
	39	1.96	1.88	2.13	2.04	2.44	2.34	2.60	2.48	2.63	2.45	2.70	2.59	2.78	2.53
	41	1.96	1.88	2.12	2.04	2.37	2.28	2.49	2.39	2.52	2.41	2.58	2.48	2.65	2.49
	43	1.96	1.88	2.12	2.04	2.30	2.21	2.39	2.29	2.41	2.31	2.46	2.36	2.52	2.42

Model FDFU45KXE6

Cool Mode

Model	PDF 0-3RX2.0		Cool mode														
			Outdoor air temp. (°CDB)	Indoor air temperature													
				21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
				TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Air flow	10			3.69	3.35	4.41	3.79	4.77	3.86	5.07	3.90	5.68	4.22	5.90	4.13		
	12			3.69	3.35	4.41	3.79	4.77	3.86	5.07	3.90	5.66	4.22	5.88	4.12		
	14			3.69	3.35	4.41	3.79	4.77	3.86	5.06	3.89	5.64	4.21	5.85	4.11		
	16			3.69	3.35	4.41	3.79	4.77	3.86	5.05	3.89	5.62	4.20	5.83	4.11		
	18			3.69	3.35	4.41	3.79	4.77	3.86	5.05	3.89	5.60	4.19	5.80	4.10		
	20			3.69	3.35	4.41	3.79	4.77	3.86	5.04	3.88	5.58	4.19	5.78	4.09		
	22			3.68	3.35	4.41	3.79	4.77	3.86	5.02	3.88	5.51	4.16	5.70	4.06		
	24			3.68	3.35	4.41	3.79	4.77	3.86	4.99	3.87	5.44	4.14	5.62	4.04		
	26			3.68	3.35	4.39	3.78	4.73	3.84	4.93	3.84	5.35	4.11	5.53	4.01		
	28	3.33	3.20	3.67	3.34	4.37	3.78	4.68	3.82	4.88	3.82	5.27	4.07	5.44	3.97		
14 (m³/min)	30	3.33	3.20	3.66	3.34	4.33	3.76	4.64	3.81	4.82	3.80	5.19	4.04	5.36	3.95		
	32	3.33	3.20	3.65	3.33	4.30	3.75	4.59	3.79	4.76	3.78	5.11	4.02	5.28	3.92		
	34	3.33	3.20	3.64	3.33	4.28	3.74	4.53	3.77	4.69	3.75	5.00	3.98	5.17	3.89		
	35	3.33	3.20	3.64	3.33	4.28	3.74	4.50	3.74	4.65	3.74	4.95	3.96	5.12	3.87		
	36	3.33	3.20	3.63	3.33	4.24	3.72	4.48	3.75	4.60	3.72	4.86	3.93	5.02	3.84		
	38	3.33	3.20	3.62	3.32	4.18	3.70	4.43	3.73	4.52	3.69	4.68	3.87	4.82	3.78		
	39	3.33	3.20	3.62	3.32	4.15	3.69	4.41	3.72	4.47	3.67	4.59	3.84	4.72	3.75		
	41	3.33	3.20	3.61	3.32	4.02	3.64	4.23	3.65	4.28	3.60	4.39	3.78	4.50	3.68		
	43	3.33	3.20	3.59	3.31	3.90	3.58	4.05	3.59	4.09	3.54	4.18	3.71	4.28	3.61		

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	2.90	2.90	2.90	2.90	2.90	
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	
	-3.4	-4	4.45	4.44	4.44	4.39	4.35	
	-1.3	-2	4.60	4.59	4.58	4.49	4.40	
14 (m³/min)	0.8	0	4.85	4.78	4.71	4.54	4.38	
	3.9	3	5.26	5.08	4.89	4.61	4.34	
	7.0	6	5.75	5.38	5.00	4.65	4.30	
	10.1	9	5.71	5.35	4.98	4.62	4.26	
	13.2	12	5.68	5.31	4.95	4.59	4.23	
	16.9	15.5	5.63	5.27	4.91	4.54	4.18	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
14 (m³/min)	10			3.69	3.35	4.41	3.79	4.77	3.86	5.07	3.90	5.68	4.22	5.90	4.13
	12			3.69	3.35	4.41	3.79	4.77	3.86	5.07	3.90	5.66	4.22	5.88	4.12
	14			3.69	3.35	4.41	3.79	4.77	3.86	5.06	3.89	5.64	4.21	5.85	4.11
	16			3.69	3.35	4.41	3.79	4.77	3.86	5.05	3.89	5.62	4.20	5.83	4.11
	18			3.69	3.35	4.41	3.79	4.77	3.86	5.05	3.89	5.60	4.19	5.80	4.10
	20			3.69	3.35	4.41	3.79	4.77	3.86	5.04	3.88	5.58	4.19	5.78	4.09
	22			3.68	3.35	4.41	3.79	4.77	3.86	5.02	3.88	5.51	4.16	5.70	4.06
	24			3.68	3.35	4.41	3.79	4.77	3.86	4.99	3.87	5.44	4.14	5.62	4.04
	26			3.68	3.35	4.39	3.78	4.73	3.84	4.93	3.84	5.35	4.11	5.53	4.01
	28	3.33	3.20	3.67	3.34	4.37	3.78	4.68	3.82	4.88	3.82	5.27	4.07	5.44	3.97
	30	3.33	3.20	3.66	3.34	4.33	3.76	4.64	3.81	4.82	3.80	5.19	4.04	5.36	3.95
	32	3.33	3.20	3.65	3.33	4.30	3.75	4.59	3.79	4.76	3.78	5.11	4.02	5.28	3.92
	34	3.33	3.20	3.64	3.33	4.28	3.74	4.53	3.77	4.69	3.75	5.00	3.98	5.17	3.89
	35	3.33	3.20	3.64	3.33	4.28	3.74	4.50	3.74	4.65	3.74	4.95	3.96	5.12	3.87

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	2.90	2.90	2.90	2.90	2.90	
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	
	-3.4	-4	4.45	4.44	4.44	4.39	4.35	
	-1.3	-2	4.60	4.59	4.58	4.49	4.40	
14 (m³/min)	0.8	0	4.85	4.78	4.71	4.54	4.38	
	3.9	3	5.26	5.08	4.89	4.61	4.34	
	7.0	6	5.75	5.38	5.00	4.65	4.30	
	10.1	9	5.71	5.35	4.98	4.62	4.26	
	13.2	12	5.68	5.31	4.95	4.59	4.23	
	16.9	15.5	5.63	5.27	4.91	4.54	4.18	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			3.31	2.93	3.96	3.32	4.28	3.38	4.56	3.43	5.10	3.70	5.30	3.62
	12			3.31	2.93	3.96	3.32	4.28	3.38	4.55	3.42	5.09	3.70	5.28	3.61
	14			3.31	2.93	3.96	3.32	4.28	3.38	4.54	3.42	5.07	3.69	5.25	3.60
	16			3.31	2.93	3.96	3.32	4.28	3.38	4.54	3.42	5.05	3.68	5.23	3.59
	18			3.31	2.93	3.96	3.32	4.28	3.38	4.53	3.41	5.03	3.68	5.21	3.59
	20			3.31	2.93	3.96	3.32	4.28	3.38	4.53	3.41	5.01	3.67	5.18	3.58
	22			3.31	2.93	3.96	3.32	4.28	3.38	4.50	3.40	4.95	3.65	5.11	3.56
	24			3.30	2.93	3.96	3.32	4.28	3.38	4.48	3.40	4.88	3.62	5.04	3.53
	26			3.30	2.93	3.94	3.31	4.24	3.37	4.43	3.38	4.81	3.60	4.97	3.51
	28	2.99	2.87	3.30	2.93	3.92	3.31	4.20	3.35	4.38	3.36	4.73	3.57	4.89	3.48
12 (m³/min)	30	2.99	2.87	3.29	2.92	3.89	3.29	4.16	3.34	4.33	3.36	4.66	3.55	4.82	3.46
	32	2.99	2.87	3.28	2.92	3.86	3.28	4.12	3.32	4.28	3.31	4.59	3.52	4.74	3.44
	34	2.99	2.87	3.27	2.92	3.84	3.27	4.07	3.30	4.21	3.29	4.49	3.48	4.64	3.40
	35	2.99	2.87	3.26	2.91	3.84	3.27	4.04	3.27	4.17	3.27	4.44	3.46	4.60	3.39
	36	2.99	2.87	3.26	2.91	3.81	3.26	4.02	3.28	4.13	3.26	4.34	3.44	4.51	3.36
	38	2.99	2.87	3.25	2.91	3.75	3.24	3.98	3.27	4.05	3.23	4.20	3.38	4.33	3.30
	39	2.99	2.87	3.25	2.91	3.72	3.23	3.96	3.26	4.01	3.21	4.12	3.36	4.24	3.27
	41	2.99	2.87	3.24	2.90	3.61	3.18	3.80	3.20	3.84	3.15	3.94	3.30	4.04	3.21
	43	2.99	2.87	3.23	2.90	3.50	3.14	3.64	3.14	3.68	3.09	3.76	3.24	3.84	3.15

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Cool Mode

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			4.59	3.75	5.49	4.24	5.94	4.33	6.32	4.39	7.07	4.74	7.35	4.62
	12			4.59	3.75	5.49	4.24	5.94	4.33	6.31	4.38	7.05	4.73	7.31	4.61
	14			4.59	3.75	5.49	4.24	5.94	4.33	6.30	4.38	7.02	4.72	7.28	4.60
	16			4.59	3.75	5.49	4.24	5.94	4.33	6.29	4.37	7.00	4.71	7.25	4.59
	18			4.59	3.75	5.49	4.24	5.94	4.33	6.28	4.37	6.97	4.70	7.22	4.58
	20			4.59	3.75	5.49	4.24	5.94	4.33	6.27	4.37	6.95	4.70	7.19	4.56
	22			4.58	3.74	5.49	4.24	5.94	4.33	6.24	4.35	6.86	4.66	7.09	4.53
	24			4.58	3.74	5.48	4.24	5.94	4.33	6.21	4.34	6.77	4.62	6.99	4.49
14 (m³/min)	26			4.57	3.74	5.46	4.23	5.88	4.31	6.14	4.31	6.66	4.58	6.88	4.46
	28	4.14	3.70	4.57	3.74	5.43	4.21	5.82	4.28	6.07	4.29	6.56	4.54	6.78	4.42
	30	4.14	3.70	4.56	3.74	5.39	4.20	5.77	4.26	6.00	4.26	6.46	4.51	6.67	4.39
	32	4.14	3.70	4.55	3.73	5.35	4.18	5.71	4.24	5.93	4.23	6.36	4.47	6.57	4.35
	34	4.14	3.70	4.53	3.72	5.33	4.17	5.64	4.21	5.83	4.19	6.22	4.42	6.44	4.30
	35	4.14	3.70	4.52	3.72	5.32	4.17	5.60	4.20	5.79	4.18	6.16	4.39	6.37	4.28
	36	4.14	3.70	4.52	3.72	5.28	4.15	5.57	4.18	5.73	4.15	6.05	4.35	6.25	4.24
	38	4.14	3.70	4.51	3.71	5.20	4.12	5.52	4.16	5.62	4.11	5.82	4.27	6.00	4.16
	39	4.14	3.70	4.50	3.71	5.16	4.10	5.49	4.15	5.56	4.09	5.71	4.23	5.87	4.12
	41	4.14	3.70	4.49	3.70	5.00	4.04	5.26	4.06	5.33	4.00	5.46	4.15	5.60	4.03
43	4.14	3.70	4.47	3.70	4.85	3.97	5.04	3.97	5.10	3.91	5.21	4.05	5.32	3.94	

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	3.65	3.65	3.65	3.65	3.65	
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	
	-3.4	-4	5.61	5.60	5.59	5.54	5.48	
	-1.3	-2	5.80	5.78	5.76	5.65	5.54	
14 (m³/min)	0.8	0	6.11	6.02	5.94	5.73	5.51	
	3.9	3	6.63	6.39	6.16	5.81	5.47	
	7.0	6	7.25	6.77	6.30	5.86	5.42	
	10.1	9	7.20	6.74	6.28	5.82	5.37	
	13.2	12	7.15	6.69	6.24	5.78	5.32	
	16.9	15.5	7.10	6.64	6.18	5.73	5.27	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			4.59	3.77	5.49	4.26	5.94	4.35	6.32	4.41	7.07	4.76	7.35	4.64
	12			4.59	3.77	5.49	4.26	5.94	4.35	6.31	4.41	7.05	4.75	7.31	4.63
	14			4.59	3.77	5.49	4.26	5.94	4.35	6.30	4.41	7.02	4.74	7.28	4.62
	16			4.59	3.77	5.49	4.26	5.94	4.35	6.29	4.40	7.00	4.73	7.25	4.61
	18			4.59	3.77	5.49	4.26	5.94	4.35	6.28	4.40	6.97	4.72	7.22	4.60
	20			4.59	3.77	5.49	4.26	5.94	4.35	6.27	4.39	6.95	4.71	7.19	4.59
	22			4.58	3.76	5.49	4.26	5.94	4.35	6.24	4.38	6.86	4.68	7.09	4.55
	24			4.58	3.76	5.48	4.26	5.94	4.35	6.21	4.37	6.77	4.65	6.99	4.52
14 (m³/min)	26			4.57	3.76	5.46	4.25	5.88	4.33	6.14	4.34	6.66	4.61	6.88	4.48
	28	4.14	3.71	4.57	3.76	5.43	4.23	5.82	4.30	6.07	4.31	6.56	4.57	6.78	4.45
	30	4.14	3.71	4.56	3.75	5.39	4.22	5.77	4.28	6.00	4.28	6.46	4.53	6.67	4.41
	32	4.14	3.71	4.55	3.75	5.35	4.20	5.71	4.26	5.93	4.25	6.36	4.49	6.57	4.37
	34	4.14	3.71	4.53	3.74	5.33	4.19	5.64	4.23	5.83	4.21	6.22	4.44	6.44	4.33
	35	4.14	3.71	4.52	3.73	5.32	4.19	5.60	4.20	5.79	4.20	6.16	4.42	6.37	4.30
	36	4.14	3.71	4.52	3.73	5.28	4.17	5.57	4.20	5.73	4.17	6.05	4.38	6.25	4.26
	38	4.14	3.71	4.51	3.73	5.20	4.14	5.52	4.18	5.62	4.13	5.82	4.29	6.00	4.18
	39	4.14	3.71	4.50	3.72	5.16	4.12	5.49	4.17	5.56	4.11	5.71	4.26	5.87	4.14
	41	4.14	3.71	4.49	3.72	5.00	4.06	5.26	4.08	5.33	4.02	5.46	4.17	5.60	4.05
43	4.14	3.71	4.47	3.71	4.85	3.99	5.04	3.99	5.10	3.93	5.21	4.08	5.32	3.96	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	3.65	3.65	3.65	3.65	3.65	
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	
	-3.4	-4	5.61	5.60	5.59	5.54	5.48	
	-1.3	-2	5.80	5.78	5.76	5.65	5.54	
14 (m³/min)	0.8	0	6.11	6.02	5.94	5.73	5.51	
	3.9	3	6.63	6.39	6.16	5.81	5.47	
	7.0	6	7.25	6.77	6.30	5.86	5.42	
	10.1	9	7.20	6.74	6.28	5.82	5.37	
	13.2	12	7.15	6.69	6.24	5.78	5.32	
	16.9	15.5	7.10	6.64	6.18	5.73	5.27	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			4.08	3.31	4.88	3.74	5.28	3.83	5.62	3.88	6.29	4.19	6.53	4.08
	12			4.08	3.31	4.88	3.74	5.28	3.83	5.61	3.87	6.27	4.18	6.50	4.07
	14			4.08	3.31	4.88	3.74	5.28	3.83	5.60	3.87	6.25	4.17	6.48	4.06
	16			4.08	3.31	4.88	3.74	5.28	3.83	5.59	3.87	6.22	4.16	6.45	4.05
	18			4.08	3.31	4.88	3.74	5.28	3.83	5.59	3.87	6.20	4.15	6.42	4.04
	20			4.08	3.31	4.88	3.74	5.28	3.83	5.58	3.86	6.18	4.15	6.39	4.03
	22			4.08	3.31	4.88	3.74	5.28	3.83	5.55	3.85	6.10	4.12	6.30	4.00
	24			4.07	3.31	4.88	3.74	5.28	3.83	5.53	3.84	6.02	4.08	6.22	3.97
12 (m³/min)	26			4.07	3.31	4.85	3.73	5.23	3.81	5.46	3.81	5.93	4.05	6.12	3.93
	28	3.69	3.26	4.06	3.30	4.83	3.72	5.18	3.79	5.40	3.79	5.83	4.01	6.03	3.90
	30	3.69	3.26	4.05	3.30	4.79	3.70	5.13	3.76	5.33	3.76	5.74	3.97	5.94	3.87
	32	3.69	3.26	4.04	3.29	4.76	3.69	5.08	3.74	5.27	3.74	5.65	3.94	5.85	3.84
	34	3.69	3.26	4.03	3.29	4.74	3.68	5.01	3.71	5.19	3.70	5.53	3.90	5.72	3.79
	35	3.69	3.26	4.02	3.28	4.73	3.68	4.98	3.69	5.14	3.69	5.47	3.87	5.66	3.77
	36	3.69	3.26	4.02	3.28	4.70	3.67	4.96	3.69	5.10	3.67	5.38	3.84	5.55	3.74
	38	3.69	3.26	4.01	3.28	4.62	3.63	4.91	3.67	5.00	3.63	5.18	3.77	5.33	3.67
	39	3.69	3.26	4.00	3.28	4.59	3.62	4.88	3.66	4.95	3.61	5.08	3.73	5.22	3.63
	41	3.69	3.26	3.99	3.27	4.45	3.56	4.68	3.58	4.74	3.53	4.86	3.65	4.98	3.55
43	3.69	3.26	3.98	3.27	4.31	3.50	4.48	3.50	4.53	3.45	4.63	3.57	4.73	3.47	

Model FDFU71KXE6

Cool Mode

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			5.82	4.76	6.96	5.38	7.53	5.51	8.01	5.57	8.97	6.01	9.31	5.86
	12			5.82	4.76	6.96	5.38	7.53	5.51	8.00	5.57	8.94	6.00	9.27	5.84
	14			5.82	4.76	6.96	5.38	7.53	5.51	7.99	5.57	8.90	5.98	9.23	5.83
	16			5.82	4.76	6.96	5.38	7.53	5.51	7.97	5.56	8.87	5.97	9.19	5.81
	18			5.82	4.76	6.96	5.38	7.53	5.51	7.96	5.55	8.84	5.96	9.15	5.80
	20			5.82	4.76	6.96	5.38	7.53	5.51	7.95	5.55	8.81	5.95	9.11	5.79
	22			5.81	4.76	6.95	5.38	7.53	5.51	7.92	5.54	8.70	5.91	8.99	5.75
	24			5.80	4.75	6.95	5.38	7.53	5.51	7.88	5.52	8.58	5.87	8.86	5.70
	26			5.80	4.75	6.92	5.37	7.46	5.48	7.79	5.49	8.45	5.82	8.73	5.66
	28	5.25	4.69	5.79	4.75	6.89	5.35	7.38	5.45	7.69	5.45	8.31	5.77	8.59	5.62
18 (m³/min)	30	5.25	4.69	5.78	4.75	6.83	5.33	7.31	5.42	7.60	5.41	8.19	5.72	8.46	5.57
	32	5.25	4.69	5.77	4.74	6.78	5.31	7.24	5.38	7.51	5.38	8.06	5.68	8.33	5.53
	34	5.25	4.69	5.75	4.73	6.76	5.30	7.15	5.34	7.39	5.32	7.89	5.62	8.16	5.47
	35	5.25	4.69	5.74	4.73	6.75	5.30	7.10	5.33	7.33	5.30	7.80	5.59	8.08	5.44
	36	5.25	4.69	5.73	4.72	6.69	5.27	7.06	5.31	7.26	5.27	7.66	5.52	7.92	5.39
	38	5.25	4.69	5.72	4.72	6.59	5.23	6.99	5.28	7.12	5.22	7.38	5.43	7.61	5.29
	39	5.25	4.69	5.71	4.71	6.54	5.21	6.96	5.27	7.05	5.19	7.24	5.38	7.45	5.24
	41	5.25	4.69	5.69	4.71	6.35	5.12	6.67	5.15	6.76	5.08	6.92	5.26	7.10	5.11
	43	5.25	4.69	5.67	4.70	6.15	5.04	6.39	5.04	6.46	4.94	6.60	5.15	6.75	5.01

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	4.64	4.64	4.64	4.64	4.64	
	-17.8	-18	4.94	4.94	4.94	4.94	4.94	
	-15.7	-16	5.24	5.24	5.24	5.24	5.24	
	-13.7	-14	5.54	5.54	5.54	5.54	5.54	
	-11.7	-12	5.83	5.83	5.83	5.83	5.83	
	-9.6	-10	6.13	6.13	6.13	6.13	6.13	
	-7.5	-8	6.51	6.51	6.51	6.51	6.51	
	-5.5	-6	6.88	6.88	6.88	6.88	6.88	
	-3.4	-4	7.12	7.11	7.10	7.03	6.96	
	-1.3	-2	7.36	7.34	7.32	7.18	7.04	
18 (m³/min)	0.8	0	7.76	7.65	7.54	7.27	7.00	
	3.9	3	8.42	8.12	7.82	7.38	6.94	
	7.0	6	9.20	8.60	8.00	7.44	6.88	
	10.1	9	9.14	8.56	7.97	7.40	6.82	
	13.2	12	9.08	8.50	7.92	7.34	6.76	
	16.9	15.5	9.01	8.43	7.85	7.27	6.69	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			5.82	4.76	6.96	5.38	7.53	5.51	8.01	5.57	8.97	6.01	9.31	5.86
	12			5.82	4.76	6.96	5.38	7.53	5.51	8.00	5.57	8.94	6.00	9.27	5.84
	14			5.82	4.76	6.96	5.38	7.53	5.51	7.99	5.57	8.90	5.98	9.23	5.83
	16			5.82	4.76	6.96	5.38	7.53	5.51	7.97	5.56	8.87	5.97	9.19	5.81
	18			5.82	4.76	6.96	5.38	7.53	5.51	7.96	5.55	8.84	5.96	9.15	5.80
	20			5.82	4.76	6.96	5.38	7.53	5.51	7.95	5.55	8.81	5.95	9.11	5.79
	22			5.81	4.76	6.95	5.38	7.53	5.51	7.92	5.54	8.70	5.91	8.99	5.75
	24			5.80	4.75	6.95	5.38	7.53	5.51	7.88	5.52	8.58	5.87	8.86	5.70
	26			5.80	4.75	6.92	5.37	7.46	5.48	7.79	5.49	8.45	5.82	8.73	5.66
	28	5.25	4.69	5.79	4.75	6.89	5.35	7.38	5.45	7.69	5.45	8.31	5.77	8.59	5.62
18 (m³/min)	30	5.25	4.69	5.78	4.75	6.83	5.33	7.31	5.42	7.60	5.41	8.19	5.72	8.46	5.57
	32	5.25	4.69	5.77	4.74	6.78	5.31	7.24	5.38	7.51	5.38	8.06	5.68	8.33	5.53
	34	5.25	4.69	5.75	4.73	6.76	5.30	7.15	5.34	7.39	5.32	7.89	5.62	8.16	5.47
	35	5.25	4.69	5.74	4.73	6.75	5.30	7.10	5.33	7.33	5.30	7.80	5.59	8.08	5.44
	36	5.25	4.69	5.73	4.72	6.69	5.27	7.06	5.31	7.26	5.27	7.66	5.52	7.92	5.39
	38	5.25	4.69	5.72	4.72	6.59	5.23	6.99	5.28	7.12	5.22	7.38	5.43	7.61	5.29
	39	5.25	4.69	5.71	4.71	6.54	5.21	6.96	5.27	7.05	5.19	7.24	5.38	7.45	5.24
	41	5.25	4.69	5.69	4.71	6.35	5.12	6.67	5.15	6.76	5.08	6.92	5.26	7.10	5.11
	43	5.25	4.69	5.67	4.70	6.15	5.04	6.39	5.04	6.46	4.94	6.60	5.15	6.75	5.01

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64
	-17.8	-18	4.94	4.94	4.94	4.94	4.94
	-15.7	-16	5.24	5.24	5.24	5.24	5.24
	-13.7	-14	5.54	5.54	5.54	5.54	5.54
	-11.7	-12	5.83	5.83	5.83	5.83	5.83
	-9.6	-10	6.13	6.13	6.13	6.13	6.13
	-7.5	-8	6.51	6.51	6.51	6.51	6.51
	-5.5	-6	6.88	6.88	6.88	6.88	6.88
	-3.4	-4	7.12	7.11	7.10	7.03	6.96
	-1.3	-2	7.36	7.34	7.32	7.18	7.04
18 (m³/min)	0.8	0	7.76	7.65	7.54	7.27	7.00
	3.9	3	8.42	8.12	7.82	7.38	6.94
	7.0	6	9.20	8.60	8.00	7.44	6.88
	10.1	9	9.14	8.56	7.97	7.40	6.82
	13.2	12	9.08	8.50	7.92	7.34	6.76
	16.9	15.5	9.01	8.43	7.85	7.27	6.69

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			5.11	4.14	6.10	4.68	6.60	4.78	7.03	4.85	7.87	5.24	8.17	5.10
	12			5.11	4.14	6.10	4.68	6.60	4.78	7.02	4.85	7.84	5.23	8.14	5.09
	14			5.11	4.14	6.10	4.68	6.60	4.78	7.01	4.84	7.81	5.22	8.10	5.08
	16			5.11	4.14	6.10	4.68	6.60	4.78	7.00	4.84	7.78	5.20	8.07	5.07
	18			5.11	4.14	6.10	4.68	6.60	4.78	6.99	4.83	7.76	5.20	8.03	5.05
	20			5.11	4.14	6.10	4.68	6.60	4.78	6.98	4.83	7.73	5.18	8.00	5.04
	22			5.10	4.14	6.10	4.68	6.60	4.78	6.95	4.82	7.63	5.15	7.89	5.01
	24			5.09	4.13	6.10	4.68	6.60	4.78	6.91	4.80	7.53	5.10	7.78	4.97
15 (m³/min)	26			5.09	4.13	6.07	4.67	6.54	4.76	6.83	4.77	7.41	5.06	7.66	4.92
	28	4.61	4.08	5.08	4.13	6.04	4.65	6.48	4.73	6.75	4.74	7.29	5.01	7.54	4.88
	30	4.61	4.08	5.07	4.13	6.00	4.64	6.42	4.71	6.67	4.70	7.18	4.97	7.43	4.84
	32	4.61	4.08	5.06	4.12	5.95	4.61	6.35	4.68	6.59	4.67	7.07	4.93	7.31	4.80
	34	4.61	4.08	5.04	4.11	5.93	4.61	6.27	4.65	6.49	4.63	6.92	4.87	7.16	4.75
	35	4.61	4.08	5.03	4.11	5.92	4.60	6.23	4.61	6.44	4.61	6.85	4.85	7.09	4.72
	36	4.61	4.08	5.03	4.11	5.87	4.58	6.20	4.62	6.37	4.58	6.73	4.80	6.95	4.68
	38	4.61	4.08	5.02	4.10	5.78	4.54	6.14	4.59	6.25	4.54	6.48	4.71	6.67	4.58
39	4.61	4.08	5.01	4.10	5.74	4.53	6.11	4.58	6.19	4.51	6.36	4.67	6.54	4.54	
41	4.61	4.08	4.99	4.09	5.57	4.45	5.86	4.48	5.93	4.41	6.07	4.57	6.23	4.44	
43	4.61	4.08	4.97	4.08	5.40	4.38	5.61	4.38	5.67	4.31	5.79	4.47	5.92	4.34	

(m) Floor standing-2 way type (FDFW)

Model **FDFW28KXE6**

Cool Mode

Heat Mode

Air flow	Outdoor air temp.	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			2.30	2.19	2.74	2.46	2.97	2.50	3.16	2.53	3.54	2.75	3.67	2.69
	12			2.30	2.19	2.74	2.46	2.97	2.50	3.15	2.52	3.52	2.74	3.66	2.69
	14			2.30	2.19	2.74	2.46	2.97	2.50	3.15	2.52	3.51	2.74	3.64	2.68
	16			2.30	2.19	2.74	2.46	2.97	2.50	3.14	2.52	3.50	2.74	3.63	2.68
	18			2.30	2.19	2.74	2.46	2.97	2.50	3.14	2.52	3.49	2.73	3.61	2.67
	20			2.30	2.19	2.74	2.46	2.97	2.50	3.14	2.52	3.47	2.73	3.59	2.67
	22			2.29	2.19	2.74	2.46	2.97	2.50	3.12	2.51	3.43	2.71	3.54	2.65
10 (m³/min)	24			2.29	2.19	2.74	2.46	2.97	2.50	3.11	2.51	3.39	2.70	3.50	2.63
	26			2.29	2.19	2.73	2.46	2.94	2.49	3.07	2.49	3.33	2.68	3.44	2.62
	28	2.07	1.99	2.28	2.18	2.72	2.46	2.91	2.48	3.03	2.48	3.28	2.66	3.39	2.60
	30	2.07	1.99	2.28	2.18	2.70	2.45	2.88	2.47	3.00	2.47	3.23	2.64	3.34	2.59
	32	2.07	1.99	2.27	2.18	2.67	2.44	2.86	2.46	2.96	2.46	3.18	2.63	3.29	2.57
	34	2.07	1.99	2.27	2.18	2.66	2.43	2.82	2.45	2.92	2.44	3.11	2.61	3.22	2.55
	35	2.07	1.99	2.26	2.17	2.66	2.43	2.80	2.44	2.89	2.43	3.08	2.59	3.18	2.53
	36	2.07	1.99	2.26	2.17	2.64	2.43	2.79	2.44	2.86	2.42	3.02	2.57	3.12	2.52
	38	2.07	1.99	2.25	2.16	2.60	2.41	2.76	2.43	2.81	2.40	2.91	2.54	3.00	2.46
39	2.07	1.99	2.25	2.16	2.58	2.40	2.74	2.42	2.78	2.39	2.86	2.52	2.94	2.44	
41	2.07	1.99	2.24	2.15	2.50	2.37	2.63	2.38	2.66	2.35	2.73	2.46	2.80	2.40	
43	2.07	1.99	2.24	2.15	2.43	2.33	2.52	2.34	2.55	2.31	2.60	2.42	2.66	2.36	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Uhi	-19.8	-20	1.86	1.86	1.86	1.86	1.86	
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	
10 (m³/min)	0.8	0	3.10	3.06	3.02	2.91	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	

Air flow	Outdoor air temp. ("CDB")	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			2.30	2.07	2.74	2.33	2.97	2.38	3.16	2.41	3.54	2.60	3.67	2.54
	12			2.30	2.07	2.74	2.33	2.97	2.38	3.15	2.40	3.52	2.60	3.66	2.54
	14			2.30	2.07	2.74	2.33	2.97	2.38	3.15	2.40	3.51	2.59	3.64	2.53
	16			2.30	2.07	2.74	2.33	2.97	2.38	3.14	2.40	3.50	2.59	3.63	2.53
	18			2.30	2.07	2.74	2.33	2.97	2.38	3.14	2.40	3.49	2.58	3.61	2.52
	20			2.30	2.07	2.74	2.33	2.97	2.38	3.14	2.40	3.47	2.58	3.59	2.51
9 (m³/min)	22			2.29	2.07	2.74	2.33	2.97	2.38	3.12	2.39	3.43	2.56	3.54	2.50
	24			2.29	2.07	2.74	2.33	2.97	2.38	3.11	2.38	3.39	2.55	3.50	2.49
	26			2.29	2.07	2.73	2.33	2.94	2.37	3.07	2.37	3.33	2.53	3.44	2.46
	28	2.07	1.99	2.28	2.06	2.72	2.31	2.91	2.36	3.03	2.35	3.28	2.51	3.39	2.45
	30	2.07	1.99	2.28	2.06	2.70	2.31	2.88	2.34	3.00	2.34	3.23	2.49	3.34	2.43
	32	2.07	1.99	2.27	2.06	2.67	2.30	2.86	2.34	2.96	2.33	3.18	2.47	3.29	2.42
	34	2.07	1.99	2.27	2.06	2.66	2.29	2.82	2.32	2.92	2.31	3.11	2.45	3.22	2.40
	35	2.07	1.99	2.26	2.05	2.66	2.29	2.80	2.32	2.89	2.29	3.08	2.44	3.18	2.38
	36	2.07	1.99	2.26	2.05	2.64	2.28	2.79	2.30	2.86	2.28	3.02	2.42	3.12	2.36
38	2.07	1.99	2.25	2.05	2.60	2.27	2.76	2.29	2.81	2.26	2.91	2.38	3.00	2.33	
39	2.07	1.99	2.25	2.05	2.58	2.26	2.74	2.28	2.78	2.25	2.86	2.36	2.94	2.31	
41	2.07	1.99	2.24	2.05	2.50	2.23	2.63	2.24	2.66	2.21	2.73	2.32	2.80	2.26	
43	2.07	1.99	2.24	2.05	2.43	2.20	2.52	2.20	2.55	2.17	2.60	2.28	2.66	2.20	

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi	-19.8	-20	1.86	1.86	1.86	1.86	1.86	
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	
	-3.4	-4	2.85	2.84	2.84	2.81	2.78	
	-1.3	-2	2.94	2.94	2.93	2.87	2.82	
9 (m³/min)	0.8	0	3.10	3.06	3.02	2.91	2.80	
	3.9	3	3.37	3.25	3.13	2.95	2.78	
	7.0	6	3.68	3.44	3.20	2.98	2.75	
	10.1	9	3.66	3.42	3.19	2.96	2.73	
	13.2	12	3.63	3.40	3.17	2.94	2.70	
	16.9	15.5	3.60	3.37	3.14	2.91	2.68	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			2.12	1.88	2.54	2.13	2.75	2.17	2.92	2.19	3.27	2.37	3.40	2.32
	12			2.12	1.88	2.54	2.13	2.75	2.17	2.92	2.19	3.26	2.37	3.38	2.31
	14			2.12	1.88	2.54	2.13	2.75	2.17	2.91	2.18	3.25	2.36	3.37	2.31
	16			2.12	1.88	2.54	2.13	2.75	2.17	2.91	2.18	3.24	2.36	3.35	2.30
	18			2.12	1.88	2.54	2.13	2.75	2.17	2.91	2.18	3.22	2.35	3.34	2.30
	20			2.12	1.88	2.54	2.13	2.75	2.17	2.90	2.18	3.21	2.35	3.32	2.29
8 (m³/min)	22			2.12	1.88	2.54	2.13	2.75	2.17	2.89	2.18	3.17	2.34	3.28	2.28
	24			2.12	1.88	2.54	2.13	2.75	2.17	2.87	2.17	3.13	2.32	3.23	2.26
	26			2.12	1.88	2.52	2.12	2.72	2.16	2.84	2.16	3.08	2.30	3.18	2.24
	28	1.92	1.84	2.11	1.88	2.51	2.12	2.69	2.14	2.81	2.15	3.03	2.28	3.13	2.23
	30	1.92	1.84	2.11	1.88	2.49	2.11	2.67	2.14	2.77	2.13	2.99	2.27	3.09	2.22
	32	1.92	1.84	2.10	1.88	2.47	2.10	2.64	2.12	2.74	2.12	2.94	2.25	3.04	2.20
	34	1.92	1.84	2.10	1.88	2.46	2.10	2.61	2.11	2.70	2.11	2.88	2.23	2.98	2.18
	35	1.92	1.84	2.09	1.87	2.46	2.10	2.59	2.10	2.68	2.10	2.85	2.22	2.95	2.17
	36	1.92	1.84	2.09	1.87	2.44	2.09	2.58	2.10	2.65	2.09	2.80	2.20	2.89	2.15
38	1.92	1.84	2.08	1.86	2.40	2.07	2.55	2.09	2.60	2.07	2.69	2.17	2.77	2.10	
39	1.92	1.84	2.08	1.86	2.39	2.07	2.54	2.09	2.57	2.06	2.64	2.14	2.72	2.08	
41	1.92	1.84	2.08	1.86	2.31	2.03	2.43	2.04	2.46	2.02	2.53	2.10	2.59	2.05	
43	1.92	1.84	2.07	1.86	2.24	2.01	2.33	2.01	2.36	1.98	2.41	2.06	2.46	2.01	

Model FDFW45KXE6

Cool Mode

Air flow	Outdoor air temp.	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi 10 (m/min)	10			3.69	2.79	4.41	3.16	4.77	3.25	5.07	3.30	5.68	3.55	5.90	3.46
	12			3.69	2.79	4.41	3.16	4.77	3.25	5.07	3.30	5.66	3.54	5.88	3.45
	14			3.69	2.79	4.41	3.16	4.77	3.25	5.06	3.30	5.64	3.54	5.85	3.44
	16			3.69	2.79	4.41	3.16	4.77	3.25	5.05	3.29	5.62	3.53	5.83	3.43
	18			3.69	2.79	4.41	3.16	4.77	3.25	5.05	3.29	5.60	3.52	5.80	3.42
	20			3.69	2.79	4.41	3.16	4.77	3.25	5.04	3.29	5.58	3.51	5.78	3.41
	22			3.68	2.79	4.41	3.16	4.77	3.25	5.02	3.28	5.51	3.49	5.70	3.38
	24			3.68	2.79	4.41	3.16	4.77	3.25	4.99	3.26	5.44	3.46	5.62	3.35
	26			3.68	2.79	4.39	3.16	4.73	3.23	4.93	3.24	5.35	3.42	5.53	3.32
	28	3.33	2.74	3.67	2.78	4.37	3.15	4.68	3.21	4.88	3.22	5.27	3.39	5.44	3.29
	30	3.33	2.74	3.66	2.78	4.33	3.13	4.64	3.19	4.82	3.19	5.19	3.36	5.36	3.26
	32	3.33	2.74	3.65	2.78	4.30	3.11	4.59	3.17	4.76	3.16	5.11	3.32	5.28	3.22
	34	3.33	2.74	3.64	2.77	4.28	3.11	4.53	3.14	4.69	3.14	5.00	3.28	5.17	3.19
	35	3.33	2.74	3.64	2.77	4.28	3.11	4.50	3.24	4.65	3.12	4.95	3.26	5.12	3.17
	36	3.33	2.74	3.63	2.77	4.24	3.09	4.48	3.12	4.60	3.10	4.86	3.22	5.02	3.13
	38	3.33	2.74	3.62	2.76	4.18	3.06	4.43	3.10	4.52	3.07	4.68	3.15	4.82	3.05
	39	3.33	2.74	3.62	2.76	4.15	3.04	4.41	3.09	4.47	3.04	4.59	3.12	4.72	3.02
	41	3.33	2.74	3.61	2.76	4.02	2.99	4.23	3.01	4.28	2.96	4.39	3.04	4.50	2.95
	43	3.33	2.74	3.59	2.75	3.90	2.94	4.05	2.94	4.09	2.89	4.18	2.97	4.28	2.87

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi 10 (m/min)	-19.8	-20	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.27	3.27	3.27	3.27	3.27
	-13.7	-14	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65
	-9.6	-10	3.83	3.83	3.83	3.83	3.83
	-7.5	-8	4.07	4.07	4.07	4.07	4.07
	-5.5	-6	4.30	4.30	4.30	4.30	4.30
	-3.4	-4	4.45	4.44	4.44	4.39	4.35
	-1.3	-2	4.60	4.59	4.58	4.49	4.40
	0.8	0	4.85	4.78	4.71	4.54	4.38
	3.9	3	5.26	5.08	4.89	4.61	4.34
	7.0	6	5.75	5.38	5.00	4.65	4.30
	10.1	9	5.71	5.35	4.98	4.62	4.26
	13.2	12	5.68	5.31	4.95	4.59	4.23
16.9	15.5	5.63	5.27	4.91	4.54	4.18	

Air flow	Outdoor air temp. ("CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
9.00 (m³/min)	10			3.69	2.70	4.41	3.06	4.77	3.15	5.07	3.21	5.68	3.46	5.90	3.35
	12			3.69	2.70	4.41	3.06	4.77	3.15	5.07	3.21	5.66	3.45	5.88	3.34
	14			3.69	2.70	4.41	3.06	4.77	3.15	5.06	3.20	5.64	3.44	5.85	3.33
	16			3.69	2.70	4.41	3.06	4.77	3.15	5.05	3.20	5.62	3.43	5.83	3.32
	18			3.69	2.70	4.41	3.06	4.77	3.15	5.05	3.20	5.60	3.42	5.80	3.31
	20			3.69	2.70	4.41	3.06	4.77	3.15	5.04	3.19	5.58	3.40	5.78	3.30
	22			3.68	2.69	4.41	3.06	4.77	3.15	5.02	3.19	5.51	3.38	5.70	3.28
	24			3.68	2.69	4.41	3.06	4.77	3.15	4.99	3.17	5.44	3.35	5.62	3.24
	26			3.68	2.69	4.39	3.06	4.73	3.14	4.93	3.14	5.35	3.31	5.53	3.21
	28	3.33	2.65	3.67	2.69	4.37	3.05	4.68	3.11	4.88	3.12	5.27	3.28	5.44	3.18
	30	3.33	2.65	3.66	2.68	4.33	3.03	4.64	3.09	4.82	3.09	5.19	3.24	5.36	3.14
	32	3.33	2.65	3.65	2.68	4.30	3.01	4.59	3.07	4.76	3.07	5.11	3.21	5.28	3.12
	34	3.33	2.65	3.64	2.68	4.28	3.00	4.53	3.04	4.69	3.04	5.00	3.16	5.17	3.07
	35	3.33	2.65	3.64	2.68	4.28	3.00	4.50	3.15	4.65	3.02	4.95	3.15	5.12	3.05
	36	3.33	2.65	3.63	2.67	4.24	2.98	4.48	3.02	4.60	3.00	4.86	3.11	5.02	3.01
	38	3.33	2.65	3.62	2.67	4.18	2.95	4.43	3.00	4.52	2.96	4.68	3.04	4.82	2.94
	39	3.33	2.65	3.62	2.67	4.15	2.94	4.41	2.99	4.47	2.93	4.59	3.00	4.72	2.89
	41	3.33	2.65	3.61	2.66	4.02	2.88	4.23	2.90	4.28	2.86	4.39	2.91	4.50	2.82
	43	3.33	2.65	3.59	2.65	3.90	2.83	4.05	2.83	4.09	2.78	4.18	2.84	4.28	2.75

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi 9.00 (m³/min)	-19.8	-20	2.90	2.90	2.90	2.90	2.90	
	-17.8	-18	3.09	3.09	3.09	3.09	3.09	
	-15.7	-16	3.27	3.27	3.27	3.27	3.27	
	-13.7	-14	3.46	3.46	3.46	3.46	3.46	
	-11.7	-12	3.65	3.65	3.65	3.65	3.65	
	-9.6	-10	3.83	3.83	3.83	3.83	3.83	
	-7.5	-8	4.07	4.07	4.07	4.07	4.07	
	-5.5	-6	4.30	4.30	4.30	4.30	4.30	
	-3.4	-4	4.45	4.44	4.44	4.39	4.35	
	-1.3	-2	4.60	4.59	4.58	4.49	4.40	
	0.8	0	4.85	4.78	4.71	4.54	4.38	
	3.9	3	5.26	5.08	4.89	4.61	4.34	
	7.0	6	5.75	5.38	5.00	4.65	4.30	
	10.1	9	5.71	5.35	4.98	4.62	4.26	
	13.2	12	5.68	5.31	4.95	4.59	4.23	
16.9	15.5	5.63	5.27	4.91	4.54	4.18		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
8 (m³/min)	10			3.35	2.43	4.01	2.77	4.34	2.85	4.61	2.90	5.17	3.12	5.36	3.03
	12			3.35	2.43	4.01	2.77	4.34	2.85	4.61	2.90	5.15	3.12	5.34	3.02
	14			3.35	2.43	4.01	2.77	4.34	2.85	4.60	2.89	5.13	3.11	5.32	3.01
	16			3.35	2.43	4.01	2.77	4.34	2.85	4.59	2.89	5.11	3.10	5.30	3.01
	18			3.35	2.43	4.01	2.77	4.34	2.85	4.59	2.89	5.09	3.09	5.27	2.99
	20			3.35	2.43	4.01	2.77	4.34	2.85	4.58	2.88	5.07	3.08	5.25	2.98
	22			3.35	2.43	4.01	2.77	4.34	2.85	4.56	2.88	5.01	3.06	5.18	2.95
	24			3.34	2.43	4.00	2.76	4.34	2.85	4.54	2.87	4.95	3.02	5.11	2.93
	26			3.34	2.43	3.99	2.76	4.29	2.83	4.49	2.84	4.87	2.99	5.03	2.90
	28	3.03	2.39	3.34	2.43	3.97	2.75	4.25	2.81	4.43	2.81	4.79	2.96	4.95	2.87
	30	3.03	2.39	3.33	2.42	3.94	2.73	4.21	2.79	4.38	2.79	4.72	2.93	4.87	2.83
	32	3.03	2.39	3.32	2.42	3.91	2.72	4.17	2.77	4.33	2.77	4.64	2.89	4.80	2.81
	34	3.03	2.39	3.31	2.42	3.89	2.71	4.12	2.75	4.26	2.74	4.54	2.85	4.70	2.77
	35	3.03	2.39	3.30	2.41	3.89	2.71	4.09	2.78	4.23	2.72	4.50	2.84	4.65	2.75
	36	3.03	2.39	3.30	2.41	3.86	2.69	4.07	2.73	4.18	2.70	4.42	2.80	4.56	2.72
	38	3.03	2.39	3.29	2.41	3.80	2.67	4.03	2.71	4.10	2.67	4.25	2.74	4.38	2.65
	39	3.03	2.39	3.29	2.41	3.77	2.65	4.01	2.70	4.06	2.65	4.17	2.70	4.29	2.62
41	3.03	2.39	3.28	2.40	3.66	2.60	3.84	2.61	3.89	2.57	3.99	2.63	4.09	2.54	
43	3.03	2.39	3.27	2.39	3.54	2.55	3.68	2.55	3.72	2.51	3.80	2.55	3.89	2.47	

Model **FDFW56KXE6**

Cool Mode

Heat Mode

		Indoor air temperature													
Air flow	Outdoor air temp.	21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi	10			4.59	3.43	5.49	3.89	5.94	4.00	6.32	4.07	7.07	4.38	7.35	4.24
	12			4.59	3.43	5.49	3.89	5.94	4.00	6.31	4.06	7.05	4.37	7.31	4.23
	14			4.59	3.43	5.49	3.89	5.94	4.00	6.30	4.05	7.02	4.36	7.28	4.22
	16			4.59	3.43	5.49	3.89	5.94	4.00	6.29	4.05	7.00	4.34	7.25	4.21
	18			4.59	3.43	5.49	3.89	5.94	4.00	6.28	4.04	6.97	4.33	7.22	4.20
	20			4.59	3.43	5.49	3.89	5.94	4.00	6.27	4.04	6.95	4.31	7.19	4.19
	22			4.58	3.42	5.49	3.89	5.94	4.00	6.24	4.03	6.86	4.28	7.09	4.15
	24			4.58	3.42	5.48	3.88	5.94	4.00	6.21	4.02	6.77	4.25	6.99	4.12
	26			4.57	3.42	5.46	3.87	5.88	3.97	6.14	3.98	6.66	4.20	6.88	4.08
12 (m/min)	28	4.14	3.37	4.57	3.42	5.43	3.86	5.82	3.94	6.07	3.95	6.56	4.16	6.78	4.04
	30	4.14	3.37	4.56	3.41	5.39	3.84	5.77	3.92	6.00	3.92	6.46	4.12	6.67	3.99
	32	4.14	3.37	4.55	3.41	5.35	3.83	5.71	3.89	5.93	3.89	6.36	4.08	6.57	3.96
	34	4.14	3.37	4.53	3.40	5.33	3.82	5.64	3.86	5.83	3.85	6.22	4.03	6.44	3.91
	35	4.14	3.37	4.52	3.40	5.32	3.81	5.60	3.98	5.79	3.83	6.16	4.00	6.37	3.89
	36	4.14	3.37	4.52	3.40	5.28	3.79	5.57	3.83	5.73	3.80	6.05	3.96	6.25	3.84
	38	4.14	3.37	4.51	3.39	5.20	3.76	5.52	3.81	5.62	3.76	5.82	3.86	6.00	3.75
	39	4.14	3.37	4.50	3.39	5.16	3.74	5.49	3.80	5.56	3.73	5.71	3.83	5.87	3.71
	41	4.14	3.37	4.49	3.38	5.00	3.66	5.26	3.69	5.33	3.62	5.46	3.71	5.60	3.60
43	4.14	3.37	4.47	3.37	4.85	3.60	5.04	3.59	5.10	3.54	5.21	3.63	5.32	3.51	

Air flow	Outdoor air temp.		Indoor air temp.				
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Uhi 12 (m³/min)	-19.8	-20	3.65	3.65	3.65	3.65	3.65
	-17.8	-18	3.89	3.89	3.89	3.89	3.89
	-15.7	-16	4.12	4.12	4.12	4.12	4.12
	-13.7	-14	4.36	4.36	4.36	4.36	4.36
	-11.7	-12	4.59	4.59	4.59	4.59	4.59
	-9.6	-10	4.83	4.83	4.83	4.83	4.83
	-7.5	-8	5.12	5.12	5.12	5.12	5.12
	-5.5	-6	5.42	5.42	5.42	5.42	5.42
	-3.4	-4	5.61	5.60	5.59	5.54	5.48
	-1.3	-2	5.80	5.78	5.76	5.65	5.54
	0.8	0	6.11	6.02	5.94	5.73	5.51
	3.9	3	6.63	6.39	6.16	5.81	5.47
	7.0	6	7.25	6.77	6.30	5.86	5.42
	10.1	9	7.20	6.74	6.28	5.82	5.37
	13.2	12	7.15	6.69	6.24	5.78	5.32
16.9	15.5	7.10	6.64	6.18	5.73	5.27	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
11 (m/min)	10			4.59	3.34	5.49	3.80	5.94	3.91	6.32	3.98	7.07	4.28	7.35	4.16
	12			4.59	3.34	5.49	3.80	5.94	3.91	6.31	3.97	7.05	4.27	7.31	4.14
	14			4.59	3.34	5.49	3.80	5.94	3.91	6.30	3.97	7.02	4.26	7.28	4.13
	16			4.59	3.34	5.49	3.80	5.94	3.91	6.29	3.96	7.00	4.25	7.25	4.11
	18			4.59	3.34	5.49	3.80	5.94	3.91	6.28	3.96	6.97	4.23	7.22	4.09
	20			4.59	3.34	5.49	3.80	5.94	3.91	6.27	3.95	6.95	4.23	7.19	4.08
	22			4.58	3.33	5.48	3.80	5.94	3.91	6.24	3.94	6.86	4.19	7.09	4.05
	24			4.58	3.33	5.48	3.79	5.94	3.91	6.21	3.92	6.77	4.14	6.99	4.01
	26			4.57	3.33	5.46	3.78	5.88	3.88	6.14	3.89	6.66	4.10	6.88	3.97
	28	4.14	3.27	4.57	3.33	5.43	3.76	5.82	3.85	6.07	3.86	6.56	4.06	6.78	3.93
	30	4.14	3.27	4.56	3.33	5.39	3.75	5.77	3.83	6.00	3.83	6.46	4.02	6.67	3.89
	32	4.14	3.27	4.55	3.32	5.35	3.73	5.71	3.80	5.93	3.80	6.36	3.97	6.57	3.85
	34	4.14	3.27	4.53	3.31	5.33	3.72	5.64	3.77	5.83	3.75	6.22	3.91	6.44	3.80
	35	4.14	3.27	4.52	3.31	5.32	3.72	5.60	3.75	5.79	3.74	6.16	3.89	6.37	3.77
	36	4.14	3.27	4.52	3.31	5.28	3.69	5.57	3.73	5.73	3.71	6.05	3.84	6.25	3.73
	38	4.14	3.27	4.51	3.30	5.20	3.65	5.52	3.71	5.62	3.66	5.82	3.75	6.00	3.64
	39	4.14	3.27	4.50	3.29	5.16	3.63	5.49	3.70	5.56	3.64	5.71	3.71	5.87	3.59
	41	4.14	3.27	4.49	3.29	5.00	3.56	5.26	3.59	5.33	3.53	5.46	3.60	5.60	3.48
	43	4.14	3.27	4.47	3.28	4.85	3.49	5.04	3.50	5.10	3.44	5.21	3.51	5.32	3.39

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB	
Hi 11 (m³/min)	-19.8	-20	3.65	3.65	3.65	3.65	3.65	
	-17.8	-18	3.89	3.89	3.89	3.89	3.89	
	-15.7	-16	4.12	4.12	4.12	4.12	4.12	
	-13.7	-14	4.36	4.36	4.36	4.36	4.36	
	-11.7	-12	4.59	4.59	4.59	4.59	4.59	
	-9.6	-10	4.83	4.83	4.83	4.83	4.83	
	-7.5	-8	5.12	5.12	5.12	5.12	5.12	
	-5.5	-6	5.42	5.42	5.42	5.42	5.42	
	-3.4	-4	5.61	5.60	5.59	5.54	5.48	
	-1.3	-2	5.80	5.78	5.76	5.65	5.54	
	0.8	0	6.11	6.02	5.94	5.73	5.51	
	3.9	3	6.63	6.39	6.16	5.81	5.47	
	7.0	6	7.25	6.77	6.30	5.86	5.42	
	10.1	9	7.20	6.74	6.28	5.82	5.37	
	13.2	12	7.15	6.69	6.24	5.78	5.32	
16.9	15.5	7.10	6.64	6.18	5.73	5.27		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21 °CDB 14 °CWB		23 °CDB 16 °CWB		26 °CDB 18 °CWB		27 °CDB 19 °CWB		28 °CDB 20 °CWB		31 °CDB 22 °CWB		33 °CDB 24 °CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me 9 (m/min)	10			3.90	2.80	4.66	3.18	5.05	3.29	5.37	3.34	6.01	3.60	6.24	3.50
	12			3.90	2.80	4.66	3.18	5.05	3.29	5.36	3.34	5.99	3.59	6.22	3.48
	14			3.90	2.80	4.66	3.18	5.05	3.29	5.35	3.34	5.97	3.58	6.19	3.47
	16			3.90	2.80	4.66	3.18	5.05	3.29	5.35	3.34	5.95	3.58	6.16	3.46
	18			3.90	2.80	4.66	3.18	5.05	3.29	5.34	3.33	5.93	3.57	6.14	3.45
	20			3.90	2.80	4.66	3.18	5.05	3.29	5.33	3.33	5.90	3.55	6.11	3.44
	22			3.90	2.80	4.66	3.18	5.05	3.29	5.31	3.32	5.83	3.52	6.03	3.41
	24			3.89	2.80	4.66	3.18	5.05	3.29	5.28	3.30	5.76	3.49	5.94	3.37
	26			3.89	2.80	4.64	3.17	5.00	3.26	5.22	3.28	5.66	3.45	5.85	3.33
	28	3.52	2.74	3.88	2.79	4.62	3.17	4.95	3.24	5.16	3.25	5.57	3.40	5.76	3.30
	30	3.52	2.74	3.87	2.79	4.58	3.15	4.90	3.22	5.10	3.22	5.49	3.37	5.67	3.26
	32	3.52	2.74	3.87	2.79	4.55	3.13	4.86	3.20	5.04	3.19	5.40	3.33	5.59	3.23
	34	3.52	2.74	3.85	2.78	4.53	3.12	4.79	3.16	4.96	3.16	5.29	3.29	5.47	3.19
	35	3.52	2.74	3.85	2.78	4.52	3.12	4.76	3.24	4.92	3.14	5.23	3.26	5.41	3.16
	36	3.52	2.74	3.84	2.77	4.49	3.10	4.74	3.14	4.87	3.11	5.14	3.23	5.31	3.13
	38	3.52	2.74	3.83	2.77	4.42	3.07	4.69	3.12	4.78	3.08	4.95	3.15	5.10	3.04
	39	3.52	2.74	3.83	2.77	4.39	3.06	4.66	3.10	4.73	3.05	4.86	3.11	4.99	3.00
41	3.52	2.74	3.81	2.76	4.25	2.98	4.47	3.02	4.53	2.96	4.64	3.02	4.76	2.92	
43	3.52	2.74	3.80	2.75	4.12	2.93	4.28	2.92	4.33	2.88	4.43	2.93	4.53	2.83	

(n) Duct connected-compact and flexible type (FDUH)

Model **FDUH22KXE6**

Cool Mode

Air flow	Outdoor air temp.	Indoor air temperature												31°CDB		33°CDB	
		21°CDB		23°CDB		26°CDB		27°CDB		28°CDB		22°CDB		24°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi 7 (m³/min)	10			1.80	1.49	2.16	1.69	2.33	1.72	2.48	1.75	2.78	1.88	2.89	1.84		
	12			1.80	1.49	2.16	1.69	2.33	1.72	2.48	1.75	2.77	1.88	2.87	1.83		
	14			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.74	2.76	1.88	2.86	1.83		
	16			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.74	2.75	1.87	2.85	1.82		
	18			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.74	2.74	1.87	2.84	1.82		
	20			1.80	1.49	2.16	1.69	2.33	1.72	2.46	1.74	2.73	1.86	2.82	1.82		
	22			1.80	1.49	2.15	1.68	2.33	1.72	2.45	1.73	2.69	1.85	2.78	1.80		
	24			1.80	1.49	2.15	1.68	2.33	1.72	2.44	1.73	2.66	1.84	2.75	1.79		
	26			1.80	1.49	2.14	1.68	2.31	1.71	2.41	1.72	2.62	1.82	2.70	1.77		
	28	1.63	1.47	1.80	1.49	2.13	1.67	2.29	1.70	2.38	1.71	2.58	1.81	2.66	1.76		
	30	1.63	1.47	1.79	1.48	2.12	1.67	2.27	1.70	2.36	1.69	2.54	1.79	2.62	1.75		
	32	1.63	1.47	1.79	1.48	2.10	1.66	2.24	1.68	2.33	1.69	2.50	1.78	2.58	1.72		
	34	1.63	1.47	1.78	1.48	2.09	1.65	2.21	1.67	2.29	1.67	2.44	1.75	2.53	1.71		
	35	1.63	1.47	1.78	1.48	2.09	1.65	2.20	1.67	2.27	1.66	2.42	1.74	2.50	1.70		
	36	1.63	1.47	1.78	1.48	2.07	1.64	2.19	1.66	2.25	1.65	2.37	1.73	2.45	1.69		
	38	1.63	1.47	1.77	1.48	2.04	1.63	2.17	1.66	2.21	1.63	2.29	1.70	2.36	1.66		
	39	1.63	1.47	1.77	1.48	2.03	1.63	2.16	1.65	2.19	1.62	2.24	1.68	2.31	1.64		
	41	1.63	1.47	1.76	1.47	1.97	1.61	2.07	1.61	2.09	1.59	2.14	1.65	2.20	1.61		
	43	1.63	1.47	1.76	1.47	1.91	1.58	1.98	1.58	2.00	1.55	2.05	1.62	2.09	1.57		

Heat Mode

Air flow	Outdoor air temp.		Indoor air temp.					
	DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Uhi 7 (m³/min)	-19.8	-20	1.45	1.45	1.45	1.45	1.45	
	-17.8	-18	1.54	1.54	1.54	1.54	1.54	
	-15.7	-16	1.64	1.64	1.64	1.64	1.64	
	-13.7	-14	1.73	1.73	1.73	1.73	1.73	
	-11.7	-12	1.82	1.82	1.82	1.82	1.82	
	-9.6	-10	1.92	1.92	1.92	1.92	1.92	
	-7.5	-8	2.03	2.03	2.03	2.03	2.03	
	-5.5	-6	2.15	2.15	2.15	2.15	2.15	
	-3.4	-4	2.23	2.22	2.22	2.20	2.18	
	-1.3	-2	2.30	2.29	2.29	2.24	2.20	
	0.8	0	2.43	2.39	2.36	2.27	2.19	
	3.9	3	2.63	2.54	2.44	2.31	2.17	
	7.0	6	2.88	2.69	2.50	2.33	2.15	
	10.1	9	2.86	2.67	2.49	2.31	2.13	
	13.2	12	2.84	2.66	2.48	2.29	2.11	
	16.9	15.5	2.82	2.63	2.45	2.27	2.09	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature												31°CDB		33°CDB	
		21°CDB		23°CDB		26°CDB		27°CDB		28°CDB		22°CWB		24°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 7 (m³/min)	10			1.80	1.49	2.16	1.69	2.33	1.72	2.48	1.75	2.78	1.88	2.89	1.84		
	12			1.80	1.49	2.16	1.69	2.33	1.72	2.48	1.75	2.77	1.88	2.87	1.83		
	14			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.74	2.76	1.88	2.86	1.83		
	16			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.74	2.75	1.87	2.85	1.82		
	18			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.74	2.74	1.87	2.84	1.82		
	20			1.80	1.49	2.16	1.69	2.33	1.72	2.46	1.74	2.73	1.86	2.82	1.82		
	22			1.80	1.49	2.15	1.68	2.33	1.72	2.45	1.73	2.69	1.85	2.78	1.80		
	24			1.80	1.49	2.15	1.68	2.33	1.72	2.44	1.73	2.66	1.84	2.75	1.79		
	26			1.80	1.49	2.14	1.68	2.31	1.71	2.41	1.72	2.62	1.82	2.70	1.77		
	28	1.63	1.47	1.80	1.49	2.13	1.67	2.29	1.70	2.38	1.71	2.58	1.81	2.66	1.76		
	30	1.63	1.47	1.79	1.48	2.12	1.67	2.27	1.70	2.36	1.69	2.54	1.79	2.62	1.75		
	32	1.63	1.47	1.79	1.48	2.10	1.66	2.24	1.68	2.33	1.69	2.50	1.78	2.58	1.72		
	34	1.63	1.47	1.78	1.48	2.09	1.65	2.21	1.67	2.29	1.67	2.44	1.75	2.53	1.71		
	35	1.63	1.47	1.78	1.48	2.09	1.65	2.20	1.67	2.27	1.66	2.42	1.74	2.50	1.70		
	36	1.63	1.47	1.78	1.48	2.07	1.64	2.19	1.66	2.25	1.65	2.37	1.73	2.45	1.69		
	38	1.63	1.47	1.77	1.48	2.04	1.63	2.17	1.66	2.21	1.63	2.29	1.70	2.36	1.66		
	39	1.63	1.47	1.77	1.48	2.03	1.63	2.16	1.65	2.19	1.62	2.24	1.68	2.31	1.64		
	41	1.63	1.47	1.76	1.47	1.97	1.61	2.07	1.61	2.09	1.59	2.14	1.65	2.20	1.61		
	43	1.63	1.47	1.76	1.47	1.91	1.58	1.98	1.58	2.00	1.55	2.05	1.62	2.09	1.57		

Air flow		Outdoor air temp.		Indoor air temp.				
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
Hi 7 (m³/min)	-19.8	-20	1.45	1.45	1.45	1.45	1.45	
	-17.8	-18	1.54	1.54	1.54	1.54	1.54	
	-15.7	-16	1.64	1.64	1.64	1.64	1.64	
	-13.7	-14	1.73	1.73	1.73	1.73	1.73	
	-11.7	-12	1.82	1.82	1.82	1.82	1.82	
	-9.6	-10	1.92	1.92	1.92	1.92	1.92	
	-7.5	-8	2.03	2.03	2.03	2.03	2.03	
	-5.5	-6	2.15	2.15	2.15	2.15	2.15	
	-3.4	-4	2.23	2.22	2.22	2.20	2.18	
	-1.3	-2	2.30	2.29	2.29	2.24	2.20	
	0.8	0	2.43	2.39	2.36	2.27	2.19	
	3.9	3	2.63	2.54	2.44	2.31	2.17	
	7.0	6	2.88	2.69	2.50	2.33	2.15	
	10.1	9	2.86	2.67	2.49	2.31	2.13	
	13.2	12	2.84	2.66	2.48	2.29	2.11	
	16.9	15.5	2.82	2.63	2.45	2.27	2.09	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature															
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
Me 6.5 (m³/min)	10			1.70	1.39	2.04	1.58	2.20	1.62	2.35	1.64	2.63	1.77	2.73	1.72		
	12			1.70	1.39	2.04	1.58	2.20	1.62	2.34	1.64	2.62	1.76	2.72	1.72		
	14			1.70	1.39	2.04	1.58	2.20	1.62	2.34	1.64	2.61	1.76	2.70	1.72		
	16			1.70	1.39	2.04	1.58	2.20	1.62	2.34	1.64	2.60	1.76	2.69	1.71		
	18			1.70	1.39	2.04	1.58	2.20	1.62	2.33	1.63	2.59	1.76	2.68	1.71		
	20			1.70	1.39	2.04	1.58	2.20	1.62	2.33	1.63	2.58	1.75	2.67	1.70		
	22			1.70	1.39	2.04	1.58	2.20	1.62	2.32	1.63	2.55	1.74	2.63	1.69		
	24			1.70	1.39	2.04	1.58	2.20	1.62	2.31	1.62	2.51	1.72	2.60	1.68		
	26			1.70	1.39	2.03	1.58	2.18	1.60	2.28	1.61	2.48	1.71	2.56	1.67		
	28	1.54	1.38	1.70	1.39	2.02	1.57	2.16	1.60	2.25	1.60	2.44	1.70	2.52	1.65		
	30	1.54	1.38	1.69	1.39	2.00	1.56	2.14	1.59	2.23	1.59	2.40	1.68	2.48	1.64		
	32	1.54	1.38	1.69	1.39	1.99	1.56	2.12	1.58	2.20	1.58	2.36	1.67	2.44	1.62		
	34	1.54	1.38	1.68	1.38	1.98	1.56	2.09	1.57	2.17	1.57	2.31	1.65	2.39	1.60		
	35	1.54	1.38	1.68	1.38	1.98	1.56	2.08	1.62	2.15	1.56	2.29	1.64	2.37	1.59		
36	1.54	1.38	1.68	1.38	1.96	1.55	2.07	1.56	2.13	1.55	2.25	1.62	2.32	1.58			
38	1.54	1.38	1.67	1.38	1.93	1.53	2.05	1.55	2.09	1.53	2.16	1.59	2.23	1.55			
39	1.54	1.38	1.67	1.38	1.92	1.52	2.04	1.55	2.07	1.53	2.12	1.58	2.18	1.54			
41	1.54	1.38	1.67	1.38	1.86	1.50	1.96	1.51	1.98	1.49	2.03	1.55	2.08	1.50			
43	1.54	1.38	1.66	1.38	1.80	1.48	1.87	1.48	1.89	1.45	1.93	1.51	1.98	1.47			

Model FDUH28KXE6

Cool Mode

Air flow	Outdoor air temp.	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi 7 (m³/min)	10			2.30	1.81	2.74	2.04	2.97	2.10	3.16	2.13	3.54	2.29	3.67	2.23
	12			2.30	1.81	2.74	2.04	2.97	2.10	3.15	2.12	3.52	2.28	3.66	2.22
	14			2.30	1.81	2.74	2.04	2.97	2.10	3.15	2.12	3.51	2.28	3.64	2.22
	16			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.50	2.27	3.63	2.21
	18			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.49	2.27	3.61	2.21
	20			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.47	2.26	3.59	2.20
	22			2.29	1.80	2.74	2.04	2.97	2.10	3.12	2.11	3.43	2.25	3.54	2.18
	24			2.29	1.80	2.74	2.04	2.97	2.10	3.11	2.10	3.39	2.23	3.50	2.17
	26			2.29	1.80	2.73	2.04	2.94	2.08	3.07	2.09	3.33	2.21	3.44	2.15
	28	2.07	1.78	2.28	1.80	2.72	2.03	2.91	2.07	3.03	2.07	3.28	2.19	3.39	2.13
	30	2.07	1.78	2.28	1.80	2.70	2.02	2.88	2.05	3.00	2.06	3.23	2.17	3.34	2.11
	32	2.07	1.78	2.27	1.80	2.67	2.01	2.86	2.05	2.96	2.04	3.18	2.15	3.29	2.09
	34	2.07	1.78	2.27	1.80	2.66	2.01	2.82	2.03	2.92	2.02	3.11	2.13	3.22	2.07
	35	2.07	1.78	2.26	1.79	2.66	2.01	2.80	2.02	2.89	2.01	3.08	2.11	3.18	2.06
	36	2.07	1.78	2.26	1.79	2.64	2.00	2.79	2.02	2.86	2.00	3.02	2.09	3.12	2.03
	38	2.07	1.78	2.25	1.78	2.60	1.98	2.76	2.01	2.81	1.98	2.91	2.05	3.00	1.99
	39	2.07	1.78	2.25	1.78	2.58	1.97	2.74	2.00	2.78	1.97	2.86	2.03	2.94	1.97
	41	2.07	1.78	2.24	1.78	2.50	1.94	2.63	1.95	2.66	1.92	2.73	1.98	2.80	1.92
	43	2.07	1.78	2.24	1.78	2.43	1.91	2.52	1.91	2.55	1.88	2.60	1.93	2.66	1.87

Heat Mode

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Uhi 7 (m³/min)	-19.8	-20	1.86	1.86	1.86	1.86	1.86		
	-17.8	-18	1.98	1.98	1.98	1.98	1.98		
	-15.7	-16	2.09	2.09	2.09	2.09	2.09		
	-13.7	-14	2.21	2.21	2.21	2.21	2.21		
	-11.7	-12	2.33	2.33	2.33	2.33	2.33		
	-9.6	-10	2.45	2.45	2.45	2.45	2.45		
	-7.5	-8	2.60	2.60	2.60	2.60	2.60		
	-5.5	-6	2.75	2.75	2.75	2.75	2.75		
	-3.4	-4	2.85	2.84	2.84	2.81	2.78		
	-1.3	-2	2.94	2.94	2.93	2.87	2.82		
	0.8	0	3.10	3.06	3.02	2.91	2.80		
	3.9	3	3.37	3.25	3.13	2.95	2.78		
	7.0	6	3.68	3.44	3.20	2.98	2.75		
	10.1	9	3.66	3.42	3.19	2.96	2.73		
	13.2	12	3.63	3.40	3.17	2.94	2.70		
	16.9	15.5	3.60	3.37	3.14	2.91	2.68		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 7 (m³/min)	10			2.30	1.81	2.74	2.04	2.97	2.10	3.16	2.13	3.54	2.29	3.67	2.23
	12			2.30	1.81	2.74	2.04	2.97	2.10	3.15	2.12	3.52	2.28	3.66	2.22
	14			2.30	1.81	2.74	2.04	2.97	2.10	3.15	2.12	3.51	2.28	3.64	2.22
	16			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.50	2.27	3.63	2.21
	18			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.49	2.27	3.61	2.21
	20			2.30	1.81	2.74	2.04	2.97	2.10	3.14	2.12	3.47	2.26	3.59	2.20
	22			2.29	1.80	2.74	2.04	2.97	2.10	3.12	2.11	3.43	2.25	3.54	2.18
	24			2.29	1.80	2.74	2.04	2.97	2.10	3.11	2.10	3.39	2.23	3.50	2.17
	26			2.29	1.80	2.73	2.04	2.94	2.08	3.07	2.09	3.33	2.21	3.44	2.15
	28	2.07	1.78	2.28	1.80	2.72	2.03	2.91	2.07	3.03	2.07	3.28	2.19	3.39	2.13
	30	2.07	1.78	2.28	1.80	2.70	2.02	2.88	2.05	3.00	2.06	3.23	2.17	3.34	2.11
	32	2.07	1.78	2.27	1.80	2.67	2.01	2.86	2.05	2.96	2.04	3.18	2.15	3.29	2.09
	34	2.07	1.78	2.27	1.80	2.66	2.01	2.82	2.03	2.92	2.02	3.11	2.13	3.22	2.07
	35	2.07	1.78	2.26	1.79	2.66	2.01	2.80	2.02	2.89	2.01	3.08	2.11	3.18	2.06
	36	2.07	1.78	2.26	1.79	2.64	2.00	2.79	2.02	2.86	2.00	3.02	2.09	3.12	2.03
	38	2.07	1.78	2.25	1.78	2.60	1.98	2.76	2.01	2.81	1.98	2.91	2.05	3.00	1.99
	39	2.07	1.78	2.25	1.78	2.58	1.97	2.74	2.00	2.78	1.97	2.86	2.03	2.94	1.97
	41	2.07	1.78	2.24	1.78	2.50	1.94	2.63	1.95	2.66	1.92	2.73	1.98	2.80	1.92
	43	2.07	1.78	2.24	1.78	2.43	1.91	2.52	1.91	2.55	1.88	2.60	1.93	2.66	1.87

Air flow		Outdoor air temp.		Indoor air temp.					
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB	
Hi 7 (m³/min)	-19.8	-20	1.86	1.86	1.86	1.86	1.86	1.86	
	-17.8	-18	1.98	1.98	1.98	1.98	1.98	1.98	
	-15.7	-16	2.09	2.09	2.09	2.09	2.09	2.09	
	-13.7	-14	2.21	2.21	2.21	2.21	2.21	2.21	
	-11.7	-12	2.33	2.33	2.33	2.33	2.33	2.33	
	-9.6	-10	2.45	2.45	2.45	2.45	2.45	2.45	
	-7.5	-8	2.60	2.60	2.60	2.60	2.60	2.60	
	-5.5	-6	2.75	2.75	2.75	2.75	2.75	2.75	
	-3.4	-4	2.85	2.84	2.84	2.81	2.78		
	-1.3	-2	2.94	2.94	2.93	2.87	2.82		
	0.8	0	3.10	3.06	3.02	2.91	2.80		
	3.9	3	3.37	3.25	3.13	2.95	2.78		
	7.0	6	3.68	3.44	3.20	2.98	2.75		
	10.1	9	3.66	3.42	3.19	2.96	2.73		
	13.2	12	3.63	3.40	3.17	2.94	2.70		
	16.9	15.5	3.60	3.37	3.14	2.91	2.68		

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me 6.5 (m³/min)	10			2.12	1.67	2.54	1.90	2.75	1.94	2.92	1.97	3.27	2.12	3.40	2.06
	12			2.12	1.67	2.54	1.90	2.75	1.94	2.92	1.97	3.26	2.11	3.38	2.06
	14			2.12	1.67	2.54	1.90	2.75	1.94	2.91	1.96	3.25	2.11	3.37	2.05
	16			2.12	1.67	2.54	1.90	2.75	1.94	2.91	1.96	3.24	2.11	3.35	2.05
	18			2.12	1.67	2.54	1.90	2.75	1.94	2.91	1.96	3.22	2.10	3.34	2.04
	20			2.12	1.67	2.54	1.90	2.75	1.94	2.90	1.96	3.21	2.10	3.32	2.04
	22			2.12	1.67	2.54	1.90	2.75	1.94	2.89	1.95	3.17	2.08	3.28	2.02
	24			2.12	1.67	2.54	1.90	2.75	1.94	2.87	1.95	3.13	2.07	3.23	2.01
	26			2.12	1.67	2.52	1.89	2.72	1.93	2.84	1.93	3.08	2.05	3.18	1.99
	28	1.92	1.65	2.11	1.67	2.51	1.88	2.69	1.92	2.81	1.92	3.03	2.03	3.13	1.97
	30	1.92	1.65	2.11	1.67	2.49	1.87	2.67	1.91	2.77	1.91	2.99	2.01	3.09	1.96
	32	1.92	1.65	2.10	1.66	2.47	1.87	2.64	1.89	2.74	1.89	2.94	1.99	3.04	1.94
	34	1.92	1.65	2.10	1.66	2.46	1.86	2.61	1.88	2.70	1.88	2.88	1.97	2.98	1.92
	35	1.92	1.65	2.09	1.66	2.46	1.86	2.59	1.94	2.68	1.87	2.85	1.96	2.95	1.91
	36	1.92	1.65	2.09	1.66	2.44	1.85	2.58	1.87	2.65	1.85	2.80	1.94	2.89	1.89
	38	1.92	1.65	2.08	1.65	2.40	1.83	2.55	1.86	2.60	1.84	2.69	1.90	2.77	1.85
	39	1.92	1.65	2.08	1.65	2.39	1.83	2.54	1.85	2.57	1.82	2.64	1.88	2.72	1.83
41	1.92	1.65	2.08	1.65	2.31	1.80	2.43	1.81	2.46	1.78	2.53	1.84	2.59	1.78	
43	1.92	1.65	2.07	1.65	2.24	1.76	2.33	1.76	2.36	1.74	2.41	1.79	2.46	1.74	

Model FDUH36KXE6

Cool Mode

Air flow	Outdoor air temp.	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Uhi 7 (m³/min)	10			2.95	2.13	3.53	2.43	3.82	2.49	4.06	2.54	4.55	2.74	4.72	2.65
	12			2.95	2.13	3.53	2.43	3.82	2.49	4.05	2.54	4.53	2.73	4.70	2.65
	14			2.95	2.13	3.53	2.43	3.82	2.49	4.05	2.54	4.51	2.72	4.68	2.64
	16			2.95	2.13	3.53	2.43	3.82	2.49	4.04	2.53	4.50	2.72	4.66	2.63
	18			2.95	2.13	3.53	2.43	3.82	2.49	4.04	2.53	4.48	2.71	4.64	2.62
	20			2.95	2.13	3.53	2.43	3.82	2.49	4.03	2.53	4.47	2.70	4.62	2.61
	22			2.95	2.13	3.53	2.43	3.82	2.49	4.01	2.52	4.41	2.68	4.56	2.59
	24			2.94	2.13	3.52	2.42	3.82	2.49	3.99	2.51	4.35	2.65	4.49	2.56
	26			2.94	2.13	3.51	2.41	3.78	2.48	3.95	2.49	4.28	2.62	4.43	2.54
	28	2.66	2.09	2.94	2.13	3.49	2.40	3.74	2.46	3.90	2.46	4.22	2.59	4.36	2.51
	30	2.66	2.09	2.93	2.12	3.47	2.40	3.71	2.45	3.86	2.45	4.15	2.56	4.29	2.47
	32	2.66	2.09	2.92	2.11	3.44	2.38	3.67	2.43	3.81	2.43	4.09	2.54	4.23	2.45
	34	2.66	2.09	2.91	2.11	3.43	2.37	3.62	2.40	3.75	2.40	4.00	2.50	4.14	2.42
	35	2.66	2.09	2.91	2.11	3.42	2.37	3.60	2.41	3.72	2.39	3.96	2.48	4.09	2.41
	36	2.66	2.09	2.91	2.11	3.39	2.36	3.58	2.38	3.68	2.37	3.89	2.45	4.02	2.38
	38	2.66	2.09	2.90	2.10	3.34	2.33	3.55	2.37	3.61	2.34	3.74	2.39	3.86	2.32
	39	2.66	2.09	2.89	2.10	3.32	2.32	3.53	2.36	3.58	2.32	3.67	2.36	3.78	2.29
	41	2.66	2.09	2.88	2.09	3.22	2.28	3.38	2.29	3.43	2.26	3.51	2.30	3.60	2.22
	43	2.66	2.09	2.87	2.09	3.12	2.23	3.24	2.23	3.28	2.19	3.35	2.24	3.42	2.16

Heat Mode

Air flow		Outdoor air temp.		Indoor air temp.				
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
Uhi 7 (m³/min)	-19.8	-20	2.32	2.32	2.32	2.32	2.32	
	-17.8	-18	2.47	2.47	2.47	2.47	2.47	
	-15.7	-16	2.62	2.62	2.62	2.62	2.62	
	-13.7	-14	2.77	2.77	2.77	2.77	2.77	
	-11.7	-12	2.92	2.92	2.92	2.92	2.92	
	-9.6	-10	3.07	3.07	3.07	3.07	3.07	
	-7.5	-8	3.25	3.25	3.25	3.25	3.25	
	-5.5	-6	3.44	3.44	3.44	3.44	3.44	
	-3.4	-4	3.56	3.56	3.55	3.52	3.48	
	-1.3	-2	3.68	3.67	3.66	3.59	3.52	
	0.8	0	3.88	3.83	3.77	3.64	3.50	
	3.9	3	4.21	4.06	3.91	3.69	3.47	
	7.0	6	4.60	4.30	4.00	3.72	3.44	
	10.1	9	4.57	4.28	3.99	3.70	3.41	
	13.2	12	4.54	4.25	3.96	3.67	3.38	
	16.9	15.5	4.51	4.22	3.93	3.64	3.35	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 7 (m³/min)	10			2.95	2.13	3.53	2.43	3.82	2.49	4.06	2.54	4.55	2.74	4.72	2.65
	12			2.95	2.13	3.53	2.43	3.82	2.49	4.05	2.54	4.53	2.73	4.70	2.65
	14			2.95	2.13	3.53	2.43	3.82	2.49	4.05	2.54	4.51	2.72	4.68	2.64
	16			2.95	2.13	3.53	2.43	3.82	2.49	4.04	2.53	4.50	2.72	4.66	2.63
	18			2.95	2.13	3.53	2.43	3.82	2.49	4.04	2.53	4.48	2.71	4.64	2.62
	20			2.95	2.13	3.53	2.43	3.82	2.49	4.03	2.53	4.47	2.70	4.62	2.61
	22			2.95	2.13	3.53	2.43	3.82	2.49	4.01	2.52	4.41	2.68	4.56	2.59
	24			2.94	2.13	3.52	2.42	3.82	2.49	3.99	2.51	4.35	2.65	4.49	2.56
	26			2.94	2.13	3.51	2.41	3.78	2.48	3.95	2.49	4.28	2.62	4.43	2.54
	28	2.66	2.09	2.94	2.13	3.49	2.40	3.74	2.46	3.90	2.46	4.22	2.59	4.36	2.51
	30	2.66	2.09	2.93	2.12	3.47	2.40	3.71	2.45	3.86	2.45	4.15	2.56	4.29	2.47
	32	2.66	2.09	2.92	2.11	3.44	2.38	3.67	2.43	3.81	2.43	4.09	2.54	4.23	2.45
	34	2.66	2.09	2.91	2.11	3.43	2.37	3.62	2.40	3.75	2.40	4.00	2.50	4.14	2.42
	35	2.66	2.09	2.91	2.11	3.42	2.37	3.60	2.41	3.72	2.39	3.96	2.48	4.09	2.41
	36	2.66	2.09	2.91	2.11	3.39	2.36	3.58	2.38	3.68	2.37	3.89	2.45	4.02	2.38
	38	2.66	2.09	2.90	2.10	3.34	2.33	3.55	2.37	3.61	2.34	3.74	2.39	3.86	2.32
	39	2.66	2.09	2.89	2.10	3.32	2.32	3.53	2.36	3.58	2.32	3.67	2.36	3.78	2.29
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	43	2.66	2.09	2.87	2.09	3.12	2.23	3.24	2.23	3.28	2.19	3.35	2.24	3.42	2.16

Air flow		Outdoor air temp.		Indoor air temp.				
		DB	WB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
Hi 7 (m³/min)	-19.8	-20	2.32	2.32	2.32	2.32	2.32	
	-17.8	-18	2.47	2.47	2.47	2.47	2.47	
	-15.7	-16	2.62	2.62	2.62	2.62	2.62	
	-13.7	-14	2.77	2.77	2.77	2.77	2.77	
	-11.7	-12	2.92	2.92	2.92	2.92	2.92	
	-9.6	-10	3.07	3.07	3.07	3.07	3.07	
	-7.5	-8	3.25	3.25	3.25	3.25	3.25	
	-5.5	-6	3.44	3.44	3.44	3.44	3.44	
	-3.4	-4	3.56	3.56	3.55	3.52	3.48	
	-1.3	-2	3.68	3.67	3.66	3.59	3.52	
	0.8	0	3.88	3.83	3.77	3.64	3.50	
	3.9	3	4.21	4.06	3.91	3.69	3.47	
	7.0	6	4.60	4.30	4.00	3.72	3.44	
	10.1	9	4.57	4.28	3.99	3.70	3.41	
	13.2	12	4.54	4.25	3.96	3.67	3.38	
	16.9	15.5	4.51	4.22	3.93	3.64	3.35	

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature													
		21°CDB 14°CWB		23°CDB 16°CWB		26°CDB 18°CWB		27°CDB 19°CWB		28°CDB 20°CWB		31°CDB 22°CWB		33°CDB 24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me 6.5 (m³/min)	10			2.69	1.95	3.21	2.22	3.48	2.29	3.70	2.33	4.14	2.51	4.30	2.43
	12			2.69	1.95	3.21	2.22	3.48	2.29	3.69	2.32	4.13	2.50	4.28	2.42
	14			2.69	1.95	3.21	2.22	3.48	2.29	3.69	2.32	4.11	2.49	4.27	2.42
	16			2.69	1.95	3.21	2.22	3.48	2.29	3.68	2.32	4.10	2.49	4.25	2.41
	18			2.69	1.95	3.21	2.22	3.48	2.29	3.68	2.32	4.08	2.48	4.23	2.40
	20			2.69	1.95	3.21	2.22	3.48	2.29	3.67	2.31	4.07	2.47	4.21	2.40
	22			2.68	1.95	3.21	2.22	3.48	2.29	3.66	2.31	4.02	2.45	4.15	2.37
	24			2.68	1.95	3.21	2.22	3.48	2.29	3.64	2.29	3.97	2.43	4.09	2.35
	26			2.68	1.95	3.20	2.21	3.44	2.27	3.60	2.28	3.90	2.40	4.03	2.32
	28	2.43	1.92	2.68	1.95	3.18	2.20	3.41	2.26	3.55	2.26	3.84	2.37	3.97	2.29
	30	2.43	1.92	2.67	1.94	3.16	2.19	3.38	2.24	3.51	2.24	3.78	2.35	3.91	2.27
	32	2.43	1.92	2.66	1.94	3.13	2.18	3.35	2.23	3.47	2.22	3.72	2.32	3.85	2.25
	34	2.43	1.92	2.65	1.93	3.12	2.17	3.30	2.20	3.42	2.20	3.64	2.29	3.77	2.22
	35	2.43	1.92	2.65	1.93	3.12	2.17	3.28	2.26	3.39	2.19	3.61	2.28	3.73	2.21
	36	2.43	1.92	2.65	1.93	3.09	2.16	3.26	2.18	3.36	2.17	3.54	2.25	3.66	2.18
	38	2.43	1.92	2.64	1.93	3.05	2.14	3.23	2.17	3.29	2.14	3.41	2.20	3.51	2.13
	39	2.43	1.92	2.64	1.93	3.02	2.13	3.21	2.16	3.26	2.13	3.35	2.17	3.44	2.10
41	2.43	1.92	2.63	1.92	2.93	2.09	3.08	2.10	3.12	2.07	3.20	2.11	3.28	2.04	
43	2.43	1.92	2.62	1.92	2.84	2.05	2.95	2.04	2.98	2.01	3.05	2.05	3.12	1.98	

7 APPLICATION DATA

When install the unit, be sure to check whether the selection of installation place, power supply specifications, usage limitation (piping length, height differences between indoor and outdoor units, power supply voltage and etc.) and installation spaces

SAFETY PRECAUTIONS

- We recommend you to read this "SAFETY PRECAUTIONS" carefully before the installation work in order to gain full advantage of the functions of the unit and to avoid malfunction due to mishandling.
- The precautions described below are divided into **⚠ WARNING** and **⚠ CAUTION**. The matters with possibilities leading to serious consequences such as death or serious personal injury due to erroneous handling are listed in the **⚠ WARNING** and the matters with possibilities leading to personal injury or damage of the unit due to erroneous handling including probability leading to serious consequences in some cases are listed in **⚠ CAUTION**. These are very important precautions for safety. Be sure to observe all of them without fail.
- Be sure to confirm no anomaly on the equipment by commissioning after completed installation and explain the operating methods as well as the maintenance methods of this equipment to the user according to the owner's manual.
- Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user

⚠ WARNING

- | | |
|---|---|
| ● Installation must be carried out by the qualified installer.
If you install the system by yourself, it may cause serious trouble such as water leaks, electric shocks, fire and personal injury, as a result of a system malfunction. | ! |
| ● Install the system in full accordance with the instruction manual.
Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire. | ! |
| ● Use the original accessories and the specified components for installation.
If parts other than those prescribed by us are used, it may cause water leaks, electric shocks, fire and personal injury. | ! |
| ● When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage.
Consult the expert about prevention measures. If the density of refrigerant exceeds the limit in the event of leakage, lack of oxygen can occur, which can cause serious accidents. | ! |
| ● Ventilate the working area well in the event of refrigerant leakage during installation.
If the refrigerant comes into contact with naked flames, poisonous gas is produced. | ! |
| ● After completed installation, check that no refrigerant leaks from the system.
If refrigerant leaks into the room and comes into contact with an oven or other hot surface, poisonous gas is produced. | ! |
| ● Hang up the unit at the specified points with ropes which can support the weight in lifting for portage. And to avoid jolting out of alignment, be sure to hang up the unit at 4-point support.
An improper manner of portage such as 3-point support can cause death or serious personal injury due to falling of the unit | ! |
| ● Install the unit in a location with good support.
Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury. | ! |
| ● Ensure the unit is stable when installed, so that it can withstand earthquakes and strong winds.
Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury. | ! |
| ● Ensure that no air enters in the refrigerant circuit when the unit is installed and removed.
If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury. | ⊘ |
| ● The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit.
Power supply with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire. | ! |
| ● Be sure to shut off the power before starting electrical work.
Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment. | ! |
| ● Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work.
Unconformable cables can cause electric leak, anomalous heat production or fire. | ! |
| ● Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks.
Loose connections or cable mountings can cause anomalous heat production or fire. | ! |
| ● Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly.
Incorrect installation may result in overheating and fire. | ! |
| ● Be sure not to reuse existing refrigerant pipes
Conventional refrigerant oil or chlorine contained in the conventional refrigerant which is remaining in the existing refrigerant pipes can cause deterioration of refrigerant oil of new unit. And 1.6 times higher pressure of R410A refrigerant than conventional one can cause burst of existing pipe, personal injury or serious accident. | ! |
| ● Do not perform brazing work in the airtight room.
It can cause lack of oxygen. | ! |
| ● Use the prescribed pipes, flare nuts and tools for R410A.
Using existing parts (for R22 or R407C) can cause the unit failure and serious accidents due to burst of the refrigerant circuit. | ! |

<ul style="list-style-type: none"> ● Tighten the flare nut by using double spanners and torque wrench according to prescribed method. Be sure not to tighten the flare nut too much. Loose flare connection or damage on the flare part by tightening with excess torque can cause burst or refrigerant leaks which may result in lack of oxygen. 	!
<ul style="list-style-type: none"> ● Do not open the service valves for liquid line and gas line until completed refrigerant piping work, air tightness test and evacuation. If the compressor is operated in state of opening service valves before completed connection of refrigerant piping work, air can be sucked into refrigerant circuit, which can cause burst or personal injury due to anomalously high pressure in the refrigerant 	!
<ul style="list-style-type: none"> ● Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulphide gas can occur. Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. 	!
<ul style="list-style-type: none"> ● Only use prescribed optional parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire. 	!
<ul style="list-style-type: none"> ● Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shocks. 	⊘
<ul style="list-style-type: none"> ● Be sure to fix up the service panels. Incorrect fixing can cause electric shocks or fire due to intrusion of dust or water. 	⊘
<ul style="list-style-type: none"> ● Do not perform any repairs or modifications by yourself. Consult the dealer if the unit requires repair. If you repair or modify the unit, it can cause water leaks, electric shocks or fire. 	⊘
<ul style="list-style-type: none"> ● Do not perform any change of protective device itself or its setup condition. The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component can cause fire or burst. 	!
<ul style="list-style-type: none"> ● Be sure to switch off the power supply in the event of installation, inspection or servicing. If the power supply is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start of fan. 	!
<ul style="list-style-type: none"> ● Consult the dealer or an expert regarding removal of the unit. Incorrect installation can cause water leaks, electric shocks or fire. 	!
<ul style="list-style-type: none"> ● Stop the compressor before disconnecting refrigerant pipes in case of pump down operation. If disconnecting refrigerant pipes in state of opening service valves before compressor stopping, air can be sucked, which can cause burst or personal injury due to anomalously high pressure in the refrigerant circuit. 	!

⚠ CAUTION

<ul style="list-style-type: none"> ● Carry out the electrical work for ground lead with care. Do not connect the ground lead to the gas line, water line, lightning conductor or telephone line's ground lead. Incorrect grounding can cause unit faults such as electric shocks due to short-circuiting. 	⚡
<ul style="list-style-type: none"> ● Use the circuit breaker with sufficient breaking capacity. If the breaker does not have sufficient breaking capacity, it can cause the unit malfunction and fire. 	!
<ul style="list-style-type: none"> ● Earth leakage breaker must be installed. If the earth leakage breaker is not installed, it can cause electric shocks. 	⊘
<ul style="list-style-type: none"> ● Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used. Connecting the circuit with copper wire or other metal thread can cause unit failure and fire. 	⊘
<ul style="list-style-type: none"> ● Do not install the unit near the location where leakage of combustible gases can occur. If leaked gases accumulate around the unit, it can cause fire. 	⊘
<ul style="list-style-type: none"> ● Do not install the unit where corrosive gas (such as sulfurous acid gas etc.) or combustible gas (such as thinner and petroleum gases) can accumulate or collect, or where volatile combustible substances are handled. Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire. 	⊘
<ul style="list-style-type: none"> ● Secure a space for installation, inspection and maintenance specified in the manual. Insufficient space can result in accident such as personal injury due to falling from the installation place. 	⊘
<ul style="list-style-type: none"> ● When the outdoor unit is installed on a roof or a high place, provide permanent ladders and handrails along the access route and fences and handrails around the outdoor unit. If safety facilities are not provided, it can cause personal injury due to falling from the installation place. 	⊘
<ul style="list-style-type: none"> ● Do not use the indoor unit at the place where water splashes may occur such as in laundries. Since the indoor unit is not waterproof, it can cause electric shocks and fire. 	⊘
<ul style="list-style-type: none"> ● Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics. Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming. 	⊘
<ul style="list-style-type: none"> ● Do not install the outdoor unit in a location where insects and small animals can inhabit. Insects and small animals can enter the electric parts and cause damage or fire. Instruct the user to keep the surroundings. 	⊘
<ul style="list-style-type: none"> ● Do not use the base flame for outdoor unit which is corroded or damaged due to long periods of operation. Using an old and damage base flame can cause the unit falling down and cause personal injury. 	⊘
<ul style="list-style-type: none"> ● Do not install the unit in the locations listed below <ul style="list-style-type: none"> • Locations where carbon fiber, metal powder or any powder is floating. • Locations where any substances that can affect the unit such as sulphide gas, chloride gas, acid and alkaline can occur. • Vehicles and ships. 	⊘

- Locations where cosmetic or special sprays are often used.
 - Locations with direct exposure of oil mist and steam such as kitchen and machine plant.
 - Locations where any machines which generate high frequency harmonics are used.
 - Locations with salty atmospheres such as coastlines.
 - Locations with heavy snow. (If installed, be sure to provide base flame and snow hood mentioned in the manual)
 - Locations where the unit is exposed to chimney smoke.
 - Locations at high altitude. (more than 1000m high)
 - Locations with ammoniac atmospheres.
 - Locations where heat radiation from other heat source can affect the unit.
 - Locations without good air circulation.
 - Locations with any obstacles which can prevent inlet and outlet air of the unit.
 - Locations where short circuit of air can occur. (in case of multiple units installation)
 - Locations where strong air blows against the air outlet of outdoor unit.
- It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire.

● **Do not install the outdoor unit in the locations listed below.**

- Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood.
 - Locations where outlet air of the outdoor unit blows directly to plants.
 - Locations where vibration can be amplified and transmitted due to insufficient strength of structure.
 - Locations where vibration and operation sound generated by the outdoor unit can affect seriously. (on the wall or at the place near bed room)
 - Locations where an equipment affected by high harmonics is placed. (TV set or radio receiver is placed within 5m)
 - Locations where drainage cannot run off safely.
- It can affect surrounding environment and cause a claim

● **Do not install the indoor unit in the locations listed below. (Be sure to install the indoor unit according to the installation manual for each model because each indoor unit has each limitation)**

- Locations with any obstacles which can prevent inlet and outlet air of the unit.
 - Locations where vibration can be amplified due to insufficient strength of structure.
 - Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam. (in case of the infrared specification unit)
 - Locations where an equipment affected by high harmonics is placed. (TV set or radio receiver is placed within 5m)
 - Locations where drainage cannot run off safely.
- It can affect performance or function and etc.

● **Do not place any variables which will be damaged by getting wet under the indoor unit.**

When the relative humidity is higher than 80% or drainage pipe is clogged, condensation or drainage water can drop and it can cause the damage of valuables.

● **Do not install the remote controller at the direct sunlight.**

It can cause malfunction or deformation of the remote controller.

● **Do not use the unit for special purposes such as storing foods, cooling precision instruments and preservation of animals, plants or art.**

It can cause the damage of the items.

● **Take care when carrying the unit by hand.**

If the unit weights more than 20kg, it must be carried by two or more persons. Do not carry by the plastic straps, always use the carry handle when carrying the unit by hand. Use gloves to minimize the risk of cuts by the aluminum fins.

● **Dispose of any packing materials correctly.**

Any remaining packing materials can cause personal injury as it contains nails and wood. And to avoid danger of suffocation, be sure to keep the plastic wrapper away from children and to dispose after tear it up.

● **Pay attention not to damage the drain pan by weld spatter when welding work is done near the indoor unit.**

If weld spatter entered into the indoor unit during welding work, it can cause pin-hole in drain pan and result in water leakage. To prevent such damage, keep the indoor unit in its packing or cover it.

● **Be sure to insulate the refrigerant pipes so as not to condense the ambient air moisture on them.**

Insufficient insulation can cause condensation, which can lead to moisture damage on the ceiling, floor, furniture and any other valuables.

● **Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work.**

If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can occur, which can cause serious accidents.

● **Be sure to install indoor unit properly according to the instruction manual in order to run off the drainage smoothly.**

Improper installation of indoor unit can cause dropping water into the room and damaging personal property.

● **Install the drainage pipe to run off drainage securely according to the installation manual.**

Incorrect installation of the drainage pipe can cause dropping water into the room and damaging personal property.

● **Be sure to install the drainage pipe with descending slope of 1/100 or more, and not to make traps and air-bleedings**

Check if the drainage runs off securely during commissioning and ensure the space for inspection and maintenance.

● **Do not operate the system without the air filter.**

It can cause malfunction of the system due to clogging of the heat exchanger.

● **Do not touch any buttons with wet hands.**

It can cause electric shocks.

● **Do not shut off the power supply immediately after stopping the operation.**

Wait at least 5 minutes, otherwise there is a risk of water leakage or breakdown.

● **Do not control the system with main power switch.**


It can cause fire or water leakage. In addition, the fan can start unexpectedly, which can cause personal injury.

● **Do not touch any refrigerant pipes with your hands when the system is in operation.**

During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frost injury.

7.1 Installation of indoor unit

(a) Ceiling cassette-4way type (FDT)

PJF012D007 









① Before installation

● Install correctly according to the installation manual.

● Confirm the following points:

○ Unit type/Power supply specification ○ Pipes/Wires/Small parts ○ Accessory items

Accessory item

For unit hanging		For refrigerant pipe			For drain pipe		
Flat washer (M10)	Level gauge	Pipe cover(big)	Pipe cover (small)	Strap	Pipe cover(big)	Pipe cover (small)	Drain hose
							
8	1	1	1	4	1	1	1
For unit hanging	For unit hanging and adjustment	For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting

② Selection of installation location for the indoor unit

① Select the suitable areas to install the unit under approval of the user.

- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
- Areas where there is enough space to install and service.
- Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- Areas where there is no obstruction of airflow on both air return grille and air supply port.
- Areas where fire alarm will not be accidentally activated by the air conditioner.
- Areas where the supply air does not short-circuit.
- Areas where it is not influenced by draft air.
- Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.
This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.
- If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
- Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
- Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- Areas where there is no influence by the heat which cookware generates.
- Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
- Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
(A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)

② Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

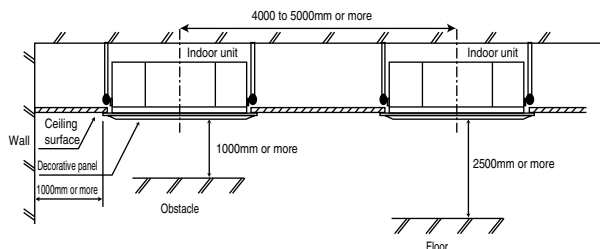
③ If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.

④ When plural indoor units are installed nearby, keep them away for more than 4 to 5m.

Space for installation and service

● When it is not possible to keep enough space between indoor unit and wall or between indoor units, close the air supply port where it is not possible to keep space and confirm there is no short circuit of airflow.

● Install the indoor unit at a height of more than 2.5m above the floor.



Set blow-out pattern

- Select the most proper number of blow-out air supply port direction from 4 way, 3 way or 2 way according to the shape of the room and installation position. (1 way is not available.)
- If it is necessary to change the number of air supply port, prepare the covering materials. (sold as accessory)
- Instruct the user not to use low fan speed when 2way or 3way air supply is used.
- Do not use 2way air supply port under high temperature and humidity environment. (Otherwise it could cause condensation and leakage of water.)
- It is possible to set the airflow direction port by port independently. Refer to the user's manual for details.

③ Preparation before installation

● If suspension bolt becomes longer, do reinforcement of earthquake resistant.

○ For grid ceiling

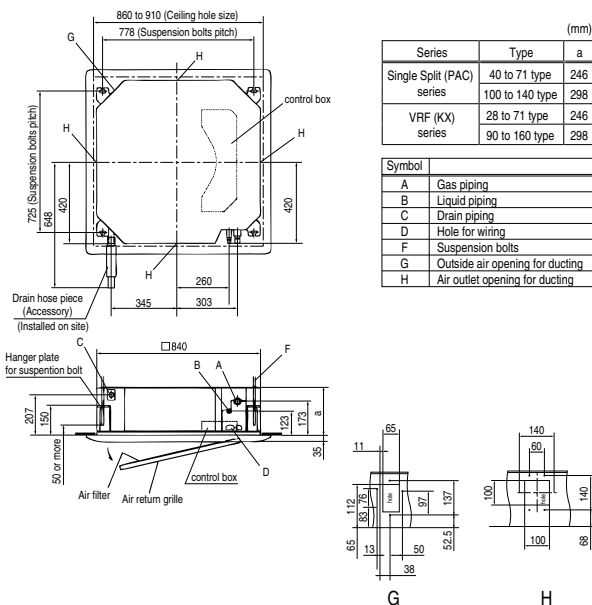
When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

○ In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.

When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.

● Prepare four (4) sets of suspension bolt, nut and spring washer (M10 or M8) on site.

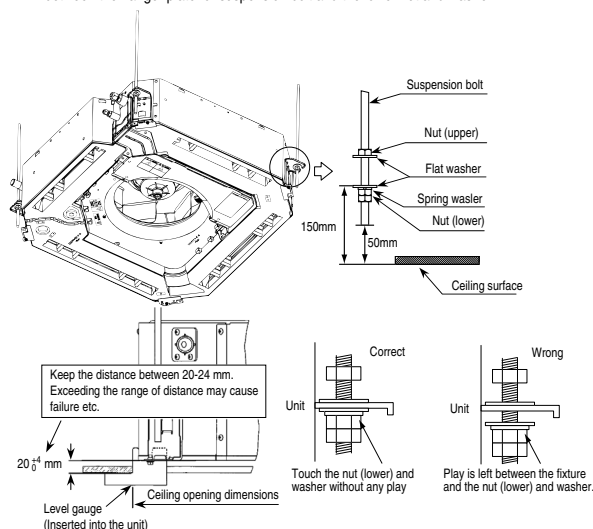
Ceiling opening, Suspension bolts pitch, Pipe position



④ Installation of indoor unit

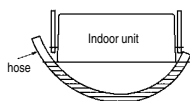
Work procedure

1. Prepare a ceiling hole with the size of from 860mm × 860mm to 910mm × 910mm referring to the template attached in the package.
2. Arrange the suspension bolt at the right position (725mm×778mm).
3. Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.
4. Ensure that the lower end of the suspension bolt should be 50mm above the ceiling plane. Temporarily put the four lower nuts 150mm above the ceiling plane and the upper nuts on distant place from the lower nuts in order not to obstruct hanging the indoor unit or adjust the indoor unit position, and then hang the indoor unit.
5. Adjust the indoor unit position after hanging it by inserting the level gauge attached on the package into the air supply port and checking if the gap between the ceiling plane and the indoor unit is appropriate. In order to adjust the indoor unit position, adjust the lower nuts while the upper nuts are put on distant place. Confirm there is no backlash between the hanger plate for suspension bolt and the lower nut and washer.



④ Installation of indoor unit (continued)

- Make sure to install the indoor unit horizontally. Confirm the levelness of the indoor unit with a level gauge or transparent hose filled with water. Keep the height difference at both ends of the indoor unit within 3mm.
- Tighten four upper nuts and fix the unit after height and levelness adjustment.



Caution

- Do not adjust the height by adjusting upper nuts. It will cause unexpected stress on the indoor unit and it will lead to deformation of the unit, failure of attaching a panel, and generating noise from the fan.
- Make sure to install the indoor unit horizontally and set the gap between the unit underside and the ceiling plane properly. Improper installation may cause air leakage, dew condensation, water leakage and noise.
- Even after decorative panel attached, still the unit height can be adjusted finely. Refer to the installation manual for decorative panel for details.
- Make sure there is no gap between decoration panel and ceiling surface, and between decoration panel and the indoor unit. The gap may cause air leakage, dew condensation and water leakage.
- In case decorative panel is not installed at the same time, or ceiling material is installed after the unit installed, put the cardboard template for installation attached on the package (packing material of cardboard box) on the bottom of the unit in order to avoid dust coming into the indoor unit.

⑤ Refrigerant pipe

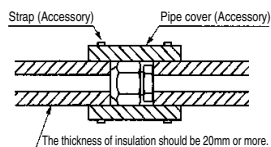
Caution

- Use the new refrigerant pipe.
 - When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation.
 - In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
 - Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - Incomplete insulation may cause dew condensation or water dropping.
- Refrigerant is charged in the outdoor unit.
 - As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



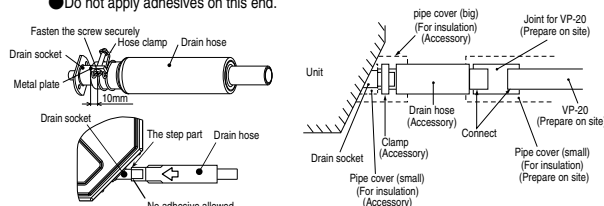
⑥ Drain pipe

Caution

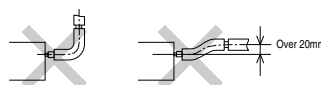
- Install the drain pipe according to the installation manual in order to drain properly.
 - Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

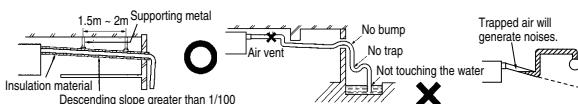
- Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp. Attach the hose clamp to the drain hose around 10mm from the end.
 - Do not apply adhesives on this end.



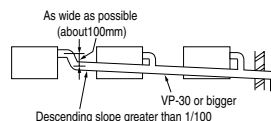
- Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-20 pipe (prepare on site).
 - As for drain pipe, apply VP-20 made of rigid PVC which is on the market.
 - Make sure that the adhesive will not get into the supplied drain hose.
 - It may cause the flexible part broken after the adhesive is dried up and gets rigid.
 - The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Do not bend or make an excess offset on the drain hose as shown in the picture. Bend or excess offset will cause drain leakage.



- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
 - Do not set up air vent.



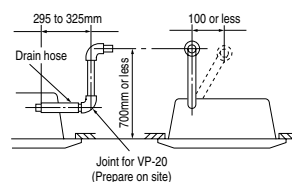
- When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.



- Insulate the drain pipe.
 - Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
 - After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

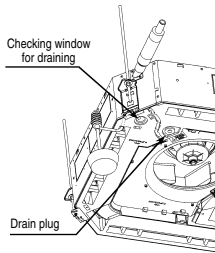
- The position for drain pipe outlet can be raised up to 700mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



⑥ Drain pipe (continued)

Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan. Check if the motor sound of drain pump is normal or not.
 - Do drain test even if installation of heating season.
 - For new building cases, make sure to complete the test before hanging the ceiling.
1. Pour water of about 1000cc into the drain pan in the indoor unit by pump so as not to get the electrical component wet.
 2. Make sure that water is drained out properly and there is no water leakage from any joints of the drain pipe at the test.
Confirm that the water is properly drained out while the drain motor is operating. At the drain socket (transparent), it is possible to check if the water is drained out properly.
 3. Unplug the drain plug on the indoor unit to remove remaining water on the drain pan after the test, and re-plug it. And insulate the drain pipe properly finally.



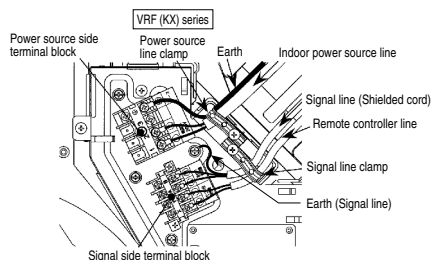
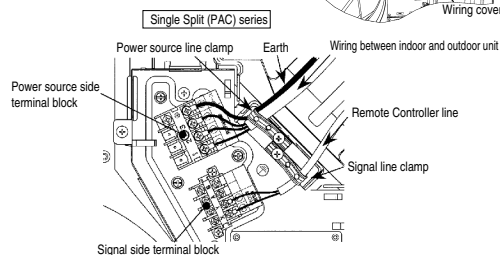
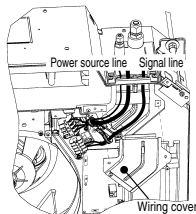
Drain pump operation

- In case electrical wiring work finished
Drain pump can be operated by remote controller (wired).
For the operation method, refer to **Operation for drain pump** in the installation manual for wiring work.
- In case electrical wiring work not finished
Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector CNB is disconnected, and then the power supply (230VAC on the terminal block ① and ②) is turned ON.
Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

⑦ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

1. Remove a lid of the control box (3 screws) and the wiring cover (2 screws).
2. Hold each wiring inside the unit and fasten them to terminal block securely.
3. Fix the wiring with clamps.
4. Install the removed parts back to original place.



⑧ Panel installation

- Attach the panel on the indoor unit after electrical wiring work.
- Refer to panel installation manual for details (See next page).

⑨ Check list after installation

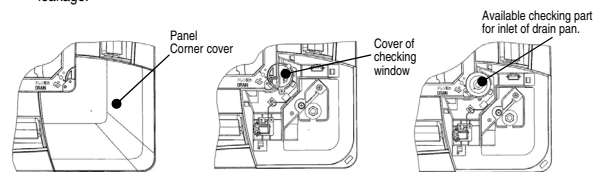
- Check the following items after all installation work completed.

Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

⑩ How to check the dirt of drain pan (Maintenance)

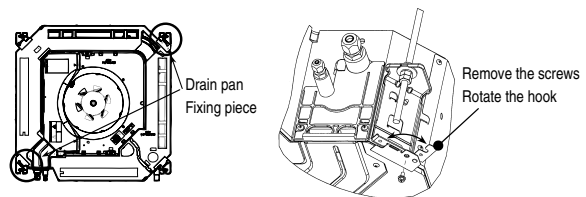
The method of checking the dirt of drain pan

- It is possible to check the dirt for inlet of drain pan without detaching the panel.
(Inspection is not possible when the high efficient filter and option spacer is installed.)
1. Open the air return grille and remove the panel corner cover on drain pan side.
 2. Remove the cover of inspection window. (1screw)
 3. Check the drain pan from the inspection window.
- If the drain pan is very dirty, remove the drain pan and clean it.
4. After checking of the dirty of drain pan, restore the cover of the inspection window securely. Improper restoration of the cover may cause dew condensation and water leakage.



Attention for removing drain pan

- The fixing components have been attached the with drain pan. Pay attention to these components during installation and removing. Take off the hanging hook after removing four screws. During the installation of drain pan, fix the drain pan firmly by using four screws after hanging it up with the fixing hook.



PANEL INSTALLATION MANUAL

PJF012D003

Read this manual together with the indoor unit's installation manual.

⚠ WARNING

- Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.
Loose connection or hold will cause abnormal heat generation or fire.
- Make sure the power supply is turned off when electric wiring work.
Otherwise, electric shock, malfunction and improper running may occur.



① Before installation

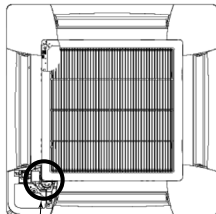
- Follow installation manual carefully, and install the panel properly.
- Check the following items.

○ Accessories

Accessories

Bolt		4 pieces	For panel installation
Strap		4 pieces	For avoiding the corner panel from falling

Note: Accessories are laid in the position removing the corner panel.



Accessories holding position

② Checking the indoor unit installation position

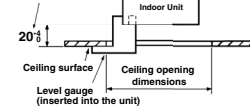
- Read this manual together with the air conditioner installation manual carefully.
- Check if the opening size for the indoor unit is correct with the level gauge supplied in the indoor unit.
- Check if the gap between the ceiling plane and the indoor unit is correct by inserting the level gauge into the air outlet port of the indoor unit. (See below drawing)
- Adjust the installation elevation if necessary.

Caution

If there is a height difference beyond the design limit between the installation level of the indoor unit and the ceiling plane, the panel may be subject to excessive stress during installation, it may cause distortion and damage.

- The installation level of the indoor unit can be adjusted finely from the opening on the corner, even after panel is attached. (Refer to ⑥ Attaching the panel for details.)

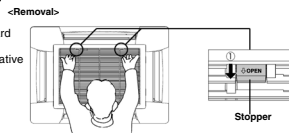
Keep the distance between 20-24mm. Exceeding the range of distance may cause failure etc.



Level gauge (inserted into the unit)

③ Removing the air return grille

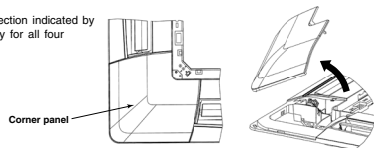
1. Hold the stoppers on the air return grille (2 places) toward OPEN direction, open the air return grille.
2. Remove the hooks of the air return grille from the decorative panel while it is in the open position.



Stopper

④ Removing a corner panel

- Pull the corner panel toward the direction indicated by the arrow and remove it. (Same way for all four corner panels)



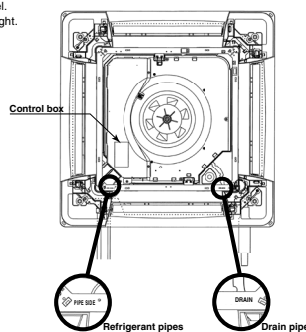
Corner panel

⑤ Orientation of the panel installation

- Take note that there is an orientation to install the panel.
- Attach the panel with the orientation shown on the right.
- Align the "PIPE SIDE" mark (on the panel) with the refrigerant pipes on the indoor unit.
- Align the "DRAIN" mark (on the panel) with the drain pipe on the indoor unit.

CAUTION

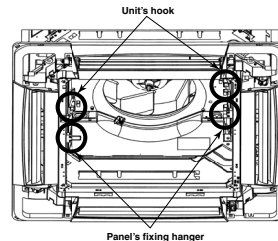
In case the orientation of the panel is not correct, it will lead to air leakage and also it is not possible to connect the louver motor wiring.



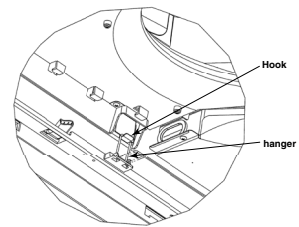
⑥ Attaching the panel

1. Temporary attaching

- Lift up the hanger (2 places) on the panel for temporary support.
- Hang the panel on the hook on the indoor unit.



Panel's fixing hanger



Hook

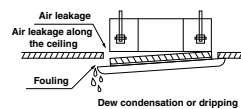
hanger

2. Fix the panel on the indoor unit

- Fasten the panel on the indoor unit with the four bolts supplied with the panel.

Caution

- Improperly tightened hanging bolts can cause the problems listed below, so make sure that you have tightened them securely.



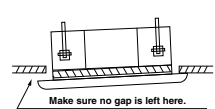
Air leakage

Air leakage along the ceiling

Fouling

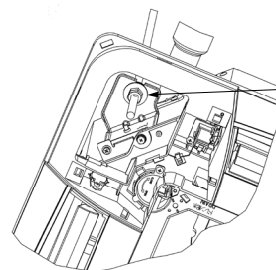
Dew condensation or dripping

- If there is a gap remaining between the ceiling and the decorative panel even after the hanging bolts are tightened, adjust the installation level of the indoor unit again.



Make sure no gap is left here.

- It is possible to adjust the installation height of the indoor unit with the panel attached as long as there is no influence on the drain pipe inclination and/or the indoor unit levelness.



To adjust finely, please turn a nut fastening the indoor unit using a spanner or similar tool from the opening on the corner.

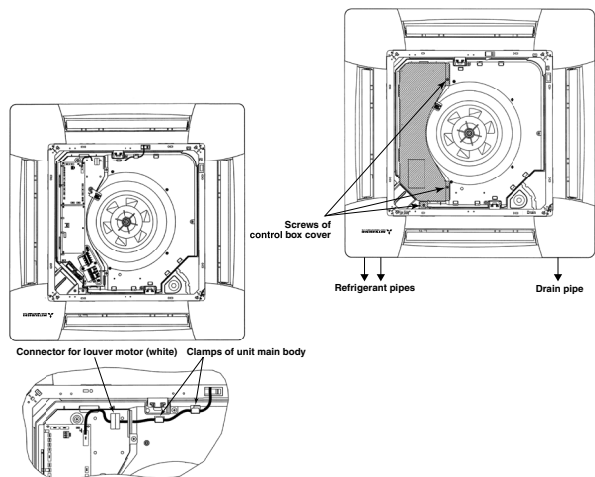
Caution

Make sure there is no stress given on the panel when adjusting the height of the indoor unit to avoid unexpected distortion. It may cause the distortion of panel or failing to close the air return grille.

⑦ Electrical wiring

1. After removing three screws of control box, detach the cover of control box (the hatched part).
2. Connect the connector for louver motor (white 20P).

- Hold the wiring by using the clamps of the indoor unit.
- Hold the connector inside the control box.



Screws of control box cover

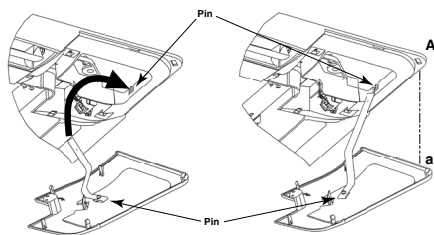
Refrigerant pipes

Drain pipe

Connector for louver motor (white) Clamps of unit main body

⑧ Attaching a corner panel

1. To avoid unexpected falling of the corner panel, put the strap onto the corner panel's pin with turning the strap up.
2. Then hang the strap of a corner panel onto the decorative panel's pin.
3. First insert the part "a" of a corner panel into the part "A" of the decorative panel, and then engage four hooks.



⑨ How to set the airflow direction

It is possible to change the movable range of the louver on the air outlet from the wired remote controller. Once the top and bottom position is set, the louver will swing within the range between the top and the bottom when swing operation is chosen. It is also possible to apply different setting to each louver.

- 1 Stop the air conditioner and press **SET** button and **LOUVER** button simultaneously for three seconds or more.

The following is displayed if the number of the indoor units connected to the remote controller is 1 to 4.

"DATA LOADING"

No.1 ▲

The following is displayed if the number of the indoor units connected to the remote controller are more than one

"SELECT 1/U"

1/0000 ▲

- 2 Press **▲** or **▼** button.(selection of indoor unit)

Select the indoor unit of which the louver is set.

[EXAMPLE]

1/0000 ▲

1/0003 ▲

- 3 Press **SET** button. (determination of indoor unit)

Selected indoor unit is fixed.

[EXAMPLE]

1/0001 *

"DATA LOADING"

No.1 ▲

NOTICE

- For FDT type, in case the louver No to be set is uncertain, set any louver temporarily. The louver will swing once when the setting is completed and it is possible to confirm the louver No and the position. After that, choose the correct louver No and set the top and bottom position.

- 4 Press **▲** or **▼** button. (selection of louver No.)

Select the louver No. to be set according to the right figure.

[EXAMPLE]

No.1 ▲

No.2 ▲

No.3 ▲

No.4 ▼

- 5 Press **SET** button. (Determination of louver No.)

The louver No. to be set is confirmed and the display shows the upper limit of the movable range.

[EXAMPLE] If No.1 louver is selected,

No.1 UPPER2 ▲ (current upper limit position)

- 6 Press **▲** or **▼** button. (selection of upper limit position)

Select the upper limit of louver movable range.

"position 1" is the most horizontal, and "position 6" is the most downward.

"position --" is to return to the factory setting. If you need to change the setting to the default setting, use "position --".

No.1 UPPER1 ▼ (the most horizontal)

No.1 UPPER2 ▲

No.1 UPPER3 ▲

No.1 UPPER4 ▲

No.1 UPPER5 ▲

No.1 UPPER6 ▲ (the most downwards)

No.1 UPPER-- ▲ (return to the default setting)

- 7 Press **SET** button (Fixing of the upper limit position)

The upper limit position is fixed and the setting position is displayed for two seconds. Then proceed to lower limit position selection display.

[EXAMPLE]

No.1 UPPER2

No.1 LOWER2 (shows current setting)

- 8 Press **▲** or **▼** button (Selection of lower limit position)

Select the lower limit position of louver.

"position 1" is the most horizontal, and "position 6" is the most downward.

"position --" is to return to the factory setting. If you need to change the setting to the default setting, use "position --".

No.1 LOWER1 ▼ (the most horizontal)

No.1 LOWER2 ▲

No.1 LOWER3 ▲

No.1 LOWER4 ▲

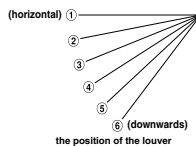
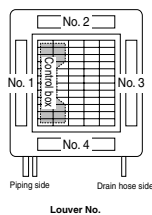
No.1 LOWER5 ▲

No.1 LOWER6 ▲ (the most downwards)

No.1 LOWER-- ▲ (return to the default setting)



2•4•6•8 1
3•5•7•9

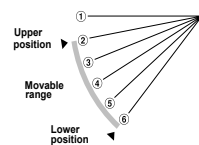


- 9 Press **SET** button (Fixing of the lower limit position)

Upper limit position and lower limit position are fixed, and the set positions are displayed for two seconds, then setting is completed.

- After the setting is completed, the louver which was set moves from the original position to the lower limit position, and goes back to the original position again. (This operation is not performed if the indoor unit and/or indoor unit fan is in operation.)

[Example]
No.1 1/2 1/6 (displayed for two seconds)
SET COMPLETE
No.1 ▲



- 10 Press **ON/OFF** button.

Louver adjusting mode ends and returns to the original display.

Caution

- If the upper limit position number and the lower limit position number are set to the same position, the louver is fixed at that position auto swing does not function.

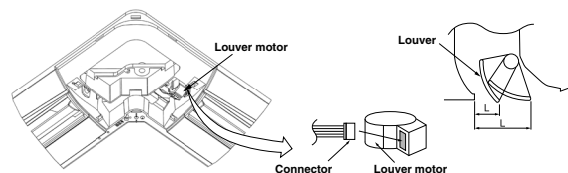
ATTENTION

- If you press **RESET** button during settings, the display will return to previous display. If you press **ON/OFF** button during settings, the mode will be ended and return to original display, and the settings that have not been completed will become invalid.

When plural remote controllers are connected, louver setting operation cannot be set by slave remote controller.

If it is necessary to fix the louver position manually, follow the procedure mentioned below.

1. Shut off the main power switch.
2. Unplug the connector of the louver motor which you want to fix the position. Make sure to insulate unplugged connectors electrically with a vinyl tape.
3. Adjust the louver position slowly by hand so as to be within the applicable range mentioned below table.



<Range of louver setting>

Vertical airflow direction	Horizontal 0°	Downwards 45°
Dimension L (mm)	43	26

※ It can be set between 26~43mm freely.

Caution

- Any automatic control or operation from the remote controller will be disabled on the louver whose position is fixed in the above way.
- Do not set a louver beyond the specified range. Failure to observe this instruction may result in dripping, dew condensation, the fouling of the ceiling and the malfunctioning of the unit.

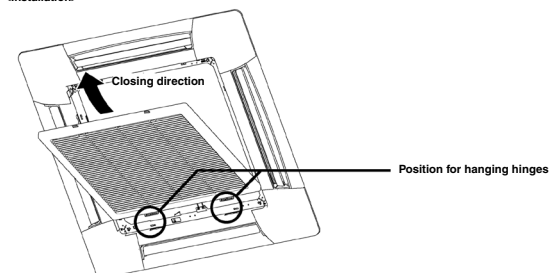
⑩ Attaching the air return grille

There is no orientation on attaching the air return grille onto the panel.

To attach the air return grille, follow the procedure described in **③ Removing the air return grille** in the reverse order.

1. Hang the hooks of the air return grille in the hole of the panel. (The hooks of the grille can be hanged in any four side of the panel.)
2. After the grille is hanged, close the grille while the stoppers on the grille (2 places) are kept pressed to "OPEN" direction. When the grille comes to the original position, release the stoppers to hold the grille. Make sure to hear the sound of "CLICK" in both stoppers.

<Installation>



Caution

- Attaching the air return grille from the hinge side.
- Be careful in air return grille attaching, unstable attaching may cause grille falling.
- Repair or replace the distorted, broken stopper at once, or the grille falling may occur.

(b) Ceiling cassette-4way compact type (FDTC)

PJA012D781

① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Accessory items

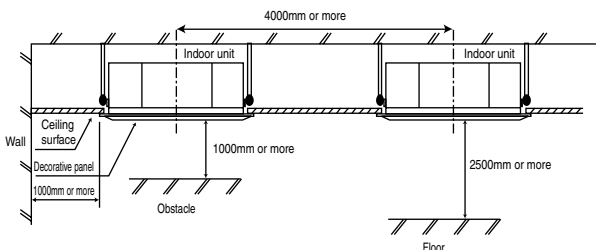
For unit hanging		For refrigerant pipe			For drain pipe			
Flat washer (M10)	Level gauge (Insulation)	Pipe cover(big)	Pipe cover (small)	Strap	Pipe cover(big)	Pipe cover (small)	Drain hose	Hose clamp
8	4	1	1	4	1	1	1	1
For unit hanging	For adjustment in holding in the unit's main body	For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain hose mounting

② Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.
This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.
If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
(A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- If there are 2 units of wireless type, keep them away for more than 5m to avoid malfunction due to cross communication.
- When plural indoor units are installed nearby, keep them away for more than 4m.

Space for installation and service

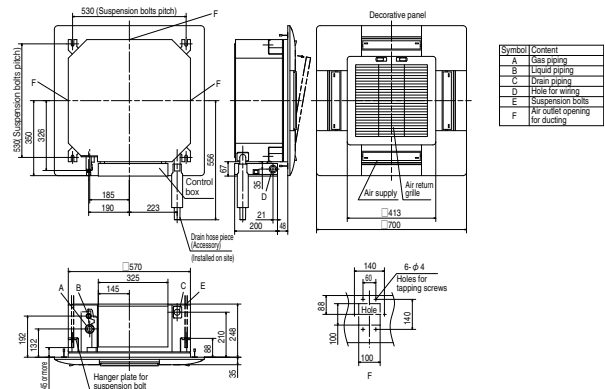
- When it is not possible to keep enough space between indoor unit and wall or between indoor units, close the air supply port where it is not possible to keep space and confirm there is no short circuit of airflow.
- Install the indoor unit at a height of more than 2.5m above the floor.



③ Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
 - For grid ceiling
When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
 - In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10 or M8) on site.

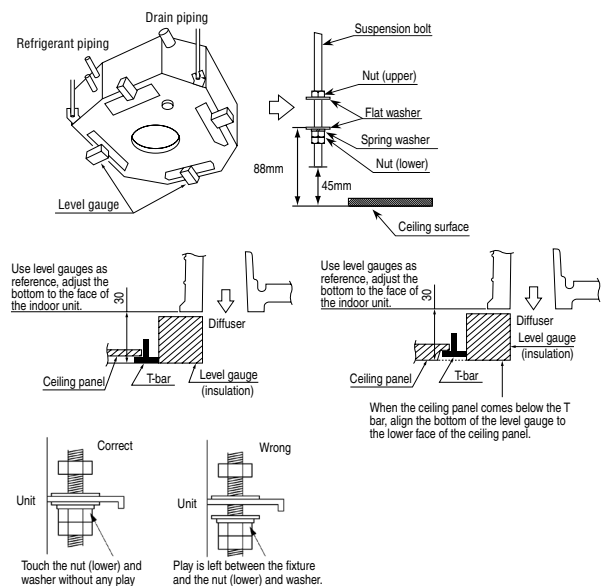
Ceiling opening, Suspension bolts pitch, Pipe position



④ Installation of indoor unit

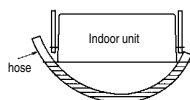
Work procedure

- This unit is designed for 2 x 2 grid ceiling.
If necessary, please detach the T bar temporarily before you install it.
If it is installed on a ceiling other than 2 x 2 grid ceiling, provide an inspection port on the control box side.
- Arrange the suspension bolt at the right position (530mmx530mm).
- Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.
- Ensure that the lower end of the suspension bolt should be 45mm above the ceiling plane.
Temporarily put the four lower nuts 88mm above the ceiling plane and the upper nuts on distant place from the lower nuts in order not to obstruct hanging the indoor unit or adjust the indoor unit position, and then hang the indoor unit.



④ Installation of indoor unit (continued)

- Make sure to install the indoor unit horizontally. Confirm the levelness of the indoor unit with a level gauge or transparent hose filled with water. Keep the height difference at both ends of the indoor unit within 3mm.
- Tighten four upper nuts and fix the unit after height and levelness adjustment.



Caution

- Do not adjust the height by adjusting upper nuts. It will cause unexpected stress on the indoor unit and it will lead to deformation of the unit, failure of attaching a panel, and generating noise from the fan.
- Make sure to install the indoor unit horizontally and set the gap between the unit underside and the ceiling plane properly. Improper installation may cause air leakage, dew condensation, water leakage and noise.
- Even after decorative panel attached, still the unit height can be adjusted finely. Refer to the installation manual for decorative panel for details.
- Make sure there is no gap between decoration panel and ceiling surface, and between decoration panel and the indoor unit. The gap may cause air leakage, dew condensation and water leakage.
- In case decorative panel is not installed at the same time, or ceiling material is installed after the unit installed, put the cardboard template for installation attached on the package (packing material of cardboard box) on the bottom of the unit in order to avoid dust coming into the indoor unit.

⑤ Refrigerant pipe

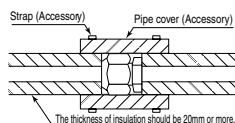
Caution

- Use the new refrigerant pipe.
 - When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation.
 - In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
 - Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
 - Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
 - Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - Incomplete insulation may cause dew condensation or water dropping.
- As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



⑥ Drain pipe

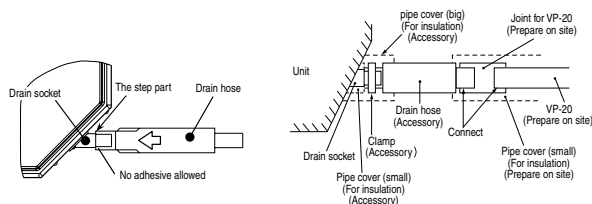
Caution

- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

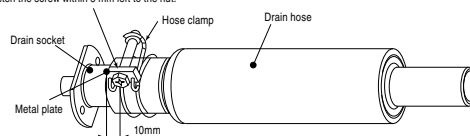
⑥ Drain pipe (continued)

Work procedure

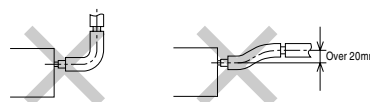
- Make sure to insert the drain hose (the end made of soft PVC) to the end of the step part of drain socket.
 - Attach the hose clamp to the drain hose around 10mm from the end, and fasten the screw within 5mm left to the nut.
 - Do not apply adhesives on this end.



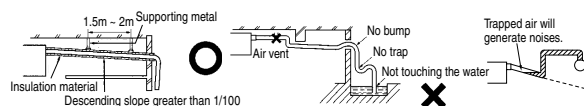
Fasten the screw within 5 mm left to the nut.



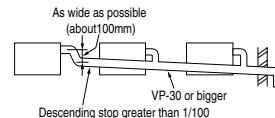
- Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-20 pipe (prepare on site).
 - As for drain pipe, apply VP-20 made of rigid PVC which is on the market.
 - Make sure that the adhesive will not get into the supplied drain hose.
 - It may cause the flexible part broken after the adhesive is dried up and gets rigid.
 - Do not bend or make an excess offset on the drain hose as shown in the picture.
 - Bend or excess offset will cause drain leakage.



- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
 - Do not set up air vent.



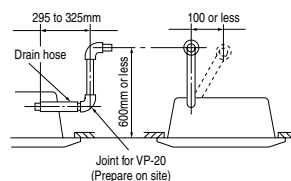
- When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.



- Insulate the drain pipe.
 - Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
 - After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

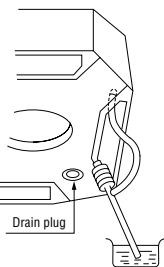
- The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



⑥ Drain pipe (continued)

Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan. Check if the motor sound of drain pump is normal or not.
 - Do drain test even if installation of heating season.
 - For new building cases, make sure to complete the test before hanging the ceiling.
- Pour water of about 1000cc into the drain pan in the indoor unit by pump so as not to get the electrical component wet.
 - Make sure that water is drained out properly and there is no water leakage from any joints of the drain pipe at the test.
Confirm that the water is properly drained out while the drain motor is operating. At the drain socket (transparent), it is possible to check if the water is drained out properly.
 - Unplug the drain plug on the indoor unit to remove remaining water on the drain pan after the test, and re-plug it. And insulate the drain pipe properly finally.



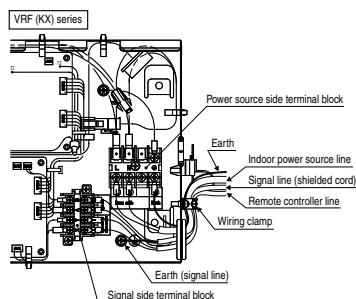
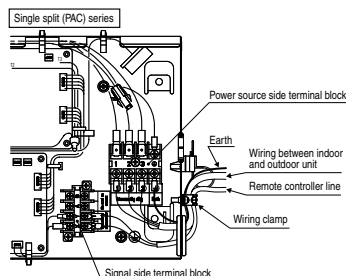
Drain pump operation

- In case electrical wiring work finished
Drain pump can be operated by remote controller (wired).
For the operation method, refer to **Operation for drain pump** in the installation manual for wiring work.
- In case electrical wiring work not finished
Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector CNB is disconnected, and then the power supply (220-240VAC on the terminal block [① and ②] or [Ⓛ and Ⓝ]) is turned ON.
Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

⑦ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

- Remove a lid of the control box (1 screws).
- Hold each wiring inside the unit and fasten them to terminal block securely.
- Fix the wiring with clamp.
- Install a lid of the control box back to original place.



⑧ Panel installation

- After wiring work finished, install the panel on the indoor unit.
- Refer to panel installation manual for details. (see next page)

Accessory items

1	Hook		1 piece	For fixing temporarily
2	Chain		2 pieces	
3	Bolt		4 pieces	For installing the panel
4	Screw		1 piece	For attaching a hook
5	Screw		2 pieces	For attaching a chain

- Attach the panel on the indoor unit after electrical wiring work.
- Refer to attached manual for panel installation for details.

⑨ Check list after installation

- Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

PANEL INSTALLATION MANUAL

Please read this manual together with the indoor unit's installation manual.

PJA012D783

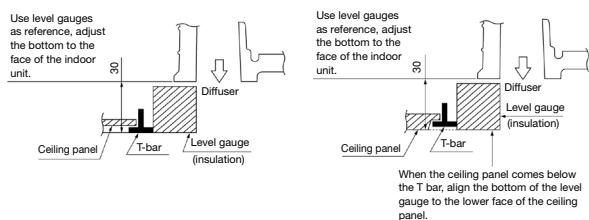
WARNING

● Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.
Loose connection or hold will cause abnormal heat generation or fire.

● Make sure the power supply is turned off when electric wiring work.
Otherwise, electric shock, malfunction and improper running may occur.

① Checking the indoor unit installation position

- Read this manual together with the air conditioner installation manual carefully.
- Check if the gap between the ceiling plane and the indoor unit is correct by inserting the level gauge into the air outlet port of the indoor unit. (See below drawing)
- Adjust the installation elevation if necessary.
- Remove the level gauge before you attach the panel.

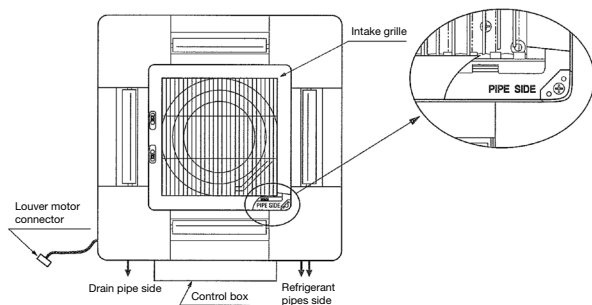


② Orientation of the panel and return air grille installation

- Take note that there is an orientation to install the panel.
 - Attach the panel with the orientation shown on the below.
 - Align the "PIPE SIDE" mark (on the panel) with the refrigerant pipes on the indoor unit.
- The intake grille can also be attached in a rotated position by 90 degrees.

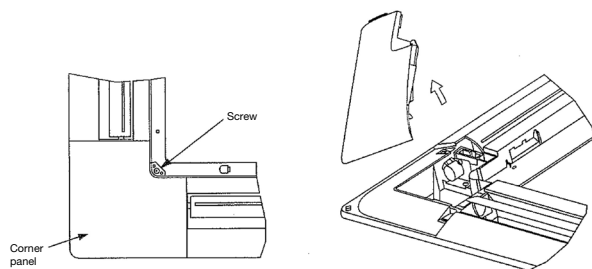
Caution

In case the orientation of the panel is not correct, it will lead to air leakage and also it is not possible to connect the louver motor wiring.



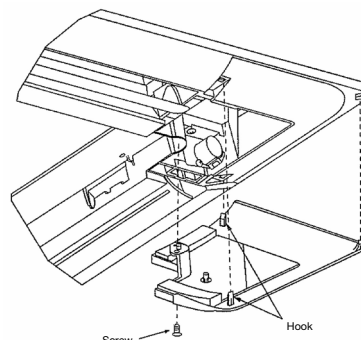
③ Removing a corner panel

- Unscrew the screw from the corner area, pull the corner panel toward the direction indicated by the arrow mark.



④ Attaching a corner panel

- First insert the part "a" of a corner panel into the part "A" of the cover panel, engage two hooks and tighten the screw.



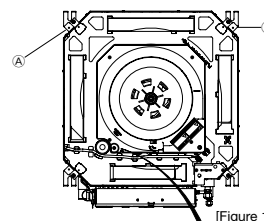
⑤ Panel installation

- Install the panel on the unit after completing the electrical wiring.

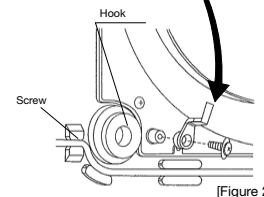
Accessories

1	Hook		1 piece	For fixing temporarily
2	Chain		2 pieces	
3	Screw		4 pieces	For hoisting the panel
4	Screw		1 piece	For attaching a hook
5	Screw		2 pieces	For attaching a chain

- Screw in two bolts out of the four supplied with the panel by about slightly less than 5mm.
● mark (A) (B) [Figure 1]



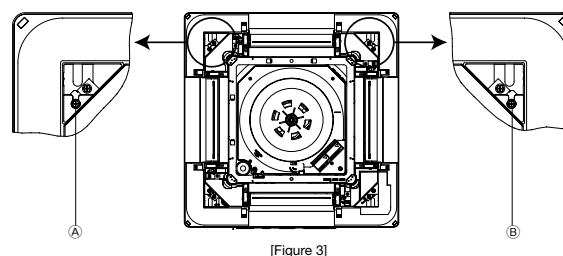
- Attach the hook supplied with the panel to the main body with the hook fixing screw (1 screw). [Figure 2]



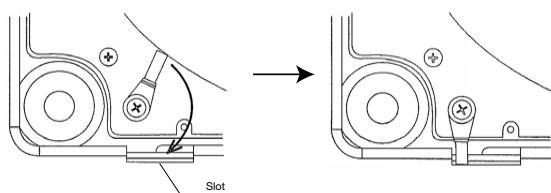
- Open the intake grille.

- Please remove the screw of a corner panel and remove a corner panel. (four places)

- A panel is hooked on two bolts ● mark (A) (B). [Figure 3]



6. Please rotate a hook, put in the slot on the panel, and carry out fixing the panel temporarily. [Figure 4]

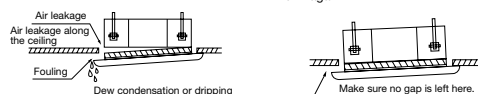


[Figure 4]

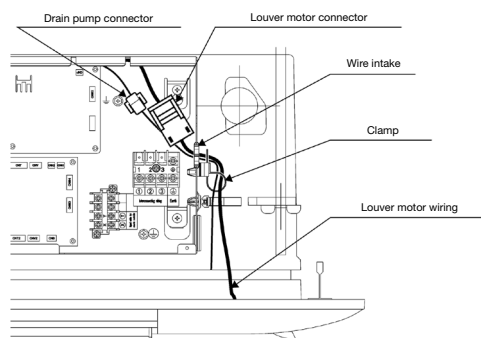
7. Tighten the two bolts used for fixing the panel temporarily and the other two.

Caution

- Improperly tightened hanging bolts can cause the problems listed below, so make sure that you have tightened them securely.
- If there is a gap remaining between the ceiling and the decorative panel even after the hanging bolts are tightened, adjust the installation level of the indoor unit again.

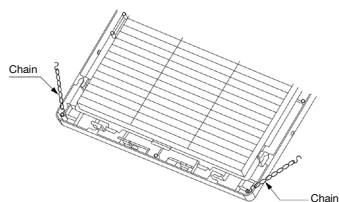


8. Please open the lid of a control box.
9. Like drain pump wiring, please band together by the clamp and put in louver motor wiring into a control box. [Figure 5]
10. Please connect a louver motor connector. [Figure 5]



[Figure 5]

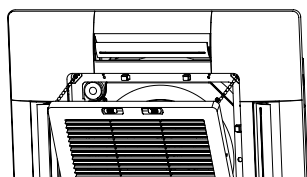
11. Attach two chains to the intake grille with two screws. [Figure 6]



[Figure 6]

12. Replace the corner panels. Please also close a chain with a screw together then. [Figure 7]

13. Close the intake grille.



[Figure 7]

Caution

Make sure there is no stress given on the panel when adjusting the height of the indoor unit to avoid unexpected distortion. It may cause the distortion of panel or failing to close the air return grille.

⑦ How to set the airflow direction

It is possible to change the movable range of the louver on the air outlet from the wired remote controller. Once the top and bottom position is set, the louver will swing within the range between the top and the bottom when swing operation is chosen. It is also possible to apply different setting to each louver.

- 1 Stop the air conditioner and press **SET** button and **LOUVER** button simultaneously for three seconds or more.

The following is displayed if the number of the indoor units connected to the remote controller is one. Go to step 4.

"DATA LOADING"
↓
"No.1"

The following is displayed if the number of the indoor units connected to the remote controller are more than one

"b SELECT I/O"
↓
"1/000"

- 2 Press **▲** or **▼** button. (selection of indoor unit)

Select the indoor unit of which the louver is set.

[EXAMPLE]

"1/000" ▲ ← "1/001" ▼ ← "1/002" ▼ ←

"1/003" ▼

- 3 Press **SET** button. (determination of indoor unit)

Selected indoor unit is fixed.

[EXAMPLE]

"1/001" (displayed for two seconds)

"DATA LOADING"
↓
"No.1"

- 4 Press **▲** or **▼** button. (selection of louver No.)

Select the louver No. to be set according to the right figure.

[EXAMPLE]

"No.1" ▲ ← "No.2" ▼ ← "No.3" ▼ ←

"No.4" ▼

- 5 Press **SET** button. (Determination of louver No.)

The louver No. to be set is confirmed and the display shows the upper limit of the movable range.

[EXAMPLE] If No.1 louver is selected,

"No.1 UPPER2" ▼ ← current upper limit position

- 6 Press **▲** or **▼** button. (selection of upper limit position)

Select the upper limit of louver movable range.

"position 1" is the most horizontal, and "position 6" is the most downward.

"position --" is to return to the factory setting. If you need to change the setting to the default setting, use "position --".

"No.1 UPPER1" ▼ (the most horizontal)

"No.1 UPPER2" ▼

"No.1 UPPER3" ▼

"No.1 UPPER4" ▼

"No.1 UPPER5" ▼

"No.1 UPPER6" ▼ (the most downwards)

"No.1 UPPER--" ▲ (return to the default setting)

- 7 Press **SET** button. (Fixing of the upper limit position)

The upper limit position is fixed and the setting position is displayed for two seconds. Then proceed to lower limit position selection display.

[EXAMPLE] "No.1 UPPER2" (displayed for two seconds)

"No.1 LOWER5" ▼ (shows current setting)

- 8 Press **▲** or **▼** button. (Selection of lower limit position)

Select the lower limit position of louver.

"position 1" is the most horizontal, and "position 6" is the most downwards.

"position --" is to return to the factory setting. If you need to change the setting to the default setting, use "position --".

"No.1 LOWER1" ▼ (the most horizontal)

"No.1 LOWER2" ▼

"No.1 LOWER3" ▼

"No.1 LOWER4" ▼

"No.1 LOWER5" ▼

"No.1 LOWER6" ▼ (the most downwards)

"No.1 LOWER--" ▲ (return to the default setting)

- 9 Press **SET** button. (Fixing of the lower limit position)

Upper limit position and lower limit position are fixed, and the set positions are displayed for two seconds, then setting is completed.

After the setting is completed, the louver which was set moves from the original position to the lower limit position, and goes back to the original position again. (This operation is not performed if the indoor unit and/or indoor unit fan is in operation.)

[EXAMPLE] "No.1 LOWER1" (displayed for two seconds)

SET COMPLETE

"No.1" ▲

- 10 Press **ON/OFF** button.

Louver adjusting mode ends and returns to the original display.

Caution

If the upper limit position number and the lower limit position number are set to the same position, the louver is fixed at that position auto swing does not function.

ATTENTION

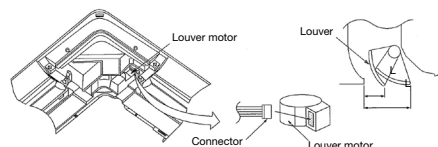
If you press **RESET** button during settings, the display will return to previous display.

If you press **ON/OFF** button during settings, the mode will be ended and return to original display, and the settings that have not been completed will become invalid.

When plural remote controllers are connected, louver setting operation cannot be set by slave remote controller.

If it is necessary to fix the louver position manually, follow the procedure mentioned below.

- Shut off the main power switch.
- Unplug the connector of the louver motor which you want to fix the position. Make sure to insulate unplugged connectors electrically with a vinyl tape.
- Adjust the louver position slowly by hand so as to be within the applicable range mentioned below table.



<Range of louver setting>


Vertical airflow direction	Horizontal 23°	Downwards 50°
Dimension L (mm)	40	24

※ It can be set between 24~40mm freely.

Caution

- Any automatic control or operation from the remote controller will be disabled on the louver whose position is fixed in the above way.
- Do not set a louver beyond the specified range. Failure to observe this instruction may result in dripping, dew condensation, the fouling of the ceiling and the malfunctioning of the unit.

(C) Ceiling cassette-2way type (FDTW)

PJB012D227 






① Before installation








● Install correctly according to the installation manual.

● Confirm the following points:

- ☐ Unit type/Power supply specification ☐ Pipes/Wires/Small parts ☐ Accessory items

Accessory item

For unit hanging				For refrigerant pipe			
Flat washer (M10)	Paper pattern	Pipe cover (big)	Pipe cover (small)	Strap			
							
4	1	1	1	4			
For unit hanging	For unit hanging and adjustment	For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing			

For drain pipe				For wiring fixing		
Pipe cover (big)	Pipe cover (small)	Drain hose	Hose clamp	Flat washer (M4)	Nut (M4)	Bolt (M4)
						
1	1	1	1	1	1	1
For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain pipe mounting			

② Selection of installation location for the indoor unit

① Select the suitable areas to install the unit under approval of the user.

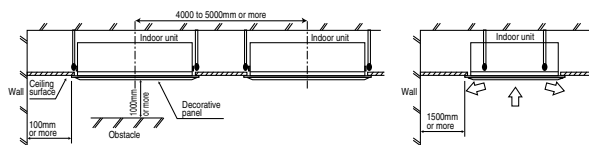
- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.
- If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
- Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
- (A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)

② Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

③ When plural indoor units are installed nearby, keep them away for more than 4 to 5m.

Space for installation and service

● Install the indoor unit at a height of more than 2.5m above the floor.



③ Preparation before installation (continued)

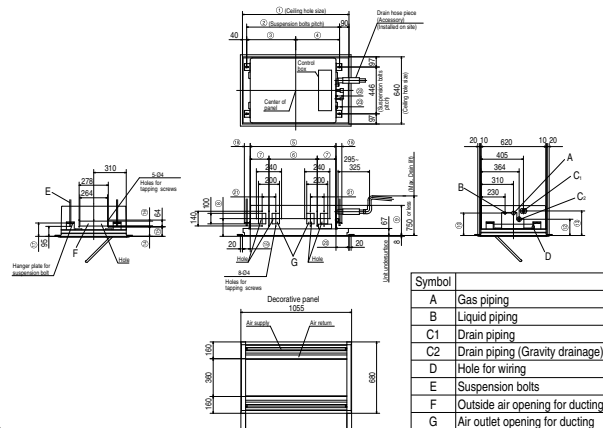
● If placing the unit with the top plate facing up (in the reversed orientation of packaging) is unavoidable, use care so that the area other than supporting member of the unit, will not be subjected to excessive loads. (A heavy load on the central part of this area could cause a damage to the filter).

Ceiling opening, Suspension bolts pitch, Pipe position

UNIT: mm

	Type		
	28 ~ 56	71, 90	112, 140
①	1015	1260	1730
②	885	1130	1600
③	468	590	825
④	417	540	775
⑤	817	1054	1524
⑥	460	460	240
⑦	178	382	672
⑧	161	240	255
⑨	287	342	357
⑩	214	226	241
⑪	405	410	410
⑫	155	155	170

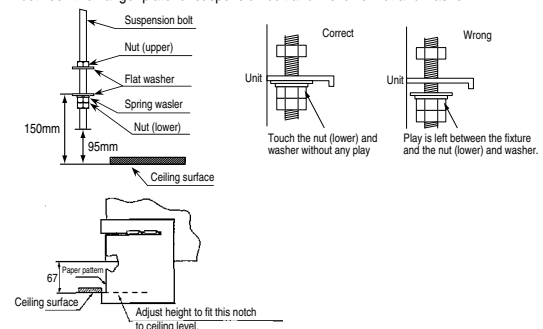
	Type		
	28 ~ 56	71, 90	112, 140
⑬	234	284	299
⑭	98	95	110
⑮	91	88	103
⑯	47	50	50
⑰	127	127	137
⑱	56	66	66
⑲	74	78	78
⑳	124	128	128
㉑	130	-	-
㉒	70	82.5	80.5
㉓	60	65	70



④ Installation of indoor unit

Work procedure

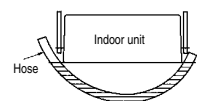
1. Cut an installation opening in the ceiling to the measurements specified for ceiling opening.
2. Set the suspension bolts in place.
※ The suspension bolts pitch center do not match the panel center.
3. Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.
4. Ensure that the lower end of the suspension bolt should be 50mm above the ceiling plane. Temporarily put the four lower nuts 150mm above the ceiling plane and the upper nuts on distant place from the lower nuts in order not to obstruct hanging the indoor unit or adjust the indoor unit position, and then hang the indoor unit.
5. Adjust the indoor unit position after hanging it by inserting the level gauge attached on the package into the air supply port and checking if the gap between the ceiling plane and the indoor unit is appropriate. In order to adjust the indoor unit position, adjust the lower nuts while the upper nuts are put on distant place. Confirm there is no backlash between the hanger plate for suspension bolt and the lower nut and washer.



6. Make sure to install the indoor unit horizontally. Confirm the levelness of the indoor unit with a level gauge or transparent hose filled with water. Keep the height difference at both ends of the indoor unit within 3mm.
7. Tighten four upper nuts and fix the unit after height and levelness adjustment.

Caution

- Do not adjust the height by adjusting upper nuts. It will cause unexpected stress on the indoor unit and it will lead to deformation of the unit, failure of attaching a panel, and generating noise from the fan.
- Make sure to install the indoor unit horizontally and set the gap between the unit underside and the ceiling plane properly. Improper installation may cause air leakage, dew condensation, water leakage and noise.
- Even after decorative panel attached, still the unit height can be adjusted finely. Refer to the installation manual for decorative panel for details.



⑤ Refrigerant pipe

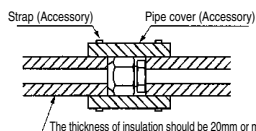
Caution

- Use the new refrigerant pipe.
When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation.
In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
※ Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
(Gas may come out at this time, but it is not abnormal.)
● Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
※ Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
※ Do a flare connection as follows:
● Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
● When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
● Make sure to insulate both gas pipes and liquid pipes completely.
※ Incomplete insulation may cause dew condensation or water dropping.
- Refrigerant is charged in the outdoor unit.
As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



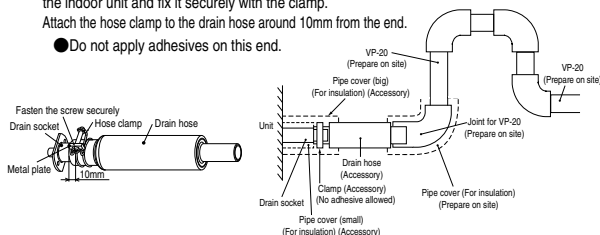
⑥ Drain pipe

Caution

- Install the drain pipe according to the installation manual in order to drain properly.
Imperfection in draining may cause flood indoors and wetting the household goods etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

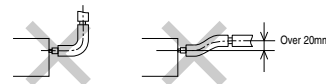
Work procedure

- Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp.
Attach the hose clamp to the drain hose around 10mm from the end.
● Do not apply adhesives on this end.

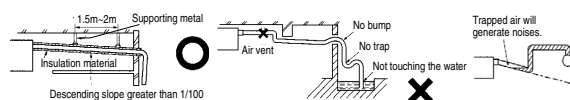


⑥ Drain pipe (continued)

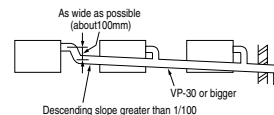
- Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-20 pipe (prepare on site).
※ As for drain pipe, apply VP-20 made of rigid PVC which is on the market.
● Make sure that the adhesive will not get into the supplied drain hose.
It may cause the flexible part broken after the adhesive is dried up and gets rigid.
● The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
● Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
● Do not set up air vent.



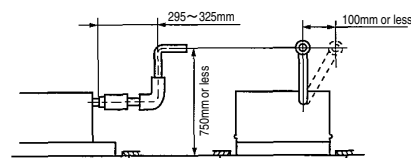
- When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.



- Insulate the drain pipe.
● Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
※ After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

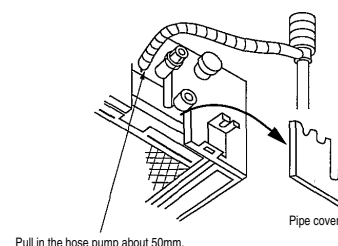
Drain up

- The position for drain pipe outlet can be raised up to 750mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan. Check if the motor sound of drain pump is normal or not.
 - Do drain test even if installation of heating season.
 - For new building cases, make sure to complete the test before hanging the ceiling.
- Pour water of about 1000cc into the drain pan in the indoor unit by pump so as not to get the electrical component wet.
 - Make sure that water is drained out properly and there is no water leakage from any joints of the drain pipe at the test.
Confirm that the water is properly drained out while the drain motor is operating. At the drain socket (transparent), it is possible to check if the water is drained out properly.
 - Unplug the drain plug on the indoor unit to remove remaining water on the drain pan after the test, and re-plug it. And insulate the drain pipe properly finally.



⑥ Drain pipe (continued)

Drain pump operation

- In case electrical wiring work finished

Drain pump can be operated by remote controller (wired).

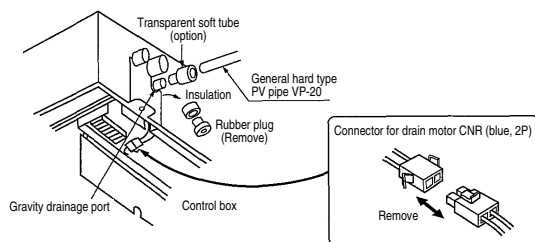
For the operation method, refer to **Operation for drain pump** in the installation manual for wiring work.

- In case electrical wiring work not finished

Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector CNB is disconnected, and then the power supply (230VAC on the terminal block ① and ②) is turned ON. Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

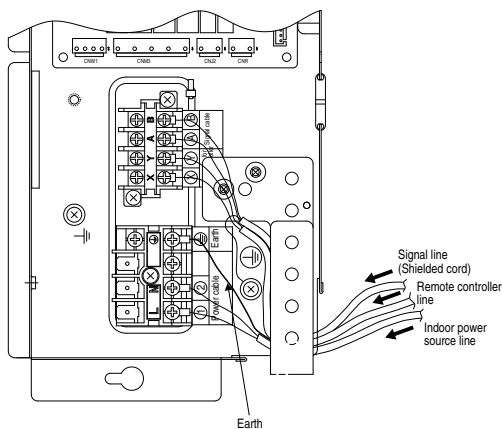
In case of gravity drainage

1. Remove the rubber plug and insulation from the gravity drainage port.
2. Connect the drain hose (VP-20) using the Gravity drainage connecting tube (option) and secure firmly with a clamp.
(* If the drain tube is directly connected with the gravity drainage port, the drain pan could not be removed.)
3. Find CNR drain motor connector (blue, 2P) in the control box, and remove it.
(* If the unit is used with this connector being connected, the drainage will go out through the standard drain connecting port, causing leaks.)



⑦ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
Be sure to use an exclusive circuit.
 - Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
 - Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
 - Be sure to do D type earth work.
 - For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
1. Remove a lid of the control box (2 screws).
 2. Hold each wiring inside the unit and fasten them to a terminal block securely.
 3. Fix the wiring with supplied screw, nut and washer.
 4. Install the removed parts back to original place.

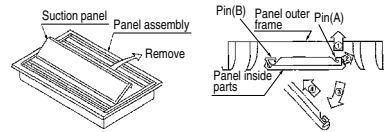


⑧ Panel installation

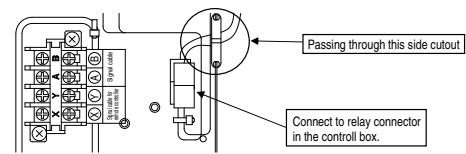
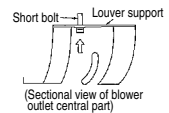
- Attach the panel on the indoor unit after electrical wiring work.

Work procedure

1. Using the paper pattern attached as an accessory, check to ensure the unit height and ceiling opening are finished true to the specified dimensions.
Remove the suction panel from the panel assembly. (Ref. below diagram)



2. Among the bolts which are attached to the panel, 2 screw must be inserted 5mm at the diagonal positions.
3. Hang the panel on the 2 bolts and temporarily tighten them.
4. Tighten the temporarily tightened 2 bolts and the remaining 2 bolts.
5. Tighten the 2 short bolts (15mm) at the lower supporting section of blower outlet central part.
6. Connect the connector of lower motor and limit switch through the side cutout of control box.




7. When the louver motor does not operate by the remote controller operation, check the connection of the connector, turn off the power for 10 seconds or longer, and reset.

⑨ Check list after installation

- Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	










(d) Ceiling cassette-1way type (FDTS)

PJC012D012 

① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

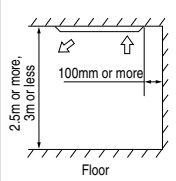
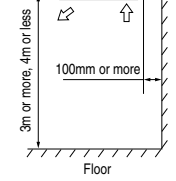
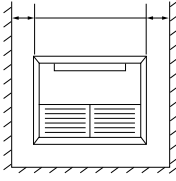
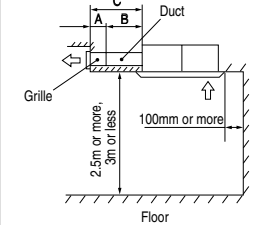
Accessory item

For main unit suspension	For refrigerant			For panel	For drain pipe			
Paper pattern	Pipe cover (big)	Pipe cover (small)	Strap	Round machine screw (M5 x 35)	Pipe cover (big)	Pipe cover (small)	Drain hose	Hose clamp
								
2 pcs (One for left and one for right)	1 pcs For heat insulation of gas pipe	1 pcs For heat insulation of liquid pipe	4 pcs For pipe cover fixing	7 pcs Fixing of direct air flow panel	1 pcs For heat insulation of drain socket	1 pcs For heat insulation of drain socket	1 pcs For drain pipe connecting	1 pcs For drain hose mounting

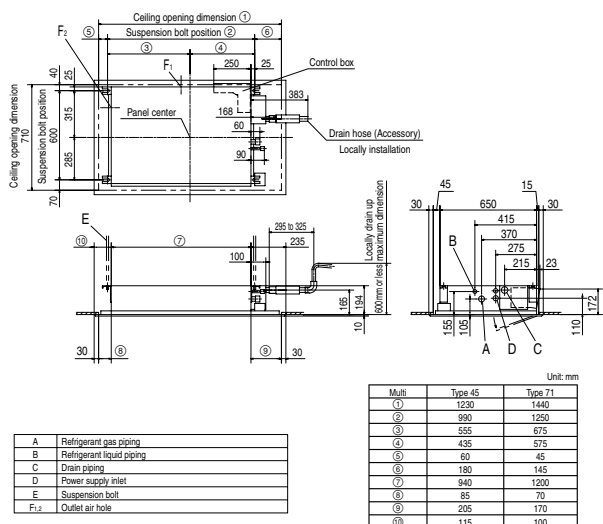
② Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.
This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.
If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
 - (A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- When plural indoor units are installed nearby, keep them away for more than 4 to 5m.

Space for installation and service

Standard installation	High-ceiling installation (40 to 80 only)	Each installation method in common use																
 <p>2.5m or more, 3m or less</p> <p>100mm or more</p> <p>Floor</p>	 <p>3m or more, 4m or less</p> <p>100mm or more</p> <p>Floor</p>	 <p>100mm or more</p> <p>100mm or more</p>																
Low-ceiling installation																		
 <p>2.5m or more, 3m or less</p> <p>100mm or more</p> <p>Floor</p>	<table><tr><th>Symbol</th><th colspan="3">Unit: mm</th></tr><tr><th>Grille and duct</th><th>A</th><th>B</th><th>C</th></tr><tr><td>Separately solid Mitsubishi standard</td><td>90</td><td>150 to 200</td><td>240 to 290</td></tr><tr><td>Purchased locally</td><td colspan="3">C = 400 or less</td></tr></table>		Symbol	Unit: mm			Grille and duct	A	B	C	Separately solid Mitsubishi standard	90	150 to 200	240 to 290	Purchased locally	C = 400 or less		
Symbol	Unit: mm																	
Grille and duct	A	B	C															
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Purchased locally	C = 400 or less																	

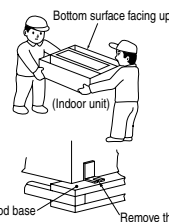
③ Preparation before installation (continued)



④ Installation of indoor unit

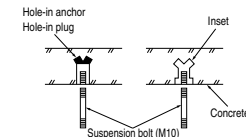
Delivery

- Deliver the unit as close as possible to the installation location without unpacking it.
- If unpacked and delivery can not be avoided, use a nylon sling or a rope with pads placed where the rope contacts the unit so it is not scratched.
- To place the unit on the floor after unpacking, be sure that the unit bottom surface is facing up. (To avoid damage to the unit bottom surface as it is made of a styrene foam.)
- The unit and wood are fixed with two wood screws. When unpacking them, remove the two wood screws.



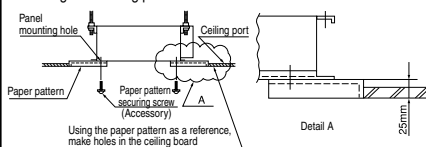
Securing suspension bolts

Tighten the bolts firmly according to the method shown in the drawing or other suitable methods.

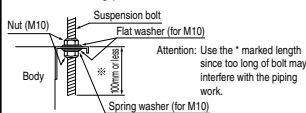


Installation

○ Ceiling hole drilling procedure



○ Unit mounting procedure



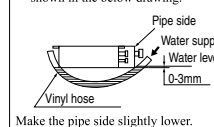
If the holes on the unit and the ceiling do not match, use a mounting bracket with oval hole to adjust the position.



<Horizontal adjustment>

Use a level or the following procedure to adjust horizontally.

- Adjust so that the bottom surface of the unit and the water level is as shown in the below drawing.



⑤ Refrigerant pipe

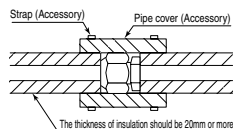
Caution

- Use the new refrigerant pipe.
When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation.
In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into the pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - Incomplete insulation may cause dew condensation or water dropping.
- Refrigerant is charged in the outdoor unit.
As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



⑥ Drain pipe

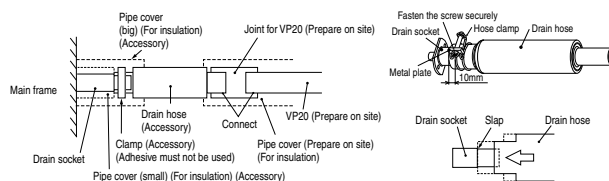
Caution

- Install the drain pipe according to the installation manual in order to drain properly.
Imperfection in draining may cause flood indoors and wetting the household goods etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

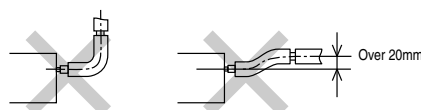
⑥ Drain pipe (continued)

Work procedure

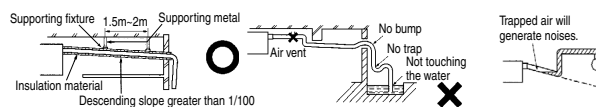
- Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp. Attach the hose clamp to the drain hose around 10mm from the end.
 - Do not apply adhesives on this end.



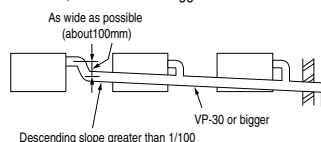
- Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-20 pipe (prepare on site).
 - As for drain pipe, apply VP-20 made of rigid PVC which is on the market.
 - Make sure that the adhesive will not get into the supplied drain hose. It may cause the flexible part broken after the adhesive is dried up and gets rigid.
 - The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close close to the unit as possible when connecting the drain pipe.
 - Do not set up air vent.



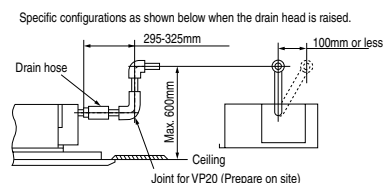
- When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.



- Insulate the drain pipe.
 - Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
 - After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

- The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.

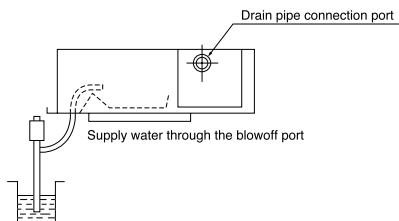


All piping work except above piping are performed in a similar normal drain piping.

⑥ Drain pipe (continued)

Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan. Check if the motor sound of drain pump is normal or not.
 - Do drain test even if installation of heating season.
 - For new building cases, make sure to complete the test before hanging the ceiling.
- Pour water of about 1000cc into the drain pan in the indoor unit by pump so as not to get the electrical component wet.
 - Make sure that water is drained out properly and there is no water leakage from any joints of the drain pipe at the test.
- Confirm that the water is properly drained out while the drain motor is operating. At the drain socket (transparent), it is possible to check if the water is drained out properly.
- Unplug the drain plug on the indoor unit to remove remaining water on the drain pan after the test, and re-plug it. And insulate the drain pipe properly finally.



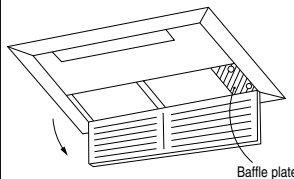
Drain pump operation

- In case electrical wiring work finished
Drain pump can be operated by remote controller (wired).
For the operation method, refer to **Operation for drain pump** in the installation manual for wiring work.
 - In case electrical wiring work not finished
Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector CNB is disconnected, and then the power supply (230VAC on the terminal block ① and ②) is turned ON.
- Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

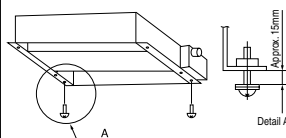
⑧ Panel installation

- Attach the panel on the indoor unit after electrical wiring work.
- Refer to attached manual for panel installation for details.

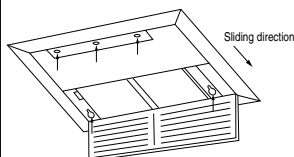
- Open the grille and remove the baffle plate.
(Loosing the two screws.)



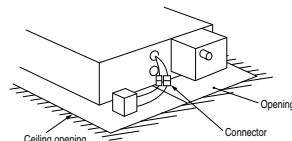
- Screw the two installation screws to the indoor unit.



- Hook the panel the two screws (-②), and slide the panel approximately 10mm along the allow in following figure. Screw left five installation screw to the indoor unit.



- Connect the connectors of lower motor and limit switch using "opening" space.



- Return the baffle plate at its original position.

- Close the grille.

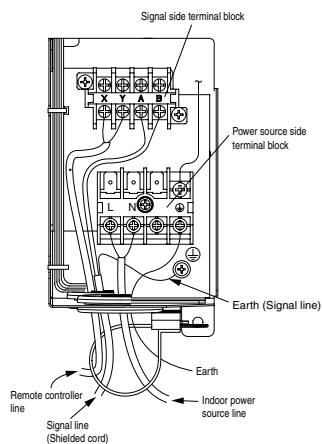
Confirm the grille fixed with a hook securely.

* The grille may take the liberty to open if grille is not fixed securely.

⑦ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

- Remove a lid of the control box (2 screws).
- Hold each wiring inside the unit and fasten them to terminal block securely.
- Fix the wiring with clamps.
- Install the removed parts back to original place.




⑨ Check list after installation

- Check the following items after all installation work completed.

Check if:	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	








(e) Ceiling cassette-1way compact type (FDTQ)

PJC012D116 

① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Accessory item

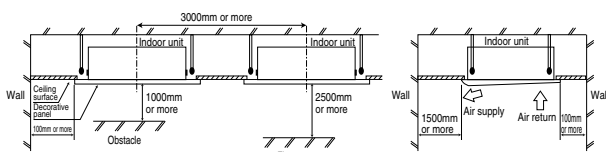
For refrigerant pipe			For drain pipe			
Pipe cover(big)	Pipe cover (small)	Strap	Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp
						
1	1	4	1	1	1	1
For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain hose mounting

② Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.
 This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.
 If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- When plural indoor units are installed nearby, keep them away for more than 3m.

Space for installation and service

- Install the indoor unit at a height of more than 2.5m above the floor.



③ Preparation before installation

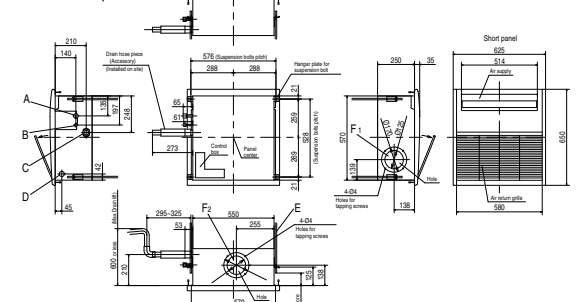
- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
 - For grid ceiling
 - When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
 - In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
 - When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

Ceiling opening, Suspension bolts pitch, Pipe position

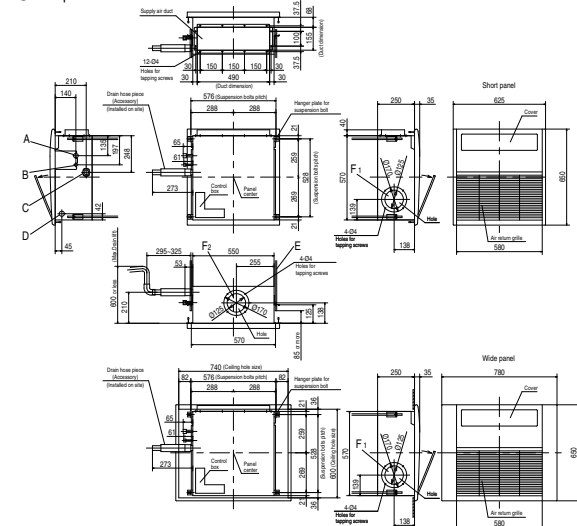
Symbol	Content
A	Gas piping
B	Liquid piping
C	Drain piping
D	Hole for wiring
E	Suspension bolts
F1.2	Outside air opening for ducting

③ Preparation before installation (continued)

● Direct blow panel



● Duct panel



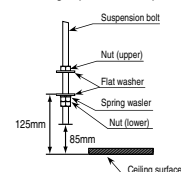
④ Installation of indoor unit

Work procedure

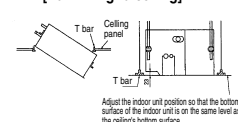
- In case of installing on a ceiling other than 2 x 2 grid ceiling, prepare a ceiling hole with the size of 600mm x 740mm.
 - Arrange the suspension bolt at the right position (528mm x 576mm).
 - Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.
 - Ensure that the lower end of the suspension bolt should be 85mm above the ceiling plane. Temporarily put the four lower nuts 125mm above the ceiling plane and the upper nuts on distant place from the lower nuts in order not to obstruct hanging the indoor unit or adjust the indoor unit position, and then hang the indoor unit.
 - Adjust the indoor unit position after hanging it so that the bottom surface of the indoor unit is on the same level as the ceiling (bottom surface of the T bar).
- The allowable gap between the bottom surface of the ceiling and that of the indoor unit is when the bottom surface of the indoor unit is no higher than 5mm.
 In order to adjust the indoor unit position, adjust the lower nuts while the upper nuts are put on distant place. Confirm there is no backlash between the hanger plate for suspension bolt and the lower nut and washer.

Caution

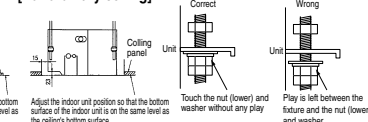
- Do not install the bottom surface of the indoor unit lower than the bottom surface of the ceiling.



[For 2 x 2 grid ceiling]

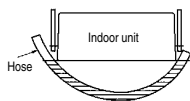


[For ordinary ceiling]



④ Installation of indoor unit (continued)

- Make sure to install the indoor unit horizontally. Confirm the levelness of the indoor unit with a level gauge or transparent hose filled with water. Keep the height difference at both ends of the indoor unit within 3mm.
- Tighten four upper nuts and fix the unit after height and levelness adjustment.



Caution

- Do not adjust the height by adjusting upper nuts. It will cause unexpected stress on the indoor unit and it will lead to deformation of the unit, failure of attaching a panel.
- Make sure to install the indoor unit horizontally and set the gap between the unit underside and the ceiling plane properly. Improper installation may cause air leakage, dew condensation, water leakage and noise.
- Make sure there is no gap between decoration panel and ceiling surface, and between decoration panel and the indoor unit. The gap may cause air leakage, dew condensation and water leakage.
- In case decorative panel is not installed at the same time, or ceiling material is installed after the unit installed, avoid dust coming into the indoor unit.

⑤ The indoor unit change procedure for duct type (continued)

Caution

- Take care that the static pressure does not exceed 30 Pa. The indoor unit has condensation owing to the decrease of air flow, may cause wetting the ceiling and household goods.

Request

- The duct should be minimum bends. (Make the bend radius as large as possible.)
- Conduct the duct work before ceiling attachment.

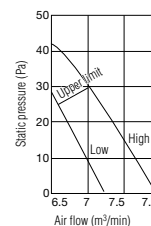
Bad example



Bad example



Good example



- Connecting duct for outside air intake

① Outside air intake

- Use the intake, which is easier for work, either at the rear or the side.

② Duct connection

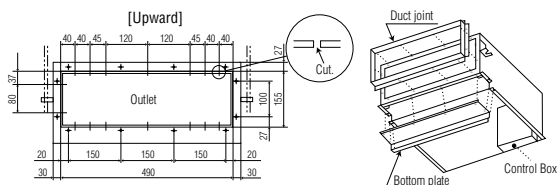
- Connect the 125 mm diameter duct, using the duct flange for 125mm diameter duct. (Clamp with band)
- Insulate the duct to prevent condensation.

⑤ The indoor unit change procedure for duct type

Prepare a duct panel.

(1) Drill hole for duct

- While referring to the dimensions, cut the insulation.
- Cut sheet metal for the hole, and drill hole.
- Install the duct joint with screws attached to the panel.
- Install the bottom plate with screws attached to the panel.



⑤ Set up as follows:

Changing the fan tap

Change the fan tap to the high speed by the remote controller.

[Method]

- Stop the operation of air conditioner. Press (SET) button and (MODE) button for 3 seconds at the same time.
- Select "I/U FUNCTION ▲" (Indoor Unit Function) and press (SET) button.
- Select "FAN SPEED SET" (Fan Speed Setting) of No. "02" and press (SET) button.
- Select "HIGH SPEED 1" (High Fan Speed 1) and press (SET) button.
- Press (POWER) button to exit.

As for details, refer to the installation manual of remote controller.

CATEGORY	NUMBER	FUNCTION	SETTING
I/U FUNCTION ▲	02	FAN SPEED SET	HIGH SPEED 1

Invalidating the louver switch

Invalidate the louver switch by the remote controller.

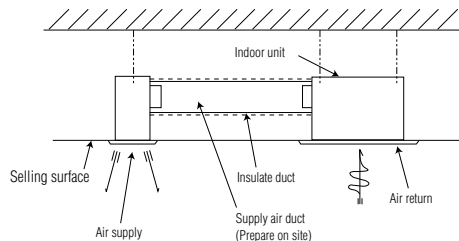
[Method]

- Stop the operation of air conditioner. Press (SET) button and (MODE) button for 3 seconds at the same time.
- Select "FUNCTION ▼" (Remote Controller Function) and press (SET) button.
- Select "LOUVER S/W" (Louver Switch Setting) of No. "07" and press (SET) button.
- Select "INVALID" (Louver Switch Invalid) and press (SET) button.
- Press (POWER) button to exit.

As for details, refer to the installation manual of remote controller.

CATEGORY	NUMBER	FUNCTION	SETTING
FUNCTION ▼	07	LOUVER S/W	INVALID

(2) Duct work



Request

- Calculate air flow and the static pressure to select the duct's length and shape.

⑥ Refrigerant pipe

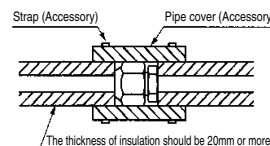
Caution

- Use the new refrigerant pipe.
 - When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation.
 - In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
 - Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - Incomplete insulation may cause dew condensation or water dropping.
- Refrigerant is charged in the outdoor unit.
 - As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



⑦ Drain pipe

Caution

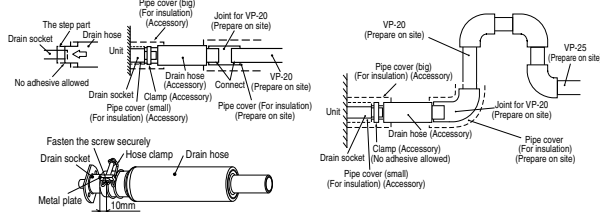
- Install the drain pipe according to the installation manual in order to drain properly.
 - Improper installation in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

⑦ Drain pipe (continued)

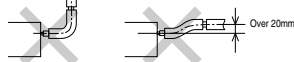
Work procedure

1. Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp. Attach the hose clamp to the drain hose around 10mm from the end.

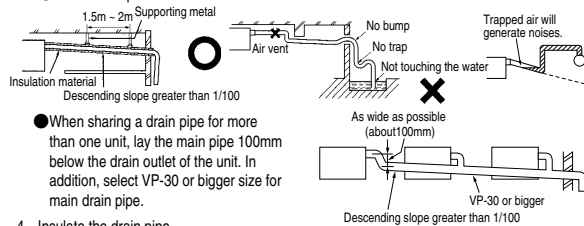
● Do not apply adhesives on this end.



2. Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-20 pipe (prepare on site).
 ※ As for drain pipe, apply VP-20 made of rigid PVC which is on the market.
 ● When drain pipe is set to rising in the nearest of the unit, use the VP-20 pipe.
 When drain pipe is set to after the horizontal pulling, use the VP-25 and above pipe.
 ● Make sure that the adhesive will not get into the supplied drain hose.
 It may cause the flexible part broken after the adhesive is dried up and gets rigid.
 ● The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



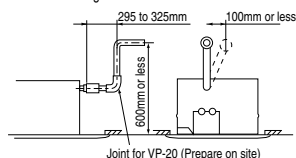
3. Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 ● Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
 ● Do not set up air vent.



4. Insulate the drain pipe.
 ● Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
 ※ After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

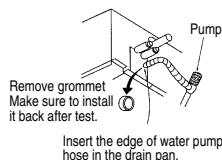
Drain up

- The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan. Check if the motor sound of drain pump is normal or not.
 ● Do drain test even if installation of heating season.
 ● For new building cases, make sure to complete the test before hanging the ceiling.
1. Remove the drain grommet, and pour water of about 1000cc into the drain pan in the indoor unit by pump so as not to get the electrical component wet.
 2. Make sure that water is drained out properly and there is no water leakage from any joints of the drain pipe at the test.
 Confirm that the water is properly drained out while the drain motor is operating. At the drain socket (transparent), it is possible to check if the water is drained out properly.
 3. Unplug the drain plug on the indoor unit to remove remaining water on the drain pan after the test, and re-plug it.
 4. Make sure to install the grommet back to original place.
 5. Insulate the drain pipe properly finally.



⑦ Drain pipe (continued)

Drain pump operation

- In case electrical wiring work finished
 Drain pump can be operated by remote controller (wired).
 For the operation method, refer to [Operation for drain pump] in the installation manual for wiring work.
- In case electrical wiring work not finished
 Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector CNB is disconnected, and then the power supply (220-240VAC on the terminal block (L) and (N)) is turned ON. Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

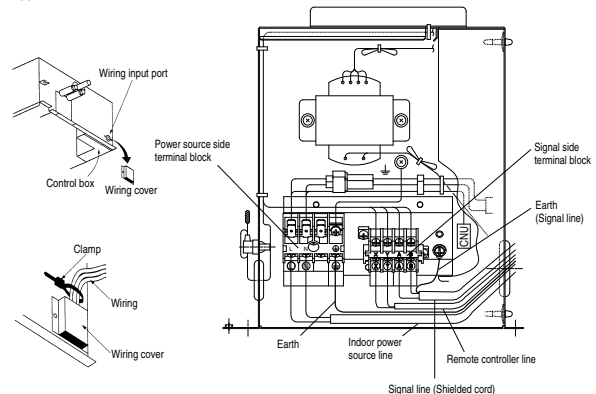
⑧ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
 Be sure to use an exclusive circuit.
 ● Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
 ● Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
 ● Be sure to do D type earth work.
 ● For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

1. Remove a lid of the control box (2 screws) and the wiring cover (2 screws).
2. Hold each wiring inside the unit and fasten them to terminal block securely.
3. Take out the wiring to upper direction of wiring cover, and fix the wiring with clamp.
4. Install the removed parts back to original place.

Caution

Make sure to install the wiring cover. Otherwise it may cause dew condensation into the control box.



⑨ Panel installation

- Attach the panel on the indoor unit after electrical wiring work.
 ● Refer to panel installation manual for details. (See next page)

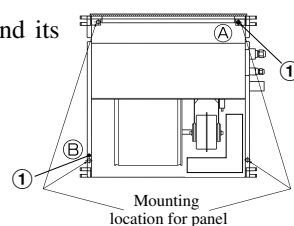
⑩ Check list after installation

- Check the following items after all installation work completed.

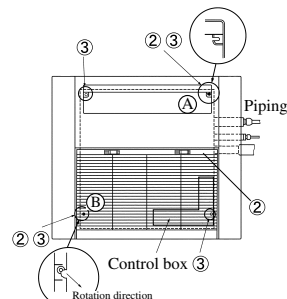
Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

3 Mount the panel

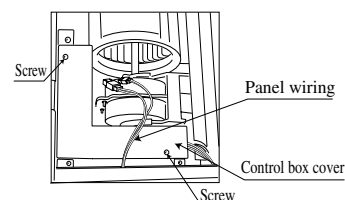
- ① Attach 2 of 4 hanging bolts supplied with the panel on the indoor piping side and its diagonal position respectively, and tighten them gently for 5mm. (Ⓐ Ⓑ ● marks)



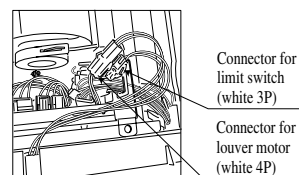
- ② Open the suction grille, hang the panel onto 2 bolts, and secure it temporarily. When securing the panel temporarily, hang the panel onto Ⓐ side bolts as shown in the left figure, then hang onto Ⓑ side while turning it.
- ③ Tighten the temporarily secured hanging bolts and other 2 hanging bolts.



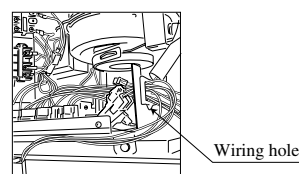
- ④ Remove 2 screws on the control box, and open the cover.



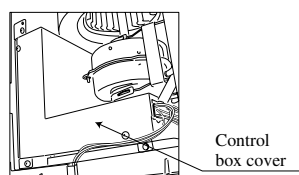
- ⑤ Connect the connector for louver motor (white 4P) and the connector for limit switch (white 3P). The connector on the indoor unit side is in the control box.



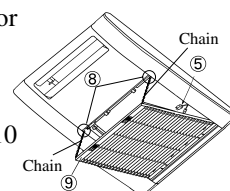
- ⑥ After connecting the connectors, pass the wiring on the panel side through wiring hole. Hold the connector in the control box.



- ⑦ Close control box cover, and tighten 2 screws.




- ⑧ Mount the chain attached with suction grille on the panel using screw. The screws for mounting chain and hanging bolts are in the same bag.
- ⑨ Close suction grille, then work is completed.
- ⑩ If the louver cannot be moved by remote control operation, cut off the power for over 10 seconds after confirming the connection of connector, then turn on the power again.



(2) Parts Models : QR-PNA-14W-ER, QR-PNB-14W-ER

Read with the installation instructions for the main body of the indoor unit.

PJC012D102 

Warning

- Do electric construction after turning off original power.
It becomes the cause of an electric shock, trouble and operation defective.



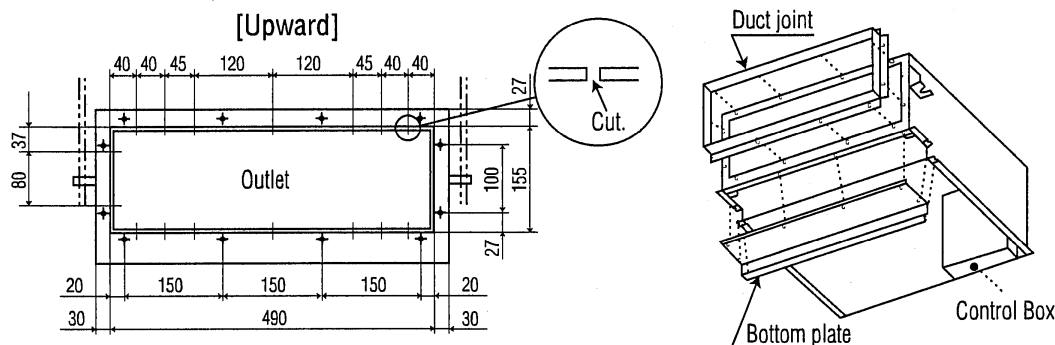
1. Accessories

1	Air filter	1 pc.	
2	Blow outlet cover	1 pc.	
3	Bolt	4 pcs.	For panel installation
4	Screw (M4, L=8mm)	2 pcs.	For chain installation
5	Duct joint	1 pc.	
6	Bottom plate	1 pc.	
7	Screw (M4, L=8mm)	8 pcs.	For bottom plate installation
8	Screw (M4, L=8mm)	12 pcs.	For duct joint installation

2. Main body change procedure for duct type

(1) Drill hole for duct

- ① While referring to the dimensions, cut the insulation.
- ② Cut sheet metal for the hole, and drill hole.
- ③ Install the duct joint with screws attached to the panel.
- ④ Install the bottom plate with screws attached to the panel.









- ⑤ Please set up as follows:

Changing the fan tap

Change the fan tap to the high speed by the remote controller.

[Method]

- ① Stop the operation of air conditioner. Press  (SET) button and  (MODE) button for 3 seconds at the same time.
- ② Select "I/UFUNCTION ▲" (Indoor Unit Function) and press  (SET) button.
- ③ Select "FAN SPEED SET" (Fan Speed Setting) of No."02" and press  (SET) button.
- ④ Select "HIGH SPEED 1" (High Fan Speed 1) and press  (SET) button.
- ⑤ Press  button to exit.







As for details, refer to the installation manual of remote controller.

CATEGORY	NUMBER	FUNCTION	SETTING
I/UFUNCTION ▲	02	FAN SPEED SET	HIGH SPEED 1

Invalidating the louver switch

Invalidate the louver switch by the remote controller.

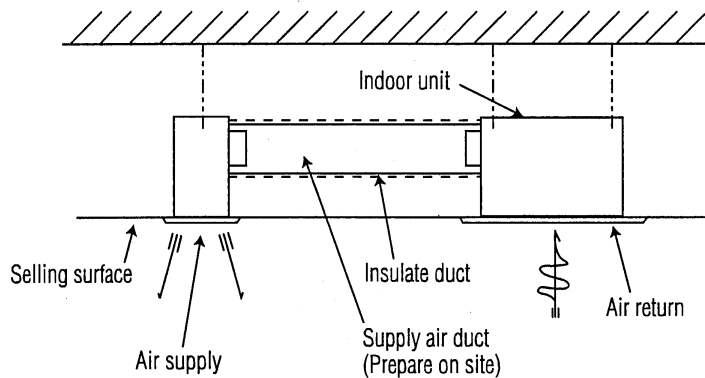
[Method]

- ① Stop the operation of air conditioner. Press  (SET) button and  (MODE) button for 3 seconds at the same time.
- ② Select "FUNCTION ▼" (Remote Controller Function) and press  (SET) button.
- ③ Select "LOUVER S/W" (Louver Switch Setting) of No. "07" and press  (SET) button.
- ④ Select "INVALID" (Louver Switch Invalid) and press  (SET) button.
- ⑤ Press  button to exit.

As for details, refer to the installation manual of remote controller.

CATEGORY	NUMBER	FUNCTION	SETTING
FUNCTION ▼	07	LOUVER S/W	INVALID

(2) Duct work



Request

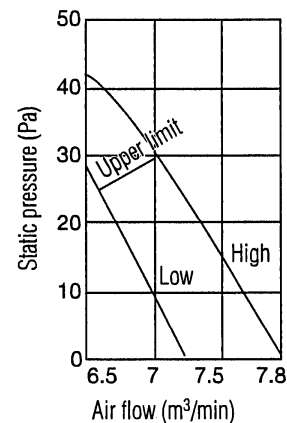
- Calculate air flow and the static pressure to select the duct's length and shape.

Caution

- Take care that the outside static pressure does not exceed 30 Pa.
The indoor unit has condensation owing to the decrease in air flow, may cause wetting the ceiling and household goods to become wet.

Request

- The duct should be minimum bends.
(Make the bend radius as large as possible.)
- Conduct the duct work before ceiling attachment.



Bad example



Bad example



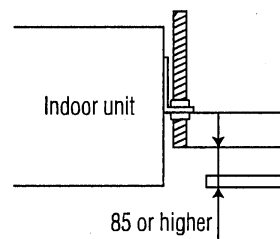
Good example



3. Installation of indoor unit

Work procedure

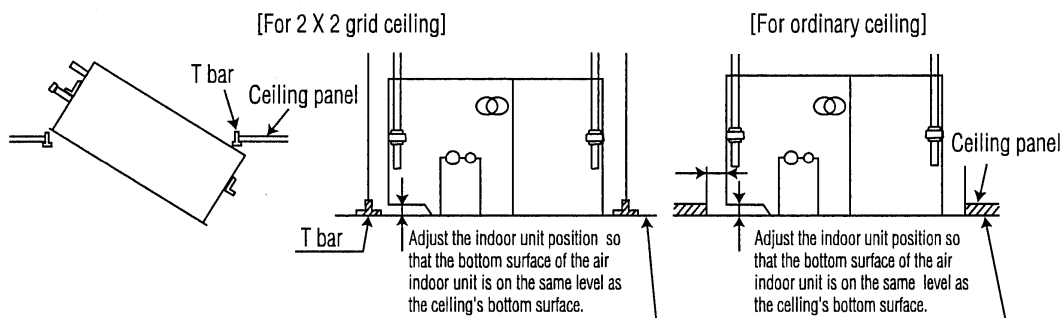
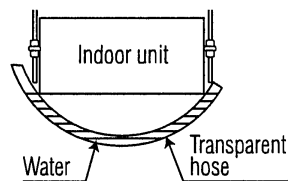
1. In case of installing on a ceiling other than 2 x 2 grid ceiling, prepare a ceiling hole with the size of 600mm x 740mm.
2. Arrange the suspension bolt at the right position (528mm x 576mm).
3. Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.
4. Ensure that the lower end of the suspension bolt should be 85mm above the ceiling plane. Temporarily put the four lower nuts 125mm above the ceiling plane and the upper nuts on distant place from the lower nuts in order not to obstruct hanging the indoor unit or adjust the indoor unit position, and then hang the indoor unit.
5. Adjust the indoor unit position after hanging it so that the bottom surface of the indoor unit is on the same level as the ceiling (bottom surface of the T bar). The allowable gap between the bottom surface of the ceiling and that of the indoor unit is when the bottom surface of the indoor unit is no higher than 5mm. In order to adjust the indoor unit position, adjust the lower nuts while the upper nuts are put on distant place. Confirm there is no backlash between the hanger plate for suspension bolt and the lower nut and washer.



Caution

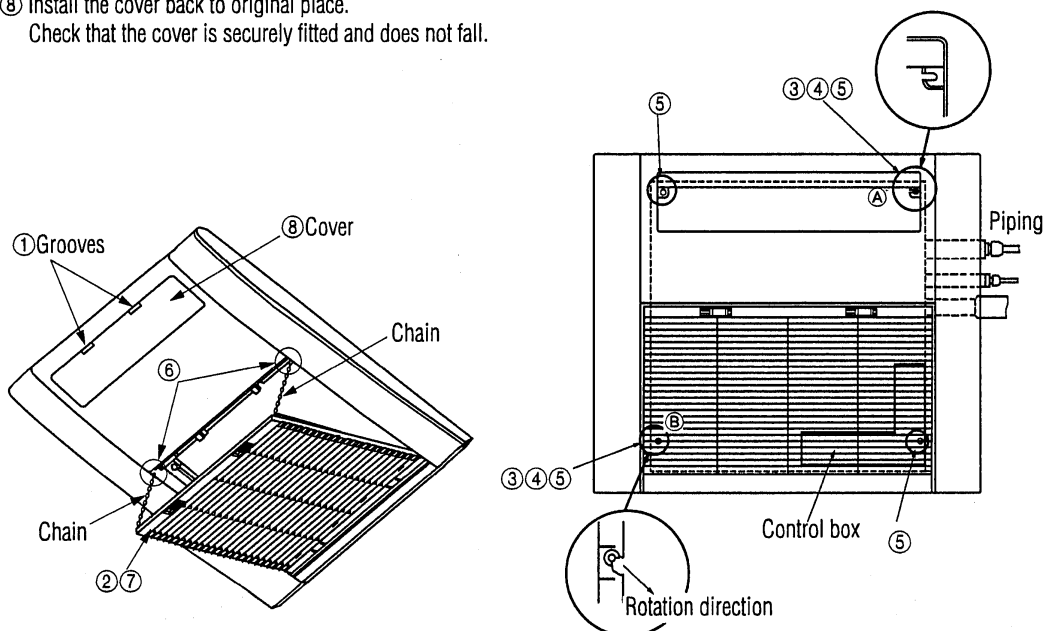
- Do not install the bottom surface of the indoor unit lower than the bottom surface of the ceiling.

6. Make sure to install the indoor unit horizontally. Confirm the levelness of the indoor unit with a level gauge or transparent hose filled with water. Keep the height difference at both ends of the indoor unit within 3mm.
7. Tighten four upper nuts and fix the unit after height and levelness adjustment.



4. Panel installation

- ① By inserting a flat-blade screwdriver into grooves of the cover, remove the cover from the panel.
- ② Open the air return grill.
- ③ Screw in two of the four hanging bolts attached to the panel, on the piping side (A) and at its opposite angle (B), by a little less than 5 mm (● marks.)
- ④ Hang the panel on two bolts, and install it temporarily.
When install the panel temporarily, hang the panel to bolt (A), then hang to bolt (B) while rotating the panel.
(Take care so that the indoor unit does not rotate.)
- ⑤ Tighten the two bolts which were used to install the panel temporarily and the other two bolts.
- ⑥ Use the supplied screws to tighten chains to the panel. The screws for install chains are contained in the same bag as bolts.
- ⑦ Close the air return grill. (Check that chains are securely installed.)
- ⑧ Install the cover back to original place.
Check that the cover is securely fitted and does not fall.



(f) Duct connected High static pressure type (FDU)

PJD012D048

(1) Models 71~140

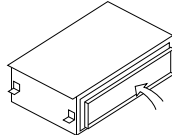
○ This model is middle static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.

① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Accessory item

For refrigerant pipe		
Pipe cover(big)	Pipe cover (small)	Strap
1	1	4
For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing



Accessory parts are stored inside this suction side.

For drain pipe			
Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp
1	1	1	1
For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain hose mounting

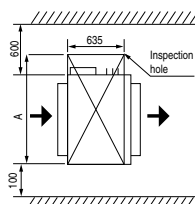
② Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

Space for installation and service

- Make installation altitude over 2.5m.
- (Indoor Unit)

Installation Space

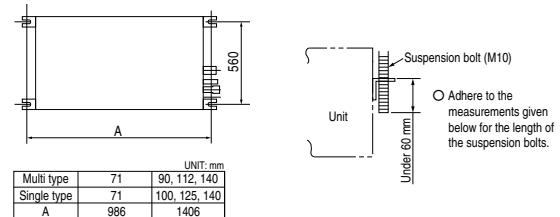


UNIT: mm		
Multi type	71	90, 112, 140
Single type	71	100, 125, 140
A	1200	1720

③ Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
 - For grid ceiling
 - When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
 - In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
 - When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

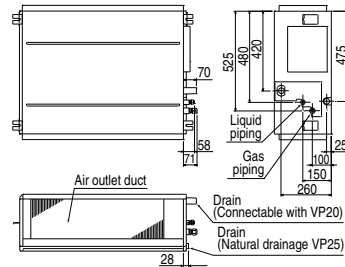
Suspension Bolt Location



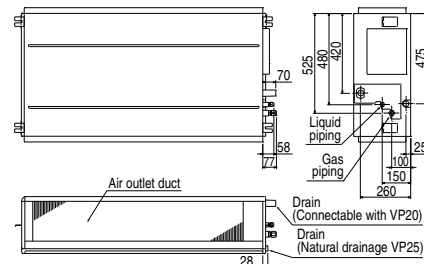
UNIT: mm		
Multi type	71	90, 112, 140
Single type	71	100, 125, 140
A	966	1406

Pipe locations

UNIT: mm	
Multi type	71
Single type	71



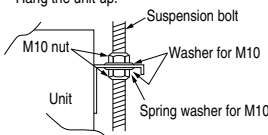
Multi type	90, 112, 140
Single type	100, 125, 140



④ Installation of indoor unit

Installation

[Hanging]
Hang the unit up.

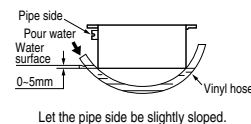


If the measurements between the unit and the ceiling hole do not match upon installation, it may be adjusted with the long holed installation tool.

Adjustment for horizontality

- Either use a level vial, or adjust the level according to the method below.

- Adjust so the bottom side of the unit will be leveled with the water surface as illustrated below.



- If the unit is not leveled, it may cause malfunctions or inoperation of the float switch.

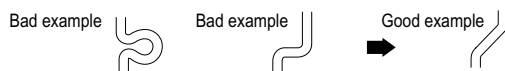
⑤ Duck Work

A corrugated board (for preventing sputtering) is attached to the main body of the air conditioner (on the outlet port). Do not remove it until connecting the duct.

- ① ● The air conditioner main unit does not have an air filter. Incorporate it into the easy-to-clean suction grille.

② Blowout duct

- The ducts should be at their minimum lengths.
- Keep the bends to a minimum. (The bending radius should be as large as possible.)



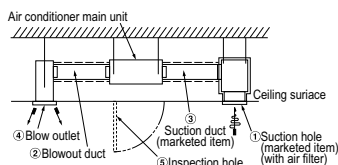
- Conduct the duct work before ceiling attachment.

③ Suction duct

- Make sure to insulate the duct to prevent dewing on it.

- ④ Location and form of blow outlet should be selected so that air from the outlet will be distributed all over the room, and equipped with a device to control air volume.

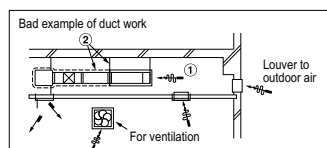
- ⑤ Make sure provide an inspection hole on the ceiling. It is indispensable to service electric equipment, motor, functional components and cleaning of heat exchanger.



Delete

Bad example of duct work

- ① If a duct is not provided at the suction side but it is substituted with the space over the ceiling, humidity in the space will increase by the influence of capacity of ventilation fan, strength of wind blowing against the out door air louver, weather (rainy day) and others.
 - a) Moisture in air is likely to condense over the external plates of the unit and to drip on the ceiling. Unit should be operated under the conditions as listed in the above table and within the limitation of wind volume. When the building is a concrete structure, especially immediately after the construction, humidity tends to rise even if the space over the ceiling is not substituted in place of a duct. In such occasion, it is necessary to insulate the entire unit with glass wool (25mm). (Use a wire net or equivalent to hold the glass wool in place.)
 - b) It may run out the allowable limit of unit operation (Example: When outdoor air temperature is 35°C DB, suction air temperature is 27°C WB) and it could result in such troubles as compressor overload, etc..
 - c) There is a possibility that the blow air volume may exceed the allowable range of operation due to the capacity of ventilation fan or strength of wind blowing against external air louver so that drainage from heat exchanger may fail to reach the drain pan but leak outside (Example: drip on to the ceiling) with consequential water leakage in the room.
- ② If vibration damping is not conducted between the unit and the duct, and between the unit and the slab, vibration will be transmitted to the duct and vibration noise may occur. Also, vibration may be transmitted from the unit to the slab. Vibration damping must be performed.

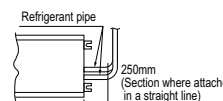


⑥ Refrigerant pipe

Caution

- Use the new refrigerant pipe.
 - When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
 - Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Piping work

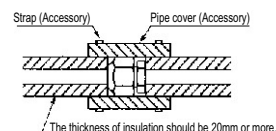


When conducting piping work, make sure to allow the pipes to be aligned in a straight line for at least 250 mm, as shown in the left illustration. (This is necessary for the drain pump to function)

Work procedure

1. Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - ※ Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - ※ Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - ※ Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
3. Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - ※ Incomplete insulation may cause dew condensation or water dropping.
4. Refrigerant is charged in the outdoor unit.
 - As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



⑦ Drain pipe

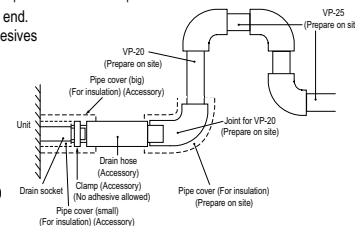
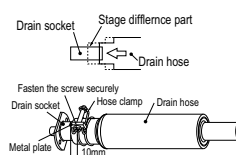
Caution

- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

1. Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp. Attach the hose clamp to the drain hose around 10mm from the end.

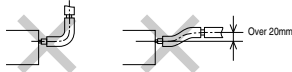
- Do not apply adhesives on this end.
- Do not use acetone-based adhesives to connect to the drain socket.



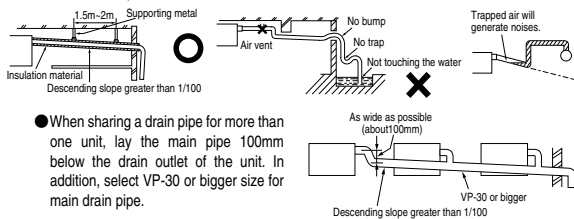
⑦ Drain pipe (continued)

2. Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-20 pipe (prepare on site).
※As for drain pipe, apply VP-20 made of rigid PVC which is on the market.

- When installing drain pipe, use VP-20 for the pipe goes up the closest to the unit, and VP-25 or higher number product for farther pipes.
- Make sure that the adhesive will not get into the supplied drain hose. It may cause the flexible part broken after the adhesive is dried up and gets rigid.
- The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



3. Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
● Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close possible to the unit as possible when connecting the drain pipe.
● Do not set up air vent.



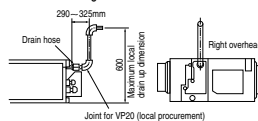
- When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.

4. Insulate the drain pipe.

- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
※ After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

- The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



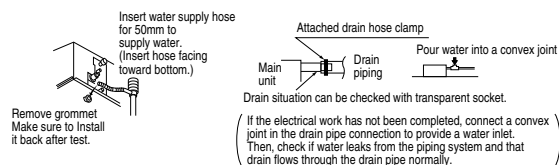
Otherwise, the construction point makes it same as drain pipe construction.

Drain test

1. Conduct a drain test after completion of the electrical work.
2. During the trial, make sure that drain flows properly through the piping and that no water leaks from connections.
3. In case of a new building, conduct the test before it is furnished with the ceiling.
4. Be sure to conduct this test even when the unit is installed in the heating season.

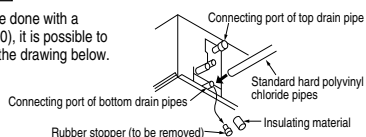
Procedures

1. Supply about 1000 cc of water to the unit through the air outlet by using a feed water pump.
2. Check the drain while cooling operation.



Outline of bottom drain piping work

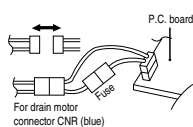
- If the bottom drain piping can be done with a descending gradient (1/50-1/100), it is possible to connect the pipes as shown in the drawing below.



Uncoupling the drain motor connector

- Uncouple the connector CNR for the drain motor as illustrated in the drawing on the right.

(Note: If the unit is run with the connector coupled, drain water will be discharged from the upper drain pipe joint, causing a water leak.)



⑦ Drain pipe (continued)

Drain pump operation

- In case electrical wiring work finished

Drain pump can be operated by remote controller (wired).

For the operation method, refer to [Operation for drain pump](#) in the installation manual for wiring work.

- In case electrical wiring work not finished

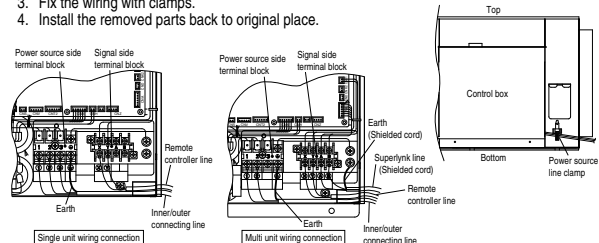
Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector CNB is disconnected, and then the power supply (230VAC on the terminal block ① and ②) is turned ON.

Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

⑧ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

1. Remove a lid of the control box (2 screws).
2. Hold each wiring inside the unit and fasten them to terminal block securely.
3. Fix the wiring with clamps.
4. Install the removed parts back to original place.



⑨ Check list after installation

- Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

⑩ Tap selection on blower unit (when the high performance filter is used)

The fan tap's factory setting is "Standard." If you want to change it to the high static-pressure setting, you can avail yourself of the following two methods. Use one of the two methods to set the fan tap. Make sure to perform the functional setting with remote controller.

Select [Indoor function] in the functional setting mode, and change the function number [01]

[High wall setting].


For operation method, refer to the user's manual of the remote controller.

Function number A	Functional content B	Setting content C	Default setting
01	High wall setting	Standard	○
		High wall 1	
UNIT: Pa			
Static Pressure	Standard Tap	50	
	High Tap	130	

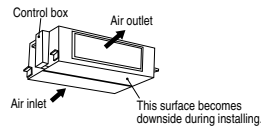
⚠ CAUTION

- Taps should not be used under static pressure outside the unit mentioned above. Dew condensation may occur with the unit and wet the ceiling or furniture.
- Do not use under static pressure outside the unit of 50Pa or less. Water drops may be blown from the diffuser outlet of the unit and wet the ceiling or furniture.

(2) Models 224, 280

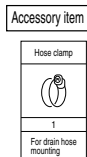
PJD012D036 

○ This model is high static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.

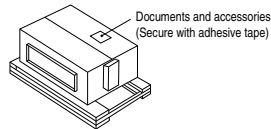


① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items



Accessories storage position (during packing)

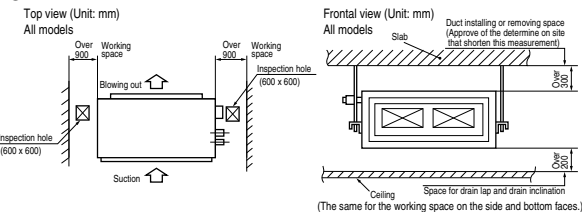


② Selection of installation location for the indoor unit

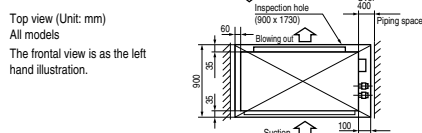
- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. (This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.)
 - If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation. (A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

Space for installation and service

- Make installation altitude over 2.5m.



If the conditions shown in the left hand side cannot be met, the following method is also possible.



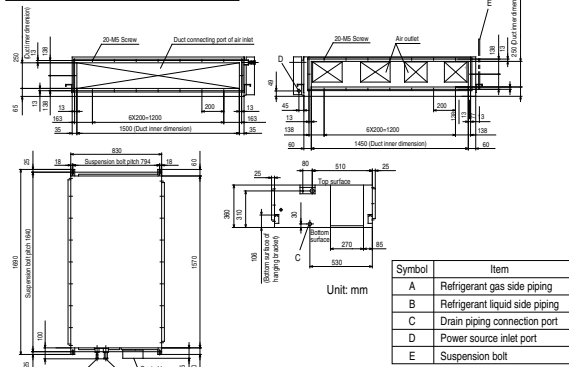
Air Conditions and Airflow Limits

Single	Multi	Airflow m ³ /min			Temperature of the blow-in air of the indoor unit		Air temperature surrounding the indoor unit
		Rating	Lower limit	Upper limit	Cooler	Heater	
200	224	51	38	65	Upper limit 26°C WB When outdoor temperature is 35°C Lower limit 16°C WB When outdoor temperature is 15°C	Upper limit 27°C DB Outdoor temperature is below 20°C WB Lower limit 10°C DB Outdoor temperature is above 10°C WB	Dew point temperature below 28°C
250	280	68	51	87	Refer to the technical document published by our company for more details.		

③ Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
 - For grid ceiling
 - When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
 - In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
 - When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

Suspension bolts pitch, Pipe position

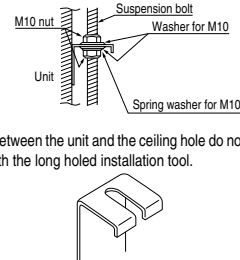


④ Installation of indoor unit

Installation

[Hanging]

- Hang the unit up.

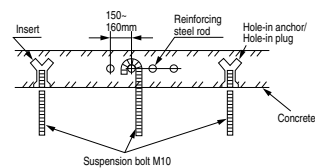


- If the measurements between the unit and the ceiling hole do not match upon installation, it may be adjusted with the long holed installation tool.



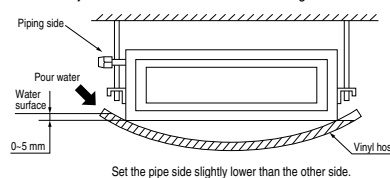
[Method for Fixing the Suspension Bolt]

- Secure the suspension bolt with one of the methods shown in the following illustration.



Horizontal Adjustment

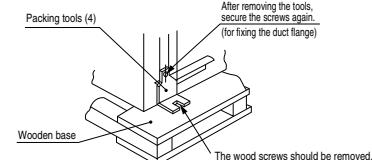
- Use a level vial or adjust the level as shown in the following illustration.



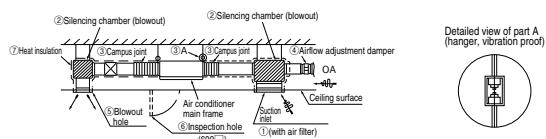
- If it is not horizontal, the float switch malfunctions or does not function.

(Packing Tools)

- The packing tools (4) are not necessary.
- Packing tools (4) should be removed.

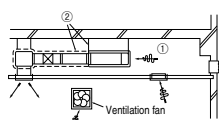


⑤ Duck work



- ① Air filters are not provided with the main frame of the air conditioner. Assemble on to the suction grill which can be cleaned easily.
- ② Fit the silencing chamber according to the noise level tolerance inside the installation room. If it is particularly necessary to keep the noise level low, further silencing devices is required (always install them in offices, and conference rooms).
- ③ In order to keep the vibration from transferring to the ceiling and the slab, use a campus joint for the duct and a vibration proof rubber for the main frame.
- ④ Attach an airflow adjustment damper to the connection point of the OA duct so airflow adjustment may be possible after installation.
- ⑤ For the blowing outlet, select a shape and location where air may circulate, and a structure where airflow may be controlled.
- ⑥ An inspection hole must be made in the ceiling surface. This is necessary for the repair and maintenance of the electrical parts, motor and functional parts, as well as for cleaning the heat exchanger.
- ⑦ Insulation must be performed for the duct to prevent water condensation on the duct. The thickness of the insulating material is 65 mm (JISA 9501).

A bad example of duct work

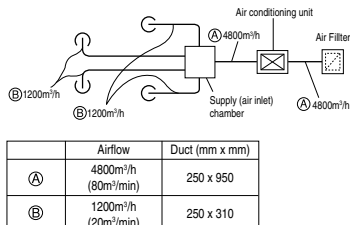


- ① If the suction duct is not used, and the attic is used as a suction duct, the attic will become extremely humid depending on the performance of the ventilation fan, the strength of wind blowing to the atmospheric gallery and the climate (e.g., rainy days).

- a. Condensation occurs on the outer board of the unit and water may fall on the ceiling. Use the unit according to the air conditions in the above table and airflow limits. In concrete constructions, high humidity can occur in new constructions even when the attic is not used as a suction duct. In this case, insulate the entire unit with glass wool (25 mm) (use a metal net to hold the wool).
 - b. Operation of the unit may exceed its limits (for example, when the temperature of the suction air is 24 °C with the outdoor temperature of 35 °C DB). In such a cases, problems such as an overload of the compressor may occur.
 - c. The volume of the air blowing in may increase due to the performance of the ventilation fan and the wind strength blowing against the atmospheric gallery. The air usage limit may be exceeded, and the water from the heat exchanger will not be able to drain to the drain pan. Instead it will drain outside and cause a water leak (to the ceiling).
- ② If vibration damping is not conducted between the unit and the duct, and between the unit and the slab, vibration will be transmitted to the duct and vibration noise may occur. Also, vibration may be transmitted from the unit to the slab. Vibration damping must be performed.

Simple setting method for duct measurement

The following shows the method when duct is used at one side of 250mm as 1Pa/m by frictional resistance per the unit length of the duct, and in case of 250 type (single unit)/280 type (multi unit), 60Hz rating airflow for a example.



	Airflow	Duct (mm x mm)
①	4800m³/h (80m³/min)	250 x 950
②	1200m³/h (20m³/min)	250 x 310

- Calculation of duct resistance
(Simplified calculate as following table)

Straight piping port	Calculate at 1Pa per 1m length to 1Pa/m
Bending port	Calculate at 3 to 4 m straight pipe per 1 piece of binding pipe
Air outlet port	Calculate at 25Pa
Chamber	Calculate at 50Pa per 1 piece
Air inlet grille (with filter)	Calculate at 40Pa per 1 piece

(Simplified duct dimension selection table)

Airflow m³/h (m³/min)	Duct type	
	Item	Dimensions (mm×mm)
100	250×60	
200	250×90	
300	250×120	
400	250×140	
450 (7.5)	250×160	
500	250×170	
600 (10)	250×190	
800	250×230	
1,000	250×270	
1,200 (20)	250×310	
1,400	250×350	
1,600	250×390	
1,800 (30)	250×430	
2,000	250×470	
2,400 (40)	250×560	
3,000 (50)	250×650	
3,500	250×740	
4,000	250×830	
4,500	250×920	
4,800 (80)	250×950	
5,000	250×1000	
5,500	250×1090	
6,000 (100)	250×1180	

⑥ Refrigerant pipe

Caution

- Use the new refrigerant pipe.
When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigerant pipe installation.
In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.
- The indoor unit pipes allow the maintenance panel to be removed. Therefore, regardless of the piping direction, there should be a straight section of 400 mm or more.

Work procedure

1. When brazing work, perform it while cool down around the brazing port with wet towels to prevent the overheating.
2. After check the gas leak test, install the heat insulation (prepare on site) to the brazing port of the indoor unit.
 - Be sure to perform the heat insulation both of gas side piping with liquid side piping.
 - ※ If heat insulation does not install to the pipes, dew condensation may occurs and it may cause the water leakage.

The thickness of the heat insulation should be more than 20mm.
3. Refrigerant is charged in the outdoor unit.
As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Single unit		Multi unit		
Type 200	Liquid piping	φ 9.52	Type 224	Liquid piping
	Gas piping	φ 25.4		φ 9.52
Type 250	Liquid piping	φ 12.7	Type 280	Gas piping
	Gas piping	φ 25.4		φ 19.05
				φ 9.52
				φ 22.22

⑦ Drain pipe

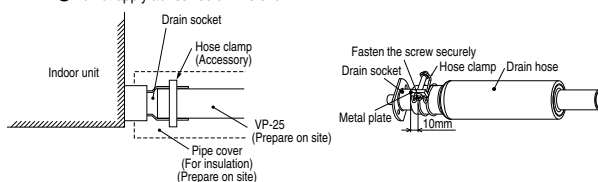
Caution

- Install the drain pipe according to the installation manual in order to drain properly.
Imperfection in draining may cause flood indoors and wetting the household goods etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

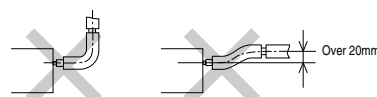
Work procedure

1. Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp. Attach the hose clamp to the drain hose around 10mm from the end.

- Do not apply adhesives on this end.



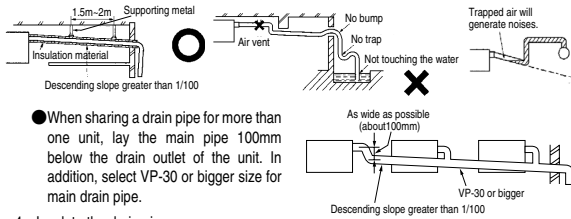
2. Prepare a joint for connecting VP-25 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect the joint to the drain hose (prepare on site).
※ As for drain pipe, apply VP-25 made of rigid PVC which is on the market.
 - Make sure that the adhesive will not get into the supplied drain hose.
 - It may cause the flexible part broken after the adhesive is dried up and gets rigid.
 - The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



⑦ Drain pipe (continued)

3. Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.

- Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
- Do not set up air vent.



- When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.

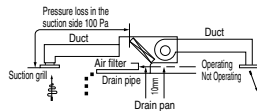
4. Insulate the drain pipe.

- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.

※ After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Caution

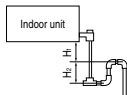
When the duct is connected and the blowing device is operated, the pressure inside the unit becomes negative to the atmospheric pressure.



Example: As shown in the above illustration, if the pressure loss of the suction grill, air filter, and the suction side of the duct is 100 Pa, the drain water level during operation is 10mm higher than when it is not operating.

Fixing Traps

The pressure loss varies depending on the clogging in the air filter. Therefore, make one trap (during the piping work) to prevent water from remaining in the drain pan. It is necessary to make a trap with a structure that allows cleaning. Use the T joint as demonstrated in the left illustration. Also, set the trap height as shown in the left illustration. Arrange the trap near to the unit.



- Make one trap along the drain pipe as the left illustration.

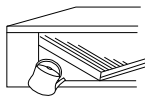
H1 = 100 mm or the static pressure of the blowing device
H2 = 1/2 H1 or 50 ~ 100 mm

Drain test

Upon completion of drain piping, check by running water through it.

- Remove the side panel and gradually pour 1000 cc of water into the drain pan. Ensure that the water drains smoothly.

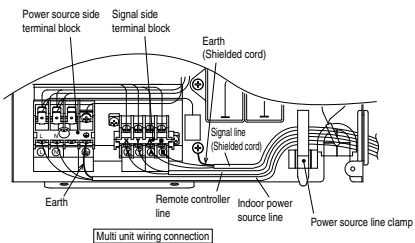
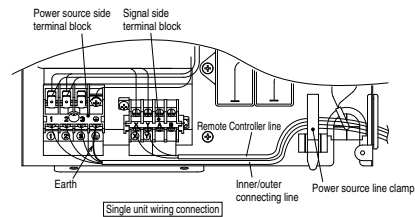
Also, ensure that there are no water leaks from the connections and joints.



⑧ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
- Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

1. Remove a lid of the control box (2 screws) and a hook which is located on top of it.
2. Hold each wiring inside the unit and fasten them to terminal block securely.
3. Fix the wiring with clamps.
4. Install the removed parts back to original place.




⑨ Check list after installation

- Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

(g) Duct connected Middle static pressure type (FDUM)

PJR012D317 

○ This model is middle static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.








① Before installation

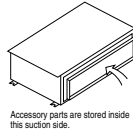
● Install correctly according to the installation manual.

● Confirm the following points:

○ Unit type/Power supply specification ○ Pipes/Wires/Small parts ○ Accessory items

Accessory item

For refrigerant pipe			For drain pipe			
Pipe cover(big)	Pipe cover(small)	Strap	Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp
						
1	1	4	1	1	1	1
For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain hose mounting



② Selection of installation location for the indoor unit

① Select the suitable areas to install the unit under approval of the user.

- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
- Areas where there is enough space to install and service.
- Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- Areas where there is no obstruction of airflow on both air return grille and air supply port.
- Areas where fire alarm will not be accidentally activated by the air conditioner.
- Areas where the supply air does not short-circuit.
- Areas where it is not influenced by draft air.
- Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.

This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.

If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.

- Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
- Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- Areas where there is no influence by the heat which cookware generates.
- Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
- Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.

(A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)

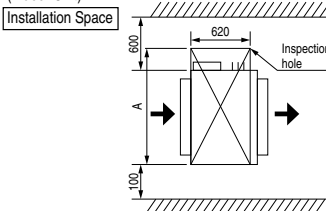
② Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

Space for installation and service

● Make installation altitude over 2.5m.

(Indoor Unit)

Installation Space



		UNIT: mm		
Multi type	22-56	71, 90	112, 140	
Single type	50	60, 71	100-140	
A	1100	1300	1720	

③ Preparation before installation

● If suspension bolt becomes longer, do reinforcement of earthquake resistant.

○ For grid ceiling

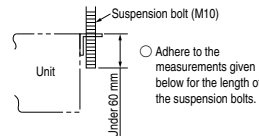
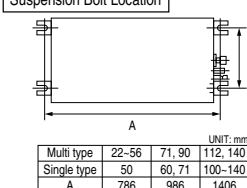
When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

○ In case the unit is hung directly from the slab and is installed on the ceiling plane which has enough strength.

When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.

● Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

Suspension Bolt Location

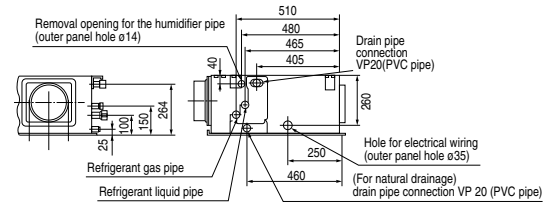


		UNIT: mm		
Multi type	22-56	71, 90	112, 140	
Single type	50	60, 71	100-140	
A	786	986	1406	

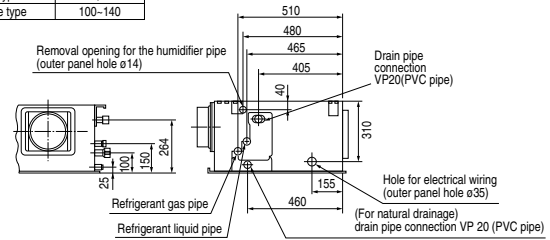
③ Preparation before installation (continued)

Pipe locations UNIT: mm

Multi type	22-90
Single type	50-71



Multi type	112, 140
Single type	100-140

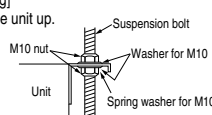


④ Installation of indoor unit

Installation

[Hanging]

Hang the unit up.

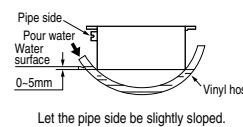


If the measurements between the unit and the ceiling hole do not match upon installation, it may be adjusted with the long holed installation tool.

Adjustment for horizontality

○ Either use a level vial, or adjust the level according to the method below.

● Adjust so the bottom side of the unit will be leveled with the water surface as illustrated below.



○ If the unit is not leveled, it may cause malfunctions or inoperation of the float switch.

⑤ Duck Work

① A corrugated board (for preventing sputtering) is attached to the main body of the air conditioner (on the outlet port). Do not remove it until connecting the duct.

● An air filter can be provided on the main body of the air conditioner (on the inlet port).

Remove it when connecting the duct on the inlet port.

② Blowout duct

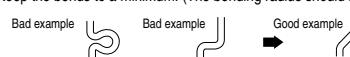
● Use according to the spot numbers shown in the table below with a 200 circular duct.

Multi type	22	36, 45, 56	71, 90	112, 140
Single type	-	20	25, 30	40-50
Spot numbers	1 spot	2 spots	3 or 2 spots	4 or 8 spots

● The difference of the duct lengths between each spot should be less than 2:1.

● The ducts should be at their minimum lengths.

● Keep the bends to a minimum. (The bending radius should be as large as possible.)



● Tie and secure the connection to the duct flange of the main unit/blowout hole with a band. Then, apply insulation materials to the secured part for dew condensation prevention.

● Use of the sound and heat insulated flexible duct is recommended for condensation prevention and soundproofing. (sold separately; 1m, 2m, 4m available)

● Conduct the duct work before ceiling attachment.

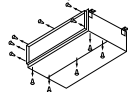
③ Inlet port

● When shipped the inlet port lies on the back.

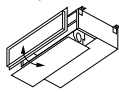
● When connecting the duct to the inlet port, remove the air filter if it is fitted to the inlet port.

⑤ Duck Work (continued)

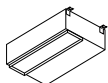
- When placing the inlet port to carry out suction from the bottom side, use the following procedure to replace the suction duct joint and the bottom plate.



- Remove the screws which fasten the bottom plate and the duct joint on the inlet port side of the unit.



- Replace the removed bottom plate and duct joint.



- Fit the duct joint with a screw; fit the bottom plate.

- Make sure to insulate the duct to prevent dewing on it.

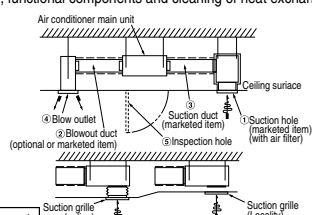
- ④ Install the specific blowout duct in a location where the air will circulate to the entire room.

- The duct connection is specific to the 200 circular duct.

- Conduct the installation of the specific blowout hole and the connection of the duct before attaching them to the ceiling.

- Insulate the area where the duct is secured by a band for dew condensation prevention.

- ⑤ Make sure provide an inspection hole on the ceiling. It is indispensable to service electric equipment, motor, functional components and cleaning of heat exchanger.



Bad example of duct work

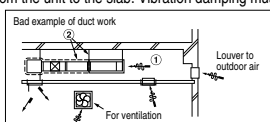
- ① If a duct is not provided at the suction side but it is substituted with the space over the ceiling, humidity in the space will increase by the influence of capacity of ventilation fan, strength of wind blowing against the out door air louver, weather (rainy day) and others.

- a) Moisture in air is likely to condense over the external plates of the unit and to drip on the ceiling. Unit should be operated under the conditions as listed in the above table and within the limitation of wind volume. When the building is a concrete structure, especially immediately after the construction, humidity tends to rise even if the space over the ceiling is not substituted in place of a duct. In such occasion, it is necessary to insulate the entire unit with glass wool (25mm). (Use a wire net or equivalent to hold the glass wool in place.)

- b) It may run out the allowable limit of unit operation (Example: When outdoor air temperature is 35°C DB, suction air temperature is 27°C WB) and it could result in such troubles as compressor overload, etc..

- c) There is a possibility that the blow air volume may exceed the allowable range of operation due to the capacity of ventilation fan or strength of wind blowing against external air louver so that drainage from be heat exchanger may fall to reach the drain pan but leak outside (Example: drip on to the ceiling) with consequential water leakage in the room.

- ② If vibration damping is not conducted between the unit and the duct, and between the unit and the slab, vibration will be transmitted to the duct and vibration noise may occur. Also, vibration may be transmitted from the unit to the slab. Vibration damping must be performed.



Notice

A specific cover plate is available when changing the 4 spot to the 3 spot, or when changing the 3 spot to the 2 spot.

Note: Do not change from 2 spot to 1 spot.

Connecting the air intake/vent ducts

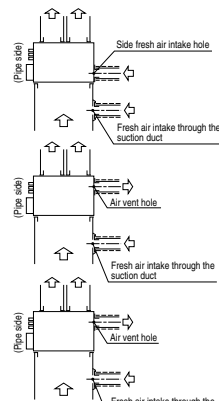
- ① Fresh Air Intake
[for air intake duct only]
○ Use the side fresh air intake hole, or supply through a part of the suction duct.

[for simultaneous air intake/vent]

- Intake air through the suction duct.
(the side cannot be used)

- ② Air Vent
○ Use the side air vent hole.
(always use together with the air intake)

- Use the duct flange for the air intake/vent (sold separately; for 125 circular duct connection), and connect the 125 circular duct (tighten with band).
- Insulate the duct to protect it from dew condensation.



⑥ Refrigerant pipe

Caution

- Use the new refrigerant pipe.

When re-using the existing pipe system for R22 or R407C, pay attention to the following items.

- Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
- Do not use thin-walled pipes.

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigerant pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.

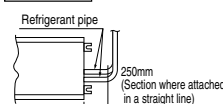
- Do not use any refrigerant other than R410A.

Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.

- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.

- Use special tools for R410 refrigerant.

Piping work



When conducting piping work, make sure to allow the pipes to be aligned in a straight line for at least 250 mm, as shown in the left illustration. (This is necessary for the drain pump to function)

Work procedure

1. Remove the flare nut and blind flanges on the pipe of the indoor unit.
※ Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
(Gas may come out at this time, but it is not abnormal.)

- Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)

2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
※ Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.

- ※ Do a flare connection as follows:

- Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.

- When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.

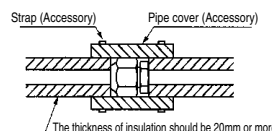
3. Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.

- Make sure to insulate both gas pipes and liquid pipes completely.

- ※ Incomplete insulation may cause dew condensation or water dropping.

4. Refrigerant is charged in the outdoor unit.
As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



The thickness of insulation should be 20mm or more.

⑦ Drain pipe

Caution

- Install the drain pipe according to the installation manual in order to drain properly.

Imperfection in draining may cause flood indoors and wetting the household goods, etc.

- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.

- Connect the pipe securely to avoid water leakage from the joint.

- Insulate the pipe properly to avoid condensation drop.

- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.

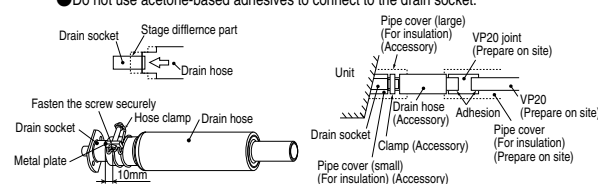
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

1. Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp. Attach the hose clamp to the drain hose around 10mm from the end.

- Do not apply adhesives on this end.

- Do not use acetone-based adhesives to connect to the drain socket.



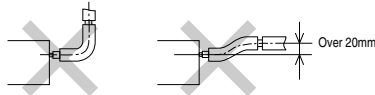
⑦ Drain pipe (continued)

- Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-20 pipe (prepare on site).
※As for drain pipe, apply VP-20 made of rigid PVC which is on the market.

● Make sure that the adhesive will not get into the supplied drain hose.

It may cause the flexible part broken after the adhesive is dried up and gets rigid.

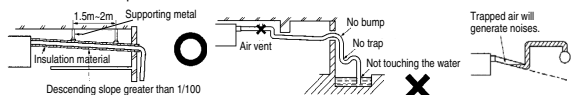
- The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.

● Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.

● Do not set up air vent.



● When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.

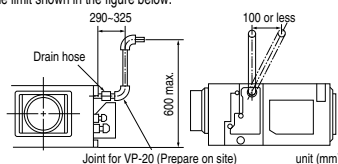
- Insulate the drain pipe.

● Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.

※ After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

- The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



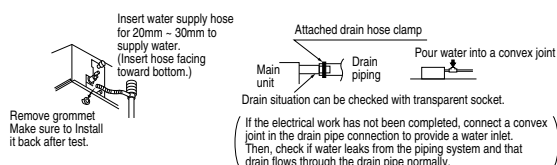
Otherwise, the construction point makes it same as drain pipe construction.

Drain test

- Conduct a drain test after completion of the electrical work.
- During the trial, make sure that drain flows properly through the piping and that no water leaks from connections.
- In case of a new building, conduct the test before it is furnished with the ceiling.
- Be sure to conduct this test even when the unit is installed in the heating season.

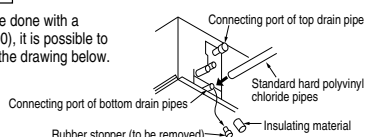
Procedures

- Supply about 1000 cc of water to the unit through the air outlet by using a feed water pump.
- Check the drain while cooling operation.



Outline of bottom drain piping work

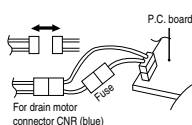
- If the bottom drain piping can be done with a descending gradient (1/50-1/100), it is possible to connect the pipes as shown in the drawing below.



Uncoupling the drain motor connector

- Uncouple the connector CNR for the drain motor as illustrated in the drawing on the right.

(Note: If the unit is run with the connector coupled, drain water will be discharged from the upper drain pipe joint, causing a water leak.)



⑦ Drain pipe (continued)

Drain pump operation

- In case electrical wiring work finished

Drain pump can be operated by remote controller (wired).

For the operation method, refer to [Operation for drain pump](#) in the installation manual for wiring work.

- In case electrical wiring work not finished

Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector CNB is disconnected, and then the power supply (230VAC on the terminal block ① and ②) is turned ON.

Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

⑧ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.

Be sure to use an exclusive circuit.

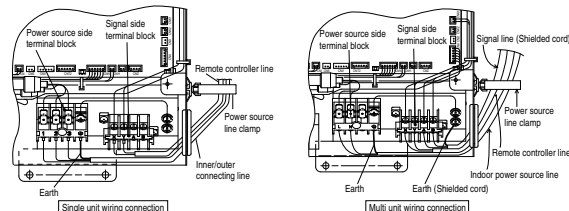
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.

- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.

- Be sure to do D type earth work.

- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

- Remove a lid of the control box (2 screws).
- Hold each wiring inside the unit and fasten them to terminal block securely.
- Fix the wiring with clamps.
- Install the removed parts back to original place.



⑨ Check list after installation

- Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

⑩ Tap selection on blower unit (when the high performance filter is used)

The fan tap's factory setting is "Standard." If you want to change it to the high static-pressure setting, you can avail yourself of the following two methods. Use one of the two methods to set the fan tap. Make sure to perform the functional setting with remote controller.

Select [Indoor function] in the functional setting mode, and change the function number [01]

[High wall setting].


For operation method, refer to the user's manual of the remote controller.

Function number A	Functional content B	Setting content C	Default setting
01	High wall setting	Standard	○
		High wall 1	
Unit: Pa			
Multi type	22-90	112	140
Single type	50-71	100	125, 140
Static Pressure	Standard Tap	50	60
	High Tap	85	90

CAUTION

- Taps should not be used under static pressure outside the unit mentioned above.
Dew condensation may occur with the unit and wet the ceiling or furniture.
● Do not use under static pressure outside the unit of 50Pa or less. Water drops may be blown from the diffuser outlet of the unit and wet the ceiling or furniture.

(h) Duct connected (Ultra thin) Low static pressure type (FDQS)

PJC012D013 

○ This model is low static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.








① Before installation

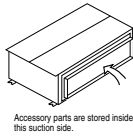
● Install correctly according to the installation manual.

● Confirm the following points:

○ Unit type/Power supply specification ○ Pipes/Wires/Small parts ○ Accessory items

Accessory item

For refrigerant pipe			For drain pipe			
Pipe cover (big)	Pipe cover (small)	Strap	Pipe cover (big)	Pipe cover (small)	Drain hose	Hose clamp
						
1	1	4	1	1	1	1
For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain hose mounting



② Selection of installation location for the indoor unit

① Select the suitable areas to install the unit under approval of the user.

- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
- Areas where there is enough space to install and service.
- Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- Areas where there is no obstruction of airflow on both air return grille and air supply port.
- Areas where fire alarm will not be accidentally activated by the air conditioner.
- Areas where the supply air does not short-circuit.
- Areas where it is not influenced by draft air.
- Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.

This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.

If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.

- Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
- Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- Areas where there is no influence by the heat which cookware generates.
- Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
- Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.

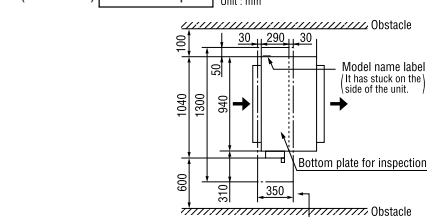
(A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)

② Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

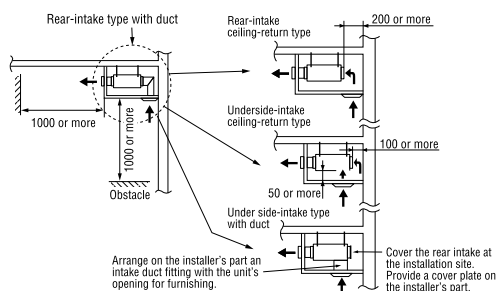
Space for installation and service

● Make installation altitude over 2.5m.

(Indoor Unit) Installation Space Unit: mm



An access measuring 350mm x 1300mm is required for servicing, so please provide a 350mm x 1300mm inspection opening right beneath it. (For servicing the control, fan, fan motor and drain pump)



Notice Underside-intake type installation is not recommended for hotel and residential installations due to a high noise level.

③ Preparation before installation

● If suspension bolt becomes longer, do reinforcement of earthquake resistant.

○ For grid ceiling

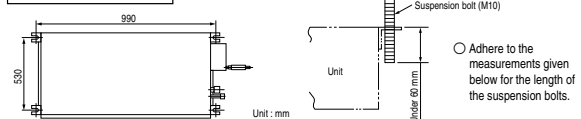
When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

○ In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.

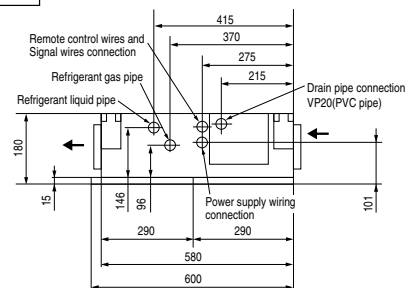
When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.

● Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

Suspension Bolt Location



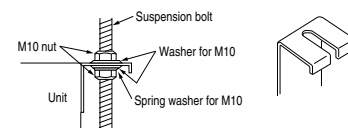
Pipe locations Unit: mm



④ Installation of indoor unit

Installation

[Hanging]
Hang the unit up.

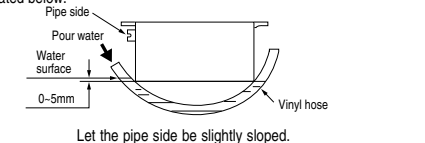


If the measurements between the unit and the ceiling hole do not match upon installation, it may be adjusted with the long holed installation tool.

Adjustment for horizontality

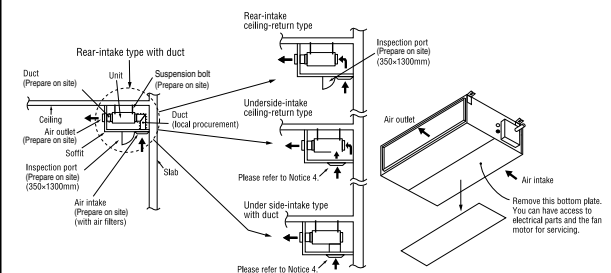
○ Either use a level vial, or adjust the level according to the method below.

● Adjust so the bottom side of the unit will be leveled with the water surface as illustrated below.



○ If the unit is not leveled, it may cause malfunctions or inoperation of the float switch.

⑤ Duck Work



Notice

1. This unit is designed for installation in a soffit. It is not designed to inhale fresh air directly.
2. In the case of an underside-intake ceiling-return type installation, remove the bottom plate of the unit on the fan side to make it an underside intake type. The rear intake should be used together.

⑤ Duck Work (continued)

- The air conditioning unit main body is not equipped with air filters. Incorporate air filters in an air intake grille, which will facilitate the cleaning of air filters.
- In the case of a rear-intake type with duct and a rear-intake ceiling-return type installation, be sure to provide a 350 mm x 1300 mm inspection opening right beneath the unit's fan side bottom plate to permit servicing of the unit as illustrated in installation geometries. In the case of an underside-intake type with duct and underside-intake ceiling-return type, provide an intake opening right beneath the unit's fan side bottom plate so that it will serve as an inspection opening as well. Also see to its dimensions so that the intake opening will be made to 350 mm x 1300 mm.
- Take care to install a duct horizontally in connecting the unit with a diffuser.
- When a canvas duct is used for either intake or outlet duct, install it with care so that it may not get flattened.
- Select a desirable diffuser position and diffuser form to ensure the distribution of winds throughout the room and use a diffuser employing a structure that provides the capability to regulate winds.
- Install the air conditioning unit main body via vibration-isolating rubbers to prevent vibrations from propagating directly from the air conditioning unit main body to the ceiling and slab.
- Secure at least 0.15m² for the opening of an air intake.
- Never fail to heat-insulate the ducts to prevent condensation on their surfaces.

⑥ Refrigerant pipe

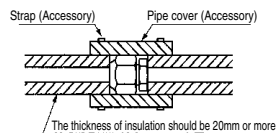
Caution

- Use the new refrigerant pipe.
When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C12207 specified in JIS H3300) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
Using other refrigerant except R410A (R22, etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - ※ Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
(Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - ※ Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - ※ Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - ※ Incomplete insulation may cause dew condensation or water dropping.
- Refrigerant is charged in the outdoor unit.
As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 ~ 18
φ 9.52	34 ~ 42
φ 12.7	49 ~ 61



⑦ Drain pipe

Caution

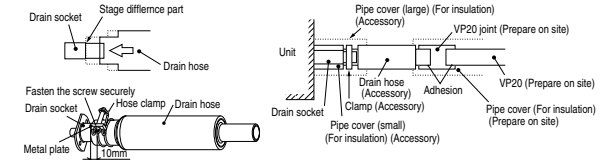
- Install the drain pipe according to the installation manual in order to drain properly.
Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

⑦ Drain pipe (continued)

Work procedure

- Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp. Attach the hose clamp to the drain hose around 10mm from the end.

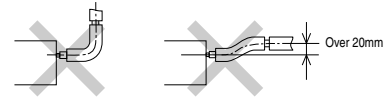
- Do not apply adhesives on this end.
- Do not use acetone-based adhesives to connect the drain socket.



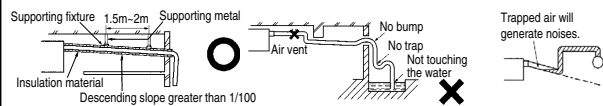
- Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-20 pipe (prepare on site).

※ As for drain pipe, apply VP-20 made of rigid PVC which is on the market.

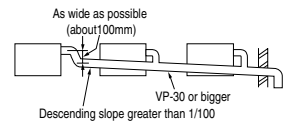
- Make sure that the adhesive will not get into the supplied drain hose.
It may cause the flexible part broken after the adhesive is dried up and gets rigid.
- The flexible drain hose is intended to absorb a small difference at the unit or installation of drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
 - Do not set up air vent.



- When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.

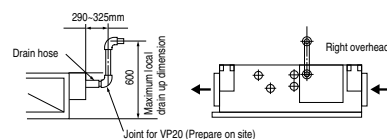


- Insulate the drain pipe.

- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
※ After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

- The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.

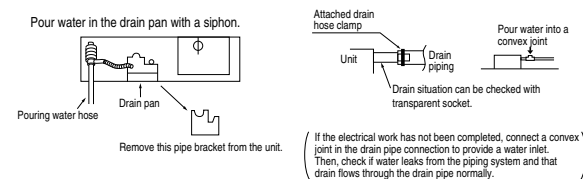


Drain test

- Conduct a drainage test after completion of the electrical work.
- During the trial, make sure that drain flows properly through the piping and that no water leaks from connections.
- In case of a new building, conduct the test before it is furnished with the ceiling.
- Be sure to conduct this test even when the unit is installed in the heating season.

Procedures

- Supply about 1000 cc of water to the unit through the air outlet by using a feed water pump.
- Check the drain while cooling operation.



⑦ Drain pipe (continued)

Drain pump operation

- In case electrical wiring work finished

Drain pump can be operated by remote controller (wired).

For the operation method, refer to **Operation for drain pump** in the installation manual for wiring work.

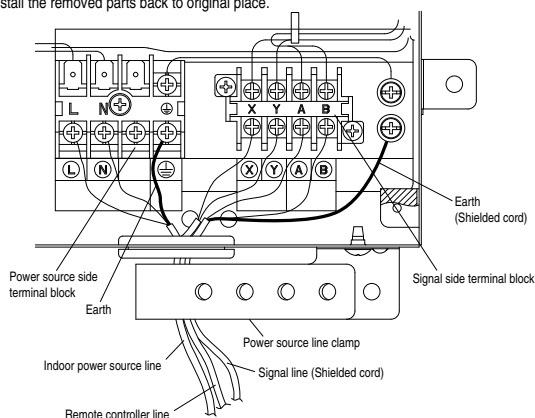
- In case electrical wiring work not finished

Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector CNB is disconnected, and then the power supply (230VAC on the terminal block ① and ②) is turned ON. Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

⑧ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type grounding work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

1. Remove a lid of the control box (3 screws) and the wiring cover (2 screws).
2. Hold each wiring inside the unit and fasten them to terminal block securely.
3. Fix the wiring with clamps.
4. Install the removed parts back to original place.



⑨ Check list after installation

- Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	





(i) Wall-mounted type (FDK)

PHA012D033

① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Installation-related items

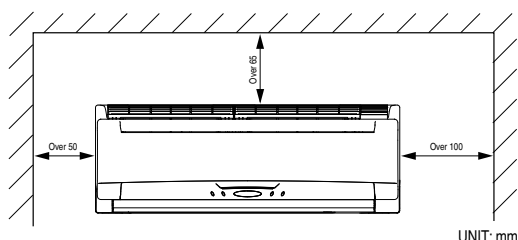
Mounting plate	Tapping screw	Insulation	Strap
			
1	10	1	4
Attached to the backside of the indoor unit.	For the mounting plate, 4mm (dia.) x 25mm (length)	For heat insulation, 50mm x 160mm	For wire clamp

② Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 23°C and relative humidity is lower than 80%.
(This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.)
 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
(A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)

- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

Space for installation and service

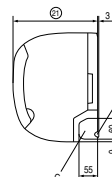
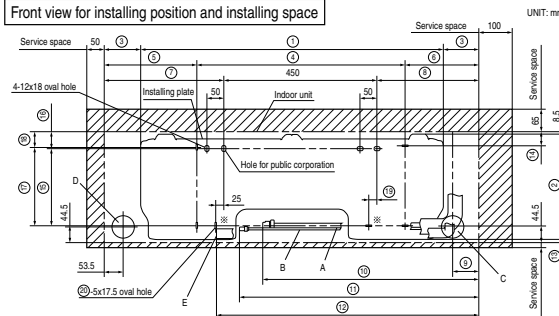


ATTENTION

- Secure a working space for inspection and maintenance.

③ Preparation before installation

Front view for installing position and installing space

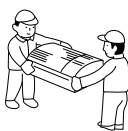


Symbol	
A	Gas piping
B	Liquid piping
C	Wall pulling hole for right rear piping
D	Wall pulling hole for left rear piping
E	Drain piping
F	Outlet for wiring
G	Outlet for piping

Symbol	Type 22-56	Type 71
①	693	886
②	284.2	301.8
③	73.5	106
④	-	610
⑤	-	269
⑥	-	219
⑦	207.5	349
⑧	182.5	299
⑨	63.5	77
⑩	533.5	633.5
⑪	603.5	703.5
⑫	515	772
⑬	5.3	7.7
⑭	-	43
⑮	220.5	221.5
⑯	47.5	49.5
⑰	-	225
⑱	-	46
⑲	0	25
⑳	2 (※)	6
㉑	259	248

④ Installation of indoor unit

Haulage



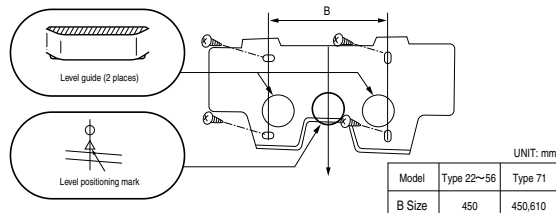
ATTENTION

- In carrying the unit into an installation site, carry it in the original packaging to a point as close to the proposed installation site as possible.
- When the unit needs to be unpacked during haulage due to a compelling reason, wrap it with nylon slings or the like to prevent possible damages.
Note: Do not hold the unit by the diffuser lower in carrying it.
- When the unit needs to be laid on a floor after unpacking, always lay it with its front facing upward.

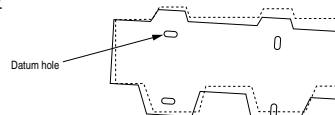
Installation of the mounting plate

ATTENTION

- This unit cannot be installed directly onto a wall surface. Regardless of the surface it is to be installed onto, you should use the mounting plate supplied with the unit.
- Install it securely by spotting a structural member running underneath the wall (stud or the like) and after ascertaining its levelness.

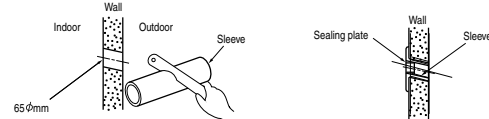


- The levelness of the mounting plate should be adjusted with the four fixing screws fastened temporarily.



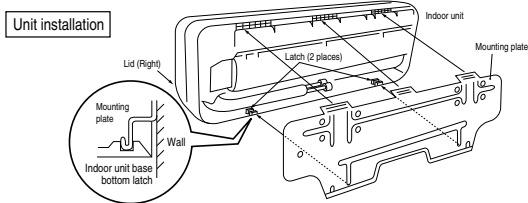
- Rotate the plate around the datum hole to achieve the levelness.

Hints for making a hole on a wall

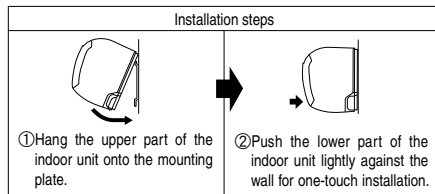


- Give a descending grade of 5° from the interior to the exterior.

④ Installation of indoor unit (continued)



- To remove the unit from the mounting plate, first remove the right and left lids and then disengage the indoor unit base bottom latches.



⑤ Wiring-out position and wiring connection

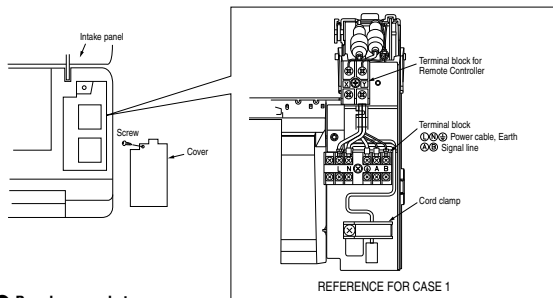
- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
- Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

CASE 1 : MODEL 22 ~ 56, CASE 2 : MODEL 71

1. Open the intake panel. (Pull the lower part of the intake panel holding both ends, disengage the latches and then lift it until you feel some drag. The intake panel will stay open at an angle of about 60°)
2. Remove the screw and detach the cover.
3. Connect the remote control line to the upper one of the two terminal blocks provided in the control box.
4. Connect the power cable, grounding line and signal line to the lower terminal block.
5. Attach the cover and fasten the screw.
6. Close the intake panel.

(Note)

- Connect each line to terminal block according to number on label of terminal block.



● Panel removal steps

1. Remove the cap.(CASE1.only)
2. Remove the fixing screw A and detach the unit bottom guide.(CASE1.only)
3. Remove the fixing screw B.
4. Pull the lower part of the front panel off the unit toward you, and then push it up to detach its upper part from the unit. (Disengage three hooks located on the top part)

● Panel attachment steps

1. Always remove the air filter beforehand.
2. Place the front panel over the unit.
3. Engage it onto the unit by pressing the areas marked with ◀ in the drawing from the front.
4. Fasten the fixing screw B.
5. Set the air filter.
6. Attach the unit bottom guide and fasten the fixing screw A.(CASE1.only)
7. Attach the cap. (Plug it in securely until the end so that it won't come off easily) (CASE1.only)

Fig.1(CASE1)

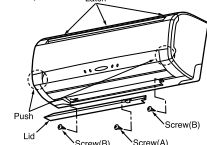
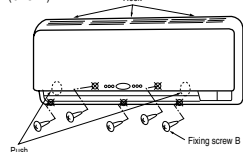


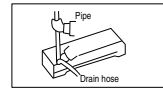
Fig.2(CASE2)



⑥ Shaping of pipes and drain hoses

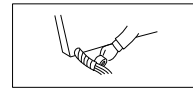
(When it is routed through the rear)

○ Shaping of pipes



- Hold the root of the pipe to change its direction, straighten it and then shape it.

○ Tape wrapping

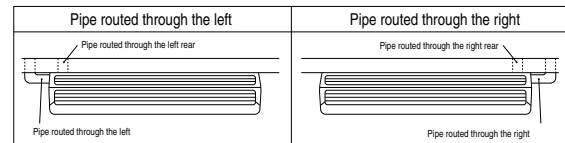


- Wrap a tape for the length that corresponds to a penetration through the wall.
- The connecting wires must be wrapped together with the pipe shape it.

Make sure that wires are connected securely onto the terminal block, before you dress them with a tape after shaping the pipe.

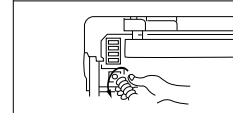
(Points for attention when the pipe is routed through the left or the rear of the unit.)

◁ View from the top ▷



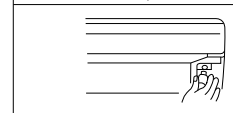
◁ Steps to change drain hose connection positions ▷

1. Remove the drain hose.



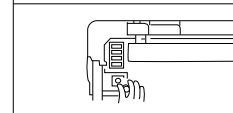
- Turn the drain hose and pull it out.

2. Remove the drain cap and heat insulating material.



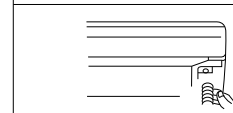
- Remove it either manually or with pliers.

3. Plug in the drain cap and heat insulating material.



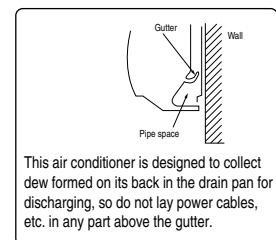
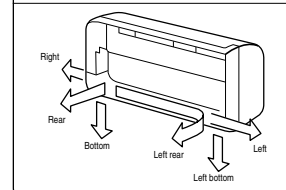
- Plug the drain cap removed in the step 2 securely into the hole with a hexagonal wrench or the like. Note: Pay attention that a drain cap not properly plugged in can cause a water leak.

4. Connect the drain hose.



- Insert the drain hose securely by turning it. Note: Pay attention that a drain hose not properly plugged in can cause a water leak.

The pipe can be routed through the rear, left, left rear, right or bottom of the unit.



This air conditioner is designed to collect dew formed on its back in the drain pan for discharging, so do not lay power cables, etc. in any part above the gutter.

⑦ Refrigerant pipe

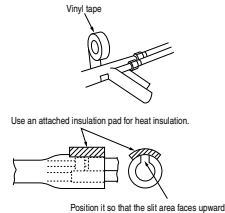
Caution

- Use the new refrigerant pipe.
When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation.
In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
※ Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
(Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
※ Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
※ Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
※ Incomplete insulation may cause dew condensation or water dropping.
- Refrigerant is charged in the outdoor unit.
As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ6.35	14 to 18
φ9.52	34 to 42
φ12.7	49 to 61
φ15.88	68 to 82



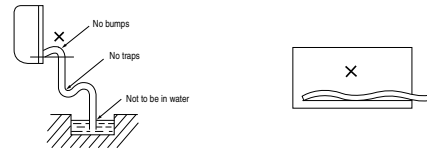
⑧ Drain pipe

Caution

- Install the drain pipe according to the installation manual in order to drain properly.
Imperfection in draining may cause flood indoors and wetting the household goods, etc.
 - Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
 - Connect the pipe securely to avoid water leakage from the joint.
 - Insulate the pipe properly to avoid condensation drop.
 - Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
 - Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.
- A general-purpose hard PVC pipe VP-16 can be connected to the drain hose tip as a part of drain piping.
 - Drain piping must be given a descending grade so that drain water may flow smoothly and it must not have any trap or bump within the system.
(The pipe can be routed through the left, right, rear or bottom of the unit)
Hard PVC pipes (VP-16) laid indoors must be kept warm.

⑧ Drain pipe (continued)

- Pour water into the drain pan placed underneath the heat exchanger to make sure that it is properly drained outdoors.
(For removal of the front panel, refer to ⑤ Wiring-out position and wiring connection in this manual.)



Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan.
- Do drain test even if installation of heating season.

⑨ Check list after installation

- Check the following items after all installation work completed.

Check if:	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

(j) Ceiling suspended type (FDE)

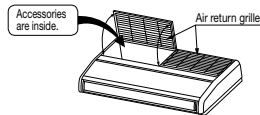
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① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Accessory item

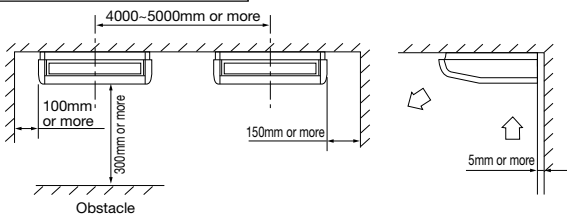
For unit hanging	For refrigerant pipe	For drain pipe	For air return grille
Flat washer (M10)	Pipe cover (large)	Drain hose (with clamp)	Fixing bracket
Paper pattern	Pipe cover (small)	Fixing bracket	Screw (M4)
		Heavy insulation	
			Screw
8	1	1	4
For unit hanging	For heat insulation of gas pipe	For heat insulation of liquid pipe	For fixing of pipe cover
			For drain pipe connection
			For fixing of drain hose
			For installing of fixing bracket
			For drain hose
			For fixing air return grille



② Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 23°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.
 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation. (A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- When plural indoor units are installed nearby, keep them away for more than 4 to 5m.

Space for installation and service



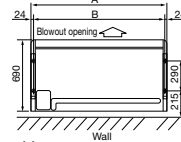
③ Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
 - For grid ceiling
 - When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
 - In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
 - When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

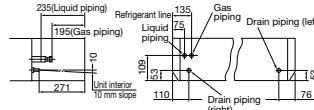
③ Preparation before installation (continued)

Pitch of suspension bolts and pipe position

Pitch of suspension bolts

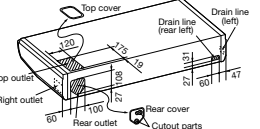


Pipe position



Series	type	A	B
Single Split (PAC) series	40 to 50type	1070	1022
	60 to 71type	1320	1272
	100 to 140type	1620	1572
VRF (KX) series	36 to 56type	1070	1022
	71type	1320	1272
	112 to 140type	1620	1572

Location of pipe outlets



※The outlet through which the pipings are taken out is available in three directions.

Haulage

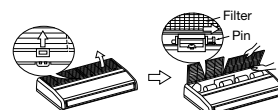
- Move the box as close to the installation area as possible packed.
- If it must be unpacked, wrap the unit with a nylon sling, and be careful not to damage the unit.
- If you need to lay the unit on a floor after unpacking, always put it with the intake grille facing upward.



Preparation before installation

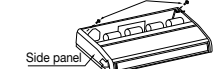
1. Remove the air return grille.

Slide stoppers (4 places) of the catches, then pull out the pins (4 or 6 places).



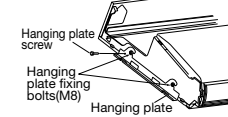
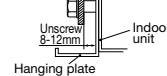
2. Remove the side panel.

Remove the screw and detach the side panel by sliding it toward the direction indicated by the arrow mark. Side panel screw (1 each on the left and right) (M4)



3. Remove the hanging plate.

Remove the screw, and then loosen the fixing bolts.



④ Remote controller

Installation of remote controller

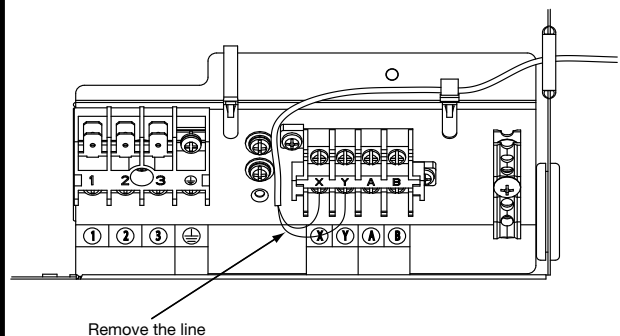
Up to two receiver or wired remote controller can be installed in one indoor unit group.

- When both wired and wireless remote controller are used
 - It is necessary to set wired or wireless remote controller as slave. (For the method of changing the setting, refer to the installation manual attached to remote controller or wireless kit.)

- When wired remote controller are used only (wireless type)
 - It is necessary to remove the line that is connected to the receiver. Remove signal line connected to the receiver from primary side of terminal block (X, Y).

ATTENTION

- ① Insulate with tape the removed line.
- ② The LED of that removed connector will not be able to make any indication.



⑤ Installation of indoor unit

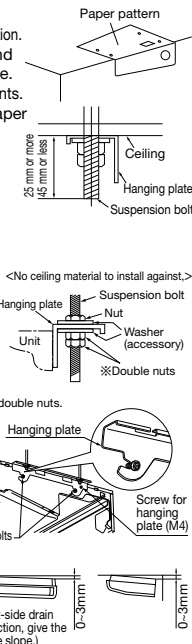
Work procedure

- Select the suspension bolt locations and the pipe hole location.
 - Use enclosed paper pattern as a reference, and drill the holes for the suspension bolts and pipe.
 - ※Decide the locations based on direct measurements.
 - Once the locations are properly placed, the paper pattern can be removed.
- Install the suspension bolts in place.
- Fix with 4 suspension bolts, which can endure load of 500N.
- Check the measurements given at the right figure for the length of the suspension bolts.
- Fasten the hanging plate onto the suspension bolts.
 - <When installed against a ceiling material,>
 - <No ceiling material to install against,>
- Install the unit to the hanging plate.
 - Slide the unit in from front side to get it hanged on the hanging plate with the bolts.
 - Fasten the four fixing bolts (M8: 2 each on the left and right sides) firmly.
 - Fasten the two screws (M4: 1 each on the left and right sides).

WARNING : Hang a side panel on from the panel side to the rear side and then fasten it securely onto the indoor unit with screws.

※To ensure smooth drain flow, install the unit with a descending slope toward the drain outlet.

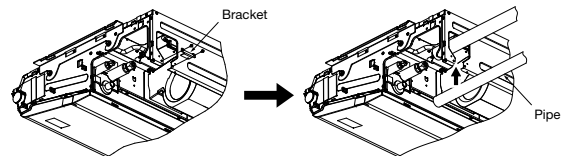
CAUTION : Do not give the reversed slope, which may cause water leaks.



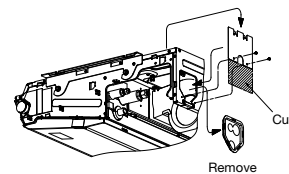
⑥ Refrigerant pipe (continued)

The pipe can be connected from three different directions. (back, reight, top)

- When the pipe is routed through the back.
 - If the bracket is removed, piping work will become easy.
 - ※After piping, reinstall the removed bracket.



- When the pipe is routed through the back.
 - Cut the removed top cover, and install to the rear panel instead of rear cover.



⑥ Refrigerant pipe

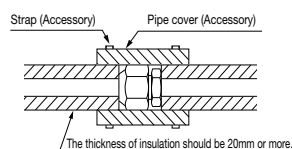
Caution

- Use the new refrigerant pipe.
 - When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
 - Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - ※Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - ※Bend the pipe with as big radius as possible and do not bend the pipe repeatedly.
 - In addition, do not twist and crush the pipes.
 - Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - ※Incomplete insulation may cause dew condensation or water dropping.
- Refrigerant is charged in the outdoor unit.
 - As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



⑦ Drain pipe

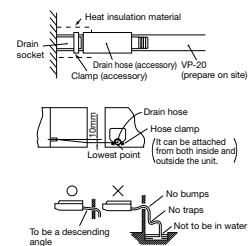
The drain pipes may face out towards the back to the left, or to the right side.

Caution

- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

- Insert drain hose completely to the base, and tighten the drain hose clamp securely. (adhesive must not be used.)
 - ※When plumbing on the left side, move the rubber plug and the cylindrical insulating materials by the pipe connecting hole on the left side of the unit to the right side.
- Beware of a possible outflow of water that may occur upon removal of a drain plug.
- Fix the drain hose at the lowest point with a hose clamp supplied as an accessory.
 - Give a drain hose a gradient of 10mm as illustrated in the right drawing by laying it without leaving a slack.
 - Take head of electrical cables so that they may not run beneath the drain hose.
- A drain hose must be clamped down with a hose clamp.
 - There is a possibility that drain water overflows.
- Connect VP-20(prepare on site) to drain hose. (adhesive must not be used.)
 - Use commercially available rigid PVC general pipe VP-20 for drain pipe.
- Do not to make the up-down bending and trap in the mid-way while assuming that the drain pipes is downhill. (more than 1/100)
 - Never set up air vent.
- Insulate the drain pipe.
 - Insulate the drain hose clamp with the heat insulation supplied as accessories.
 - When the unit is installed in a humid place, consider precautions against dew condensation such as heat insulation for the drain pipe.



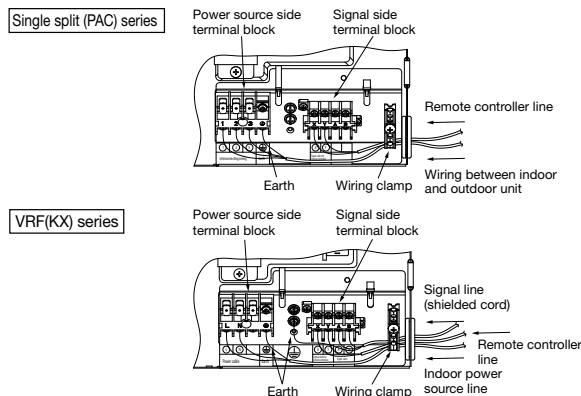
Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan.
- Do drain test even if installation of heating season.

⑧ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
- Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

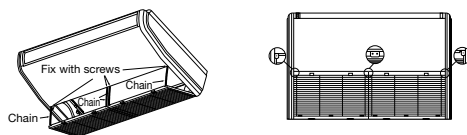
- Remove a lid of the electrical box (2 screws).
- Hold each wiring inside the unit and connect to a terminal block surely.
- Fix the wiring by clamps.
- Install the removed parts back to original place.



⑨ Attaching the air return grille

- The air return grille must be attached when electrical cabling work is completed.

- Fix the chains tied to the air return grille onto the indoor unit with screws supplied as accessories (4 pieces).
- Close the air return grille. This completes the unit installation work.



⑩ Check list after installation

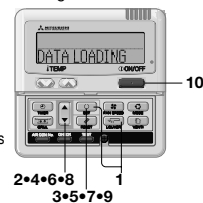
- Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

⑪ How to set the airflow direction

It is possible to change the movable range of the louver on the air outlet from the wired remote controller. Once the top and bottom position is set, the louver will swing within the range between the top and the bottom when swing operation is chosen. It is also possible to apply different setting to each louver.

- Stop the air conditioner and press **SET** button and **LOUVER** button simultaneously for three seconds or more.
 - The following is displayed if the number of the indoor units connected to the remote controller is one. Go to step 4.
 - The following is displayed if the number of the indoor units connected to the remote controller are more than one.



- Press **▲** or **▼** button. (selection of indoor unit) • Select the indoor unit of which the louver is set.

[EXAMPLE]
1/0000 1/0001 1/0002 1/0003

- Press **SET** button. (determination of indoor unit) • Selected indoor unit is fixed.

[EXAMPLE]
1/0001 (displayed for two seconds)
DATA LOADING
1/0001

- Press **▲** or **▼** button. (selection of louver No.) • Select the louver No. to be set according to the right figure.

[EXAMPLE]
1/0001 1/0002 1/0003 1/0004

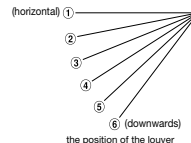
- Press **SET** button. (Determination of louver No.)

- The louver No. to be set is confirmed and the display shows the upper limit of the movable range.

[EXAMPLE] If No.1 louver is selected,
No.1 UPPER2 (current upper limit position)

- Press **▲** or **▼** button. (selection of upper limit position)

- Select the upper limit of louver movable range. "position 1" is the most horizontal, and "position 6" is the most downward. "position --" is to return to the factory setting. If you need to change the setting to the default setting, use "position --".



No.1 UPPER1 (the most horizontal)
No.1 UPPER2 (current upper limit position)
No.1 UPPER3 (the most downwards)
No.1 UPPER4 (the most downwards)
No.1 UPPER5 (the most downwards)
No.1 UPPER6 (the most downwards)
No.1 UPPER-- (return to the default setting)

- Press **SET** button. (Fixing of the upper limit position)

- The upper limit position is fixed and the setting position is displayed for two seconds. Then proceed to lower limit position selection display.

[EXAMPLE]
No.1 UPPER2 (displayed for two seconds)
No.1 LOWER5 (shows current setting)

- Press **▲** or **▼** button. (Selection of lower limit position)

- Select the lower limit position of louver. "position 1" is the most horizontal, and "position 6" is the most downwards. "position --" is to return to the factory setting. If you need to change the setting to the default setting, use "position --".

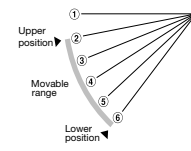
No.1 LOWER1 (the most horizontal)
No.1 LOWER2 (the most horizontal)
No.1 LOWER3 (the most horizontal)
No.1 LOWER4 (the most horizontal)
No.1 LOWER5 (the most horizontal)
No.1 LOWER6 (the most downwards)
No.1 LOWER-- (return to the default setting)

- Press **SET** button. (Fixing of the lower limit position)

- Upper limit position and lower limit position are fixed, and the set positions are displayed for two seconds, then setting is completed.

- After the setting is completed, the louver which was set moves from the original position to the lower limit position, and goes back to the original position again. (This operation is not performed if the indoor unit and/or indoor unit fan is in operation.)

[EXAMPLE]
No.1 LOWER6 (displayed for two seconds)
SET COMPLETE
No.1



- Press **ON/OFF** button.

- Louver adjusting mode ends and returns to the original display.

Caution

If the upper limit position number and the lower limit position number are set to the same position, the louver is fixed at that position auto swing does not function.

ATTENTION

If you press **RESET** button during settings, the display will return to previous display. If you press **ON/OFF** button during settings, the mode will be ended and return to original display, and the settings that have not been completed will become invalid.

When plural remote controllers are connected, louver setting operation cannot be set by slave remote controller.








(k) Floor standing (with casing) type (FDL)

PGD012D005

1 Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Accessory item

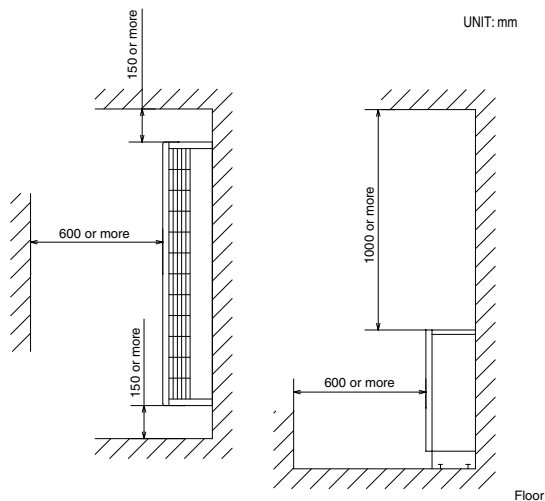
For installation	Pipe cover	For refrigerant pipe	Strap	Joint pipe	For drain pipe
 					
2	2	1	1	8	1
For installing remote controller (M4 x 12)	For heat insulation of gas pipe	For on site side of liquid pipe (150 mm length)	For liquid pipe between Heat exchanger/ expansion valve box (70 mm length)	For pipe cover fixing	For connecting gas pipe
					For drain pipe connecting

2 Selection of installation location for the indoor unit

This indoor unit can be installed either to the floor or to the wall. Select a location with the following suitable conditions.

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 23°C and relative humidity is lower than 80%.
 This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.
 If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
 (A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause the unit falling down and injury.
- When plural indoor units are installed nearby, keep them away for more than 4 to 5m.

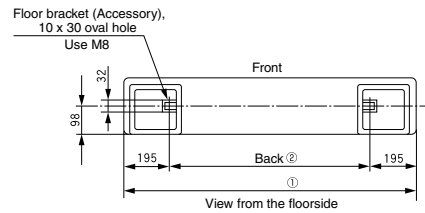
Space for installation and service



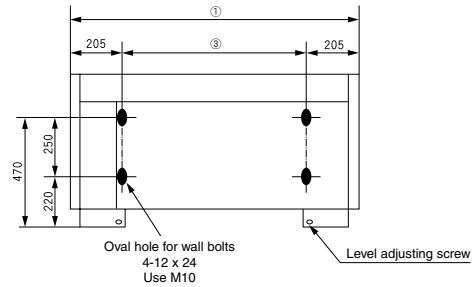
3 Preparation before installation

Position of bolts for floor bracket and for wall installation bolts

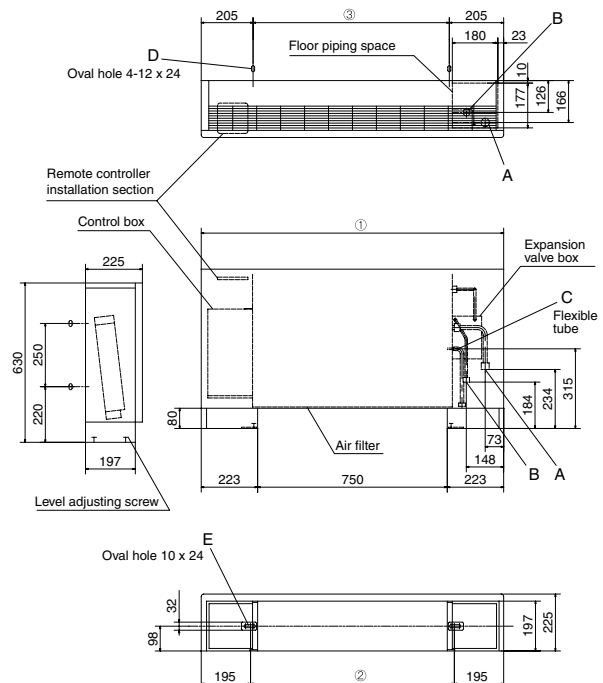
Position of floor bracket bolts



Position of wall installation bolts



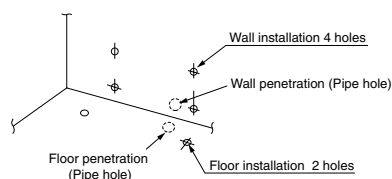
Item	①	②	③
Model No.			
Type 28,45,56	1,196	806	786
Type 71	1,481	1,091	1,071



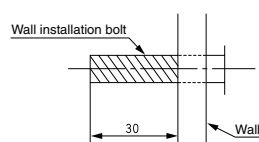
Symbol	Contents
A	Refrigerant gas side piping (provided)
B	Refrigerant liquid side piping
C	Drain piping (provided)
D	Wall installation hole
E	Floor bracket (provided)

④ Installation of indoor unit

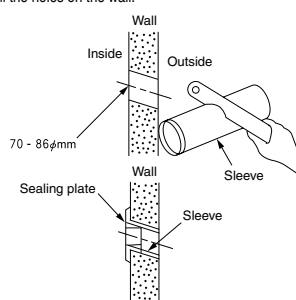
Choose the floor bracket bolt location or the wall installation bolt location, and the location of the pipe hole. Open the holes for the bolts and the pipe. Choose the positions by the measured values.



Strictly adhere to the following measurements for the wall installation bolts.

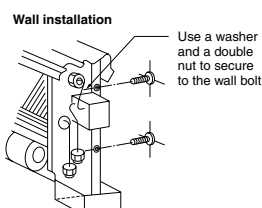
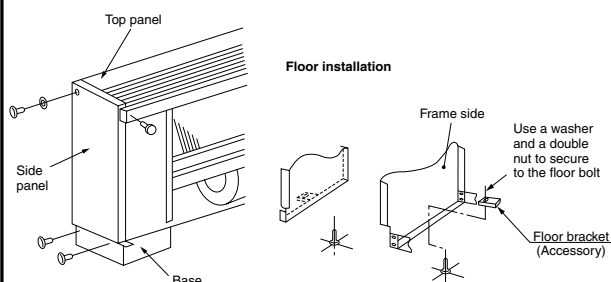
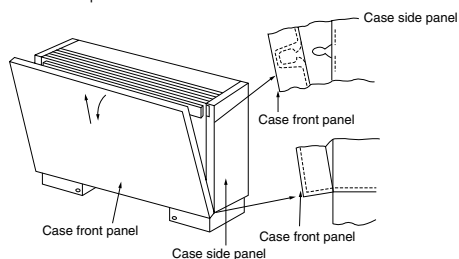


Here is the method to drill the holes on the wall.



- (1) Remove the front panel and the side panel.
- (2) Eliminate looseness with a level adjusting screw.
- (3) Firmly secure as instructed below.

The side panel and the front panel have been installed.



⑤ Refrigerant piping

Caution

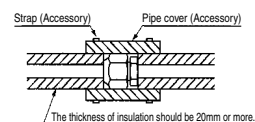
- Use the new refrigerant pipe.
- When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation.
- In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
- Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe.
- Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

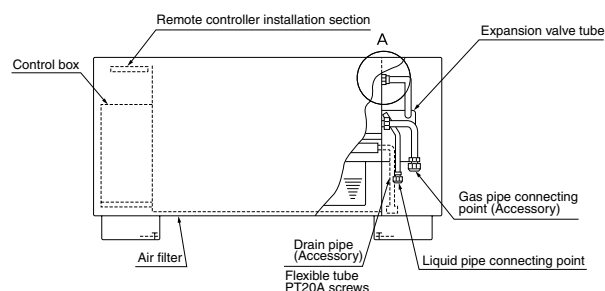
1. Remove the flare nut and blind flanges on the pipe of the indoor unit. (The connection of Liquid/Gas side of heat exchange, Inlet/outlet of the expansion valve box) (4 places)
 - ※ Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - Make sure to connect the liquid pipe between the heat exchanger and expansion valve box (indicated in Section A of the figure).
 - Pipes can be take out in 2 directions, from the rear and from the floor.
 - Use the provided joint pipes to connect gas pipes. Connect in the direction that the pipe will be removed.
 - ※ Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - ※ Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
3. Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - ※ Incomplete insulation may cause dew condensation or water dropping.
4. Refrigerant is charged in the outdoor unit

As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



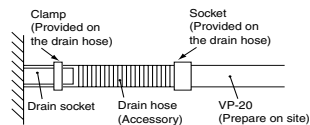
- There are "System name" and "Refrigerant amount" columns on the name plate of the outdoor unit. Write the system name and the amount of the refrigerant in the columns.



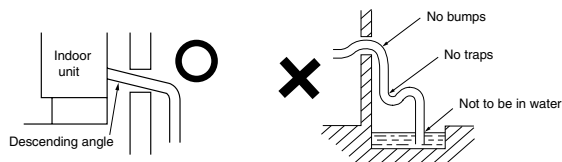
⑥ Drain pipe

Caution

Insert the attached drain hose to the indoor unit completely, tighten the drain hose with the attached clamp and secure it well. (Disapprove of the adhesive joint)



- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.
- Insert the attached drain hose completely to the base.
- Tighten the drain hose with the strap and secure it well.



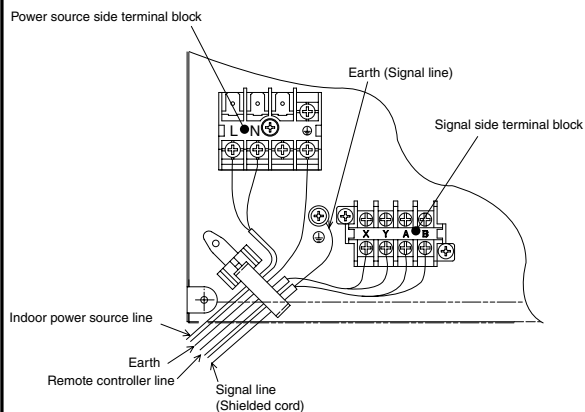
Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan.
- Do drain test even if installation of heating season.

⑦ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country. Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

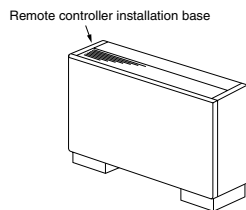
1. Remove a lid of the control box (2 screws).
2. Hold each wiring inside the unit and fasten them to terminal block securely.
3. Fix the wiring with clamps.
4. Install the removed parts back to original place.



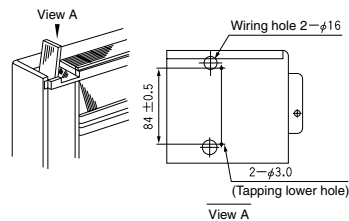
⑧ Remote Controller

Caution

- Appearance
When installing the remote controller and selecting the line of remote controller of the unit, refer to the Electric Wiring Instruction Manual provided in the unit and Installation Manual provided for wired remote controller.

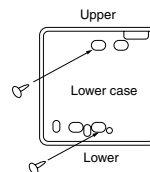


- (1) Remove the front panel



- (2) Installation of remote controller

- Install the lower case with the provided tapping screws (M4 x 12)

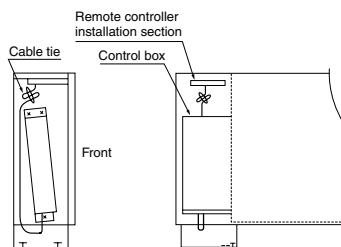


- (3) Caution for installing the remote controller

- Make sure that the cord length is too much long 30 cm or more.
(It is necessary when remove the front panel and servicing the unit.)

- (4) Wiring route

- Connect wires to the terminal block through the wiring hole on the back of the control box.
- Bind the remaining length of the wire with a band.



- (Check)

- Ensure that the wires are not hitting the edges.
- Conduct a test run to confirm there are no problems.

⑨ Check list after installation

- Check the following items after all installation work completed.

Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

(I) Floor standing (without casing) type (FDFU)

PGD012D006

① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Accessory item

For installation	Pipe cover	Pipe cover	Strap	Joint pipe	For drain pipe
Floor bracket	Pipe cover	Pipe cover	Strap	Joint pipe	Drain hose
2	2	1	1	1	1
	For heat insulation of gas pipe	For on site side of liquid pipe (150 mm length)	For liquid pipe between Heat exchanger/ expansion valve box (70 mm length)	For pipe cover fixing	For connecting gas pipe

② Selection of installation location for the indoor unit

This indoor unit can be installed either to the floor or to the wall. Select a location with the following suitable conditions.

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 23°C and relative humidity is lower than 80%.

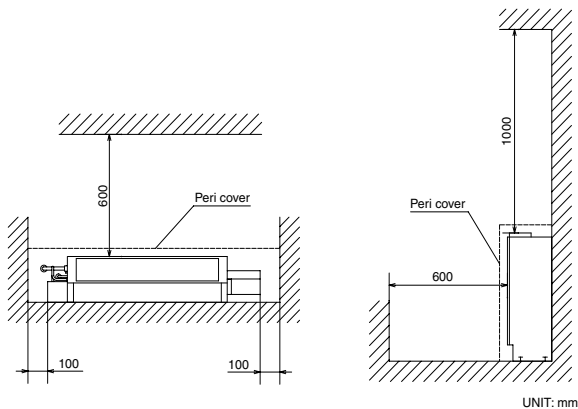
This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.

If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.

 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.

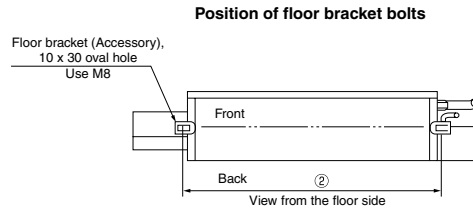
(A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause the unit falling down and injury.
- When plural indoor units are installed nearby, keep them away for more than 4 to 5m.

Installation spaces for the indoor unit

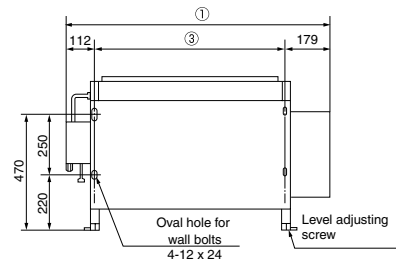


③ Preparation before installation

Position of bolts for floor bracket and for wall installation bolts

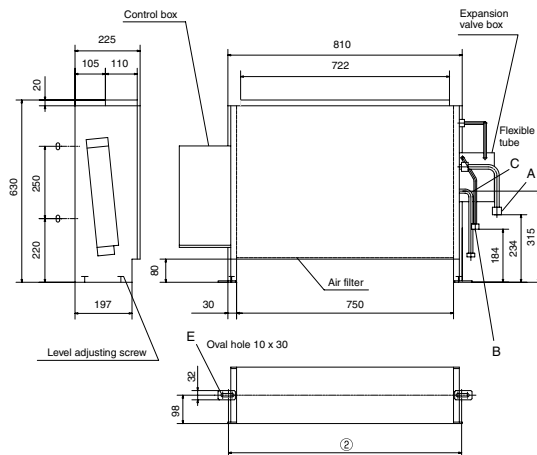
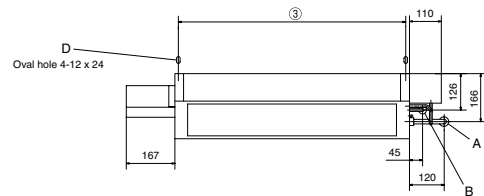


Position of wall installation bolts



Model No.	Item	①	②	③
Type 28,45,56		1,150	806	786
Type 71		1,435	1,091	1,071

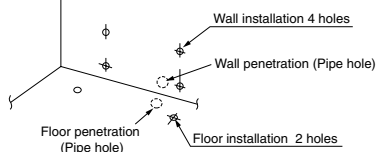
UNIT:mm



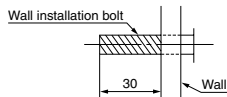
Symbol	Contents
A	Refrigerant gas side piping (provided)
B	Refrigerant liquid side piping
C	Drain piping (provided)
D	Wall installation hole
E	Floor bracket (provided)

④ Installation of indoor unit

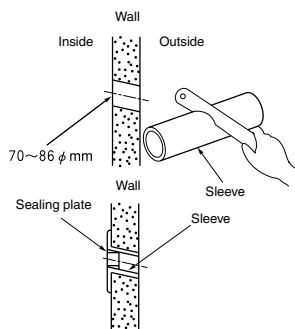
Choose the floor bracket bolt location or the wall installation bolt location, and the location of the pipe hole. Open the holes for the bolts and the pipe. Choose the positions by the measured values.



Strictly adhere to the following measurements for the wall installation bolts.

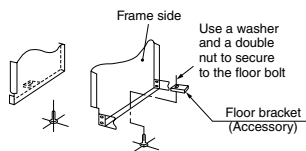


Here is the method to drill the holes on the wall.

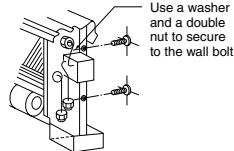


- (1) Eliminate looseness with a level adjusting screw.
- (2) Firmly secure as instructed below.

Floor installation

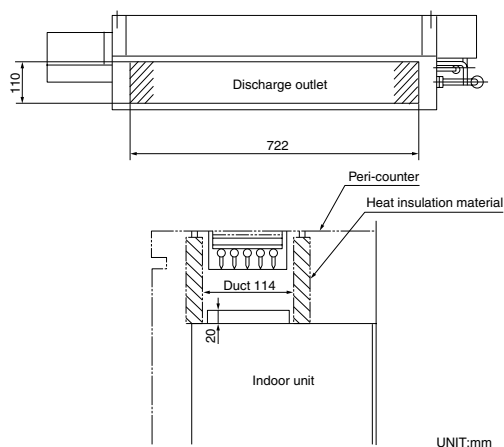


Wall installation



Example of discharge duct installation

- Heat insulation materials, a discharge grille and a peri-counter are not included in the items supplied with a unit (to be prepared on site)
- A duct must be installed securely so that cooled air may not leak inside the peri-counter.



⑤ Refrigerant piping

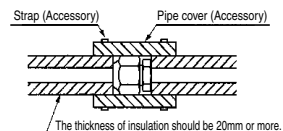
Caution

- Use the new refrigerant pipe.
- When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigerant pipe installation.
- In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
- Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe.
- Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

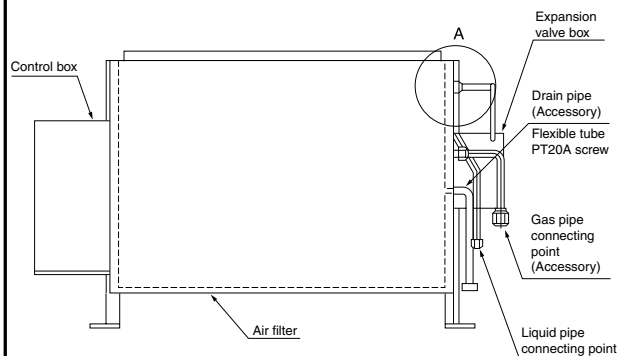
Work procedure

1. Remove the flare nut and blind flanges on the pipe of the indoor unit. (The connection of Liquid/Gas side of heat exchange, Inlet/outlet of the expansion valve box) (4 places)
 - ※ Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out (as the indoor unit is sometimes pressured.)
 2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - Make sure to connect the liquid pipe between the heat exchanger and expansion valve box (indicated in Section A of the figure).
 - Pipes can be take out in 2 directions, from the rear and from the floor.
 - Use the provided joint pipes to connect gas pipes. Connect in the direction that the pipe will be removed.
 - ※ Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - ※ Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
 3. Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - ※ Incomplete insulation may cause dew condensation or water dropping.
 4. Refrigerant is charged in the outdoor unit
- As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



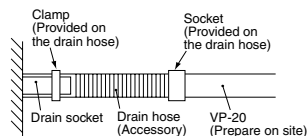
- There are "System name" and "Refrigerant amount" columns on the name plate of the outdoor unit. Write the system name and the amount of the refrigerant in the columns.



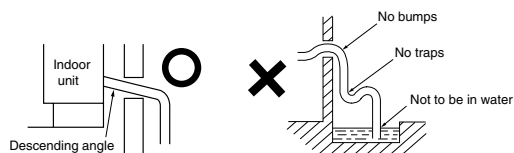
⑥ Drain pipe

Caution

Insert the attached drain hose to the indoor unit completely, tighten the drain hose with the attached clamp and secure it well. (Disapprove of the adhesive joint)



- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.
- Insert the attached drain hose completely to the base.
- Tighten the drain hose with the strap and secure it well.



Drain test

- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan.
- Do drain test even if installation of heating season.

⑧ Check list after installation

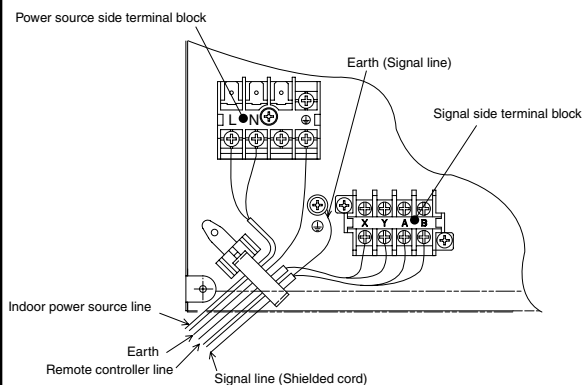
- Check the following items after all installation work completed.

Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

⑦ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country. Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

1. Remove a lid of the control box (2 screws).
2. Hold each wiring inside the unit and fasten them to terminal block securely.
3. Fix the wiring with clamps.
4. Install the removed parts back to original place.



(m) Floor standing-2 way type (FDFW)

PGF012D001

① Before installation

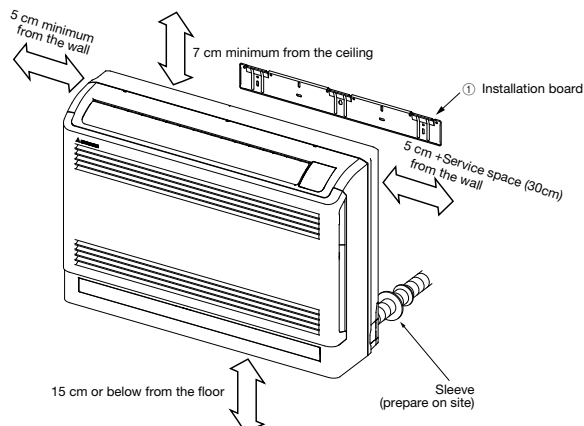
- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Standard accessories (Installation kit)		Q'ty	Prepare on site (If necessary)		Q'ty
①	Installation board (Attached to the rear of the indoor unit)	1	a	Sealing plate	1
②	Tapping screws (for installation board $\phi 4$ mm by 25mm)	9	b	Sleeve	1
③	Pipe cover (200mm)	1	c	Inclination plate	1
④	Band	2	d	Putty	1
			e	Drain hose (extension hose)	1
			f	Piping cover (for insulation of connection piping)	1

② Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 23°C and relative humidity is lower than 80%.
(This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.)
 - Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
(A beam from lighting device sometimes affects the infrared receiver for the wireless remote controller and the air conditioner might not work properly.)
 - Areas where the unit or the wall will not vibrate.
 - Install the indoor unit in front of flat wall.
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.

Space for installation and service

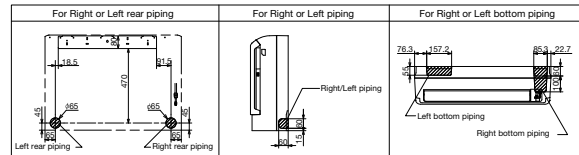
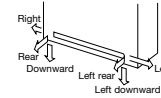


NOTE
In case the particular installation has relative humidity of 73% or higher, the operation mode may alternate between fan operation and cooling operation automatically in order to avoid dew formation on the indoor unit air supply port.

③ Preparation before installation

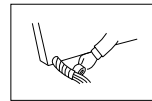
Indoor unit piping direction

Piping is possible in the rear, left, left rear, left downward, right or downward direction.



Installing the support of piping

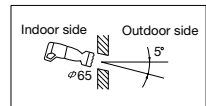
In case of piping in the right rear direction, tape the round of pipe and wiring.



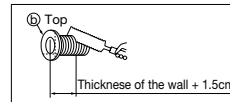
- Tape only the portion that goes through the wall.
- Always tape the wiring with the piping.

Drilling of holes and fixture of sleeve (Option parts)

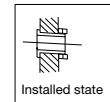
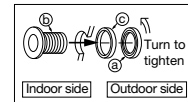
When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use pipe hole sleeve sold separately.



○ Drill a hole with whole core drill.



○ In case of rear piping draw out, cut off the lower and the right side portions of the sleeve collar.

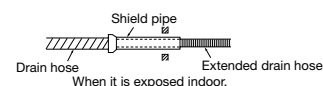


④ Drain pipe

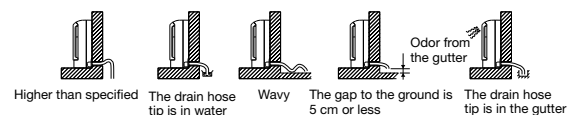
Caution

- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

- A general-purpose hard PVC pipe $\phi 16$ can be connected to the drain hose tip as a part of drain piping.
- Drain piping must be given a descending grade so that drain water may flow smoothly and it must not have any trap or bump within the system.
(The pipe can be routed through the left, right, rear or bottom of the unit)
Hard PVC pipes ($\phi 16$) laid indoors must be kept warm.
- Pour water into the drain pan placed under the heat exchanger to make sure that it is properly drained outdoors.
(For removal of the front panel, refer to ⑤ installation of indoor unit.)
- When the extended drain hose is through indoor, always use a shielded pipe (prepare on site) and ensure it is thermally insulated.



○ Avoid the following drain piping.



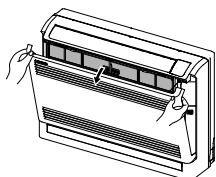
⑤ Installation of indoor unit

Open and detachment of the air inlet panel

- To open, pull the panel at both ends of upper part and release latches, and undo the strings. Then remove the panel.

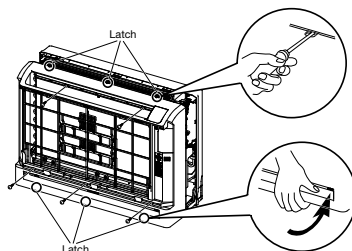
CAUTION:

When removing the air-inlet panel, be careful not to drop it on your feet.



How to remove the front panel

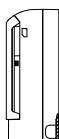
- 1 Remove the air inlet panel.
- 2 Remove the 5 set screws.
- 3 Remove the 3 latches in the upper section.
If the latches are difficult to remove, push the latch portion out using a screw driver, for example.
- 4 Move the lower part of the panel forward and remove the 6 latches in the under section.



Fixing of indoor unit

CAUTION:

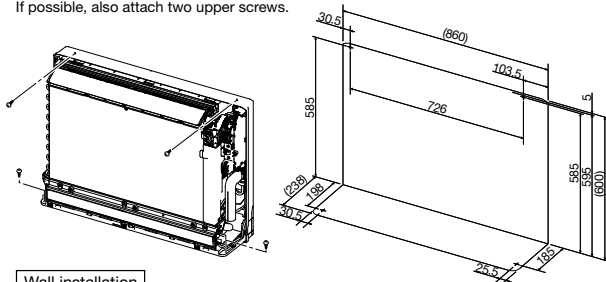
During the installation, do not lean on the control box or display, otherwise they may be damaged.



If there is an obstacle such as a cable cover, cut off the hatched part before installation.

Floor installation

Secure using lower 2 screws for floor installations.
If possible, also attach two upper screws.

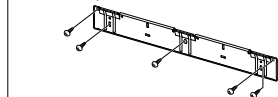


Wall installation

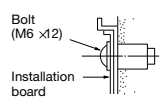
At first secure the installation board using 5 screws and the indoor unit using 2 screws.

1. Installation of installation board.

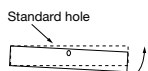
Look for the inside wall structures (intersediats support or pillar and finally install the unit after level surface has been checked.)



Fixing on concrete wall Use of nut anchor

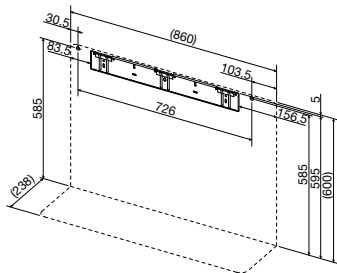
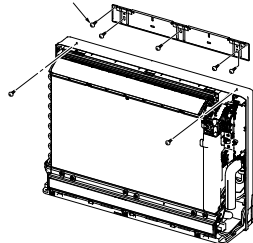


- Adjustment of the installation board in the horizontal direction is to be conducted with five screws in a temporary tightened state.
- Adjust so the board will be level by turning the board with the standard hole as the center.



2. Fixing of indoor unit

② Tapping screw



⑥ Refrigerant pipe

Caution

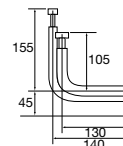
- Use the new refrigerant pipe.
- When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation.
- In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A.
- Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.
- Be careful not to stress the connecting refrigerant pipes.

Work procedure

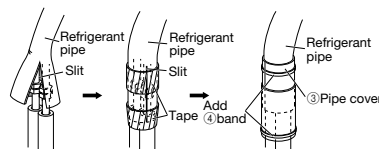
1. Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - ※ Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - ※ Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - ※ Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
3. Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - ※ Incomplete insulation may cause dew condensation or water dropping.
4. Refrigerant is charged in the outdoor unit.

As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

- Pass the refrigerant pipe through the piping hole to indoor side.
Arrange the pipes according to the direction of piping.

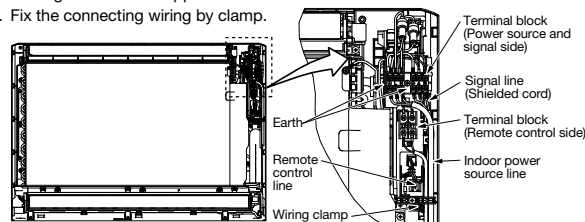


- Cover the coupling with insulator and then cover it with tapes.
Use an attached ③ pipe cover for heat insulation.



⑦ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
Be sure to use an exclusive circuit.
 - Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
 - Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
 - Be sure to do D type earth work.
 - For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
1. Remove the fixing screw of clamp.
 2. Connect the remote control line to the lower terminal block placed on the control box.
 3. Connect the power cable, grounding line and signal line to the upper terminal blocks.
 4. Fix the connecting wiring by clamp.

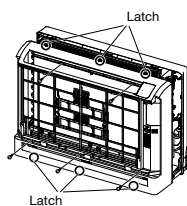


⑧ How to fit the front panel

How to fit the front panel

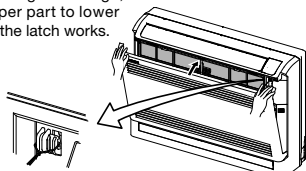
○ Fitting

- ① Do remove the air filter.
- ② Cover the body with the front panel.
- ③ Fit the 6 latches in the lower section.
- ④ Tighten the 5 set screws.
- ⑤ Fit the air filter.
- ⑥ Fit the air inlet panel.



Close and attachment of the air inlet panel

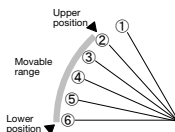
- To close, attach the panel after pulling the strings, hold the panel at both ends of upper part to lower downward and push it slightly until the latch works.



⑨ How to set the airflow direction

9. Press **SET** button. (Fixing of the lower limit position)

- Upper limit position and lower limit position are fixed, and the set positions are displayed for two seconds, then setting is completed.
- After the setting is completed, the louver which was set moves from the original position to the lower limit position, and goes back to the original position again. (This operation is not performed if the indoor unit and/or indoor unit fan is in operation.)



[Example]
No.2/2 L6 (displayed for two seconds)
SET COMPLETE
No.2

10. Press **ON/OFF** button.

- Louver adjusting mode ends and returns to the original display.

Caution

If the upper limit position number and the lower limit position number are set to the same position, the louver is fixed at that position auto swing does not function.

ATTENTION

If you press **RESET** button during settings, the display will return to previous display.
If you press **ON/OFF** button during settings, the mode will be ended and return to original display, and the settings that have not been completed will become invalid.

When plural remote controllers are connected, louver setting operation cannot be set by slave remote controller.

⑨ How to set the airflow direction

It is possible to change the movable range of the upper and lower louver on the air outlet from the wired remote controller. Once the top and bottom position is set, the louver will swing within the range between the top and the bottom when swing operation is chosen.

1. Stop the air conditioner and press **SET** button and **LOUVER** button simultaneously for three seconds or more.

- The following is displayed if the number of the indoor units connected to the remote controller is one. Go to step 4.

DATA LOADING
No.1

- The following is displayed if the number of the indoor units connected to the remote controller are more than one.

SELECT 1/0

1/0000

2. Press **▲** or **▼** button. (selection of indoor unit) ● Select the indoor unit of which the louver is set.

[EXAMPLE]
1/0000 1/0001 1/0002

3. Press **SET** button. (determination of indoor unit) ● Selected indoor unit is fixed.

[EXAMPLE]
1/0001 (displayed for two seconds)
DATA LOADING
No.1

4. Press **▲** or **▼** button. (selection of louver No.) ● Select the louver No. to be set according to the below figure.

[EXAMPLE]
No.1 No.2 No.3 No.4

5. Press **SET** button. (Determination of louver No.)

- The louver No. to be set is confirmed and the display shows the upper limit of the movable range.

[EXAMPLE] If No.2 louver is selected,
No.2/UPPER2

For FDFW type,
set louver No.2 (upper louver)

6. Press **▲** or **▼** button. (selection of upper limit position)

- Select the upper limit of louver movable range.

"position 1" is the most upwards, and "position 6" is the most horizontal.
"position --" is to return to the factory setting.
If you need to change the setting to the default setting, use "position --".

No.2/UPPER1 (the most upwards)

No.2/UPPER2

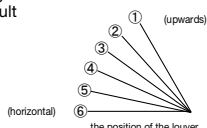
No.2/UPPER3

No.2/UPPER4

No.2/UPPER5

No.2/UPPER6 (the most horizontal)

No.2/UPPER-- (return to the default setting)



7. Press **SET** button. (Fixing of the upper limit position)

- The upper limit position is fixed and the setting position is displayed for two seconds. Then proceed to lower limit position selection display.

[EXAMPLE]
No.2/UPPER2 (displayed for two seconds)
No.2/LOWER

8. Press **▲** or **▼** button. (Selection of lower limit position)

- Select the lower limit position of louver.

"position 1" is the most upwards, and "position 6" is the most horizontal.
"position --" is to return to the factory setting. If you need to change the setting to the default setting, use "position --".

No.2/LOWER1 (the most upwards)

No.2/LOWER2

No.2/LOWER3

No.2/LOWER4

No.2/LOWER5

No.2/LOWER6 (the most horizontal)

No.2/LOWER-- (return to the default setting)

⑩ Airflow selection

It is possible to choose the combination of air flow from both upper and lower port or upper port only.

1. Stop the air conditioner.

2. Set the upper and lower limit position of the **louver No.1** (lower louver) from the wired remote control. For the method of changing the setting, refer to **⑨ How to set the airflow direction**.

- ① In case of selecting upper airflow
Set the upper and lower limit position to UPPER 2 and LOWER 2.
(No.1 UPPER 2 / LOWER 2)

- ② In case of selecting upper and lower airflow **Default setting**
Set the upper and lower limit position to UPPER 5 and LOWER 5.
(No.1 UPPER 5 / LOWER 5)

ATTENTION

Other combinations of lower louver position are invalid.

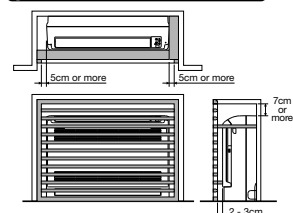
⑪ Concealed installation

Install the indoor unit according to the following instructions.

1. Be sure to keep the upper, right and left spaces according to the below figure.
2. Do not apply fine pitched lattice to conceal the unit.
3. The lattice should have the open rate of 70% or greater.
4. For changing the airflow direction to horizontal, set the upper limit position of the **louver No.2** (upper louver) as below from the wired remote control. For the method of changing the setting, refer to **⑨ How to set the airflow direction**.

Setting of louver No. 2

	Default setting	Concealed installation
Upper limit	Position 1	Position 3
Lower limit	Position 5	Position 5



CAUTION


Incorrect installation may cause problems such as non-cooling, non-warming, and condensation water leaking into the room.

⑫ Check list after installation

- Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	







(m) Duct Connected-Compact & Flexible type (FDUH)

PJC012D200 

① Before installation

- Install correctly according to the installation manual.
- Confirm the following points:
 - Unit type/Power supply specification
 - Pipes/Wires/Small parts
 - Accessory items

Accessory item

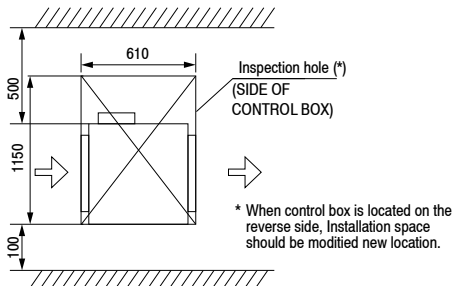
For refrigerant pipe			For drain pipe		
Pipe cover (big)	Pipe cover (small)	Strap	Transparent soft tube	Hose clamp (big)	Hose clamp (small)
					
1	1	4	1	1	1
For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For drain pipe connecting	For drain hose mounting	For drain hose mounting

② Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port.
 - Areas where fire alarm will not be accidentally activated by the air conditioner.
 - Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.
- If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigerant pipe and drain pipe.
- Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
- Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- Areas where there is no influence by the heat which cookware generates.
- Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
- Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

Space for installation and service

- Install the indoor unit at a height of more than 2.5m above the floor.



③ Preparation before installation

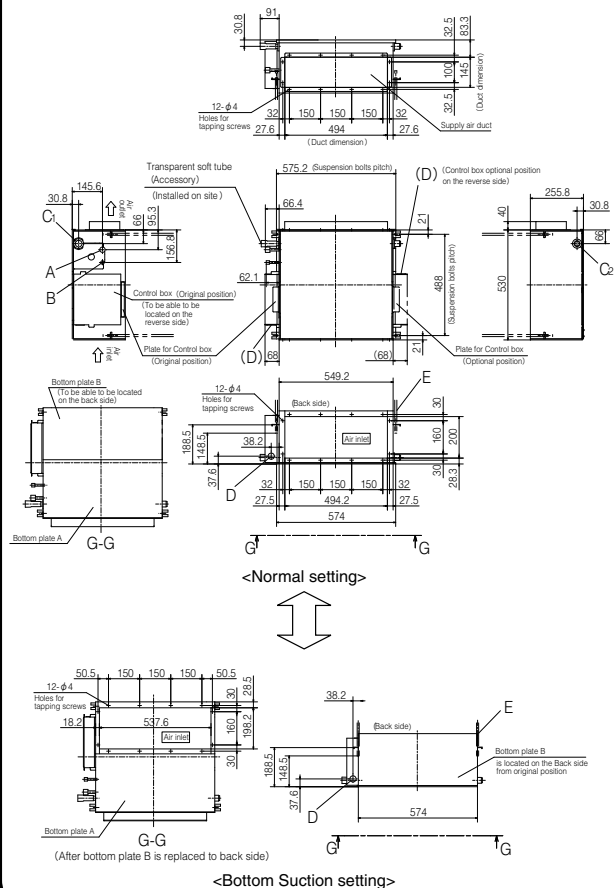
- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
 - For grid ceiling
 - When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
 - In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
 - When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

③ Preparation before installation (continued)

Ceiling opening, Suspension bolts pitch, Pipe position

Symbol	Model	Content
		FDUH22KXE6, 28KXE6
		FDUH36KXE6
A	Gas piping	φ 9.52 (3/8") (Flare)
B	Liquid piping	φ 6.35 (1/4") (Flare)
C ₁	Drain piping	VP20 Note (2)
C ₂	Drain piping	To be used instead of "C ₁ "
D	Hole for wiring	φ 30
E	Suspension bolts	(M10)

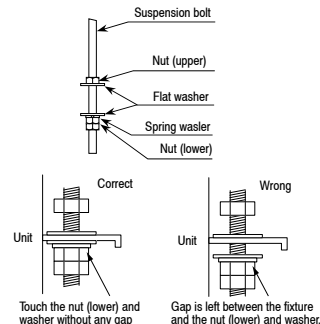
- Notes (1) The model name label is attached on the fan case inside the air return grille.
 (2) Prepare the connecting socket (VP20) on site. (As for drain piping, it is possible to choose C₁ or C₂)



④ Installation of indoor unit

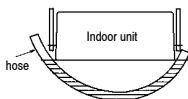
Work procedure

- Arrange the suspension bolt at the right position (488mm×576mm).
- Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.



④ Installation of indoor unit (continued)

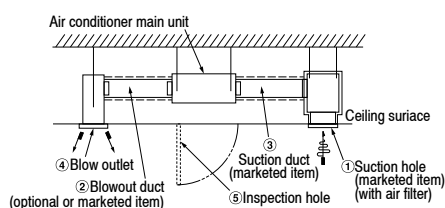
- Make sure to install the indoor unit horizontally. Confirm the levelness of the indoor unit with a level gauge or transparent hose filled with water. Keep the height difference at both ends of the indoor unit within 3mm.
- Tighten four upper nuts and fix the unit after height and levelness adjustment.



Caution

- Do not adjust the height by adjusting upper nuts. It will cause unexpected stress on the indoor unit and it will lead to deformation of the unit, failure of attaching a panel, and generating noise from the fan.
- Make sure to install the indoor unit horizontally and set the gap between the unit underside and the ceiling plane properly. Improper installation may cause air leakage, dew condensation, water leakage and noise.

⑤ Duct work

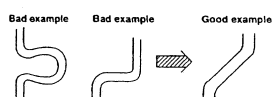
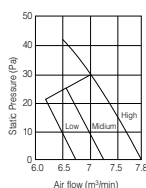


Request

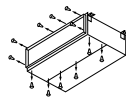
- Calculate air capacity and the outside static pressure to select the duct's length and shape, and blow outlet.

Caution

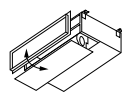
- Take care that the outside static pressure does not exceed 30 Pa. The unit has condensation owing to the decrease in air capacity, possibly causing the ceiling and household goods to become wet.
- The main body of the air conditioner is not provided with an air filter. Assemble it into the suction grill for which cleaning is easy.
- Blow duct
 - Make the duct the shortest in length.
 - Bend a lot less abruptly. (Make the bend radius a lot larger.)



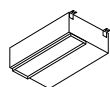
- When connecting the main body to the duct flange of the blow outlet, attach the insulation material to the fixed portion to protect it from condensation.
- Conduct the duct work before ceiling attachment.
- Inlet port
 - When placing the inlet port to carry out suction from the bottom side, use the following procedure to replace the suction duct joint (prepare on site) and the bottom plate.



- Remove the screws which fasten the bottom plate and the duct joint (prepare on site) on the inlet port side of the unit.



- Replace the removed bottom plate and duct joint (prepare on site).

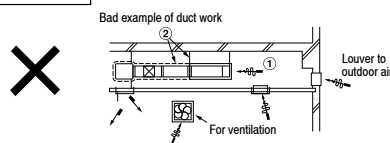


- Fit the duct joint (prepare on site) with a screw; fit the bottom plate.

- Make sure to keep the suction duct warm to protect it from condensation.
- Install the blowout hole where air can flow all over the room.
- Make sure to install the inspection opening in the ceiling. It is needed for the maintenance of electrical parts, the motor and other parts.

⑤ Duct work (continued)

Example of bad duct work



- If the suction duct is made in the ceiling without using the suction side duct, the temperature inside the ceiling will be high owing to the ventilating fan's performance, the strength of any wind blowing against the outdoor air louver, weather (on a rainy day) and other factors.
 - The outside plate of the unit may have condensation, causing water to drip on the ceiling. Also, in the case of a new house of a concrete structure, the temperature may be high without a duct inside the ceiling. In such a case, keep the whole unit warm using glass wool (25mm). (Cover the glass wool with wire netting or the like.)
 - The unit may be beyond its operation limit, causing overloading of the compressor, and other trouble.
 - Because the blowing capacity of the unit increases, owing to the ventilating fan's performance and any wind blowing against the outdoor air louver, up to its use limit, draining liquid from the heat exchanger does not flow into the drain pan, possibly flowing to the outside and causing water leaks (in which drained liquid drips on the ceiling).

⑥ Refrigerant pipe

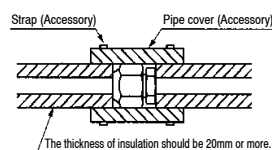
Caution

- Use the new refrigerant pipe.
 - When re-using the existing pipe system for R22 or R407C, pay attention to the following items.
 - Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.
 - Do not use thin-walled pipes.
- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than R410A. Using other refrigerant except R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R410 refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
 - Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - Bend the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
 - Do a flare connection as follows:
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 - Incomplete insulation may cause dew condensation or water dropping.
- Refrigerant is charged in the outdoor unit. As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Pipe diameter	Tightening torque N·m
φ 6.35	14 to 18
φ 9.52	34 to 42
φ 12.7	49 to 61
φ 15.88	68 to 82
φ 19.05	100 to 120



The thickness of insulation should be 20mm or more.

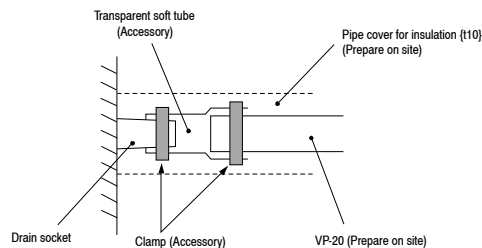
⑦ Drain pipe

Caution

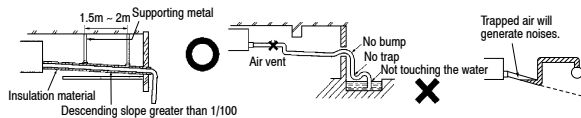
- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

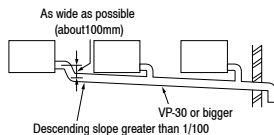
1. Connect the drain pipe (VP-20) to drain socket using "transparent soft tube (accessory)" and secure firmly with a clamp.
 - Do not apply adhesives on both side.
 - {*1 If the drain tube is directly connected with drain socket, the drain socket and drain pan would not be able to be removed.}
 - {*2 As optional setting, rubber hose (inside diameter $\phi 19$) can be connected directly with clamp to above drain socket under the later condition.}



2. Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
 - Do not set up air vent.



- When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.

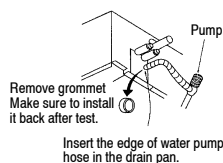


3. Insulate the drain pipe.

- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
- ※ After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain test

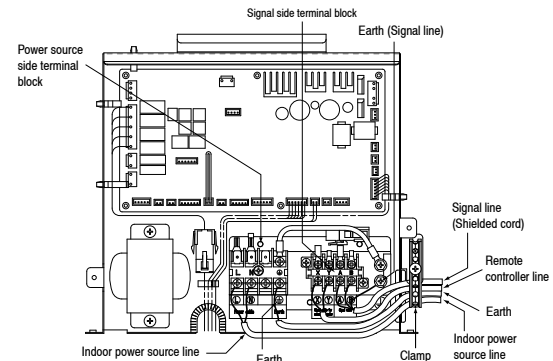
- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan.
 - Do drain test even if installation of heating season.
 - For new building cases, make sure to complete the test before hanging the ceiling.
1. Remove the drain grommet, and pour water of about 1000cc into the drain pan in the indoor unit by pump so as not to get the electrical component wet.
 2. Make sure that water is drained out properly and there is no water leakage from any joints of the drain pipe at the test.
 3. Make sure to install the grommet back to original place.
 4. Insulate the drain pipe properly finally.



⑧ Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
- Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

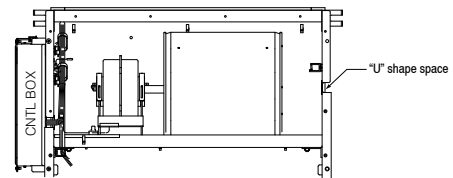
1. Remove a lid of the control box (2 screws).
2. Hold each wiring inside the unit and fasten them to terminal block securely.
3. Fix the wiring with clamps.
4. Install the removed parts back to original place.



> Procedure for optional setting of control box

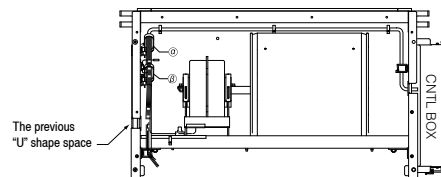
- (i) Remove bottom plate.
 - (ii) Unfasten two (2) "straps" for wire.
 - (iii) Remove the plate for control box. (2 screws), and set it at optional position (opposite side).
 - (iv) Remove the control box (2 screws), and set it at optional position (opposite side).
 - (v) Cut insulation of "U" shape space.
- Through this cutting, set and fix all wires by four (4) "clamps" and two (2) "straps".
- (vi) Close the previous "U" shape wiring space by insulation, and set the bottom plate again.

① Wiring Location (Original)



② Wiring Location (Optional)

After fix ②, the modification of wiring length should be done, by ⑧




⑨ Check list after installation

- Check the following items after all installation work completed.

Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

7.2 Electric wiring work instruction

PSB012D922 

Electrical wiring work must be performed by an electrician qualified by a local power provider according to the electrical installation technical standards and interior wiring regulations applicable to the installation site.

Security instructions

- **Accord with following items. Otherwise, there will be the risks of electric shock and fire caused by overheating or short circuit.**

⚠ WARNING

- **Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.**

Power source with insufficient capacity and improper work can cause electric shock and fire.

- **Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.**

Loose connections or hold could result in abnormal heat generation or fire.

- **Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel properly.**

Improper fitting may cause abnormal heat and fire.

- **Make sure there is no dust or clogging on both the plug and the socket nor loose connection of the socket before plugging, and plug in securely to the end of the blade.**

Accumulation of dust, clogging on the socket or plug, or loose installation of the socket could cause electric shock and fire. Replace the socket if it is loose.

- **Use the genuine optional parts. And installation should be performed by a specialist.**

If you install the unit by yourself, it could cause water leakage, electric shock and fire.

- **Do not repair by yourself. And consult with the dealer about repair.**

Improper repair may cause water leakage, electric shock or fire.

- **Consult the dealer or a specialist about removal of the air conditioner.**

Improper installation may cause water leakage, electric shock or fire.

- **Turn off the power source during servicing or inspection work.**

If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan.

- **Shut off the power before electrical wiring work.**

It could cause electric shock, unit failure and improper running.

⚠ CAUTION

- **Perform earth wiring surely.**

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock due to a short circuit.

- **Make sure to install earth leakage breaker on power source line. (countermeasure thing to high harmonics.)**

Absence of breaker could cause electric shock.

- **Use the circuit breaker of correct capacity.**

Using the incorrect capacity one could cause the system failure and fire.

- **Do not use any materials other than a fuse of correct capacity where a fuse should be used.**

Connecting the circuit by wire or copper wire could cause unit failure and fire.

- **Use power source line of correct capacity.**

Using incorrect capacity one could cause electric leak, abnormal heat generation and fire.

- **Do not mingle solid cord and stranded cord on power source and signal side terminal block.**

In addition, do not mingle difference capacity solid or stranded cord. Inappropriate cord setting could cause loosening screw on terminal block, bad electrical contact, smoke and fire.

- **Do not turn off the power source immediately after stopping the operation.**

Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdown.

- **Do not control the operation with the circuit breaker.**

It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury.

① Electrical Wiring Connection

- Install an over-current and earth leakage breaker (threshold current: 30mA) specified for each unit without fail.
- Provide a dedicated branching circuit and never share a branching circuit with other equipment. If shared, disconnection at the circuit breaker may occur, which can cause secondary damage.
- Set earth of D-type.
- Connection of a cable beyond 3.5 mm² is not permitted. When cables of over 5.5 mm² are in use, provide a dedicated pull box to take a branch to an indoor unit.
- Keep "remote controller line" and "power source line" away from each other on constructing of unit outside.
- Run the lines (power source, remote controller and "between indoor and outdoor unit") upper ceiling through iron pipe or other tube protection to avoid the damage by mouse and so on.
- Do not add cord in the middle of line (of indoor power source, remote controller and signal) route on outside of unit. If connecting point is flooded, it could cause problem as for electric or communication. (In the case that it is necessary to set connecting point on the signal line way, perform thorough waterproof measurement.)
- Do not connect the power source line [220V/240V/380V/415V] to signal side terminal block. Otherwise, it could cause failure.
- Screw the line to terminal block without any looseness, certainly.
- Do not turn on the switch of power source, before all of line work is done.

① Electrical Wiring Connection (continued)

- **Electrical wiring work must be performed by an electrician an qualified by a local power provider. These wiring specifications are determined on the assumption that the following instructions are observed:**

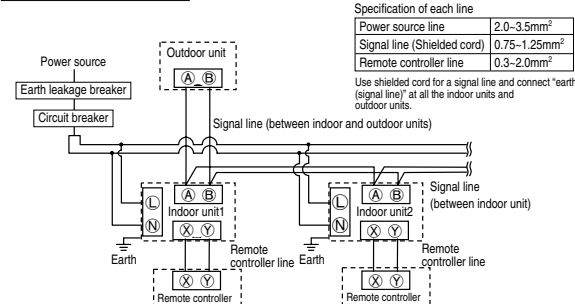
- ① Do not use cords other than copper ones.
Do not use any supply line lighter than one specified in parentheses for each type below.
~braided cord (code designation 60245 IEC 51), if allowed in the relevant part 2;
~ordinary tough rubber sheathed cord (code designation 60245 IEC 53);
~flat twin tinsel cord (code designation 60227 IEC 41);
~ordinary polyvinyl chloride sheathed cord (code designation 60227 IEC 53);
- ② Provide a separate power outlet for each outdoor or indoor unit.
- ③ All indoor units grouped in one system must have power source that can be turned on or off simultaneously.
- ④ Pay extra attention so as not to confuse signal line and power source line connection, because an error in their connection can burn all the boards at once.

- **Connection of the line ("Between indoor and outdoor unit", Earth and Remote controller)**

- ① Remove lid of control box before connect the above lines, and connect the lines to terminal block according to number pointed on label of terminal block.
In addition, pay enough attention to confirm the number to lines, because there is electrical polarity except earth line. Furthermore, connect earth line to earth position of terminal block of power source.
- ② Install earth leakage breaker on power source line. In addition, select the type of breaker for inverter circuit as earth leakage breaker.
- ③ If the function of selected earth leakage breaker is only for earth-fault protection, hand switch (switch itself and type "B" fuse) or circuit breaker is required in series with the earth leakage breaker.

Cabling system diagram

(Outdoor/indoor unit connection procedure)



Power source line specification

Wiring specification

				Circuit breaker		Wiring size				
Unit type	Earth leakage breaker			Switch breaker	Over-current protector rated capacity	Power source line	Wire length	Signal line	Remote controller line	Earth line
22-36	15A	30mA	0.1sec	30A	15A	2.0mm ² x2	304m	0.75-1.25mm ² x2	0.3mm ² x2cores	2.0mm ²
45-90							216m			
112-160							129m			
In case of Duct connected -High static pressure- type										
71-140	15A	30mA	0.1sec	30A	15A	2.0mm ² x2	87m	0.75-1.25mm ² x2	0.3mm ² x2cores	2.0mm ²
224,280							48m			

- Note (1) The cord distances are calculated with a voltage drop of 2%. If the distance should exceed the above data, review the cord thickness to use in accordance with your extension cord regulations.
- (2) When total extension of remote controller line is more than 100m, change the size of cord according to "③ Remote Control, Wiring and functions".

In case of Heat recovery 3-pipe systems

Branching controller of heat recovery 3-pipe systems wiring

- When this unit is used as a "Heat Recovery 3-pipe Systems", refer to the installation manual of a branching controller (option).

② Address setting

Address setting is done by (1) Manual address setting or (2) Automatic address setting. In the case of (2) "Automatic address setting", it is possible to change address setting by wired remote controller after once complete setting. As for details of setting procedure, refer to instructions attached to the outdoor unit for details.

③ Remote Control, Wiring and functions

- Do not install it on the following places.

- (1) Place exposed to direct sunlight
- (2) Places near heat devices
- (3) High humidity places
- (4) Hot surface or cold surface enough to generate condensation
- (5) Place exposed to oil mist or steam directly.
- (6) Uneven surface

Installation and wiring of remote controller

- ① Install remote controller referring to the attached manual.
- ② Wiring of remote controller should use 0.3mm² x2 core wires or cables. (on-site configuration)
- ③ Maximum prolongation of remote control wiring is 600 m.
If the prolongation is over 100m, change to the size below.
But, wiring in the remote controller case should be under 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.
100-200m 0.5mm² x2 core
Under 300m 0.75mm² x 2 core
Under 400m 1.25mm² x 2 core
Under 500m 2.0mm² x 2 core
- ④ Avoid using multi-core cables to prevent malfunction.
- ⑤ Keep remote controller line away from earth (frame or any metal of building).
- ⑥ Make sure to connect remote controller line to the remote controller and terminal block of indoor unit. (No polarity)

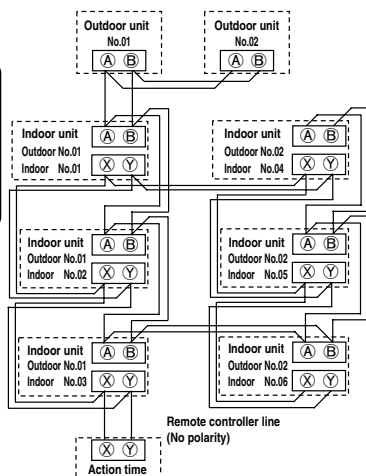
③ Remote Control, Wiring and functions (continued)

Control plural indoor units by a single remote controller

- A remote controller can control plural indoor units (up to 16)
 - In above setting, all plural indoor units will operate under same mode and temperature setting.
 - Connect all indoor units with 2 core remote controller line for group control.
 - Use the function of manual address setting to set the indoor and outdoor address number.
 - Do not forget to set the number for the outdoor units.
 - As shown in the following figure, the remote control can be used to control multiple outdoor units.
 - One remote control is able to perform group control for multiple units (maximum 16 units).
- Use the rotary SW1 and SW2 provided on the indoor unit PCB (Printed circuit board) to set unique remote control communication address avoiding duplication.

After a unit is energized, it is possible to display an indoor unit address by pressing **AIR CON NO.** button on the remote control unit.

Press the **▲** or **▼** button to make sure that all indoor units connected are displayed in order.

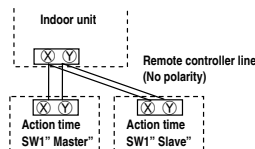


Confirming method of indoor units

When indoor unit address number is displayed on remote controller, pushing the **(MODE)** button to make the indoor unit with that number blow air (Display example: "1/U001").

Push the **(MODE)** button again to stop the operation.

However, this operation is invalid on the air-conditioning running.



Switch	Setting	Contents
Wired remote controller: SW1	Master	Master remote controller
Wireless kit: SW1-2	Slave	Slave remote controller

Master/slave setting when more than one remote control unit are used

A maximum of two remote control units can be connected to one indoor unit (or one group of indoor units.)

Latest "function setting" is superior than previous one.

Acceptable combination is "two (2) wired remote controllers", "one (1) wired remote controller and one (1) wireless kit" or "two (2) wireless kits".

Set SW1 to "Slave" for the slave remote control unit. It was factory set to "Master" for shipment.

Note: The setting "Remote control unit sensor enabled" is only selectable with the master remote control unit in the position where you want to check room temperature.

④ Trial operation

The method of trial cooling operation

Operate the remote control unit as follows.

- Starting a cooling test run.
 - Start the system by pressing the **(ON/OFF)** button.
 - Select "❄️ (Cool)" with the **(MODE)** button.
 - Press the **(TEST)** button for 3 seconds or longer.

The screen display will switch to: "❄️ TEST RUN ▼"
 - When the **(SET)** button is pressed while "❄️ TEST RUN ▼" is indicated, a cooling test run will start.

The screen display will switch to "❄️ TEST RUN".
- Ending a cooling test run.

Pressing the **(ON/OFF)** button, the **(TEMP)** button or **(MODE)** button will end a cooling test run. (Cooling test run will end after 30 minutes pass.)

"❄️ TEST RUN" shown on the screen will go off.

④ Trial operation (continued)

Checking operation data

Operation data can be checked with remote control unit operation.

- Press the **(CHECK)** button.

The display change "OPER DATA ▼"
 - Press the **(SET)** button while "OPER DATA ▼" is displayed.
 - When only one indoor unit is connected to remote controller, "DATA LOADING" is displayed (blinking indication during data loading).

Next, operation data of the indoor unit will be displayed. Skip to step 7.
 - When plural indoor units is connected, the smallest address number of indoor unit among all connected indoor unit is displayed.

[Example]:

"❄️ SELECT I/U" (blinking 1 seconds) → "1/U000 ▲" blinking.
 - Select the indoor unit number you would like to have data displayed with the **▲** **▼** button.
 - Determine the indoor unit number with the **(SET)** button.

(The indoor unit number changes from blinking indication to continuous indication)

"1/U000" (The address of selected indoor unit is blinking for 2 seconds.)

"DATA LOADING" (A blinking indication appears while data loaded.)

Next, the operation data of the indoor unit is indicated.
 - Upon operation of the **▲** **▼** button, the current operation data is displayed in order from data number 01.

The items displayed are in the following table.

※ Depending on models, the items that do not have corresponding data are not displayed.
 - To display the data of a different indoor unit, press the **AIR CON NO.** button, which allows you to go back to the indoor unit selection screen.
 - Pressing the **(ON/OFF)** button will stop displaying data.

Pressing the **(RESET)** button during remote control unit operation will undo your last operation and allow you to go back to the previous screen.
- ◎ If two (2) remote controllers are connected to one (1) inside unit, only the master controller is available for trial operation and confirmation of operation data. (The slave remote controller is not available.)

Number	Data Item
01	❄️ (Operation Mode)
02	SET TEMP. ❄️ (Set Temperature)
03	RETURN AIR. ❄️ (Return Air Temperature)
04	SENSOR. ❄️ (Remote Controller Thermistor Temperature)
05	THI-R1. ❄️ (Indoor Unit Heat Exchanger Thermistor / U Bend)
06	THI-R2. ❄️ (Indoor Unit Heat Exchanger Thermistor / Capillary)
07	THI-R3. ❄️ (Indoor Unit Heat Exchanger Thermistor / Gas Header)
08	I/U FANSPEED. (Indoor Unit Fan Speed)
09	DEMAND. Hz (Frequency Requirements)
10	ANSWER. Hz (Response Frequency)
11	I/U EEV. P (Pulse of Indoor Unit Expansion Valve)
12	TOTAL I/U RUN. H (Total Running Hours of The Indoor Unit)
21	OUTDOOR. ❄️ (Outdoor Air Temperature)
22	THO-R1. ❄️ (Outdoor Unit Heat Exchanger Thermistor)
23	THO-R2. ❄️ (Outdoor Unit Heat Exchanger Thermistor)
24	COMP. Hz (Compressor Frequency)
25	HP. MPa (High Pressure)
26	LP. MPa (Low Pressure)
27	Td. ❄️ (Discharge Pipe Temperature)
28	COMP BOTTOM. ❄️ (Comp Bottom Temperature)
29	CT. AMP (Current)
34	O/U FANSPEED. (Outdoor Unit Fan Speed)
35	63H1 (63H1 On/Off)
36	DEFROST (Defrost Control On/Off)
37	TOTAL COMP RUN. H (Total Running Hours of The Compressor)
38	O/U EEV1. P (Pulse of The Outdoor Unit Expansion Valve EEVC)
39	O/U EEV2. P (Pulse of The Outdoor Unit Expansion Valve EEVH)

Trial operation of drain pump

Drain pump operation from remote control unit is possible. Operate a remote control unit by following the steps described below.

- To start a forced drain pump operation.
 - Press the **(TEST)** button for three seconds or longer.

The display will change "❄️ TEST RUN ▼"
 - Press the **▼** button once and cause "DRAIN PUMP ❄️" to be displayed.
 - When the **(SET)** button is pressed, a drain pump operation will start.

Display: "❄️ TO STOP"
- To cancel a drain pump operation.
 - If either **(SET)** or **(ON/OFF)** button is pressed, a forced drain pump operation will stop. The air conditioning system will become OFF.

◎ If two (2) remote controllers are connected to one (1) inside unit, only the master controller is available for trial operation and confirmation of operation data. (The slave remote controller is not available.)

⑤ Function Setting by Remote Controller

The functional setting.

- The initial function setting for typical using is performed automatically by the indoor unit connected, when remote controller and indoor unit are connected.

As long as they are used in a typical manner, there will be no need to change the initial settings.

If you would like to change the initial setting marked "○", set your desired setting as for the selected item.

The procedure of functional setting is shown as the following diagram.

[Flow of function setting]

Start : Stop air-conditioner and press "○" (SET) and "MODE" buttons at the same time for over three seconds.

Finalize : Press "○" (SET) button.

Reset : Press "RESET" (RESET) button.

Select : Press "▲▼" button.

End : Press "ON/OFF" button.

It is possible to finish above setting on the way, and unfinished change of setting is unavailable.

Record and keep the setting

Note 1: The initial setting marked ※ is decided by connected indoor and outdoor unit, and is automatically defined as following table.

Function No.	Item	Default	Model
Remote controller function02	AUTO RUN SET	AUTO RUN ON	"Auto-RUN" mode selectable indoor unit.
		AUTO RUN OFF	Indoor unit without "Auto-RUN" mode
Remote controller function06	FAN SPEED SW	VALID	Indoor unit with two or three step of air flow setting
		INVALID	Indoor unit with only one of air flow setting
Remote controller function07	LOUVER SW	VALID	Indoor unit with automatically swing louver
		INVALID	Indoor unit without automatically swing louver
Remote controller function13	I/U FAN	HI-MID-LO	Indoor unit with three step of air flow setting
		HI-LO	Indoor unit with two step of air flow setting
		HI-MID	
		1 FAN SPEED	Indoor unit with only one of air flow setting
Remote controller function15	MODEL TYPE	HEAT PUMP	Heat pump unit
		COOLING ONLY	Exclusive cooling unit

⑤ Function Setting by Remote Controller (continued)

(i) Remote controller function

“○” : Initial settings

“※” : Automatic criterion

Stop air-conditioner and press
○ (SET) + ○ (MODE) buttons
at the same time for over three seconds.

FUNCTION SET ▼

FUNCTION ▼

Function

01 GRILLE ↑↓ SET

setting

↑↓ INVALID ○
50Hz ZONE ONLY
60Hz ZONE ONLY

When you use at 50Hz area

When you use at 50Hz area

When you use at 60Hz area

02 AUTO RUN SET

AUTO RUN ON ※
AUTO RUN OFF ※

Automatic operation is impossible

03 [TEMP] SW

TEMP VALID ○
TEMP INVALID

Temperature setting button is not working

04 [MODE] SW

MODE VALID ○
MODE INVALID

Mode button is not working

05 [ON/OFF] SW

ON/OFF VALID ○
ON/OFF INVALID

On/Off button is not working

06 [FAN SPEED] SW

FAN SPEED VALID ※
FAN SPEED INVALID ※

Fan speed button is not working

07 [LOUVER] SW

LOUVER VALID ※
LOUVER INVALID ※

Louver button is not working

08 [TIMER] SW

TIMER VALID ○
TIMER INVALID

Timer button is not working

09 [SENSOR] SET

SENSOR OFF ○
SENSOR ON
SENSOR +3.0℃
SENSOR +2.0℃
SENSOR +1.0℃
SENSOR -1.0℃
SENSOR -2.0℃
SENSOR -3.0℃

Remote thermistor is not working.

Remote thermistor is working.

Remote thermistor is working, and to be set for producing +3.0 C increase in temperature.

Remote thermistor is working, and to be set for producing +2.0 C increase in temperature.

Remote thermistor is working, and to be set for producing +1.0 C increase in temperature.

Remote thermistor is working, and to be set for producing -1.0 C increase in temperature.

Remote thermistor is working, and to be set for producing -2.0 C increase in temperature.

Remote thermistor is working, and to be set for producing -3.0 C increase in temperature.

10 AUTO RESTART

INVALID ○
VALID

11 VENT LINK SET

NO VENT ○
VENT LINK
NO VENT LINK

In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit board), the operation of ventilation device is linked with the operation of indoor unit.

In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit board), you can operate /stop the ventilation device independently by [VENT] button.

12 TEMP RANGE SET

INDN CHANGE ○
NO INDN CHANGE

If you change the range of set temperature, the indication of set temperature will vary following the control.

If you change the range of set temperature, the indication of set temperature will not vary following the control, and keep the set temperature.

13 I/U FAN

HI-MID-LO ※
HI-LO ※
HI-MID
1 FAN SPEED ※

Airflow of fan becomes the three speed of HI-MID-LO.

Airflow of fan becomes the two speed of HI-LO.

Airflow of fan becomes the two speed of HI-MID.

Airflow of fan is fixed at one speed.

14 [POSITION] SET

POSITION STOP ○
FREE STOP

If you change the remote controller function "14 [POSITION]", you must change the indoor function "04 [POSITION]" accordingly.

You can select the louver stop position in the four.

The louver can stop at any position.

15 MODEL TYPE

HEAT PUMP ※
COOLING ONLY ※

16 EXTERNAL CONTROL SET

INDIVIDUAL ○
FOR ALL UNITS

If you input signal into CNT of the indoor printed circuit board from external, the indoor unit will be operated independently according to the input from external.

If you input into CNT of the indoor printed circuit board from external, all units which connect to the same remote controller are operated according to the input from external.

17 ROOM TEMP INDICATION SET

INDICATION OFF ○
INDICATION ON

In normal working indication, indoor unit temperature is indicated instead of airflow. (Only the master remote controller can be indicated.)

18 [INDICATION] SET

INDICATION ON ○
INDICATION OFF

Heating preparation indication should not be indicated.

19 [°C/°F] SET

°C ○
°F

Temperature indication is by degree C

Temperature indication is by degree F

[ON/OFF] button
(finished)

⑤ Function Setting by Remote Controller (continued)

(ii) Indoor unit function

“○” : Initial settings

“※” : Automatic criterion

Stop air-conditioner and press
 (SET) + (MODE) buttons
 at the same time for over three seconds.

FUNCTION SET ▼

Indoor unit No. are indicated only when
 plural indoor units are connected.

I/U FUNCTION ▲

I/U000 ▲
 I/U001 +
 I/U002 +
 I/U003 +
 I/U004 +

To set other indoor unit, press
 button, which
 allows you to go back to the
 indoor unit selection screen
 (for example: I/U 000 ▲).

Function	setting
02 FAN SPEED SET	STANDARD ※ HIGH SPEED 1 ※ HIGH SPEED 2
03 FILTER SIGN SET	INDICATION OFF TYPE 1 ○ TYPE 2 TYPE 3 TYPE 4
04 POSITION	4POSITION STOP ○ FREE STOP
05 EXTERNAL INPUT	LEVEL INPUT ○ PULSE INPUT
06 OPERATION PERMISSION/PROHIBITION	INVALID ○ VALID
07 EMERGENCY STOP	INVALID ○ VALID
08 ※ SP OFFSET	OFFSET +3.0℃ OFFSET +2.0℃ OFFSET +1.0℃ NO OFFSET ○
09 RETURN AIR TEMP	OFFSET +2.0℃ OFFSET +1.5℃ OFFSET +1.0℃ NO OFFSET ○ OFFSET -1.0℃ OFFSET -1.5℃ OFFSET -2.0℃
10 ※ FAN CONTROL	LOW FAN SPEED ○ SET FAN SPEED INTERMITTENCE FAN OFF
11 FROST PREVENTION TEMP	TEMP HIGH TEMP LOW ○
12 FROST PREVENTION CONTROL	FAN CONTROL ON ○ FAN CONTROL OFF
13 DRAIN PUMP LINK	※○ ○ ※○ AND ※※ ※○ AND ※※ AND ※ ※○ AND ※
14 ※ FAN REMAINING	NO REMAINING ○ 0.5 HOUR 1 HOUR 6 HOUR
15 ※ FAN REMAINING	NO REMAINING ○ 0.5 HOUR 2 HOUR 6 HOUR
16 ※ FAN INTERMITTENCE	NO REMAINING ○ 20min OFF 5min ON 5min OFF 5min ON

Note1: Fan setting of "HIGH SPEED"

Fan tap		Indoor unit air flow setting		
FAN SPEED SET	STAN D AR D			
	HIGH SPEED1 , 2	UHI - HI- MID	UHI- MID	UHI- HI

Initial function setting of some indoor unit is "HIGH SPEED".

The filter sign is indicated after running for 180 hours.
 The filter sign is indicated after running for 600 hours.
 The filter sign is indicated after running for 1000 hours.
 The filter sign is indicated after running for 1000 hours, then the indoor unit will be stopped by
 compulsion after 24 hours.

If you change the indoor function "04 POSITION",
 you must change the remote controller function "14 POSITION" accordingly.
 You can select the lower stop position in the four.
 The lower can stop at any position.

Permission/prohibition control of operation will be valid.

With the VRF series, it is used to stop all indoor units connected with the same outdoor unit immediately.
 When stop signal is inputted from remote on-off terminal "CNT-6", all indoor units are stopped immediately.

To be reset for producing +3.0 C increase in temperature during heating.
 To be reset for producing +2.0 C increase in temperature during heating.
 To be reset for producing +1.0 C increase in temperature during heating.

To be reset producing +2.0 C increase in return air temperature of indoor unit.
 To be reset producing +1.5 C increase in return air temperature of indoor unit.
 To be reset producing +1.0 C increase in return air temperature of indoor unit.

To be reset producing -1.0 C increase in return air temperature of indoor unit.
 To be reset producing -1.5 C increase in return air temperature of indoor unit.
 To be reset producing -2.0 C increase in return air temperature of indoor unit.

When heating thermostat is OFF, fan speed is low speed.
 When heating thermostat is OFF, fan speed is set speed.

When heating thermostat is OFF, fan speed is operated intermittently.
 When heating thermostat is OFF, the fan is stopped.
 When the remote thermistor is working, "FAN OFF" is set automatically.
 Do not set "FAN OFF" when the indoor unit's thermistor is working.

Change of indoor heat exchanger temperature to start frost prevention control.

Working only with the Single split series.
 To control frost prevention, the indoor fan tap is raised.

Drain pump is run during cooling and dry.
 Drain pump is run during cooling, dry and heating.
 Drain pump is run during cooling, dry, heating and fan.
 Drain pump is run during cooling, dry and fan.

After cooling is stopped or cooling thermostat is OFF, the fan does not perform extra operation.
 After cooling is stopped or cooling thermostat is OFF, the fan perform extra operation for half an hour.
 After cooling is stopped or cooling thermostat is OFF, the fan perform extra operation for an hour.
 After cooling is stopped or cooling thermostat is OFF, the fan perform extra operation for six hours.

After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation.
 After heating is stopped or heating thermostat is OFF, the fan perform extra operation for half an hour.
 After heating is stopped or heating thermostat is OFF, the fan perform extra operation for two hours.
 After heating is stopped or heating thermostat is OFF, the fan perform extra operation for six hours.

During heating is stopped or heating thermostat is OFF, the fan perform intermittent operation for five
 minutes with low fan speed after twenty minutes' OFF.
 During heating is stopped or heating thermostat is OFF, the fan perform intermittent operation for five
 minutes with low fan speed after five minutes' OFF.

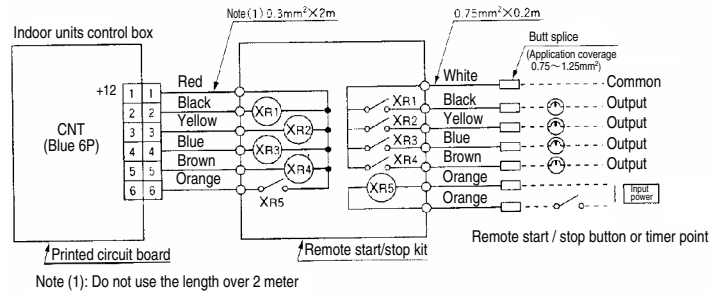
button
 (finished)

⑥ Control mode switching

- The control content of indoor units can be switched in following way. (☐ is the default setting)

Switch No.	control content
SW1	Indoor unit address (tens place)
SW2	Indoor unit address (ones place)
SW3	Outdoor unit address (tens place)
SW4	Outdoor unit address (ones place)
SW5-1	ON Fixed previous version of Super Link protocol OFF Automatic adjustment of Super Link protocol
SW5-2	Indoor unit address (hundreds place)
SW6-1 ~ 4	Model capacity setting
SW7-1	ON Operation check, Drain motor test run OFF Normal operation

⑦ Function of CNT connector of indoor printed circuit board



- CNT connector (local) vendor model
Connector : Made by molex 5264-06
Terminals : Made by molex 5263 T

● Function

Output 1:	Operation output (there is output when unit is in operation.)
Output 2:	Heating output (there is output when operation MODE is HEATING.)
Output 3:	Thermo ON output
Output 4:	Inspection output (there is output when unit is stopped by error.)
Input 5:	Factory set X ₅ OFF ⇒ ON UNIT ON X ₅ ON ⇒ OFF UNIT OFF Local set X ₅ OFF ⇔ ON Receiving pulse signal, "ON/OFF" is reversed.

Refer to instruction manuals of "Branching controller", when the indoor unit is connected to "Heat recovery 3-pipe systems".

⑧ Troubleshooting

The operation data is saved when the situation of abnormal operation happen, and the data can be confirmed by remote controller.

[Operating procedure]

- Press the **[CHECK]** button.
The display change "OPER DATA ▼".
 - Once, press the **[▼]** button, and the display change "ERROR DATA ▲".
 - Press the **[SET]** button and abnormal operation data mode is started.
 - When only one indoor unit is connected to remote controller, following is displayed.
 - The case that there is history of abnormal operation.
→ Error code and "DATA LOADING" is displayed.
[Example]: [E8] (ERROR CODE)
"DATA LOADING" is displayed (blinking indication during data loading).
Next, the abnormal operation data of the indoor unit will be displayed.
Skip to step 7.
 - The case that there is not history of abnormal operation.
→ "NO ERROR" is displayed for 3 seconds and this mode is closed.
 - When plural indoor units is connected, following is displayed.
 - The case that there is history of abnormal operation.
→ Error code and the smallest address number of indoor unit among all connected indoor unit is displayed.
[Example]: [E8] (ERROR CODE)
"I/U000" ▲ "blinking"
 - The case that there is not history of abnormal operation.
→ Only address number is displayed.
 - Select the indoor unit number you would like to have data displayed with the **[▲]** **[▼]** button.
[Example]: [E8] (ERROR CODE)
"I/U000" ▲ (The address of selected indoor unit is blinking for 2 seconds.)
 - Determine the indoor unit number with the **[SET]** button.
[Example]: [E8] (ERROR CODE)
"I/U000" ▲ (The address of selected indoor unit is blinking for 2 seconds.)
↓
[E8] "DATA LOADING" (A blinking indication appears while data loaded.)
Next, the abnormal operation data is indicated.
If the indoor unit doing normal operation is selected, "NO ERROR" is displayed for 3 seconds and address of indoor unit is displayed.
 - By the **[▲]** **[▼]** button, the abnormal operation data is displayed.
Displayed data item is based on ④ Trial operation.
※ Depending on models, the items that do not have corresponding data are not displayed.
 - To display the data of a different indoor unit, press the **AIR CON No.** button, which allows you to go back to the indoor unit selection screen.
 - Pressing the **[ON/OFF]** button will stop displaying data.
- Pressing the **[RESET]** button during remote control unit operation will undo your last operation and allow you to go back to the previous screen.
- If two (2) remote controllers are connected to one (1) inside unit, only the master controller is available for trial operation and confirmation of operation data. (The slave remote controller is not available.)

Error code of indoor unit



Display on remote controller	LED on indoor circuit board (red (checking) green (normal))	Content
Off	Off	Normal
Off	Continuous blinking	Fault on power, indoor power off or lack phase
E1	Off	Fault on the transmission between indoor circuit board and remote control
E2	Not sure	Indoor computer abnormal
E3	blinking once	Duplication of indoor address No. (can only be detected during operation) Excess number of remote controllers (can only be detected during operation)
E5	blinking twice	Outdoor power off or lack phase
E6	blinking once	There is no corresponding outdoor unit address.
E7	blinking once	Fault on outdoor-indoor transmission
E8	blinking once	Indoor heat exchange sensor broken or short-circuit
E9	blinking once	Indoor air inhaling sensor broken or short-circuit
E10	Off	Float SW actions (only with FS)
E11	Off	Excess number of remote controller connections
E12	blinking once	The master indoor unit is not set properly.
		Super link
		Indoor unit address SW
		Indoor No. Outdoor No.
		New specification 001 ~ 127 49
		Old specification 0 ~ 47 48, 49
		0 ~ 47
E16	blinking once	Fan motor abnormal
E18	blinking once	The address configuration fault for master-slave indoor units
E19	blinking once	Configuration fault on running checking model
E28	Off	Remote controller sensor interrupted
Over E30	Off	Remote controller sensor interrupted
E63	Off	Outdoor unit checking (outdoor circuit board LED checking)
	Continuous blinking	Emergency stop.

7.3 Installation manual for wired remote controller

PJA012D728A 

Read together with indoor unit's installation manual.



WARNING

- Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.
Loose connection or hold will cause abnormal heat generation or fire. 
- Make sure the power supply is turned off when electric wiring work.
Otherwise, electric shock, malfunction and improper running may occur. 

CAUTION

- DO NOT install the remote controller at the following places in order to avoid malfunction.

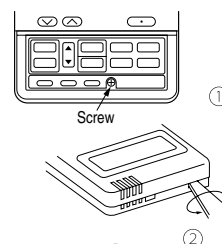
(1) Places exposed to direct sunlight	(4) Hot surface or cold surface enough to generate condensation
(2) Places near heat devices	(5) Places exposed to oil mist or steam directly
(3) High humidity places	(6) Uneven surface


- DO NOT leave the remote controller without the upper case.
In case the upper case needs to be detached, protect the remote controller with a packaging box or bag in order to keep it away from water and dust. 

Accessories	Remote controller, wood screw ($\Phi 3.5 \times 16$) 2 pieces
Prepare on site	Remote controller cord (2 cores) [In case of embedding cord] Electrical box, M4 screw (2 pieces) [In case of exposing cord] Cord clamp (if needed)

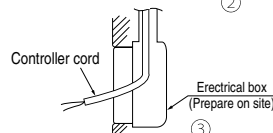
Installation procedure

- ① Open the cover of remote controller, and remove the screw under the buttons without fail.
- ② Remove the upper case of remote controller.
Insert a flat-blade screwdriver into the dented part of the upper part of the remote controller, and wrench slightly.

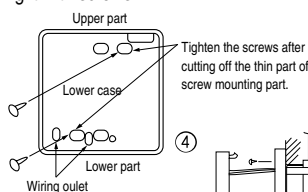
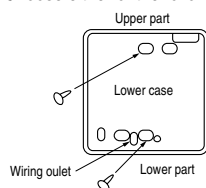


[In case of embedding cord]

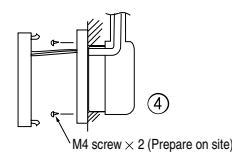
- ③ Embed the electrical box and remote controller cord beforehand.



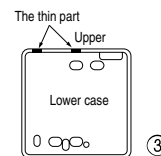
- ④ Prepare two M4 screws (recommended length is 12-16mm) on site, and install the lower case to electrical box. Choose either of the following two positions in fixing it with screws.



- ⑤ Connect the remote controller cord to the terminal block.
Connect the terminal of remote controller (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)

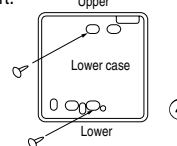


- ⑥ Install the upper case as before so as not to catch up the remote controller cord, and tighten with the screws.

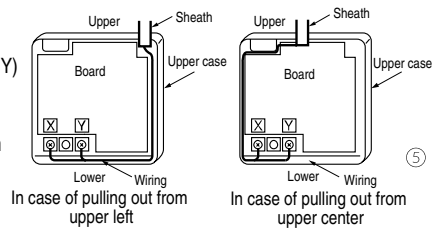


[In case of exposing cord]

- ③ You can pull out the remote controller cord from left upper part or center upper part.
Cut off the upper thin part of remote controller lower case with a nipper or knife, and grind burrs with a file etc.
- ④ Install the lower case to the flat wall with attached two wooden screws.

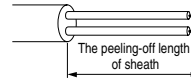


- ⑤ Connect the remote controller cord to the terminal block.
Connect the terminal of remote controller (X,Y) with the terminal of indoor unit (X,Y).
(X and Y are no polarity)
Wiring route is as shown in the right diagram depending on the pulling out direction.



The wiring inside the remote controller case should be within 0.3mm^2 (recommended) to 0.5mm^2 .
The sheath should be peeled off inside the remote controller case.
The peeling-off length of each wire is as below.

Pulling out from upper left	Pulling out from upper center
X wiring : 215mm	X wiring : 170mm
Y wiring : 195mm	Y wiring : 190mm



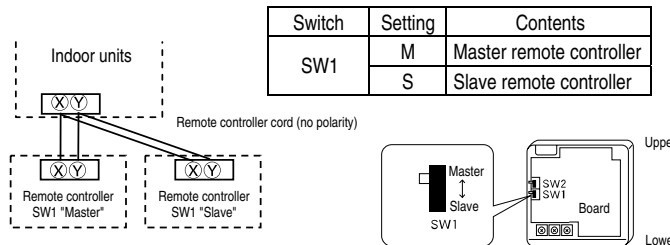
- ⑥ Install the upper case as before so as not to catch up the remote controller cord, and tighten with the screws.
⑦ In case of exposing cord, fix the cord on the wall with cord clamp so as not to slack.

Installation and wiring of remote controller

- ① Wiring of remote controller should use $0.3\text{mm}^2 \times 2$ core wires or cables. (on-site configuration)
② Maximum prolongation of remote controller wiring is 600 m.
If the prolongation is over 100m, change to the size below.
But, wiring in the remote controller case should be under 0.5mm^2 . Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.
- | | |
|------------|----------------------------------|
| 100 - 200m | $0.5\text{mm}^2 \times 2$ cores |
| Under 300m | $0.75\text{mm}^2 \times 2$ cores |
| Under 400m | $1.25\text{mm}^2 \times 2$ cores |
| Under 600m | $2.0\text{mm}^2 \times 2$ cores |

Master/ slave setting when more than one remote controllers are used

A maximum of two remote controllers can be connected to one indoor unit (or one group of indoor units.)



Set SW1 to "Slave" for the slave remote controller. It was factory set to "Master" for shipment.

Note: The setting "Remote controller thermistor enabled" is only selectable with the master remote controller in the position where you want to check room temperature.

The air conditioner operation follows the last operation of the remote controller regardless of the master/ slave setting of it.

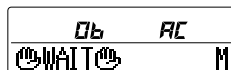
The indication when power source is supplied

When power source is turned on, the following is displayed on the remote controller until the communication between the remote controller and indoor unit settled.

Master remote controller : "WAIT M"
Slave remote controller : "WAIT S"

At the same time, a mark or a number will be displayed for two seconds first.

This is the software's administration number of the remote controller, not an error cord.



※ The left mark is only an example. Other marks may appear.

When remote controller cannot communicate with the indoor unit for half an hour, the below indication will appear.

Check wiring of the indoor unit and the outdoor unit etc.



The range of temperature setting

When shipped, the range of set temperature differs depending on the operation mode as below.

Heating : 16~30°C (55~86°F)

Except heating (cooling, fan, dry, automatic) : 18~30°C (62~86°F)

●Upper limit and lower limit of set temperature can be changed with remote controller.

Upper limit setting: valid during heating operation. Possible to set in the range of 20 to 30°C (68 to 86°F).

Lower limit setting: valid except heating (automatic, cooling, fan, dry) Possible to set in the range of 18 to 26°C (62 to 79°F).

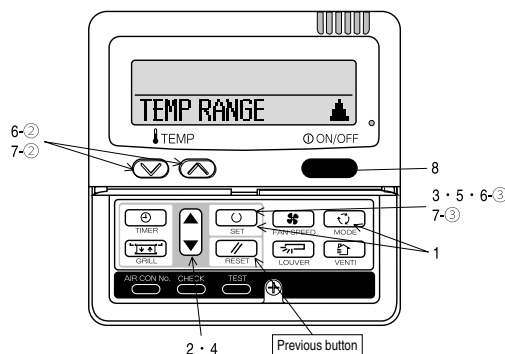
When you set upper and lower limit by this function, control as below.

- When ⑫ TEMP RANGE SET, remote controller function of function setting mode is "INDN CHANGE" (factory setting),
 [If upper limit value is set]
 During heating, you cannot set the value exceeding the upper limit.
 [If lower limit value is set]
 During operation mode except heating, you cannot set the value below the lower limit.
- When ⑫ TEMP RANGE SET, remote controller function of function setting mode is "NO INDN CHANGE"
 [If upper limit value is set]
 During heating, even if the value exceeding the upper limit is set, upper limit value will be sent to the indoor unit.
 But, the indication is the same as the temperature set.
 [If lower limit value is set]
 During except heating, even if the value lower than the lower limit is set, lower limit value will be sent to the indoor unit.
 But, the indication is the same as the temperature set.

●How to set upper and lower limit value

- Stop the air-conditioner, and press (SET) and (MODE) button at the same time for over three seconds.
 The indication changes to "FUNCTION SET ▼".
- Press button once, and change to the "TEMP RANGE ▲" indication.
- Press (SET) button, and enter the temperature range setting mode.
- Select "UPPER LIMIT ▼" or "LOWER LIMIT ▲" by using button.
- Press (SET) button to fix.
- When "UPPER LIMIT ▼" is selected (valid during heating)
 - ① Indication: "👉 ▼ ^ SET UP" → "UPPER 30°C ▼"
 - ② Select the upper limit value with temperature setting button . Indication example: "UPPER 26°C ▼ ^" (blinking)
 - ③ Press (SET) button to fix. Indication example: "UPPER 26°C" (Displayed for two seconds)
 After the fixed upper limit value displayed for two seconds, the indication will return to "UPPER LIMIT ▼".
- When "LOWER LIMIT ▲" is selected (valid during cooling, dry, fan, automatic)
 - ① Indication: "👉 ▼ ^ SET UP" → "LOWER 18°C ^"
 - ② Select the lower limit value with temperature setting button . Indication example: "LOWER 24°C ▼ ^" (blinking)
 - ③ Press (SET) button to fix. Indication for example: "LOWER 24°C" (Displayed for two seconds)
 After the fixed lower limit value displayed for two seconds, the indication will return to "LOWER LIMIT ▼".
- Press button to finish.

- It is possible to finish by pressing button on the way, but unfinished change of setting is unavailable.
- During setting, if you press (RESET) button, you return to the previous screen.



The functional setting

Refer to page 305

How to set function

1. Stop air-conditioner and press (SET) (MODE) buttons at the same time for over three seconds, and the "FUNCTION SET ▼" will be displayed.

FUNCTION SET ▼

2. Press (SET) button.
3. Make sure which do you want to set, "FUNCTION ▼" (remote controller function) or "I/U FUNCTION ▲" (indoor unit function).
4. Press or button.
Select "FUNCTION ▼" (remote controller function) or "I/U FUNCTION ▲" (indoor unit function).

FUNCTION ▼
I/U FUNCTION ▲

5. Press (SET) button.

6. 【On the occasion of remote controller function selection】

- ① "DATA LOADING" (Indication with blinking)
↓
Display is changed to "01 GRILLE ↑↓SET".

- ② Press or button.
"No. and function" are indicated by turns on the remote controller function table, then you can select from them.
(For example)

02 ← Function No.
AUTO RUN SET ← Function

- ③ Press (SET) button.
The current setting of selected function is indicated.
(for example) "AUTO RUN ON" ← If "02 AUTO RUN SET" is selected

02
AUTO RUN ON ← Setting

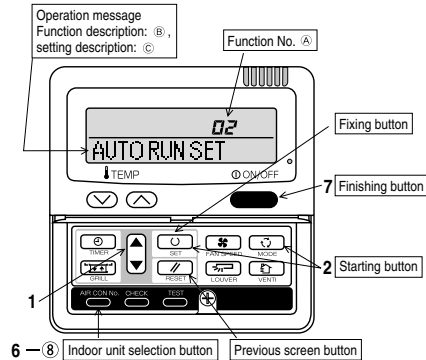
- ④ Press or button.
Select the setting.

02
AUTO RUN ON
↑↓
02
AUTO RUN OFF

- ⑤ Press (SET)
"SET COMPLETE" will be indicated, and the setting will be completed.
Then after "No. and function" indication returns, Set as the same procedure if you want to set continuously, and if to finish, go to 7.

02
SET COMPLETE

7. Press (ON/OFF) button.
Setting is finished.



【On the occasion of indoor unit function selection】

- ① "DATA LOADING" (Blinking for 2 to 23 seconds to read the data)
↓
Indication is changed to "01 AUTO FILTER CLEANING".
Go to ②.

[Note]

- (1) If plural indoor units are connected to a remote controller, the indication is "I/U 000" (blinking) ← The lowest number of the indoor unit connected is indicated.

I/U 000 ▲

- (2) Press or button.
Select the number of the indoor unit you are to set
If you select "ALL UNIT ▼", you can set the same setting with all units.
- (3) Press (SET) button.

- ② Press or button.
"No. and function" are indicated by turns on the indoor unit function table, then you can select from them.
(For example)

02 ← Function No.
FAN SPEED SET ← Function

- ③ Press (SET) button.
The current setting of selected function is indicated.
(For example) "STANDARD" ← If "02 FAN SPEED SET" is selected.

02
STANDARD ← Setting

- ④ Press or button.
Select the setting.

- ⑤ Press (SET) button.
"SET COMPLETE" will be indicated, and the setting will be completed.
Then after "No. and function" indication returns, set as the same procedure if you want to set continuously, and if to finish, go to 7.

02
SET COMPLETE

※ When plural indoor units are connected to a remote controller, press the (AIRCON NO.) button, which allows you to go back to the indoor unit selection screen. (example "I/U 000 ▲")

- It is possible to finish by pressing (ON/OFF) button on the way, but unfinished change of setting is unavailable.
- During setting, if you press (RESET) button, you return to the previous screen.
- Setting is memorized in the controller and it is saved independently of power failure.

【How to check the current setting】

When you select from "No. and function" and press set button by the previous operation, the "Setting" displayed first is the current setting.
(But, if you select "ALL UNIT ▼", the setting of the lowest number indoor unit is displayed.)

7.4 Installation of outdoor unit

KX SERIES INSTALLATION MANUAL

Designed for R410A refrigerant







PSB012D942F 

Outdoor unit capacity
FDC224-1360KXRE6

○ This installation manual deals with outdoor units and general installation specifications only. For indoor units, please refer to the respective installation manuals supplied with your units.

○ Please read this manual carefully before you set to installation work and carry it out according to the instructions contained in this manual.

Precautions for safety

- Read these "Precautions for safety" carefully before starting installation work and do it in the proper way.
- Safety instructions listed here are grouped into  **Warnings** and  **Cautions**. If a non-compliant installation method is likely to result in a serious consequence such as death or major injury, the instruction is grouped into  **Warnings** to emphasize its importance. However, a failure to observe a safety instruction listed under  **Cautions** can also result in a serious consequence depending on the circumstances. Please observe all these instructions, because they include important points concerning safety.
- The meanings of "Marks" used here are as shown on the right:
 **Never do it under any circumstances.**  **Always do it according to the instruction.**
- When you have completed installation work, perform a test run and make sure that the installation is working properly. Then, explain the customer how to operate and how to take care of the air-conditioner according to the user's manual. Please ask the customer to keep this installation manual together with the user's manual.
- This unit complies with EN61000-3-11.
- For outdoor unit, EN61000-3-2 and EN61000-3-12 are not applicable as consent by the utility company or notification to the utility company is given before usage.

WARNING



- Carry out installation work properly according to this installation manual.
Improper installation work can result in a water leak, an electric shock, a fire, or injury from a fall of the unit.
- Ask your dealer or a specialized service provider to install the unit.
Improper installation work performed on the part of a user can result in a water leak, an electric shock, a fire or injury from a fall of the unit.
- Always turn off power before you work inside the unit such as for installation or servicing.
A failure to observe this instruction can result in an electric shock.
- When an indoor unit is installed in a small room, it is necessary to take some safety precaution to keep refrigerant gas from building up beyond the upper limit concentration even if it leaks in the room. For safety precautions to prevent a concentration build-up beyond the upper limit, please consult with the dealer.
If refrigerant leaks and its concentration builds up beyond the upper limit, it can cause a lack-of-oxygen accident.
- Install the unit securely onto a structure that is strong enough to sustain its weight.
Insufficient strength can cause a drop or fall of the unit and resultant injury.
- Install the unit according to the prescribed installation specifications so that it can withstand strong winds, such as typhoons, and earthquakes.
Improper installation work can cause an accident such as from a fall of the unit.
- Wrap the unit with ropes properly rated for its weight at the specified points in hoisting it for haulage.
An improper hauling method can cause a fall of the unit and resultant death or major injury.
- Use only parts supplied with the unit and approved supply parts for installation work.
A failure to use genuine parts approved by the manufacturer may result in a fall of the unit, a water leak, a fire, an electric shock, a refrigerant leak, substandard performance or a control failure.
- Ask your dealer or a specialized service provider to install them.
Improper installation work performed on the part of a user can result in a water leak, electric shock or fire.
- Electrical installation work must be performed by an electrical installation service provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
A defect in power supply circuits such as insufficient capacity or improper installation can cause an electrical shock or fire.
- Always use specified cables and connect them securely. Fasten cables securely so that the terminal connections may not be subject to external force working through the cables.
Improper connection or fastening can cause heat generation, a fire or an electric shock.
- In connecting the power cable, make sure that no anomalies such as dust deposits, socket clogging or wobble are found and insert the plug securely.
Dust deposits, clogging or wobble can result in an electric shock or fire.
- Neatly arrange the cables so that they may not get loose, and put on the service panel securely. Improper installation can cause heat generation, a fire or an electric shock.
- In installing the unit, be sure to connect the refrigerant pipe before operating the compressor.
If you run the compressor without connecting the refrigerant pipe and with the service valves open, you may incur frost bite or injury from an abrupt refrigerant outflow. An abnormal pressure build-up may also occur in the refrigeration cycle as a result of the inhalation of air, which can result in pipe rupture or injury.
- Never open the service valves (either liquid or gas side) until refrigerant pipe installation work, an air-tightness test and evacuation are completed.
A failure to observe this instruction can result in frost bite or injury from an abrupt refrigerant outflow. If refrigerant gas leaks during installation work, immediately stop pipe blazing and other work and ventilate the room. Refrigerant gas, if it comes into contact with bare fire, can cause the generation of a toxic gas.
- Use pipes, flare nuts and tools specifically designed for R410A.
The use of existing materials (designed for refrigerant other than R410A) can result in a unit failure as well as a serious accident such as refrigeration cycle rupture or injury.
- Tighten a flare nut to a specified torque with two torque wrenches used together as a set. Over-tightening a flare nut can cause a refrigerant gas leak from flare nut breakage after years of operation. If a flare gets loose or breaks off, refrigerant gas will leak, which can cause a lack-of-oxygen accident.
- In carrying out a pump-down process, stop the compressor before you detach the refrigerant pipe.
If you detach the refrigerant pipe with the compressor running and the valves open, you may incur frost bite or injury from an abrupt refrigerant outflow. An abnormal pressure build-up may also occur in the refrigeration cycle as a result of the inhalation of air into the compressor, which can result in pipe rupture or injury.
- If refrigerant gas leaks during installation work, ventilate the room.
Refrigerant gas, if it comes into contact with bare fire, can cause the generation of a toxic gas.
- When installation work is completed, check the system for refrigerant gas leaks.
If refrigerant gas leaks indoors and comes into contact with bare fire such as of a fan heater, stove or cooking stove, it can cause the generation of a toxic gas.
- Don't open the operation valves (both for gas and fluid) till the refrigerant piping work, air tightness test and air purge are completed.
It could cause frostbite or injury due to sudden leakage of refrigerant.
- Do not run the drain piping directly into the sewer where a toxic gas such as sulfuric gas is generated.
This will pose a risk of a toxic gas flowing back into the room. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak.
- In installing or transferring an air conditioning system, never allow air or other foreign matters than specified refrigerant (R410A) to get into the refrigerant cycle.
If air or other foreign matters gets into the refrigerant cycle, an abnormal pressure build-up will occur, which can result in pipe rupture or injury.

CAUTION



- Secure a service space for inspection and maintenance as specified in the manual.
An insufficient service space can result in a fall from the installation point and resultant injury.
- When the outdoor unit is installed on a roof top or in an elevated position, provide permanent ladders and handrails along the access path and fences or handrails surrounding the outdoor unit to prevent an accidental fall.
- Perform installation work properly according to this installation manual.
Improper installation can cause abnormal vibrations or increased noise generation.
- When refrigerant pipe installation is completed, check the system for leaks by conducting an air-tightness test with nitrogen gas.
Should refrigerant gas leak in a small room and exceed the upper limit concentration, it can cause a lack-of-oxygen accident.
- Dress the refrigerant piping with a heat insulation material to prevent condensation.
Improper heat insulation given to refrigerant piping for condensation prevention can result in leaking or dripping water soaking household effects.
- Install an earth leakage breaker.
A failure to install an earth leakage breaker can cause a fire or electric shock.
- Install drain piping according to the installation manual to ensure good drainage, and give it heat insulation to prevent condensation.
Improper installation can result in a flood of water in the room and soaked household effects.
- Ensure that the unit is properly grounded. Do not connect the grounding wire to a gas pipe, a water pipe, a lightning rod, the grounding wire of a telephone or other appliances. Improper grounding can result in electric shocks or fire when any trouble or earth leakage occurs.
Never connect the grounding wire to a gas pipe because if gas leaks, it could cause explosion or ignition.
- Don't use for any special purposes such as for storing of foods, animals or plants, precision devices or objects of art.
It could deteriorate the quality of stored items.
- Do not install the outdoor unit in a place where small animals are likely to inhabit.
If they enter the unit and touch electrical parts inside, they may cause a unit failure, smoke generation or ignition. Please ask the customer to keep the surroundings clean.
- Do not handle the package by holding a packing band.
- Do not handle wooden packaging materials with bare hands.
- Do not install the unit in a place with a risk of inflammable gas leaks or where an inflammable material exists. It can cause a fire where an inflammable gas leaks, flows out or in, or stagnates or where carbon fibers are suspended in the air.
- Do not install the outdoor unit where its fan winds directly hit an animal or plant. Fan winds can affect adversely to the plant etc.
- Do not operate the outdoor unit with any article placed on it, or you may incur property damage or personal injury from a fall of the article.
- Do not step onto the outdoor unit, or you may incur injury from a drop or fall.

Notabilia as a unit designed for R410A

- Do not use any refrigerant other than R410A. R410A will rise to pressure about 1.6 times higher than that of a conventional refrigerant.
A cylinder containing R410A has a pink indication mark on the top.
- A unit designed for R410A has adopted a different size indoor unit operation valve charge port and a different size check joint provided in the unit to prevent the charging of a wrong refrigerant by mistake. The processed dimension of the flared part of a refrigerant pipe and a flare nut's parallel side measurement have also been altered to raise strength against pressure. Accordingly, you are required to arrange dedicated R410A tools listed in the table on the right before installing or servicing this unit.
- Do not use a charge cylinder. The use of a charge cylinder will cause the refrigerant composition to change, which results in performance degradation.
- In charging refrigerant, always take it out from a cylinder in the liquid phase.
- All indoor units must be models designed exclusively for R410A. Please check connectable indoor unit models in a catalog, etc. (A wrong indoor unit, if connected into the system, will impair proper system operation)

	Dedicated R410A tools
a)	Gauge manifold
b)	Charge hose
c)	Electronic scale for refrigerant charging
d)	Torque wrench
e)	Flare tool
f)	Protrusion control copper pipe gauge
g)	Vacuum pump adapter
h)	Gas leak detector

Caution


If superlink I (previous superlink) is selected, all the range of usage and limitations, not only the limitations of connectable indoor capacity and connectable number of indoor unit but also of the piping length, operating temperature range and etc., become same as those of KX4 (See technical manual '07 · KX · KXR-T-114). In addition to above limitations, all of new functions for KX6 such as automatic address setting function for multiple refrigerant systems and etc. will be cancelled.

1. BEFORE BEGINNING INSTALLATION (Check that the models, power supply specifications, piping, wiring are correct.)

CAUTION

- Please read this manual without fail before you set to installation work and carry it out according to this manual.
- For the installation of an indoor unit, please refer to the installation manual of an indoor unit.
- For piping work, optional distribution parts (branching pipe set, header set) are necessary. Please refer to our catalog, etc.
- Never fail to install an earth leakage breaker. (Please use one tolerable to harmonic components)
- Operating the unit with the outlet pipe thermistor, the inlet pipe thermistor, the pressure sensor, etc. removed can result in a compressor burnout. Avoid operation under such conditions in any circumstances.

ACCESSORY

Name	Quantity	Usage location	
Wiring 	2	In operating the unit in the silent mode or the forced cooling/heating mode, insert it to the outdoor unit board's CNG.	It is supplied with the unit. You can find it taped inside the control box.
Instruction manual	1	When the installation work is completed, give instructions to the customer and ask him/her to keep it.	Attached on the side panel below the operation valve.

COMBINATION PATTERNS

- The possible outdoor unit combinations and the number and the total capacity of indoor units that can be connected in a system are shown in the table below.
- Please always use indoor units designed exclusively for R410A. For connectable indoor unit model names, please check with our catalog, etc.
- It can be used in combination with the following indoor unit.

Indoor unit	Remote controller	Connection OK/NO
FD○△△KXE6	RC-E3 (2 cores)	OK
FD○A△△KXE4R, KXE4BR, KXE5R	RC-E1R (3 cores)	OK
FD○A△△KXE4, KXE4 (A), KXE4A	RC-E1 (3 cores)	NO

Notabilia

The same outdoor unit is used whether it is used alone or in combination with another unit.

- For 335 capacity units, however, two different model types are available, one corresponding to a standalone installation and the other to a combined installation. So please pay attention to their model types in selecting a model.
(A 335 capacity unit to be used alone should be FDC335KXRE6, while a unit to be used in combination is FDC335KXRE6-K)
- Model type differs on the unit with 560 capacity depending on whether the unit is used independently and with the combined capacity of 1065 or 1130, or with the combined capacity of 1180.
(When the unit is used independently and with the combined capacity of 1065 or 1130, the model type is FDC560KXRE6. When the unit is used with the combined capacity of 1180, the model type is FDC560KXRE6-K.)
- Please note that an installation involving a combination other than those listed below is not operable. (For example, you cannot operate 560 and 680 in combination)

Outdoor unit		Indoor unit	
Capacity	Combination patterns	Number of connectable units (units)	Range of the total capacity of indoor units connected in a system※
224	Single	1~20	112~448
280	Single	1~25	140~560
335	Single	1~30	168~670
400	Single	1~36	200~800
450	Single	1~40	225~900
504	Single	1~36	252~806
560	Single	1~40	280~896
615	Single	2~44	308~984
680	Single	2~49	340~1088
735	Combination (400+335-K)	2~53	368~1176
800	Combination (400+400)	2~58	400~1280
850	Combination (400+450)	2~61	425~1360
900	Combination (450+450)	2~65	450~1440
960	Combination (450+504)	2~69	477~1526
1010	Combination (504+504)	2~59	504~1311
1065	Combination (504+560)	2~62	532~1384
1130	Combination (560+560)	2~66	560~1456
1180	Combination (615+560-K)	3~69	588~1528
1235	Combination (615+615)	3~72	615~1599
1300	Combination (615+680)	3~76	650~1690
1360	Combination (680+680)	3~80	680~1768

※ When connecting the indoor unit type FDK, FDL or FDFU series, limit the connectable capacity not higher than 130%.

[Optional parts]

Refrigerant distribution piping components supplied as optional parts will become necessary in installing the unit.

As refrigerant distribution piping components, branching pipe sets (model type: DOS) for the outdoor unit side piping, branching pipe sets (model type: DIS) for the indoor unit side piping are available.

Select according to the application. Please refer to "3. Refrigerant piping work" in selecting.

If you are uncertain, please do not hesitate to consult with your distributor or the manufacturer.

Please use refrigerant branching sets and header sets designed exclusively for R410A without fail.

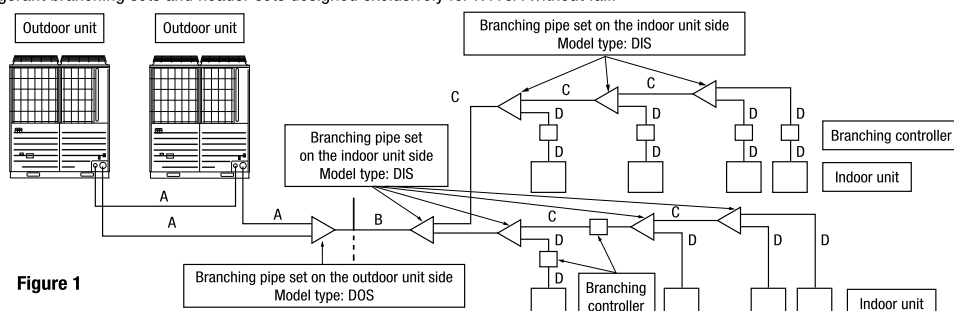


Figure 1

2. INSTALLATION LOCATION (Obtain approval from the customer when selecting the installation area.)

2-1. Selecting the installation location

- Where air is not trapped.
- Where the installation fittings can be firmly installed.
- Where wind does not hinder the intake and outlet pipes.
- Out of the heat range of other heat sources.
- Where strong winds will not blow against the outlet pipe.
- A place where stringent regulation of electric noises is applicable.
- Where it is safe for the drain water to be discharged.
- Where noise and hot air will not bother neighboring residents.
- Where snow will not accumulate.
- A place where no TV set or radio receiver is placed within 5m.
(If electrical interference is caused, seek a place less likely to cause the problem)

Please note

- a) A four-sided enclosure cannot be used. Leave a space of at least 1m above the unit.
 - b) If there is a danger of a short-circuit, then install a wind direction variable adapter.
 - c) When installing multiple units, provide sufficient intake space so that a short-circuit does not occur.
 - d) In areas where there is snowfall, install the unit in a frame or under a snow hood to prevent snow from accumulating on it.
(Inhibition of collective drain discharge in a snowy country)
 - e) Do not install the equipment in areas where there is a danger for potential explosive atmosphere.
- * Please ask your distributor about optional parts such as wind vane adapters, snow guard hoods, etc.

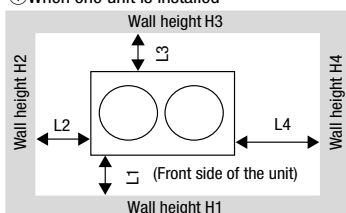
CAUTION

Please leave sufficient clearance around the unit without fail. Otherwise, a risk of compressor and/or electric component failure may arise.

2-2. Installation space (service space) example

Please secure sufficient clearance (room for maintenance work, passage, draft and piping). (If your installation site does not fulfill the installation condition requirements set out on this drawing, please consult with your distributor or the manufacturer)

① When one unit is installed

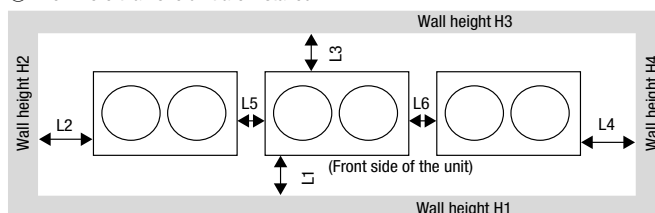


Example installation	I	II	III
Dimensions			
L1	500	500	Open
L2	10	50	10
L3	100	50	100
L4	10	50	Open
H1	1500	1500	Open
H2	No limit	No limit	No limit
H3	1000	1000	No limit
H4	No limit	No limit	Open

For a normal installation, leave a 10 mm or wider space on both sides of the unit (L5 and L6) as workspace. It is also possible to install at a 0mm interval (continuous installation) with future renewal, etc. in mind.

For your information:
the footprint of an outdoor unit is 1350x720 for all models throughout the series (335-K-680).

② When more than one unit is installed



Example installation	I	II
Dimensions		
L1	500	Open
L2	10	200
L3	100	300
L4	10	Open
L5	10 (0)	400
L6	10 (0)	400
H1	1500	No limit
H2	No limit	No limit
H3	1000	No limit
H4	No limit	No limit

3. Unit delivery and installation

CAUTION When a unit is hoisted with slings for haulage, please take into consideration the offset of its gravity center position. If not properly balanced, the unit can be thrown off-balance and fall.

3-1. Delivery

- By defining a cartage path, carry in the entire package containing a unit to its installation point.
- In slinging a unit, use two canvas belts with plates, cloth pads or other protections applied to the unit to prevent damage.

Please note

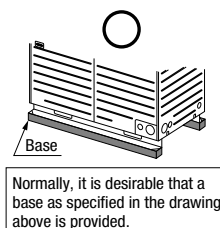
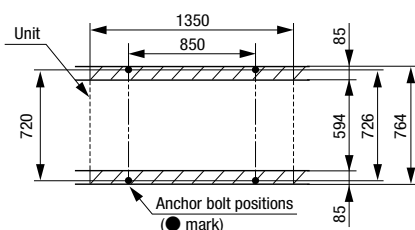
- a) Please do not fail to put belts through the rectangular holes of a unit's anchoring legs.
- b) Apply cloth pads between a canvas belt and a unit to prevent damage.



3-2. Notabilia for installation

(1) Anchor bolt positions

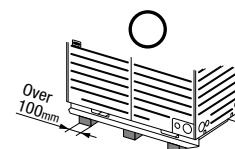
- Use four anchor bolts (M10) to fix an outdoor unit's anchoring legs at all times. Ideally, an anchor bolt should protrude 20mm.



Normally, it is desirable that a base as specified in the drawing above is provided.



A base used for a former model is wrongly oriented and not acceptable.



Please use it for renewal installation. (Please add a base on the center) It is necessary to prevent sagging.

(2) Base

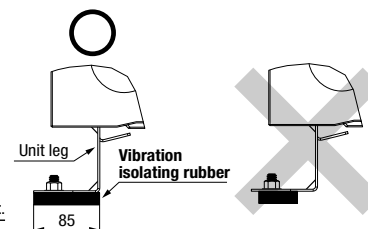
- Please install a unit after ascertaining that the bases have been made to sufficient strength and level to ensure the unit against vibration or noise generation.
- Please construct a base to the size of a shadowed area (the entire bottom area of an outdoor unit's anchoring leg) shown on the above drawing or larger.
- Please orient a base in the traversal direction (direction of W1350mm) of an outdoor unit as illustrated in the drawing above.

(3) Vibration isolating rubber

- A vibration isolating rubber must support an outdoor unit's anchoring leg by its entire bottom area.

Please note

- 1) Install a vibration isolating rubber in such a manner that the entire bottom area of an outdoor unit's anchoring leg will rest on it.
- 2) Do not install an outdoor unit in such a manner that a part of the bottom area of its anchoring leg is off a vibration isolating rubber.



4. REFRIGERANT PIPING

4-1. Restrictions on usage of refrigerant pipes

(1) Piping Limitation

- When designing and installing refrigerant pipes, be sure to observe the restrictions on usage of refrigerant pipes specified in this Section (1) such as Maximum piping length, Total piping length, Allowable piping length from the first branching, Allowable height difference and etc.

- Do not install any large traps () or bumps () exceeded 500mm in height in piping system that may cause stagnation of liquid refrigerant and oil.
- Maximum piping length (from the outdoor unit to the furthest indoor unit) ... 160m or less as actual piping length (185m or less as equivalent piping length)

(When the actual piping length exceeds 90m, the size of main pipe should be increased according to the selection table of main pipe size mentioned in Section (3)-(b))

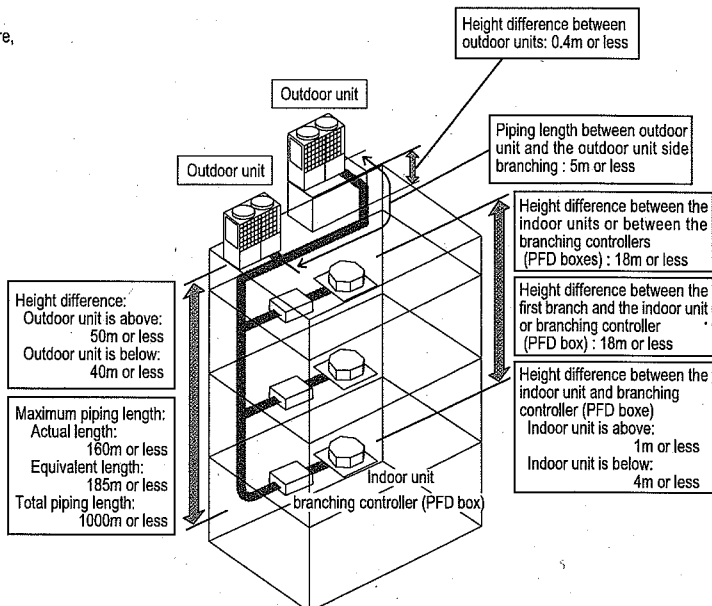
- Total piping length 1000m or less
- Main piping length (from outdoor unit to the first branching) 130m or less
- Allowable piping length
 - (a) From the first branching to the furthest indoor unit 90m or less
 - (b) Difference between the shortest*1 and the longest*2 piping 40m or less
 - *1 The shortest piping : Piping length from the first branching to the nearest indoor unit
 - *2 The longest piping : Piping length from the first branching to the furthest indoor unit
 - (c) From the branching controller (PFD box) to the indoor unit 40m or less
- Allowable height difference
 - (a) Between the outdoor unit and the indoor unit
 - (1) When the outdoor unit is installed above 50m or less
 - (2) When the outdoor unit is installed below 40m or less*3
 - *3 When conducting cooling operation at 10°C or lower of outdoor air temperature, it must be 30m or less.
 - (b) Between the indoor units 18m or less
 - (c) Between the branching controllers (PFD boxes) 18m or less
 - (d) Between the first branching and the indoor unit 18m or less
 - (e) Height difference between the branching nearest to the branching controller (PFD box) and the indoor unit as follows*4
 - *4 When all of following conditions (i) (ii) and (iii) are established, height difference between the branching nearest to the branching controller (PFD box) and the indoor unit should be limited to 4m or less.
 - (i) When the connected indoor unit model is 22 or 28.
 - (ii) When the piping length from the first branching and the indoor unit is 40m or more.
 - (iii) When the branching controller (PFD box) is installed above the branching nearest to the PFD box.

In such case the size of discharge gas piping between the branching nearest to the branching controller (PFD box) and the PFD box should be increased from $\phi 6.35$ to $\phi 9.52$.

- (f) Between the first branching and the branching controller (PFD box) 18m or less
- (g) Between the branching controller (PFD box) and the indoor unit
 - (1) When the indoor unit is installed above 1m or less
 - (2) When the indoor unit is installed below 4m or less
- Restriction on piping applicable to the outdoor units and outdoor unit side branching (For combination use)
 - (a) Allowable height difference between master and slave outdoor units 0.4m or less
 - (b) Allowable piping length between the outdoor unit and the outdoor unit side branching 5m or less
 - (c) Allowable piping length of oil equalization piping 10m or less

CAUTION

The piping installation not conforming to these restrictions may cause a compressor failure, which shall be excluded from the scope of warranty. Be sure to observe the restrictions on usage of pipes when designing and installing refrigerant piping system.



Important

When the Additional refrigerant quantity for piping (P) is over the following table, please separate the refrigerant line.

Outdoor unit	P (kg)
224-680	50
735-1360	100

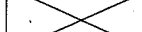

(2) Piping material selection

- Please use pipes clean on both the inside and outside and free from contaminants harmful to operation such as sulfur, oxides, dust, chips, oil, fat and water.
- Use the following material for refrigerant piping.
 - Material: phosphorus deoxidized seamless copper pipe (C1120T-0, 1/2H, JIS H3300)
 - Use C1220T-1/2H for $\phi 19.05$ or larger, or C1220T-0 for $\phi 15.88$ or smaller
- Do not use $\phi 28.58 \times t1.0$, $\phi 31.8 \times t1.1$, $\phi 34.92 \times t1.2$ and $\phi 38.1 \times t1.35$ as a bent pipe.
- Thickness and size: Please select proper pipes according to the pipe size selection guideline.
 - (Since this unit uses R410A, always use 1/2H pipes of a specified minimum thickness or thicker for all pipes of $\phi 19.05$ or larger, because the pressure resistance requirement is not satisfied with O-type pipes).
- For branching pipes, use a genuine branching pipe set or header set at all times. (optional parts)
- For the handling of operation valves, please refer to P.8 4-3(3) Method of operating operation valves.
- In installing pipes, observe the restrictions on the use of pipes set out in Section 1 (Maximum length, total pipe length, allowable pipe length from the first branching, allowable elevation difference (head difference)) without fail.
- Install a branching pipe set, paying attention to the direction of attachment, after you have perused through the installation manual supplied with it.

(3) Pipe size selection

(a) Outdoor unit – Outdoor unit side branching pipe: Section A in Figure 1

Please use a pipe conforming to the pipe size specified for outdoor unit connection. Indoor unit connecting pipe size table

Outdoor unit	Outdoor unit outlet pipe specifications							
	Suction gas pipe	Connection method	Discharge gas pipe	Connection method	Liquid pipe	Connection method	Oil equalizing tube	Connection method
224	$\phi 19.05 \times t1.0$	Blazed	$\phi 15.88 \times t1.0$	Blazed	$\phi 9.52 \times t0.8$	Flare		
280	$\phi 22.22 \times t1.0$		$\phi 19.05 \times t1.0$		$\phi 12.7 \times t0.8$			
335								
335-K								
400								
450	$\phi 28.58 \times t1.0$		$\phi 22.22 \times t1.0$		$\phi 12.7 \times t0.8$		$\phi 9.52 \times t0.8$ ※1	Flare
504								
560								
615								
680								

Please use C1220T-1/2H for $\phi 19.05$ or larger pipes.

※1: Please connect the master and slave units with an oil equalization pipe, when they are used in a combined installation.

(It is not required, when a unit is used as a standalone installation)

(b) Main (Outdoor unit side branching pipe - Indoor unit side first branching pipe): Section B in Figure 1

If the longest distance (measured between the outdoor unit and the farthest indoor unit) is 90m or longer (actual length), please change the main pipe size according to the table below.

※Even if the longest distance exceeds 90cm (actual length), you need not change the size of discharge gas pipes.

Outdoor unit	Main piping size						
	The length between outdoor unit and the first branching is less than 90m			The length between outdoor unit and the first branching is 90m or more			
	Suction gas pipe	Discharge gas pipe	Liquid pipe	Suction gas pipe	Discharge gas pipe	Liquid pipe	
224	$\phi 19.05 \times t1.0$	$\phi 15.88 \times t1.0$	$\phi 9.52 \times t0.8$	$\phi 22.22 \times t1.0$	$\phi 15.88 \times t1.0$	$\phi 12.7 \times t0.8$	
280	$\phi 22.22 \times t1.0$	$\phi 19.05 \times t1.0$			$\phi 19.05 \times t1.0$		
335							
400	$\phi 28.58 \times t1.0$	$\phi 22.22 \times t1.0$	$\phi 12.7 \times t0.8$	$\phi 28.58 \times t1.0$	$\phi 22.22 \times t1.0$	$\phi 15.88 \times t1.0$	
450							
504							
560							
615							
680							
735	$\phi 34.92 \times t1.2$	$\phi 28.58 \times t1.0$	$\phi 15.88 \times t1.0$	$\phi 34.92 \times t1.2$	$\phi 28.58 \times t1.0$	$\phi 19.05 \times t1.0$	
800							
850							
900			$\phi 19.05 \times t1.0$				
960							
1010							
1065							
1130							
1180							
1235							
1300							
1360							

Please use C1220T-1/2H for $\phi 19.05$ or larger pipes.

(c) Indoor unit side first branching pipe – Indoor unit side branching pipe: Section C in Figure 1

Please choose from the table below an appropriate pipe size as determined by the total capacity of indoor units connected downstream, provided, however, that the pipe size for this section should not exceed the main size (Section B in Figure 1).

- In the downstream of a branching controller, no gas discharge pipe needs to be connected.

Total capacity of indoor units	Suction gas pipe (gas pipe)	Discharge gas pipe	Liquid pipe
Less than 70	$\phi 12.7 \times t0.8$	$\phi 9.52 \times t0.8$	$\phi 9.52 \times t0.8$
70 or more but less than 180	$\phi 15.88 \times t1.0$	$\phi 12.7 \times t0.8$	
180 or more but less than 371	$\phi 19.05 \times t1.0$ ※1	$\phi 15.88 \times t1.0$	$\phi 12.7 \times t0.8$
371 or more but less than 540	$\phi 22.22 \times t1.0$ (only 335)	$\phi 22.22 \times t1.0$	$\phi 15.88 \times t1.0$
540 or more but less than 700	$\phi 28.58 \times t1.0$ (except 335)		
700 or more but less than 1100	$\phi 28.58 \times t1.0$		
1100 or more	$\phi 34.92 \times t1.2$	$\phi 28.58 \times t1.0$	$\phi 19.05 \times t1.0$

Please use C1220T-1/2H for $\phi 19.05$ or larger pipes.

※1: When connecting indoor units of 280 at the downstream and the main gas pipe is of $\phi 22.22$ or larger, use the pipe of $\phi 22.22 \times t1.0$.

(d) Indoor unit side branching pipe – Indoor unit: Section D in Figure 1

Indoor unit connection pipe size table

- In the downstream of a branching controller, no gas discharge pipe needs to be connected.

	Capacity	Suction gas pipe (gas pipe)	Discharge gas pipe	Liquid pipe
Indoor unit	22, 28	$\phi 9.52 \times t0.8$	$\phi 6.35 \times t0.8$ ※2	$\phi 6.35 \times t0.8$
	36, 45, 56	$\phi 12.7 \times t0.8$	$\phi 9.52 \times t0.8$	
	71, 80, 90, 112, 140, 160	$\phi 15.88 \times t1.0$	$\phi 12.7 \times t0.8$	
	224	$\phi 19.05 \times t1.0$	$\phi 15.88 \times t1.0$	$\phi 9.52 \times t0.8$
	280	$\phi 22.22 \times t1.0$	$\phi 19.05 \times t1.0$	

Please use C1220T-1/2H for $\phi 19.05$ or larger pipes.

※2: When the pipe length after first branching is 40 m or more,
Use a pipe of $\phi 9.52 \times t0.8$.

(4) Selection of an outdoor unit side branching pipe set

This branching pipe set will always become necessary when units are used in combination.

(When a unit is used as a standalone installation, it is not required)

Outdoor unit	Branching pipe set
For two units (for 735 – 1360)	DOS-2A-1-R

Please note

- In connecting an outdoor unit, please use a pipe conforming to the pipe size specified for outdoor unit connection.
- Choose a different-diameter pipe joint matching a main pipe size specified in Section (3) (b) in installing pipes (= main pipes) on the indoor unit side.
- Always install branching joints (for suction gas, discharge gas and liquid) in such a manner that they form either correct horizontal or vertical branch.

(5) Selection of an indoor unit side branching pipe set

(a) Method of selecting a branching pipe set

- As an appropriate branching pipe size varies with the connected capacity (total capacity connected downstream), determine a size from the following table.

① In the upstream of a branching controller

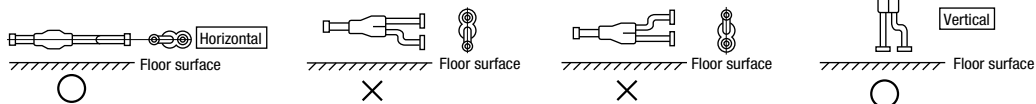
Total capacity downstream	Branching pipe set model type
Less than 180	DIS-22-1-R
180 or more but less than 371	DIS-180-1-R
371 or more but less than 540	DIS-371-2-R
540 or more	DIS-540-2-R

② In the downstream of a branching controller

Total capacity downstream	Branching pipe set model type
Less than 180	DIS-22-1
180 or more but less than 371	DIS-180-1
371 or more but less than 540	DIS-371-1
540 or more	DIS-540-2

Please note

- In connecting an indoor unit with the indoor unit side branching pipe set, please use a pipe conforming to the pipe size specified for indoor unit connection.
- Always install branching joints (for suction gas, discharge gas and liquid) in such a manner that they form **either correct horizontal or vertical branch.**



(6) Selection of a branching controller

- Select an appropriate one according to the combined total capacity of the indoor units connected downstream.
- The numbers of indoor units that can be connected to branching controllers are depicted in the table below.
- No liquid pipe needs to be connected to a branching controller.
- In the downstream of a branching controller, no discharge gas pipe needs to be connected.
- Do not run the unit, while a branching controller is yet to be connected with indoor units.

Total capacity downstream	Branching controller model type	Number of connectable units
Less than 112	PFD1123-E	1~5
112 or more but less than 180	PFD1803-E	1~8
180 or more but 280 or less	PFD2803-E	1~10

- Restriction on the number of branching controllers to be connected to the outdoor unit is as follows.

Outdoor unit	Minimum number of connectable branching controllers ※
~280	2
~560	4
~850	6
~1130	8
~1360	10

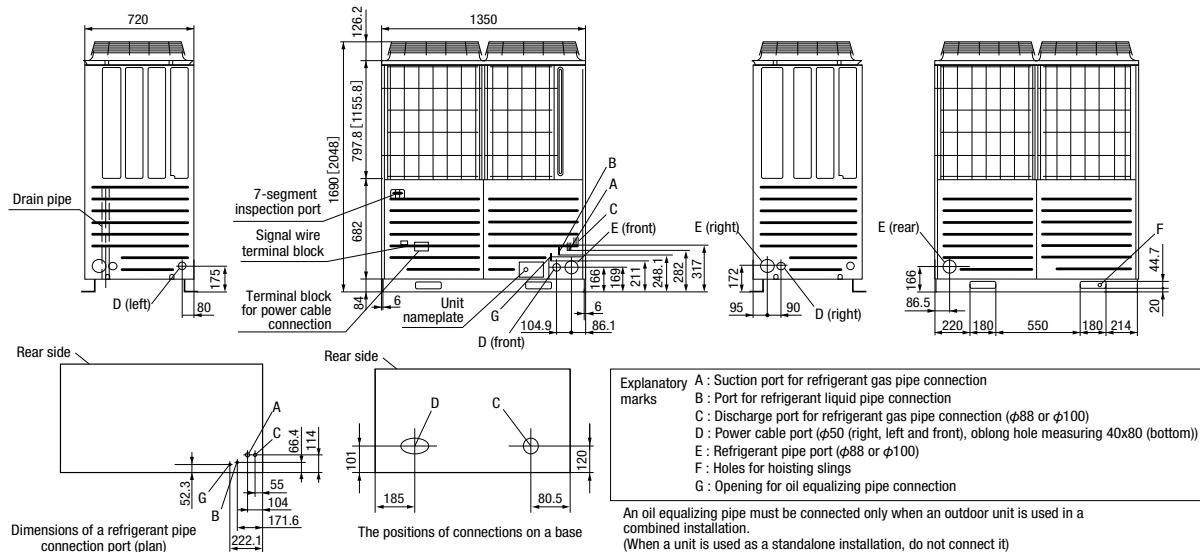
※ For PFD1123×4-E model, calculate the number of units taking 1 branching controller as 4 controllers in this limit.

4-2. Pipe connection position and pipe direction

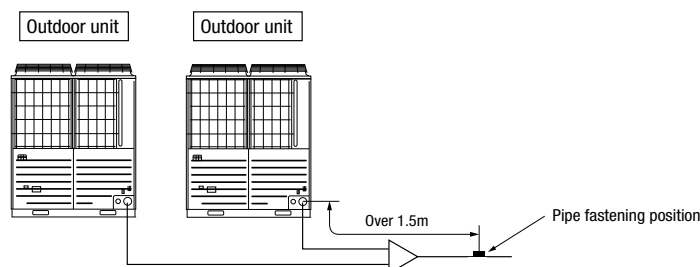
(1) Pipe connecting position and pipe outgoing direction

Although this drawing illustrates an installation involving a 450 or smaller capacity unit, an installation involving a 504 or a larger capacity unit should be arranged in the same manner as long as pipe connection points and directions are concerned, except that the height of a unit is different.

Measurements in [] indicate those of a 504 or larger capacity unit.



- A pipe can be laid through the front, right, bottom or rear of a unit as illustrated on the above drawings.
- In laying pipes on the installation site, cut off the casing's half blank ($\phi 88$ or $\phi 100$) that covers a hole for pipe penetration with nippers.
- When there is a danger that a small animal enters from the pipe port, cover with appropriate blocking materials (to be arranged on the user's part).
- Use an elbow (to be arranged on the user's part) to connect control valves to the piping.
- In anchoring piping on the installation site, give 1.5m or a longer distance between an outdoor unit and an anchoring point where the piping is secured as illustrated below. (A failure to observe this instruction may result in a pipe fracture depending on a method of isolating vibrations employed.)



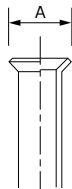
(2) Piping work

Important

- Please take care so that installed pipes may not touch components within a unit.
- **In laying pipes on the installation site, keep the operation valves shut all the time.**
- Give **sufficient protections** (compressed and brazed or by an adhesive tape) **to pipe ends so that any water or foreign matters may not enter the pipes.**
- In bending a pipe, bend it **to the largest possible radius (at least four times the pipe diameter)**. Do not bend a pipe repeatedly to correct its form.
- An outdoor unit's liquid pipe and liquid refrigerant piping are to be flare connected. Flare a pipe after engaging a flare nut onto it. A flare size for R410A is different from that for conventional R407C. Although we recommend the use of flaring tools developed specifically for R410A, conventional flaring tools can also be used by adjusting the measurement of protrusion B with a protrusion control gauge.
- Tighten a flare joint securely **with two spanners**. Observe flare nut tightening torque specified in the table below.

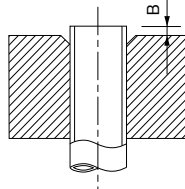
CAUTION

If you tighten it without using double spanners, you may deform the operation valve, which can cause an inflow of nitrogen gas into the outdoor unit.



Flared pipe end: A (mm)

Copper pipe outer diameter	A
φ 6.35	9.1
φ 9.52	13.2
φ 12.7	16.6
φ 15.88	19.7



Copper pipe protrusion for flaring: B (mm)

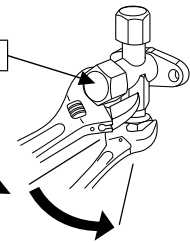
Copper pipe outer diameter	In the case of a rigid (clutch) type	
	With an R410A tool	With a conventional tool
φ 6.35	0~0.5	0.7~1.3
φ 9.52		
φ 12.7		
φ 15.88		

Tightening torque (N·m)

Operation valve size (mm)	Tightening torque (N·m)	Tightening angle (°)	Recommended length of tool handle (mm)
Ø6.35 (1/4")	14~18	45~60	150
Ø9.52 (3/8")	34~42	30~45	200
Ø12.7 (1/2")	49~61	30~45	250
Ø15.88 (5/8")	68~82	15~20	300
Ø19.05 (3/4")	100~120	15~20	450

Do not hold the valve cap area with a spanner.

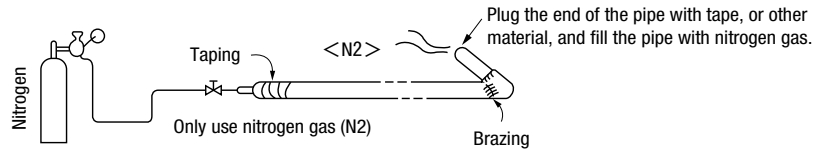
Use a torque wrench. If a torque wrench is not available, fasten the flare nut manually first and then tighten it further, using the left table as a guide.



- Do not apply any oil on a flare joint.
- Pipes are to be brazed to connect an outdoor unit's gas pipe with refrigerant piping or refrigerant piping with a branching pipe set.
- **Brazing must be performed under a nitrogen gas flow.** Without nitrogen gas, a large quantity of foreign matters (oxidized film) are created, causing a critical failure from capillary tube or expansion valve clogging.
- Brazing of the operation valve and the pipes should be performed while cooling the valve body with a wet towel.
- Perform flushing. To flush the piping, charge nitrogen gas at about 0.02MPa with a pipe end closed with a hand. When pressure inside builds up to a sufficient level, remove the hand to flush. (in flushing a pipe, close the other end of the pipe with a plug).

Operation procedure

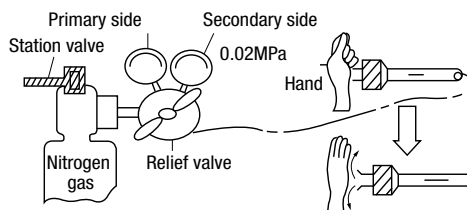
- ① **In laying pipes on the installation site, keep the operation valves shut all the time.**
- ② **Brazing must be performed under a nitrogen gas flow.** Without nitrogen gas, a large quantity of foreign matters (oxidized film) are created, causing a critical failure from capillary tube or expansion valve clogging.



- ③ Give **sufficient protections** (compressed and brazed or with an adhesive tape) **so that water or foreign matters may not enter the piping.**



- ④ Perform flushing. To flush the piping, charge nitrogen gas at about 0.02MPa with a pipe end closed with a hand. When pressure inside builds up to a sufficient level, remove the hand to flush. (in flushing a pipe, close the other end of the pipe with a plug).



- ⑤ In brazing an operation valve and a pipe, **brazing must be performed with the valve main body cooled with a wet towel or the like.**

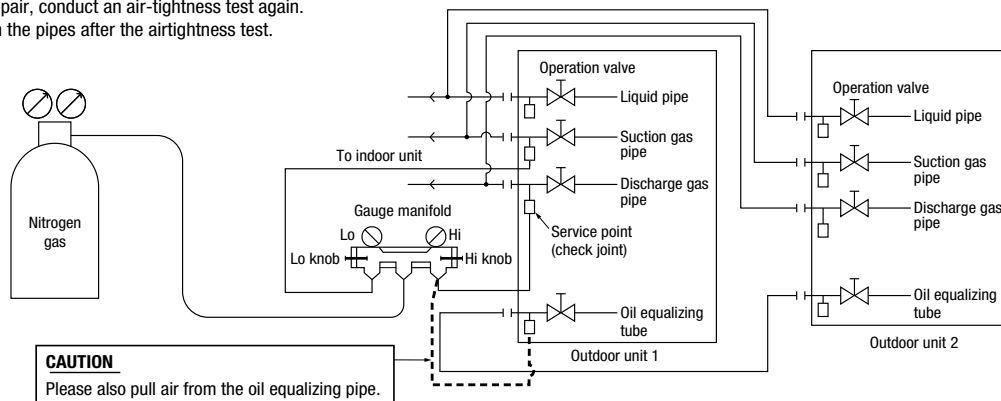
4-3. Air tightness test and air purge

(1) Air tightness test

- ① Although an outdoor unit itself has been tested for air tightness at the factory, please check the connected pipes and indoor units for air tightness from the check joint of the operation valve on the outdoor unit side. While conducting a test, **keep the operation valve shut all the time.**
- ② Since refrigerant piping is pressurized to the design pressure of a unit with nitrogen gas for testing air tightness, please connect instruments according to the drawing below. Under no circumstances should chlorine-based refrigerant, oxygen or any other combustible gas be used to pressurize a system.
Keep the operation valve shut all the time. Do not open it under any circumstances.
Be sure to pressurize all of the liquid, gas and oil equalizing pipes.
- ③ In pressurizing the piping, do not apply the specified level of pressure all at once, but gradually raise pressure.
 - a) **Raise the pressure to 0.5 MPa, and then stop. Leave it for five minutes or more** to see if the pressure drops.
 - b) **Then raise the pressure to 1.5 MPa, and stop. Leave it for five more minutes** to see if the pressure drops.
 - c) Then raise the pressure to the specified level (4.15 MPa), and record the ambient temperature and the pressure.
 - d) **If no pressure drop is observed with an installation pressurized to the specified level and left for about one day, it is acceptable.** When the ambient temperature changes 1°C, the pressure also changes approximately 0.01 MPa. The pressure, if changed, should be compensated for.
 - e) If a pressure drop is observed in checking e) and a) – d), a leak exists somewhere. Find a leak by applying bubble test liquid to welded parts and flare joints and repair it. After repair, conduct an air-tightness test again.
- ④ Always pull air from the pipes after the airtightness test.

CAUTION

Applying excessive pressure can cause an inflow of nitrogen gas into an outdoor unit.



(2) Vacuuming

Please pull air **from the check joints of the operation valves on both liquid and gas sides.**

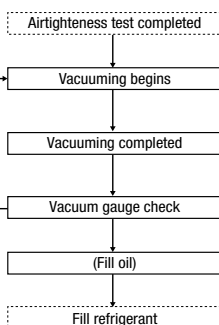
Please also **pull air from the oil equalizing pipe.** (Please pull air separately from the rest of the piping by using the oil equalizing valve check joint)

< Work flow >

When the system has remaining moisture inside or a leaky point, the vacuum gauge indicator will rise. Check the system for a leaky point and then draw air to create a vacuum again.

Please run the vacuum pump for at least one hour after the vacuum gauge shows -101kPa or lower. (-755mmHg or lower)

Confirm that the vacuum gauge indicator does not rise **after leaving the system for an hour or more.**



CAUTION

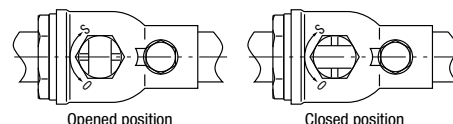
Insufficient vacuuming may result in poor performance falling short of the design capacity, pipe clogging due to residue moisture and/or a compressor failure.

Pay attention to the following points in addition to the above for the R410A and compatible machines.

- To prevent a different oil from entering, please assign dedicated tools, etc. to each refrigerant type. Under no circumstances must a gauge manifold and a charge hose in particular be shared with other refrigerant types (R22, R407C, etc.).
- Use a counterflow prevention adapter to prevent vacuum pump oil from entering the refrigerant system.

(3) Additional oil charge

When the total pipe length is longer than 510 m, charge 1,000 cc of M-MA32R refrigeration machine oil from the check joint of gas pipe operation valve after the vacuuming.



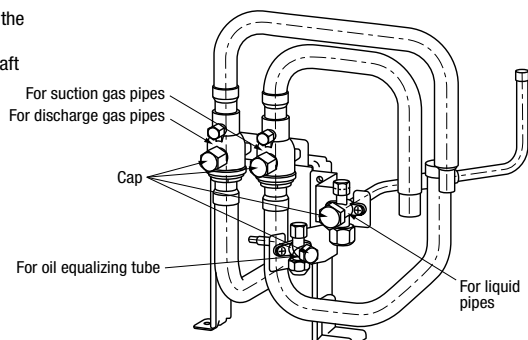
(4) Method of operating operation valves

Method of opening/closing a valve

- Remove the cap, turn the gas pipe side until it comes to the "Closed" position as indicated in the drawing on the right.
- For the liquid side pipe and oil equalizing pipe side, turn with a hexagonal wrench until the shaft stops. If excessive force is applied, the valve main body can be damaged. Always use a dedicated special tool.
- Tighten the cap securely.

For tightening torque, refer to the table below.

	Tightening torque N · m		
	Shaft (valve main body)	Cap (lid)	Cap nut (check joint section)
For gas pipes	7 or less	30 or less	13
For liquid pipes	7.85 (MAX 15.7)	29.4 (MAX 39.2)	8.8 (MAX 14.7)
For oil equalizing tube	4.9 (MAX 11.8)	16.2 (MAX 24.5)	8.8 (MAX 14.7)



For fastening torque of a flare nut, please refer to Section 4-2 (2) Piping work on site.

4-4. Additional refrigerant charge

Charge additional refrigerant **in the liquid state**.

Be sure to measure the quantity **with a scale in adding refrigerant**.

If you cannot charge all refrigerant with the outdoor unit lying idle, charge it with the unit running in the test run mode. (For the test run method, please refer to Section 8)

If operated for a long time with insufficient refrigerant the compressor will be damaged. (In particular, when adding refrigerant during operation, complete the job within 30min.)

This unit contains **<224:8.7kg, 280:9.9kg, 335:11.4kg, 400~680:11.5kg, 735~1360:23.0kg> of refrigerant**.

Determine the amount of refrigerant to be charged additionally using the following formula and put down the amount of refrigerant added on the refrigerant charge volume recording plate provided on the back the front panel.

● Adding additional refrigerant

Charge additional refrigerant according to the size and length of the liquid piping and unit capacity.

Determine additional charge volume by rounding to the nearest 0.1 kg.

Additional fill quantity (kg) = S + P × 1.4 + I

S: standard additional refrigerant quantity (kg), P: Additional refrigerant quantity for piping (kg)

Outdoor unit	S (kg)
400	1.3
450	3.1
504	4.8
560	5.9
615	7.1
680	8.4

Outdoor unit	S (kg)
735	1.7
800	2.6
850	4.4
900	6.2
960	7.9
1010	9.6

Outdoor unit	S (kg)
1065	10.7
1130	11.8
1180	13.0
1235	14.2
1300	15.5
1360	16.8

P = (L1×0.37) + (L2×0.26) + (L3×0.18) + (L4×0.12) + (L5×0.059) + (L6×0.022)

L1 : φ 22.22 total length (m) L2 : φ 19.05 total length (m) L3 : φ 15.88 total length (m)

L4 : φ 12.7 total length (m) L5 : φ 9.52 total length (m) L6 : φ 6.35 total length (m)

Refrigerant liquid pipe size	φ 22.22	φ 19.05	φ 15.88	φ 12.7	φ 9.52	φ 6.35	Remarks
Additional fill quantity (kg/m)	0.37	0.26	0.18	0.12	0.059	0.022	

I: Additional refrigerant quantity for indoor units (kg)

If the total indoor units capacity is larger than 1.3 times of outdoor unit capacity, then calculate the additional refrigerant quantity for indoor units.

D = {(Total indoor units capacity) - (outdoor unit capacity) × 1.3}

I = D × 0.01

When D > 0, calculate I using the above equation;

When D ≤ 0, take it as I = 0.

Important

When the Additional refrigerant quantity for piping (P) is over the following table, please separate the refrigerant line.

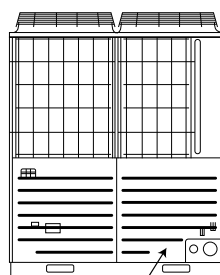
Outdoor unit	P (kg)
224-680	50
735-1360	100

Pay attention to the following points in addition to the above for the R410A and compatible machines.

- To prevent a different oil from entering, please assign dedicated tools, etc. to each refrigerant type. Under no circumstances must a gauge manifold and a charge hose in particular be shared with other refrigerant types (R22, R407C, etc.).
- Refrigerant types are indicated by color at the top of the cylinder 5. (Pink for R410A). Always confirm this.
- Do not use a charge cylinder under any circumstances. There is a danger that the composition of the refrigerant will change when R410A is transferred to a cylinder.
- When charging refrigerant, use liquid refrigerant from a cylinder. If refrigerant is charged in a gas form, the composition may change considerably.

Please note

Put down on the refrigerant charge volume recording plate provided on the back of the front panel the amount of refrigerant calculated from the pipe length.



It is located in back of this front panel.

CAUTION

Be sure to record the refrigerant volume, because the information is necessary to perform the installation's maintenance service.

4-5. Heating and condensation prevention

① Dress refrigerant pipes (both gas and liquid pipes) for heat insulation and prevention of dew condensation.

Improper heat insulation/anti-dew dressing can result in a water leak or dripping causing damage to household effects, etc.

② Use a heat insulating material that can withstand 120°C or a higher temperature. Poor heat insulating capacity can cause heat insulation problems or cable deterioration.

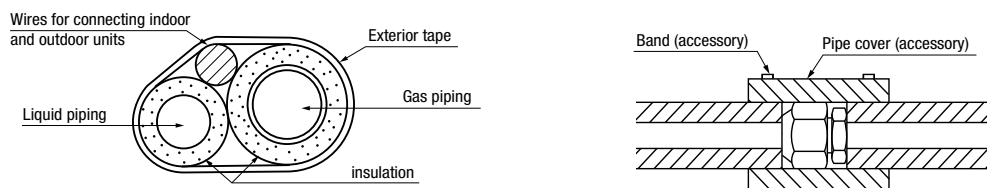
a) The gas pipe can cause during a cooling operation dew condensation, which will become drain water causing a possible water-leak accident, or reach during a heating operation as high a temperature as 60°C to 110°C, posing a risk of burns, when touched accidentally. So, do not fail to dress it with a heat insulation material.

b) Wrap indoor units' flare joints with heat insulating parts (pipe cover) for heat insulation (both gas and liquid pipes).

c) Give heat insulation to both gas and liquid side pipes. Bundle a heat insulating material and a pipe tightly together so that no gaps may be left between them and wrap them together with a connecting cable by a dressing tape.

d) Although this air conditioning unit has been tested under the JIS condensation test conditions, the dripping of water may occur when it is operated in a high-humidity atmosphere (23°C or a higher dew point temperature). In such a case, apply an additional heat insulation material of 10 to 20 mm thick to dress an indoor unit body, piping and drain pipes.

When the ambient dew point temperature becomes 28°C or higher, or the relative humidity becomes 80% or higher, add further 10 to 20 mm thick heat insulation material.



5. Drainage

- Where water drained from the outdoor unit may freeze, connect the drain pipe using optional drain elbow and drain grommet.

6. ELECTRICAL WIRING WORK

Electrical installation work must be performed by an electrical installation service provider qualified by a power provider of the country.

Electrical installation work must be executed according to the technical standards and other regulations applicable to electrical installations in the country.

⚠ Please install an earth leakage breaker without fail. The installation of an earth leakage breaker is compulsory in order to prevent electric shocks or fire accidents.
(Since this unit employs inverter control, please **use an impulse withstanding type** to prevent an earth leakage breaker's false actuation.)

Please note

a) Use only copper wires.

Do not use any supply cord lighter than one specified in parentheses for each type below.

- braided cord (code designation 60245 IEC 51), if allowed in the relevant part 2;
- ordinary tough rubber sheathed cord (code designation 60245 IEC 53);
- flat twin tinsel cord (code designation 60227 IEC 41)
- ordinary polyvinyl chloride sheathed cord (code designation 60227 IEC 53).

Please do not use anything lighter than polychloroprene sheathed flexible cord (cord designation 60245 IEC57) for supply cords of parts of appliances for outdoor use.

b) **Use separate power supplies for the indoor and outdoor units.**

c) A grounding wire must be connected before connecting the power cable. Provide a grounding wire longer than the power cable.

d) **The power supplies for indoor units in the same system should turn on and off simultaneously.**

e) Ground the unit. Do not connect the grounding wire to a gas pipe, water pipe, lightning rod or telephone grounding wire.

If improperly grounded, an electric shock or malfunction may result.

Never connect the grounding wire to a gas pipe because if gas leaks, it could cause explosion or ignition.

f) **The installation of an impulse withstanding type earth leakage breaker is necessary.** A failure to install an earth leakage breaker can result in an accident such as an electric shock or a fire. Do not turn on the power until the electrical work is completed. Be sure to turn off the power when servicing.

g) Please do not use a condensive capacitor for power factor improvement under any circumstances. (It does not improve power factor, while it can cause an abnormal overheat accident)

h) For power supply cables, use conduits.

i) Please **do not lay electronic control cables (remote control and signaling wires) and other high current cables together outside the unit.** Laying them together can result in malfunctioning or a failure of the unit due to electric noises.

j) Power cables and signaling wires must always be connected to the power cable terminal block and secured by cable fastening clamps provided in the unit.

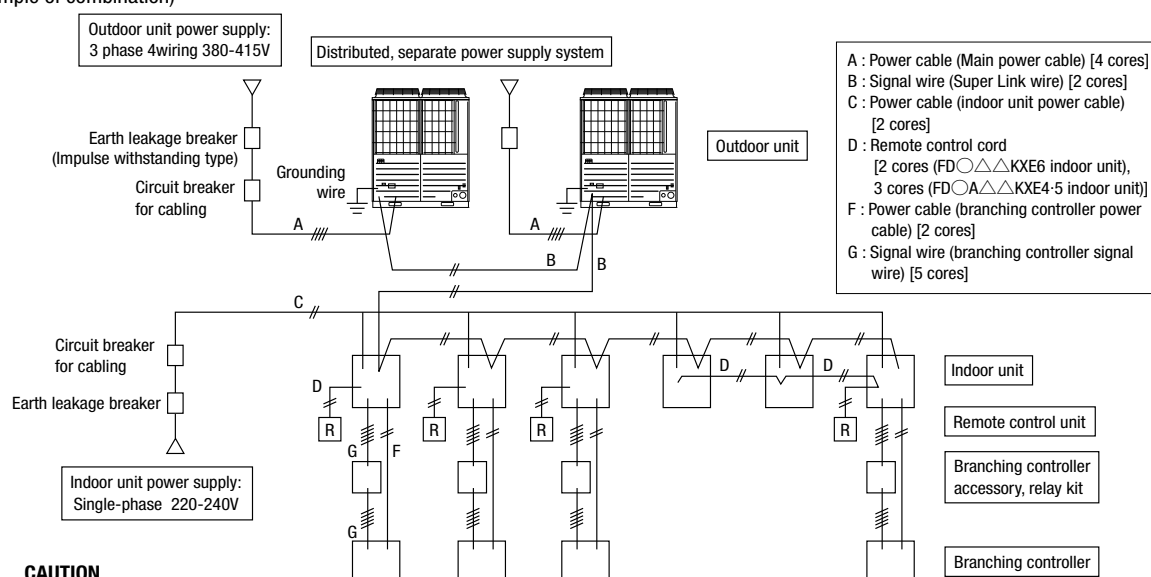
k) Fasten cables so that they may not touch the piping, etc.

l) **When cables are connected, please make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection** and then attach the cover securely. (Improper cover attachment can result in malfunctioning or a failure of the unit, if water penetrates into the box.)

m) Make sure to use circuit breakers (earth leakage breaker and circuit breaker) of proper capacity. Use of breakers of larger capacity could result in trouble on components or fire accident.

6-1. Wiring system diagrams

(Example of combination)



6-2. Method of connecting power cables

(1) Method of leading out cables

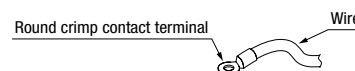
- As shown on the drawing in Section 4-2 (1), cables can be laid through the front, right, left or bottom casing.
- In wiring on the installation site, cut off a half-blank ($\phi 50$ or oblong hole measuring 40x80) covering a penetration of the casing with nippers.

(2) Notabilia in connecting power cables

Power cables must always be connected to the power cable terminal block and clamped outside the electrical component box.
In connecting to the power cable terminal block, use round solderless terminals.

- Connect the ground wire before you connect the power cable. When you connect a grounding wire to a terminal block, use a grounding wire longer than the power cable so that it may not be subject to tension.
- Do not turn on power until installation work is completed. Turn off power to the unit before you service the unit.
- Ensure that the unit is properly grounded.
- Always connect power cables to the power terminal block.
- To connect a cable to the power terminal block, use a round crimp contact terminal.
- Use specified wires in wiring, and fasten them securely in such a manner that the terminal blocks are not subject to external force.
- In fastening a screw of a terminal block, use a correct-size driver.
Fastening a screw of a terminal block with excessive force can break the screw.
- For the tightening torque of terminals, refer to the list shown at right.
- When electrical installation work is completed, make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection.

Tightening torque (N · m)		
M4	Outdoor signal line terminal block	0.9~1.2
M5	Power cable terminal block, Earth wire	2.00~2.35



(3) Outdoor unit power supply specifications : 3 phase 380-415V

Model	Power source	Cable size for power source (mm ²)	Wire length (m)	Moulded-case circuit breaker (A)		Earth leakage breaker	Earth wire	
				Rated current	Switch capacity		Size (mm ²)	Screw type
224~335	3 phase 4 wire 380-415V	8	67	40	50	60A100mA less than 0.1 sec	3.5	M5
335-K~680	50Hz/ 380V 60Hz	22	92	75	100	75A100mA less than 0.1 sec	5.5	M5

CAUTION

- Connecting power cables on to the terminal block
 - (1) If 22mm² size of power cables clamped with M5 round terminal are connected on to the terminal block of outdoor unit, the clearances between cables become narrow in comparison with using 14mm² size of power cable.
Considering safety be sure to insulate the terminal securely by wrapping with insulation tape or using coated terminal with insulation material, and so on.
 - (2) If the power cables with following feature is used, 14mm² size of power cable is available to use.
We recommend you to use following 14mm² size power cable instead of 22mm² one due to easy cable work.
Feature : Rated voltage is 600V and maximum allowable temperature of insulation is more than 75°C.
Cable type (Example)
Heat insulated vinyl cable (HIV cable)
Insulated polyethylene cable (IE cable)
Insulated ethylene-propylene rubber cable (IP cable)
Insulated cross-linked polyethylene cable
and etc.

Please note

- The method of laying cables has been determined pursuant to the Japanese indoor wiring regulations (JEAC8001). (Please adapt it to the regulations in effect in each country)
- In the case of distributed, separate power supply system, the listed data represent those of an outdoor unit.
- For details, please refer to the installation manual supplied with the indoor unit.

(4) Indoor unit power supply specifications : Single phase 220-240V

Combined total capacity of indoor units	Cable size for power source (mm ²)	Wire length (m)	Moulded-case circuit breaker (For ground fault, overload and short circuit protection)	Signal wire size (mm ²)
Less than 7A	2	21	20A 100mA less than 0.1 sec	2cores x 0.75-2.0 ※
Less than 11A	3.5	21	20A 100mA less than 0.1 sec	
Less than 12A	5.5	33	20A 100mA less than 0.1 sec	
Less than 16A	5.5	24	30A 100mA less than 0.1 sec	
Less than 19A	5.5	20	40A 100mA less than 0.1 sec	
Less than 22A	8	27	40A 100mA less than 0.1 sec	
Less than 28A	8	21	50A 100mA less than 0.1 sec	

※ Please use a shielded cable.

Please note

- The method of laying cables has been determined pursuant to the Japanese indoor wiring regulations (JEAC8001). (Please adapt it to the regulations in effect in each country)
- Wire length in the table above is the value for when the indoor unit is connect to the power cable in series also the wire size and minimum length when the power drop is less than 2% are shown. If the current exceeds the value in the table above, change the wire size according to the indoor wiring regulations. (Please adapt it to the regulations in effect in each country)
- For details, please refer to the installation manual supplied with the indoor unit.
- Wires connected to indoor units are allowed up to 5.5 mm². For 8 mm² or more, use a dedicated pull box and branch to indoor units with 5.5 mm² or less.
- ③ terminal on the terminal block is specified to connect only an optional auxiliary heater (power supply for heater).

6-3. Method of connecting signaling wires

The communication protocol can be chosen from following two types. One of them is the conventional Superlink (hereinafter previous SL) and the other is the new Superlink II (hereinafter new SL). These two communication protocols have the following advantages and restrictions, so please choose a desirable one meeting your installation conditions such as connected indoor units and centralized controller. When signal cables are connected into a network involving outdoor units, indoor units or centralized control equipment that do not support new SL, please select communications in the previous SL mode, even if the refrigerant system is separated from theirs.

Communication protocol	Conventional communication protocol (previous SL)	New communication protocol (new SL)
Outdoor unit setting (SW5-5)	ON	OFF (Factory default)
No. of connectable indoor units	Max. 48	Max. 128
No. of connectable outdoor units in a network	Max. 48	Max. 32
Signal cable (total length)	Up to 1000m	Up to 1,500 m for 0.75 mm ² shielding wire (MVVS) Up to 1,000 m for 1.25 mm ² shielding wire (MVVS)
Signal cable (furthest length)	Up to 1000m	Up to 1000m
Connectable units to a network	Units not supporting new SL (FD○A△△KXE4-5 series) Units supporting new SL (FD○△△KXE6 series) Can be used together.	Units supporting new SL (FD○△△KXE6 series)

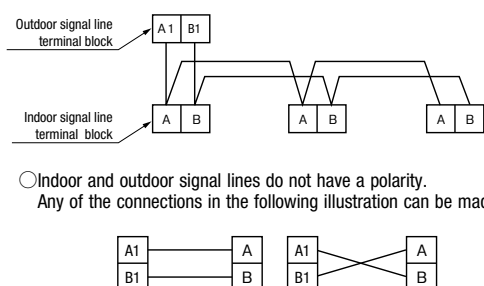
Note: For FDT224 and 280 models, calculate the number of units taking 1 indoor unit as 2 units for the sake of communication.

- **Signal cables are for DC 5 V. Never connect wires for 220/240 V or 380/415 V.** Protective fuse on the PCB will trip.
 - Confirm that signal cables are prevented from applying 220/240 V or 380/415 V.
 - Before turning the power on, check the resistance on the signal cable terminal block. If it is less than 100Ω, power supply cables may be connected to the signal cable terminal block.
Standard resistance value=46,000 {(Number of FD○A△△KXE4-5 Series units connected×5)+(Number of FD○△△KXE6 Series units connected×9)}.
 If the resistance value is less than 100Ω, disconnect the signal cables temporarily to divide to more than one network, to reduce the number of indoor units on the same network, and check each network.

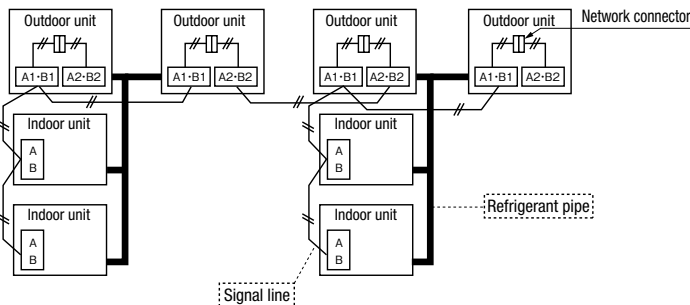
Indoor and outdoor units signal cables

- Connect the signal cable between indoor and outdoor units and the signal cable between outdoor units belonging to the same refrigerant line to A1 and B1.
- Connect the signal line between outdoor units on different refrigerant lines to A2 and B2.
- Please use a shielded cable for a signal line and connect a shielding earth at all the indoor units and outdoor units.

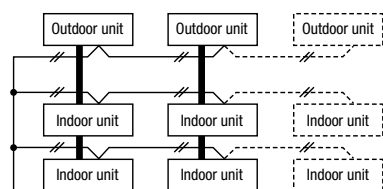
(1) When one outdoor unit is used.



(2) When plural outdoor units are used

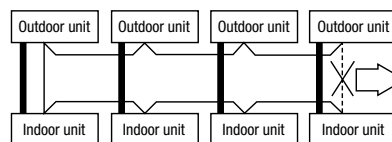


(3) The signal lines can also be connected using the method shown below.



Important

○ Loop wiring prohibited.



Remote controller wiring specifications

- A standard remote controller wire is 0.3mm² x 2 cores (FDC○△△KXE6 indoor unit), 0.3mm² x 3 cores (FD○A△△KXE4-5 indoor unit). It can be extended up to 600m. For a remote controller wire exceeding 100m, please upgrade wire size as specified in the table below.

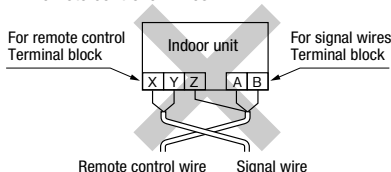
Length (m)	Wire size	
	FD○△△KXE6 indoor unit	FD○A△△KXE4 indoor unit
100 to 200	0.5mm ² × 2 cores	0.5mm ² × 3 cores
To 300	0.75mm ² × 2 cores	0.75mm ² × 3 cores
To 400	1.25mm ² × 2 cores	1.25mm ² × 3 cores
To 600	2 mm ² × 2 cores	2 mm ² × 3 cores

- (2) When the remote controller wire runs parallel to another power supply wire or when it is subject to outside noise, such as from a high-frequency device, use shielded wire. (Be sure to ground only one end of the shielded wire.)

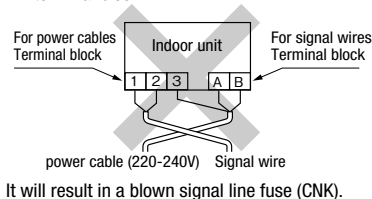
CAUTION

In addition to a possible wiring error between indoor and outdoor units, there are other possibilities of erroneous wiring as illustrated below.

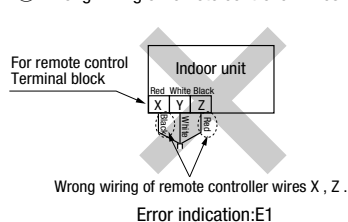
- ① Wrong wiring between signaling wires and remote controller wires.



- ② Connecting power cables to the signaling wire terminal block.



- ③ Wrong wiring of remote controller wires.



7. CONTROLLER SETTINGS

7-1. Unit address setting

This control system controls the controllers of more than one air conditioner's outdoor unit, indoor unit and remote control unit through communication control, using the microcomputers built in the respective controllers. Address setting needs to be done for both outdoor and indoor units. Turn on power in the order of the outdoor units and then the indoor units.

Use 1 minute as the rule of thumb for an interval between them.

The communication protocol can be chosen from following two types. One of them is the conventional communication protocol (previous SL) and the other is the new communication protocol (new SL). These two communication protocols have their own features and restrictions as shown by Table 6-3. Select them according to the indoor units and the centralized control to be connected.

When signal cables are connected into a network involving outdoor units, indoor units or centralized control equipment that do not support new SL, please select communications in the previous SL mode, even if the refrigerant system is separated from theirs.

When communication is established after setting addresses, check the communication protocol with the 7 segment display panel of the outdoor unit.

●Address setting methods

The following address setting methods can be used. The procedure for automatic address setting is different from the conventional one.

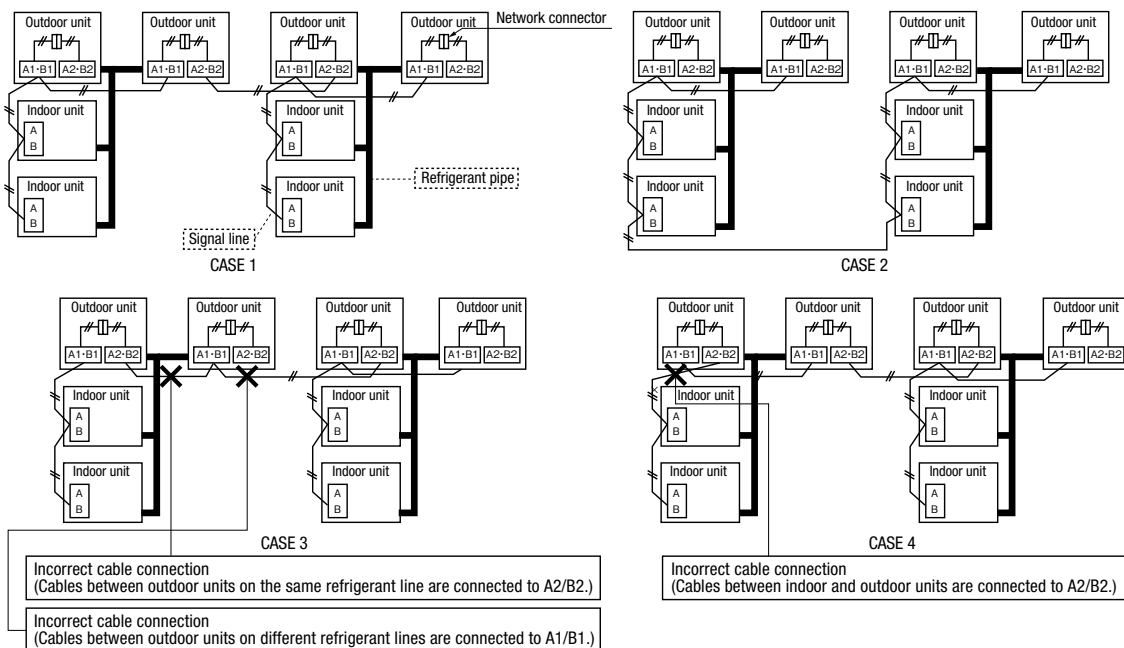
Please use the automatic address setting function after reading this manual carefully.

Communication protocol		new SL		previous SL	
Address setting method		Automatic	Manual	Automatic	Manual
When plural refrigerant systems are linked with signal lines (e.g., to implement centralized control)	Case 1 When signal lines linking plural refrigerant systems are provided between outdoor units. (When the network connector is disconnected, refrigerant systems are separated each other)	OK※1	OK	×	OK
	Case 2 When signal lines linking plural refrigerant systems are provided between indoor units.	×	OK	×	OK
When only one refrigerant system is involved (signal lines do not link plural refrigerant systems)		OK	OK	OK	OK

※1 Do not connect the signal line between outdoor units on the different refrigerant lines to A1 and B1. Do not connect the signal line between outdoor units on the same refrigerant line to A2 and B2. This may interrupt proper address setting. (Case 3)

Do not connect the signal line between indoor unit and outdoor unit to A2 and B2. This may interrupt proper address setting. (Case 4)

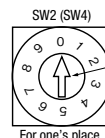
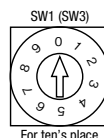
※2 In Case 2, automatic address setting is not available. Set addresses manually.



●Address No. setting

Set SW1 through 4 and SW5-2 provided on the PCB and SW1 & 2 provided on the outdoor unit PCB as shown in the drawings below.

Indoor PCB	SW1, 2 (blue)	For setting indoor No. (The ten's and one's)
	SW3, 4 (green)	For setting outdoor No. (The ten's and one's)
	SW5-2	Indoor No. switch (The hundred's Place) [OFF : 0, ON : 1]
Outdoor PCB	SW1, 2 (green)	For setting outdoor No. (The ten's and one's)



By inserting a flat driver (precision screw driver) into this groove and turn the arrow to point a desired number.

●Summary of address setting methods (figures in [] should be used with previous SL)

	Units supporting new SL			Units NOT supporting new SL		
	Indoor unit address setting		Outdoor unit address setting	Indoor unit address setting		Outdoor unit address setting
	Indoor No. switch	Outdoor No. switch	Outdoor No. switch	Indoor No. switch	Outdoor No. switch	Outdoor No. switch
Manual address setting (previous SL/new SL)	000~127[47]	00~31[47]	00~31[47]	00~47	00~47	00~47
Automatic address setting for single refrigerant system installation (previous SL/new SL)	000	49	49	49	49	49
Automatic address setting for multiple refrigerant systems installation (with new SL only)	000	49	00~31	×	×	×

Do not set numbers other than those shown in the table, or an error may be generated.

Note: When units supporting new SL are added to a network using previous SL such as one involving FD○A△△KXE4-5 series units, choose previous SL for the communication protocol and set addresses manually. Since the models FDT224 and 280 have 2 PCBs per unit, set different indoor unit No. and SW on each PCB.

- An outdoor unit No., which is used to identify which outdoor unit and indoor units are connected in a refrigerant system, is set on outdoor unit PCB and indoor unit PCB. Give the same outdoor unit No. to all outdoor unit and indoor units connected in same refrigerant system.
- An indoor unit No. is used to identify individual indoor units. Assign a unique number that is not assigned to any other indoor units on the network.

Unless stated otherwise, the following procedures apply, when new SL is chosen for the communication protocol.

When previous SL is chosen, use figures shown in [] in carrying out these procedures.

Manual address setting Generally applicable to new SL/previous SL, use figures in [] with previous SL.

① Outdoor unit address setting

Set as follows before you turn on power. Upon turning on power, the outdoor unit address is registered.

Set a unique number by avoiding the numbers assigned to other outdoor units on the network.

Set **the Outdoor Unit No. switch to a number 00 - 31 [in the case of previous SL: 00 - 47]**.

- Similarly for the master unit used in a combined installation, set **the Outdoor Unit No. switch to a number 00-31 [in the case of previous SL:00-47]**.
- Similarly for the slave unit used in a combined installation, set **the Outdoor Unit No. switch to the same number with a master unit and then, set the dipswitch SW4-7 of the slave unit to ON.** (Set both master and slave units to the same outdoor unit number.)

Refrigerant system	Outdoor unit	SW1	SW2	SW4-7	Address on a network
A	Master	2	0	OFF	20
	Slave	2	0	ON	21
B	Master	2	2	OFF	22
	Slave	2	2	ON	23
C	Master	3	1	OFF	31
	Slave	3	1	ON	00

CAUTION

A slave unit's address will be set to "the master unit's address +1." When you set a master unit's address, take care not to assign an address duplicating with one used in another system. You cannot operate the installation with a duplicating address assigned. (Error indication: E-31)

This table shows an examples of address settings. **As illustrated with the refrigerant systems A and B in the above example, when successive numbers are used in setting addresses, care must be taken so that an address assigned to the master unit of the refrigerant system B will not duplicate with one assigned to the slave unit of the refrigerant system A.**

② Indoor unit address setting

Set as follows before you turn on power. Upon turning on power, the indoor unit address is registered.

Set **the Indoor Unit No. switch to a number 000 - 127 [in the case of previous SL: 00 - 47]**.

Set **the Outdoor Unit No. switch** to the outdoor unit No. of the associated outdoor unit within the range of **00 - 31 [in the case of previous SL: 00 - 47]**.

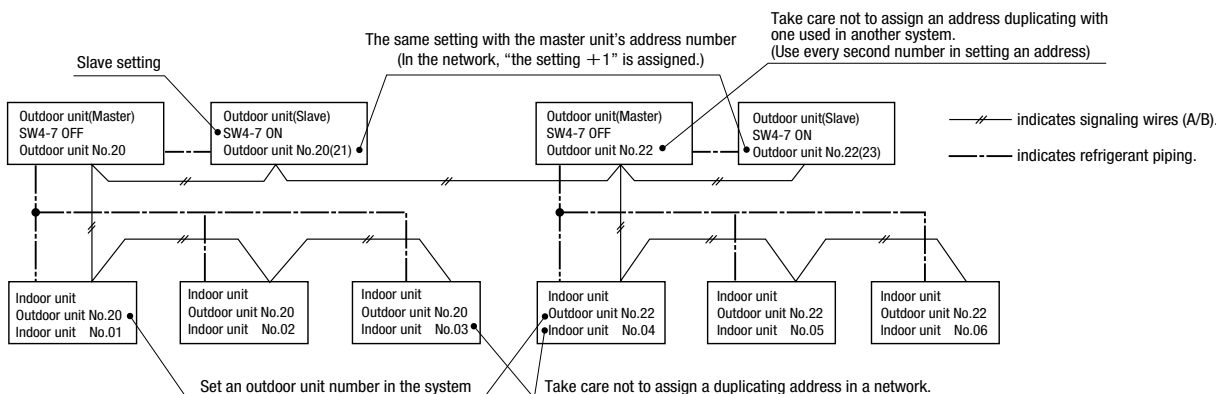
Set a unique number by avoiding the numbers assigned to other indoor units on the network.

③ Turn on power in order from the outdoor unit to indoor units. Give a one-minute or longer interval for them.

* When there are some units not supporting new SL connected in the network, set SW5-5 to ON to choose the previous SL communication mode.

In the case of previous SL, the maximum number of indoor units connectable in a network is 48.

Example of address setting (manual)



Automatic address setting Generally applicable to new SL/previous SL, use figures in [] with previous SL.

With new SL, you can set indoor unit addresses automatically even for an installation involving multiple refrigerant systems connected with same network, in addition to the conventional automatic address setting of a single refrigerant system installation.
However, an installation must satisfy some additional requirements such as for wiring methods, so please read this manual carefully before you carry out automatic address setting.

(1) In the case of a single refrigerant system installation (Generally applicable to new SL/previous SL, use figures in [] with previous SL.)

① Outdoor unit address setting

Set as follows before you turn on power.

Make sure that the **Outdoor Unit No. switch** is set to **49 (factory setting)**.

- **Similarly for the master unit used in a combined installation, make sure that the Outdoor unit No. switch is set to 49 (factory setting).**

- **Similarly for the slave unit used in a combined installation, make sure that the Outdoor unit No. switch is set to 49 (factory setting).**

Then, set the dipswitch SW4-7 of the slave unit to ON.

Outdoor unit	SW1	SW2	SW4-7	Address on a network
Master unit	4	9	OFF	49
Slave unit	4	9	ON	00

CAUTION

If the slave unit is not specified, a compressor failure may result.

The **master unit** will be registered as **"49"** regardless of the SW1 and SW2 settings (49).

The **slave unit** will be registered as **"00"** because of its SW4-7 setting as indicated in the table above.

② Indoor unit address setting

Set as follows before you turn on power.

Make sure that the **Indoor Unit No. switch** is set to **000 [in the case of previous SL: 49] (factory setting)**.

Make sure that the **Outdoor Unit No. switch** is set to **49 (factory setting)**.

③ Turn on power in order from the outdoor unit to indoor units. Give a one-minute or longer interval for them. Unlike the procedure set out in (2) below, you need not change settings from the 7 segment display panel.

④ Make sure that the number of indoor units indicated on the 7 segment display panel agrees with the number of the indoor units that are actually connected to the refrigerant system.

(2) In the case of a multiple refrigerant systems installation (Applicable to new SL only. In the case of previous SL, set addresses with some other method.)

(This option is available when the interconnection wiring among refrigerant systems is on the outdoor side and new SL is chosen as the communication protocol.)

Address setting procedure (perform these steps for each outdoor unit)

[STEP1] (Items set before turning on power)

① Outdoor unit address setting

Set as follows before you turn on power.

Set the **Outdoor Unit No. switch** to a number **00 - 31**. Set a unique number by avoiding the numbers assigned to other outdoor units on the network.

• Similarly for the master unit used in a combined installation, set the **Outdoor Unit No. switch to a number 00-31**.

• Similarly for the slave unit used in a combined installation, set the **Outdoor Unit No. switch to the same number with a master unit and then, set the dipswitch SW4-7 of the slave unit to ON**. (Set both master and slave units on the same outdoor unit number.)

② Indoor unit address setting

Set as follows before you turn on power.

Make sure that the **Indoor Unit No. switch** is set to **000 (factory setting)**.

Make sure that the **Outdoor Unit No. switch** is set to **49 (factory setting)**.

③ Isolate the present refrigerant system from the network.

Disengage the **network connectors (white 2P)** of the outdoor units. (Turning on power without isolating each refrigerant system will result in erroneous address setting.)

[STEP2] (Power on and automatic address setting)

④ Turn on power to the outdoor unit

Turn on power in order from the outdoor unit to indoor units. Give a one-minute or longer interval for them.

⑤ Select and enter "1" in P31 on the 7 segment display panel of each outdoor unit (master unit in case of combination) to input "Automatic address start."

⑥ Input a starting address and the number of connected indoor units.

Input a starting address in P32 on the 7 segment display panel of each outdoor unit (master unit in case of combination).

⑦ When a starting address is entered, the display indication will switch back to the "Number of Connected Indoor Units Input" screen.

Input the number of connected indoor units from the 7 segment display panel of each outdoor unit (master unit in case of combination). Please input the number of connected indoor units (on the same refrigerant line in case of combination) for each outdoor unit. (You can input it from P33 on the 7 segment display panel.) When the number of connected indoor units is entered, the 7 segment display panel indication will switch to "AUX" and start flickering.

[STEP3] (Automatic address setting completion check)

⑧ Indoor unit address determination

When the indoor unit addresses are all set, the 7 segment display panel indication will switch to "AUE" and start flickering.

If an error is detected in this process, the display will show "A○○."

Check the 7 segment display panel of each outdoor unit (master unit in case of combination).

Depending on the number of connected indoor units, it may take **about 10 minutes** before the indoor unit addresses are all set.

[STEP4] (Network definition setting)

⑨ Network connection

When you have confirmed an "AUE" indication on the display of each outdoor unit, **engage the network connectors** again.

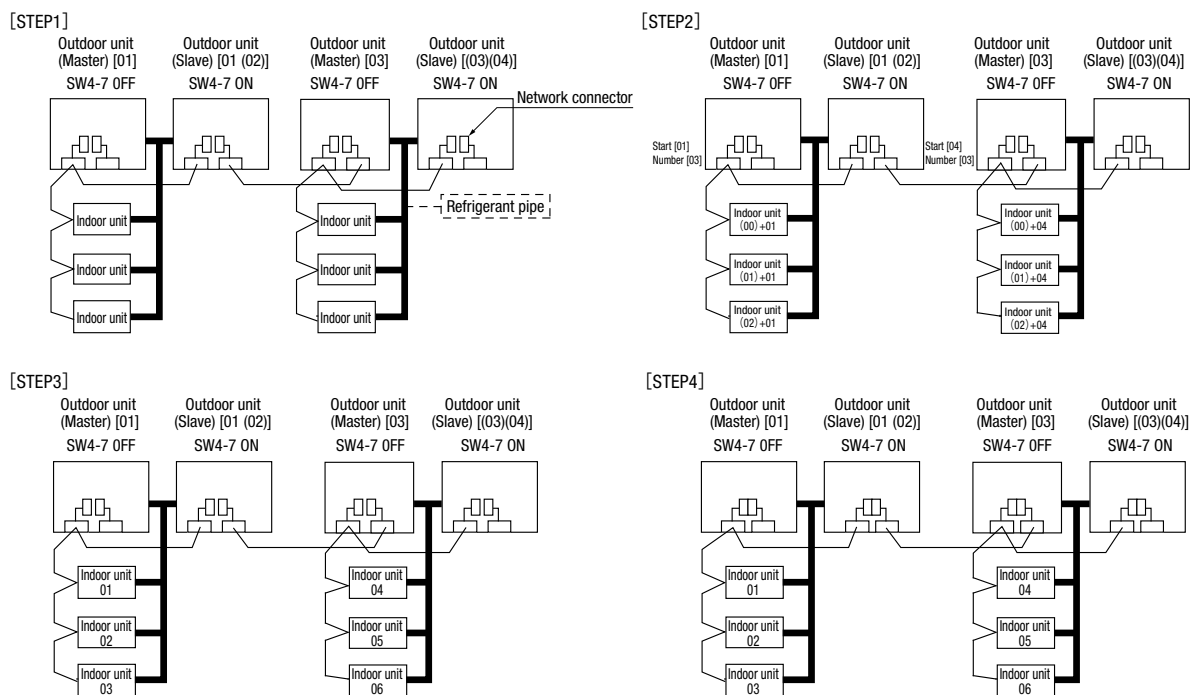
⑩ Network polarity setting

After you have made sure that the network connectors are engaged in ⑧, select and enter "1" in P34 on the 7 segment display panel of **any outdoor unit (on only 1 unit : master unit in case of combination)** to specify network polarity.

⑪ Network setting completion check

When the network is defined, "End" will appear on the 7 segment display panel. An "End" indication will go off, when some operation is made from the 7 segment display panel or 3 minutes after.

	STEP1	STEP2	STEP3	STEP4
Indoor unit power source	②OFF	④ON	—	—
Outdoor unit power source	①OFF	④ON	—	—
Indoor unit (indoor/outdoor No.SW)	②indoor000/outdoor 49 (factory setting)	—	—	—
Outdoor unit (outdoor No.SW)	①01,03(Ex)	—	—	—
Network connectors	③Disconnect(each outdoor unit)	—	—	⑨Connect(each outdoor unit)
Start automatic address setting		⑤ Select "Automatic Address Start" on each outdoor unit.		
Set starting address		⑥ outdoor 01: [01] (Ex) outdoor 03: [04] (Ex)	—	—
Set the number of indoor unit		⑦ outdoor 01: [03] (Ex) outdoor 03: [03] (Ex)	—	—
Polarity setting		—	—	⑩ Set in P34 on the 7 segment display panel of any outdoor unit.
7 segment display		⑦ [AUX] (Blink)	⑧ "AUE"(blink), or "A○○" in error events.	⑪ [End]



- Within a refrigerant system, indoor units are assigned addresses in the order they are recognized by the outdoor unit. Therefore, they are not necessarily assigned addresses in order from the nearest to the outdoor unit first as depicted in drawings above.
- Make sure that power has been turned on to all indoor units.
- When addresses are set, you can have the registered indoor unit address No.'s and the outdoor unit address No. displayed on the remote control unit by pressing its CHECK button.
- Automatic address setting can be used for an installation in which prulal indoor units are controlled from one remote control unit.
- Once they are registered, addresses are stored in microcomputers, even if power is turned off.
- If you want to change an address after automatic address setting, you can change it from the remote control unit with its "Address Change" function or by means of manual setting. Set a unique address by avoiding the address assigned to other indoor unit on the network when the address is changed.
- Do not turn on power to centralized control equipment until automatic address setting is completed.
- When addresses are set, be sure to perform a test run and ensure that you can operate all indoor and outdoor units normally. Also check the addresses assigned to the indoor units.

Address change (available only with new SL)












"Address Change" is used, **when you want to change an indoor unit address assigned with the "Automatic Address Setting" function from a remote control unit.** Accordingly, the conditions that permit an address change from a remote control unit are as follows.

	Indoor unit address setting		Outdoor unit address setting
	Indoor No.SW	Outdoor No.SW	Outdoor No.SW
Automatic address setting forsingle refrigerant system installation	000	49	49
Automatic address setting for multiple refrigerant systems installation	000	49	00~31

If "CHANGE ADD. ▼" is selected with some addresses falling outside these conditions, the following indication will appear for 3 seconds on the remote controller "INVALID OPER" .




















Operating procedure


(1) When single indoor unit is connected to the remote controller.

	Item	Operation	Display
1	Address change mode	① Press the AIR CON No. switch for 3 seconds or longer.	[CHANGE ADD.▼]
		② Each time when you press the  switch, the display indication will be switched.	[CHANGE ADD.▼] ⇔[MASTER I/U▲]
		③ Press the SET switch when the display shows "CHANGE ADD. ▼" and then start the address change mode, changing the display indication to the "Indoor Unit No. Setting" screen from the currently assigned address.	[I/U 001 O/U 01] (1sec) →[ SET I/U ADD.] (1sec) →[I/U 001 ] (Blink)
2	To set a new indoor unit No.	④ Set a new indoor unit No. with the  switch. A number indicated on the display will increase or decrease by 1 upon pressing the ▲ or ▼ switch respectively.	[I/U 000▲] ⇔[I/U 001 ] ⇔[I/U 002 ] ⇔ . . . ⇔[I/U 127▼]
		⑤ After selecting an address, press the SET switch, and then the indoor unit address No. is defined.	[I/U 002] (2sec)
3	To set a new outdoor unit No.	⑥ After showing the defined indoor address No. for 2 seconds, the display will change to the "Outdoor Address No. Setting" screen. The currently assigned address is shown as a default value.	[I/U 002] (2sec Lighting) →[ SET O/U ADD.] (1sec) →[O/U 01 ] (Blink)
		⑦ Set a new outdoor unit No. with the  switch. A number indicated on the display will increase or decrease by 1 upon pressing the ▲ or ▼ switch respectively.	[O/U 00▲] ⇔[O/U 01 ] ⇔[O/U 02 ] ⇔ . . . ⇔[O/U 31▼]
		⑧ After selecting an address, press the SET switch, and then the outdoor unit No. and the indoor unit No. are defined.	[I/U 002 O/U 02] (2sec Lighting) →[SET COMPLETE] (2sec Lighting) →Returns to normal condition.

(2) When plural indoor units are connected to the remote controller.

When plural indoor units are connected, you can change their addresses without altering their cable connection.

	Item	Operation	Display
1	Address change mode	① Press the AIR CON Unit No. switch for 3 seconds or longer.	[CHANGE ADD▼]
		② Each time when you press the  switch, the display indication will be switched.	[CHANGE ADD▼] ⇔[MASTER I/U▲]
		③ Press the SET switch when the display shows "CHANGE ADD. ▼" The lowest indoor unit No. among the indoor units connected to the remote control unit will be shown.	[ SELECT I/U] (1sec) →[I/U 001 O/U 01▲] (Blink)
2	Selecting an indoor unit to be changed address	④ Pressing the  switch will change the display indication cyclically to show the unit No.'s of the indoor units connected to the remote controller and the unit No.'s of the outdoor units connected with them.	[I/U 001 O/U 01▲] ⇔[I/U 002 O/U 01 ] ⇔[I/U 003 O/U 01 ] ⇔ . . . ⇔[I/U 016 O/U 01▼]
		⑤ Then the address No. of the indoor unit to be changed is determined and the screen switches to the display "  SET I/U ADD."	[ SET I/U ADD.] (1sec) →[I/U 001 ] (Blink)
3	Setting a new indoor unit No.	⑥ Set a new indoor unit No. with the  switch. A number indicated on the display will increase or decrease by 1 upon pressing the ▲ or ▼ switch respectively.	[I/U 000▲] ⇔[I/U 001 ] ⇔[I/U 002 ] ⇔ . . . ⇔[I/U 127▼]
		⑦ After selecting an address, press the SET switch. Then the address No. of the indoor unit is determined.	[I/U 002] (2sec)
4	Setting a new outdoor unit No.	⑧ The display will indicate the determined indoor address No. for 2 seconds and then switch to the "  SET O/U ADD." screen. A default value shown on the display is the current address.	[I/U 002] (2sec lighting) ⇔[ SET O/U ADD.] (1sec) ⇔[O/U 01 ] (Blink)
		⑨ Set a new outdoor unit No. with the  switch. A number indicated on the display will increase or decrease by 1 upon pressing the ▲ or ▼ switch respectively.	[O/U 00▲] ⇔[O/U 01 ] ⇔[O/U 02 ] ⇔ . . . ⇔[O/U 31▼]
		⑩ After selecting an address, press the SET switch. Then the address of the indoor unit and outdoor unit are determined.	[I/U 002 O/U 02] (2sec lighting) →[ SELECT] (1sec lighting) →[I/U SELECTION▼] (lighting)
		⑪ If you want to continue to change addresses, return to step ④.	[Press the  switch] (1sec) →[SET COMPLETE] (2~10sec lighting)
5	Ending the session	⑫ If you want to end the session (and reflect new address settings) In Step ⑩, press the ▼ switch to select "END ▲." If you have finished changing addresses, press the SET switch while "END ▲" is shown. While new settings are being transmitted, "SET COMPLETE" will be indicated. Then the remote controller display will change to the normal state.	[END▲] →[SET COMPLETE] (2~10sec lighting) →Normal state
		⑬ If you want to end the session (without reflecting new address settings) Before you complete the present address setting session, press the "ON/OFF" switch. Then the display is change to exit from this mode and switch the display to the normal state. All address settings changed in the session will be aborted and not reflected.	[ON/OFF] →Forced termination

The  switch will continuously change the display indication to the next one in every 0.25 seconds when it is pressed for 0.75 seconds or longer.

If the Reset switch is pressed during an operation, the display indication returns to the one that was shown before the last Set switch operation.

Even if an indoor unit No. is changed in this mode, the registered indoor unit No. before address change mode is displayed when [I/U SELECTION▼] is shown.

When "SET COMPLETE" is shown, indoor unit No.'s are registered.

NOTICE Turn on power to centralized control equipment after the addresses are determined.
Turning on power in wrong order may result in a failure to recognize addresses.

- 7 segment display indication in automatic address setting

Items that are to be set by the customer

Code	Contents of a display
P30	Communication protocol 0: Previous SL mode 1: New SL mode (The communication protocol is displayed ; display only)
P31	Automatic address start
P32	Input starting address Specify a starting indoor unit address in automatic address setting.
P33	Input number of connected indoor units Specify the number of indoor units connected in the refrigerant system in automatic address setting.
P34	Polarity definition 0: Network polarity not defined. 1: Network polarity defined.

7 segment display indication in automatic address setting.

Code	Contents of a display
AUX	During automatic address setting. X: The number of indoor units recognized by the outdoor unit.
AUE	Indoor unit address setting is completed normally.
End	Polarity is defined. (Automatic address) Completed normally.

Address setting failure indication

Code	Contents of a display	Please check
A00	Unable to find any indoor unit that can be actually communicated with.	Are signal lines connected properly without any loose connections? Is power for indoor units all turned on?
A01	The number of the indoor units that can be actually communicated with is less than the number specified in P33 on the 7 segment display panel.	Are signal lines connected properly without any loose connections? Input the number of connected indoor units again.
A02	The number of the indoor units that can be actually communicated with is more than the number specified in P33 on the 7 segment display panel.	Are signal lines connected properly without any loose connections? Are the network connectors coupled properly? Input the number of connected indoor units again.
A03	Starting address (P32) + Number of connected indoor units (P33) > 128	Input the starting address again. Input the number of connected indoor units again.
A04	While some units are operating in the previous SL mode on the network, the automatic address setting on multiple refrigerant systems is attempted.	Perform manual address setting. Separate previous SL setting unit from the network Arrange all units to operate in the new SL.

Error indication

Code	Contents of a display	Cause
E2	Duplicating indoor unit address.	• Incorrect manual address setting
E3	Incorrect pairing of indoor-outdoor units.	• An outdoor unit number that does not exist in the network is specified • No master unit exists in combination outdoor unit.
E11	Address setting for plural remote controllers.	• Indoor unit address is set from plural remote controllers.
E12	Incorrect address setting of indoor units.	• Automatic address setting and manual address setting are mixed.
E31	Duplicating outdoor unit address.	• Plural outdoor units are exist as same address in same network.
E46	Incorrect setting.	• Automatic address setting and manual address setting are mixed.

7-2. Selection of controls

Controls of outdoor unit may be selected as follows using the dip switches on the PCB and COO, POO on the 7-segment.

To change COO, POO on the 7-segment, hold down SW8 (7-segment display increment up: 1-digit), SW9 (7-segment increment up: 10-digit) and SW7 (Data write/Enter).

Unit set※1	Control selecting method		Content of control
	SW setting on PCB	COO, POO on 7-segment	
Master	SW3-2 to ON	—	Automatic back up operation
Master	SW3-7 to ON *2	Set external input function allocation to "2" *2	Forced cooling mode (It can be fixed at cooling with external input terminals opened, or at heating with them closed.)
Master	SW5-1 to ON + SW5-2 to ON	—	Cooling test run
Master	SW5-1 to ON + SW5-2 to OFF	—	Heating test run
Master	Close the fluid operation valve on outdoor unit and set as follows: (1) SW5-2 on PCB to ON (2) SW5-3 on PCB to ON (3) SW5-1 on PCB to ON	—	Pump down operation
Master	SW4-5:OFF, SW4-6:OFF*2 80% (Factory default) SW4-5:ON, SW4-6:OFF*2 60% SW4-5:OFF, SW4-6:ON*2 40% SW4-5:ON, SW4-6:ON*2 00%	Set allocation of external input allocation to "1" *2	Inputting signals to external input terminals selects the demand mode. (J13 short-circuited: Level input, J13 open: Pulse input)
Master	SW5-5	—	Communication method selection ON: Previous SL communication, OFF: New SL communication
Master/slave	SW6-3 to ON	—	High static pressure mode
Master	J13: Closed (Factory default), J13: Opened	—	External input selection (CnS1, CnS2 only) Closed: Level input, Opened: Pulse input
Master/slave	J14: Closed (Factory default), J14: Opened	—	Defrosting mode is switched. (will enter defrosting mode more frequently)
Master/slave	J15: Closed (Factory default), J15: Opened	—	Defrost selection Closed: Normal defrosting, Opened: Forced defrosting
Master	—	C70	Operation priority selection 0: First push priority (at shipping) 1: Last push priority
Master/slave	—	C75	Outdoor unit fan snow protection control 0: Control disabled (at shipping) 1: Control enabled
	—	P11	Allocation of external input (CnS1)
	—	P12	Allocation of external input (CnS2)
	—	P13	Allocation of external input (CnG1)
	—	P14	Allocation of external input (CnG2)
Master/slave	—	P16	Outdoor unit fan snow protection control ON time setting - 30 sec (at shipping) 10, 30-600 sec

※1 "Unit set" shown in the above table refers to the master/slave setting of units comprising a combined installation.

Master: control mode setting required for the master unit only (setting not required with the slave unit).

Master/slave: control mode setting required for both master and slave units.

※2 Control is switched when both the allocation of external input function (P11~14) and SW are changed.

(Example: To use CnS1 for the input of forced cooling mode, set P11 at 2 and SW3-7 at ON. To use CnS2 for the input of forced cooling mode, set P12 at 2 and SW3-7 at ON.)

By changing the allocation of external input functions (P11~14) on the 7-segment, functions of external input terminals may be selected. Inputting signals to external input terminals enable the following functions.

Setting value for allocation of external input function	With external input terminals closed	With external input terminals opened
0: External operation input	Invalid	Valid
1: Demand input	Invalid	Valid
2: Cooling/heating forced input	Valid	Invalid
3: Silent mode input	Valid	Invalid
4: Spare		
5: Outdoor fan snow guard control input	Valid	Invalid
6: Test run external input 1 (equivalent to SW5-1)	Test run start	Normal
7: Test run external input 2 (equivalent to SW5-2)	Cooling	Heating
8: Silent mode 2	Valid	Invalid
9: Spare		

7-2. External input and output terminals specifications

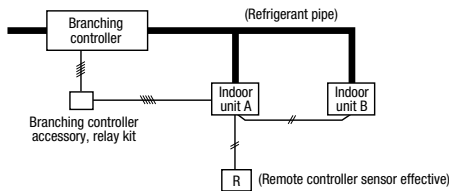
Name	Purpose (Factory default)	Specification	Operating side connector
External input CnS1	External operation input (Closed at shipping)	Non-voltage contactor (DC12V)	NICHATSU B02B-XAMK-1 (LF) (SN)
External input CnS2	Demand input (Closed at shipping)	Non-voltage contactor (DC12V)	NICHATSU B02B-XARK-1 (LF) (SN)
External input CnH1	Cooling / Heating forced input (Opened at shipping)	Non-voltage contactor (DC12V)	NICHATSU B02B-XAEK-1 (LF) (SN)
External input CnG2	Silencing mode input (Opened at shipping)	Non-voltage contactor (DC12V)	NICHATSU B02B-XASK-1 (LF) (SN)
External output CnH	Operation output	DC12V output	MOLEX 5286-02A-BU
External output CnY	Error output	DC12V output	MOLEX 5266-02A

7-4. Installation of indoor unit at the downstream of branching controller

When installing more than one indoor unit at the downstream from a branching controller, set it such a manner that all of them will be operated in the same cooling/heating mode, by either one of the following methods.

(1) Control of more than one indoor unit with one remote control unit

All indoor units can be controlled in the same ON/OFF, cooling/heating mode, set temperature, etc. with one remote controller.

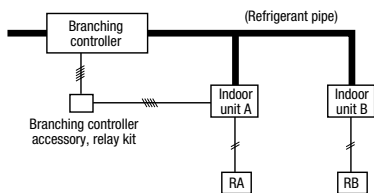


- Connect one remote controller to all indoor units at the downstream.
- Turn the remote controller sensor to ON.
- When connecting the central controller;
Implement the method of (2) Same cooling/heating control in master/slave indoor unit.
- It is prohibited to operate the unit without using the remote controller.

(2) Same cooling/heating control in master/slave indoor unit

Those other than the cooling/heating mode can be controlled individually with the remote controller which is connected to each indoor unit.

Cooling/heating mode can be set from the remote controller of the indoor unit to which the branching controller accessory relay kit is connected.



- Install one remote controller for each indoor unit at the downstream.
- Set the address of the indoor unit (= Master indoor unit: Indoor unit A), which is connected to the relay kit, for all indoor unit (= slave indoor unit: Indoor unit B) to which the branching controller accessory relay kit is not connected, by operating the remote controller as described below.
- No particular setting is required for the master indoor unit.

	Item	Operation	Display
1	Address change mode	① Press the AIR CON No. switch on the remote controller (RB) of slave indoor unit for more than 3 seconds.	[CHANGE ADD.▼]
		② Each time when you press the ◆ switch, the display indication will be switched.	[CHANGE ADD.▼] ⇔[MASTER I/U▲]
		③ Press the SET switch when "⇔[MASTER I/U▲]" is displayed. This puts it in the address mode, and the master indoor unit No. setting screen is displayed.	→[I/U 001 ◆] (Blink)
2	To set a new indoor unit No.	④ Set a new indoor unit No. with the ◆ switch. A number indicated on the display will increase or decrease by 1 upon pressing the ▲ or ▼ switch respectively.	[I/U 000▲] ⇔[I/U 001 ◆] ⇔[I/U 002 ◆] ⇔ . . . ⇔[I/U 127▼]
		⑤ After selecting an address, press the SET switch, and then the indoor unit address No. is defined.	[I/U 002] (2sec Lighting) →[SET COMPLETE] (2sec Lighting) →Returns to normal condition.

The ◆ switch will continuously change the display indication to the next one in every 0.25 seconds when it is pressed for 0.75 seconds or longer.
If the Reset switch is pressed during an operation, the display indication returns to the one that was shown before the last Set switch operation.

< Caution >

- This control is effective only when the units are stopped.
- If you press the MODE CHANGE switch on the remote controller of the indoor unit for which the master indoor unit No. has been specified with this control, a message "INVALID OPER" is displayed for 3 seconds and then it returns to the original state.
- Error code display:

Code	Cause
E11	In case when more that 2 indoor units have been connected to the remote controller for which the address has been set.
E18	When the set master indoor unit No. does not exist in the same SL network Or, when the address, which had already been set for a slave indoor unit, is set as the master indoor unit No.

8. TEST OPERATION AND TRANSFER

8-1. Before starting operation

- (1) **Make sure that a measurement between the power supply terminal block and ground, when measured with a 500V megger, is greater than 1 MΩ.**
- (2) Please check the resistance of the signaling wire terminal block before power is turned on. If a resistance measurement is 100 Ω or less, it suggests a possibility that power cables are connected to the signaling wire terminal block. (Please refer to 6-3. Standard resistance valve.)
- (3) **Be sure to turn on the crank case heater 6 hours before operation.**
- (4) **Make sure that the bottom of the compressor casing is warm.** (higher than outdoor temperature +5°C)
- (5) Be sure to fully open the operation valves (liquid, gas and Equalizer oil piping (for a combined installation only)) for the outdoor unit. Operating the outdoor unit with the valves closed may damage the compressor.
- (6) **Check that the power to all indoor units has been turned on. If not, water leakage may occur.**

CAUTION

Please make sure that the operation valves (gas, liquid, oil equalizing pipe (for a combined installation only)) are full open before a test run. Conducting a test run with any of them in a closed position can result in a compressor failure.

8-2. Check operation

It is recommended to practice the check operation in precedent to the test run.

[Even if the check operation is not practiced, the test run and normal operations can be performed.]

For further details regarding the check operation refer to the technical data.

Important

- Practice the check operation after completing the address setting for the indoor and outdoor units and also after charging the refrigerant.
- To assure accurate checking, proper amount of refrigerant must be retained.
- Check operation cannot be done when the system is stopped by an error.
- Check operation cannot be done when the total capacity of connected indoor units is less than 80% of the outdoor unit capacity.
- Check operation cannot be done when the system communication method is previous SL.
- Don't perform the check operation simultaneously on more than one refrigerant line. Accurate checking cannot be obtained.
- Practice the check operation within the operation temperature ranges (Outdoor temperature: 0 – 43°C, room temperature: 10 – 32°C). Check operation will not start out of these ranges.
- Outdoor air processing unit cannot be checked. (It is possible to check indoor units other than the outdoor air processing unit of the same refrigerant line.)

(1) Check items

Check operation allows proving the following points.

- Whether or not the operation valve is left open (Operation valve open/close check). (In case of combination, however, all operation valves need to be closed on master and slave units to obtain accurate judgment.)
- Whether or not the refrigerant pipes and signal cables are connected properly between indoor and outdoor units. (Mismatch check)
- Whether or not the indoor expansion valve operates properly. (Expansion valve failure check)

(2) Method of check operation

(a) Starting the check operation

- Confirm that all of the following switches are turned OFF: SW3-2 (Auto backup operation), SW3-6 (Pipe wash mode), SW3-7 (Forced cooling/heating mode), SW5-1 (Test run), SW5-2 (Test run cooling setting), SW5-3 (Pump-down operation) and SW5-6, -7, -8 (Capacity measurement mode). (In case of combination, on both main and slave units)
- At the next, turn the SW3-5 (Check operation) OFF → ON (only on master unit in case of combination) so that the check operation will start.
- It takes 15 – 30 minutes normally (max. 80 min) from the start to the end of check operation.

(b) End the check operation and the result display

- When the check operation is over, the system stops automatically. The 7-segment indicator shows the result (only on master unit in case of combination).

<Normal ending>

- 7-segment indicator shows "CHO End".
- Return the SW3-5 to OFF. The 7-segment indicator returns to normal display.

<Abnormal ending>

- 7-segment indicator shows an error alarm.
- Referring to the section [Inspect here], repair the faulty section and return the SW3-5 to OFF.
- At the next, repeat the check operation from the Step (2) above.

Display on 7-segment indicator during check operation

Code indicato	Data indicator	Display contents
H1	Max. remaining time	Check operation preparation on. Indicates max. remaining time (min). (In case of combination, indicated on master unit only.)
H2	Max. remaining time	Check operation on. Indicates max. remaining time (min). (In case of combination, indicated on master unit only.)
HO	---	Check operation on. (Including preparation operation on). (Indicated only on slave unit of combination.)
CHO	End	Normal ending of check operation. (In case of combination, indicated on master unit only.)

Error display on 7-segment indicator after ending the check operation

Code indicato	Data indicator	Display contents	Check following points
CHL	---	Operation valve is closed. (Refrigerant circuit is shut off partially.)	<ul style="list-style-type: none"> Isn't the operation valve of outdoor unit left open? Is the low pressure sensor normal? (Detected pressure can be seen on the 7-segment indicator.) Is the connector of indoor unit expansion valve coil connected? Isn't the indoor unit expansion valve coil disconnected from the expansion valve body? Is the indoor unit heat exchanger sensor normal? (Check if the sensor is disconnected.)
CHU	Abnormal indoor unit No.	Mismatch between refrigerant pipes and signal cables. Refrigerant is not circulated to the indoor unit of which No. is displayed.	<ul style="list-style-type: none"> Are the refrigerant pipes and signal cables connected properly between the indoor and outdoor units? Is the connector of indoor unit expansion valve coil connected? Isn't the indoor unit expansion valve coil disconnected from the expansion valve body? Is the indoor unit heat exchanger sensor normal? (Check if the sensor is disconnected.)
CHJ	Abnormal indoor unit No.	Expansion valve on the indoor unit of which No. is displayed is not operating properly.	<ul style="list-style-type: none"> Is the connector of indoor unit expansion valve coil connected? Isn't the indoor unit expansion valve coil disconnected from the expansion valve body? Is the indoor unit heat exchanger sensor normal? (Check if the sensor is disconnected.)
CHE	---	Abnormal ending of check operation.	<ul style="list-style-type: none"> Isn't any error displayed (E??) on the indoor unit or outdoor unit? Are signal cables connected without play? Hasn't the SW setting been changed during the check operation?
CHE	Abnormal indoor unit No.	Abnormal ending of check operation. Indoor unit of which No. is displayed is abnormal.	<ul style="list-style-type: none"> Isn't any error displayed (E??) on the indoor unit or outdoor unit? Are signal cables connected without play? Is the power supply to the indoor unit turned on?

※ When any error is detected, errors other than those listed above may be displayed. In such occasion, refer to the separate technical data.

8-3. Test operation

(1) Test run from an outdoor unit.

Whether external inputs are set to ON or OFF, you can start a test run by using the SW5-1 and SW5-2 switches provided on the outdoor unit board.

Select the test run mode first.

Please set SW5-2 to ON for a cooling test run or OFF for a heating test run. (It is set to OFF at the factory for shipment)

Turning SW5-1 from OFF to ON next will cause all connected indoor units to start.

When a test run is completed, please set SW5-1 to OFF.

Note: During a test run, an indoor unit cannot be operated from the remote control unit (to change settings). ("Under centralized control" is indicated)

(2) Method of starting a test run for a cooling operation from an outdoor unit: please operate a remote control unit according to the following steps.

(a) Start of a cooling test run

○ Operate the unit by pressing the **START/STOP** button.

○ Select the "COOLING" mode with the **MODE** button.

○ Press the **TEST RUN** button for 3 seconds or longer.

The screen display will be switched from "Select with ITEM" → "Determine with **SET**" → "Cooling test run".

○ When the **SET** button is pressed while "Cooling test run" is displayed, a cooling test run will start. The screen display will be switched to "COOLING TEST RUN."

(b) Termination of a cooling test run

○ When the **START/STOP** button or the "TEMP SET ☒ ☐ button is pressed, a cooling test run will be terminated.

Notes : for engineers undertaking piping or electrical installation work

When a test run is completed, please make sure again that the electrical component box cover and the main body panel have been attached before you turn the unit over to the customer.

8-4. TRANSFER

○ Use the instruction manual that came with the outdoor unit to explain the operation method to the customer.

Please ask the customer to keep this installation manual together with the operation manual of his indoor units.

○ Instruct the customer that the power should not be turned off even if the unit is not to be used for a long time. This will enable operation of the air conditioner any time. (Since the compressor bottom is warmed by the crank case heater, seasonal compressor trouble can be prevented.)

9. CAUTIONS FOR SERVICING (for R410A and compatible machines)

(1) To avoid mixing of different types of oil, use separate tools for each type of refrigerant.

(2) To avoid moisture from being absorbed by the ice machine oil, the time for when the refrigerant circuit is open should be kept as short as possible. (Within 10 min. is ideal.)

(3) For other piping work, airtightness testing, vacuuming, and refrigerant charging, refer to section 3, Refrigerant piping.

(4) Diagnostic Inspection Procedures

For the meanings of failure diagnosis messages, please refer to the nameplate provided on the unit (on the back of the controller lid)

(5) 7-segment LED indication

Data are indicated when so chosen with the indication selector switch. For the details of indication, please refer to the cable name plate attached on the unit. (On the face of the controller lid)

Backup operation function is only for emergency purpose when one of compressors or one of units is damaged. If backup operation is performed continuously for long period, it may cause the damage of good compressors. Accordingly be sure to repair the damaged unit or to replace the damaged compressor and to cancel the backup operation within 48 hours after starting backup operation.

7.5 Instructions for installing the branch pipe set

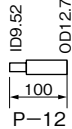
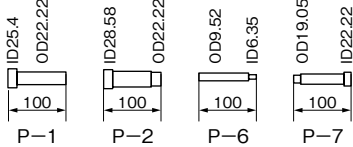
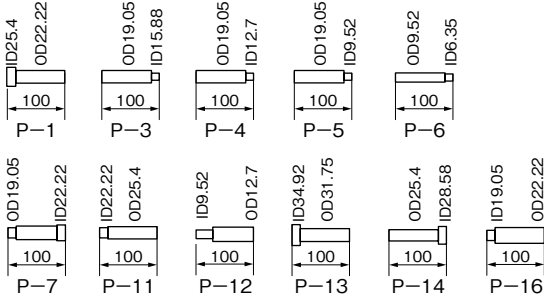
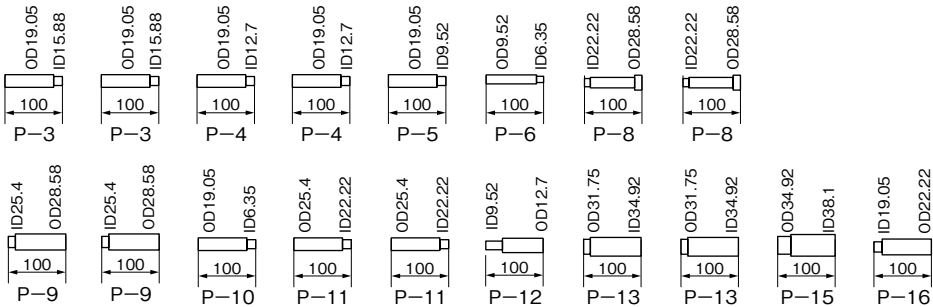
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FOR COOLING/HEATING FREE MULTI AIR CONDITIONER

PARTS LIST

Branching pipe set type	Suction gas side	Discharge gas side	liquid side
DIS-22-1-R			
DIS-180-1-R			
DIS-371-2-R			
DIS-540-2-R			
DOS-2A-1-R			

- ◎ This manual describes the specifications of branching pipe set installation. For outdoor unit installation and indoor unit installation, please refer to the respective installation manuals supplied with your outdoor unit and indoor unit.
- ◎ Before you set about installation work, please read this manual carefully so that you can carry out installation work according to the instructions contained herein.
- Please read the safety instructions contained in the installation manual supplied with your outdoor unit carefully and carry out installation work unerringly.
- When installation work is completed, conduct a test run to check the installation for any anomaly. Please also give the customer necessary instructions as to the operation and maintenance of the unit pursuant to the instruction manual (supplied with the indoor unit).
- Please ask the customer to keep the installation manual on the customer's part together with the instruction manual.

Branching pipe set type	Different diameter pipe joint
DIS-22-1-R	
DIS-180-1-R	
DIS-371-2-R	
DIS-540-2-R	
DOS-2A-1-R	None

INSTALLATION PROCEDURE

1. Please select an appropriate branching pipe set model and a pipe size by consulting with the installation manual of the indoor unit or other relevant technical documents.

Attention

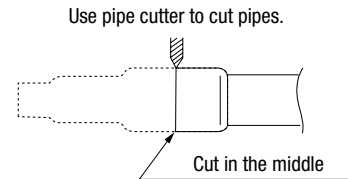
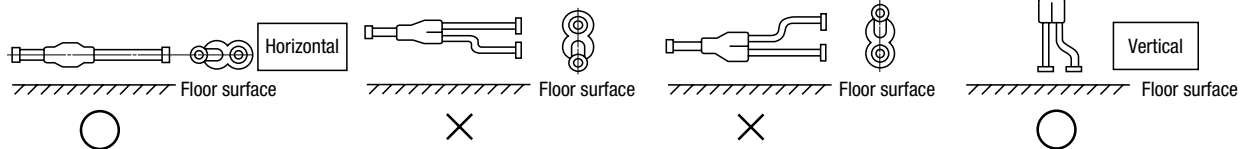
- ① When connecting an indoor unit to the branching pipe located most downstream via a branching controller, keep the pipe size specified for the indoor unit all the way up to the branching pipe. Match the pipe size to the indoor unit capacity for the section of discharge gas piping connecting the branching pipe with the branching controller.
- ② Use a pipe conforming to a pipe size specified for indoor unit connection for the section between an indoor unit and a branching pipe.
- ③ Use a pipe conforming to a pipe size specified for outdoor unit connection for the section between an outdoor branching pipe and an outdoor unit.

2. Cut a branching pipe set or a different diameter joint with a pipe cutter to make it fit for a selected pipe size before application.

Attention

- ① In cutting pipes, always use a pipe cutter. Remove burrs from a cut end when you cut a pipe. In doing so, keep a cut end downward so that no chips or burrs may enter the pipe.
- ② Take utmost care so that no foreign matter such as dust or water may enter piping during installation work.
 - Please cover all the open ends of piping until installation work is completed. Particularly, any openings in the section of piping laid outdoors should be sealed stringently.
 - As long as possible, avoid open ends left facing upward. Make them face either horizontally or downward.
- ③ A branching joint (for suction gas, discharge gas and liquid) must always be positioned in such a way that it branches either horizontally or vertically.

• In the case of a branching pipe set (model type DIS)

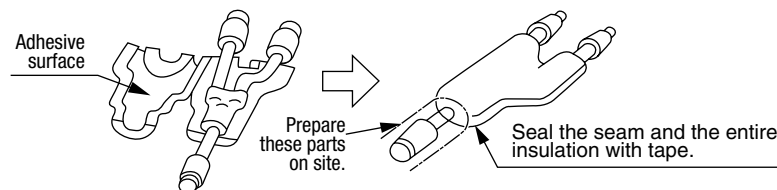


- ④ Always apply nitrogen gas when soldering joints. If nitrogen gas is not applied, a large amount of film oxide will be formed which could lead to a critical failure in the unit. Use caution to prevent moisture or any foreign matters from entering the pipe when connecting pipe ends. For the method of air tightness testing and pulling air, please refer to the installation manual of the outdoor unit.
- ⑤ Do not leave piping with any open ends uncovered to prevent water or foreign matters from entering inside.

3. Please dress it with an attached insulation sheet for heat insulation. (Heat-insulate suction gas, discharge gas and liquid pipes)

Attention

- ① Apply an attached insulation sheet along a pipe, tape the joining line with a joint tape (to be procured on the installer's part) for complete sealing, and wrap the pipe and insulation sheet entirely with a tape.
- ② Dress suction gas, discharge gas and liquid pipes with attached insulation sheets for heat insulation.
- ③ Ensure that the liquid pipe is given the heat insulation as good as that of the gas pipe. The absence of heat insulation can cause dripping water from dew condensing on the pipe or performance degradation.



4. How to select a branching pipe

How to select a branching pipe set

- An appropriate branching pipe size varies depending on the capacity of connected indoor units (combined total capacity connected downstream), so please choose from the table below. Applicable branching pipe set models differ depending on whether the installation point is located in the upstream or downstream of a branching controller, so please select the correct one according to the following instructions.

(1) In the upstream of a branching controller

Total capacity downstream	Branching pipe set model type
less than 180	DIS-22-1-R
180 or higher – less than 371	DIS-180-1-R
371 or higher – less than 540	DIS-371-2-R
540 or more	DIS-540-2-R

(2) In the downstream of a branching controller

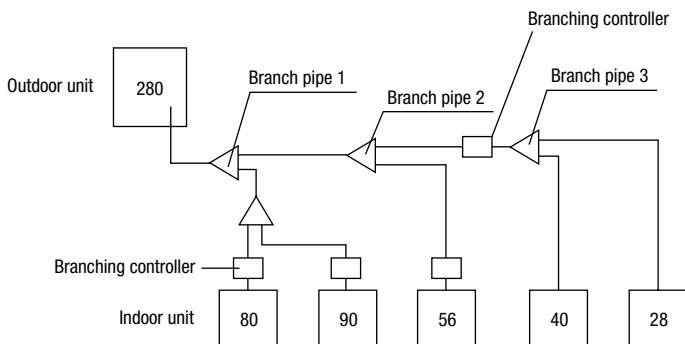
Total capacity downstream	Branching pipe set model type
less than 180	DIS-22-1
180 or higher – less than 371	DIS-180-1
371 or higher – less than 540	DIS-371-1
540 or more	DIS 540-1 or DIS-540-2

Attention

- ① When connecting an indoor unit to the branching pipe located most downstream via a branching controller, keep the pipe size specified for the indoor unit all the way up to the branching pipe. Match the pipe size to the indoor unit capacity for the section of discharge gas piping connecting the branching pipe with the branching controller.
- ② Use a pipe conforming to a pipe size specified for indoor unit connection for the section between an indoor unit and an indoor unit side branching pipe.
- ③ A branching joint (for suction gas, discharge gas and liquid) must always be positioned in such a way that it branches either horizontally or vertically.

5. Example of piping

Connected capacity:294



Selection of a branching pipe set

Mark	Selection procedure	Branching pipe set
Branch pipe 1	Combined total capacity of indoor units connected downstream $(80+90+56+40+28)=294$	DIS-180-1-R
Branch pipe 2	Combined total capacity of indoor units connected downstream $(56+40+28)=124$	DIS-22-1-R
Branch pipe 3	Combined total capacity of indoor units connected downstream $(40+28)=68$	DIS-22-1

7.6 Branching controller installation guide for cooling/heating free multi installations

Indoor units are the same with those of Inverter Multi specifications.

Please lay refrigerant piping, electrical cables (including signal wires) and operate units according to this installation guide, indoor and outdoor unit installation manuals.

Precautions for safety

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, **⚠ WARNING** and **⚠ CAUTION**.
⚠ WARNING: Wrong installation would cause serious consequences such as injuries or death.
⚠ CAUTION: Wrong installation might cause serious consequences depending on circumstances.
 Both mentions the important items to protect your health and safety so strictly follow them by any means.
- After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit.
 Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

⚠ WARNING	⚠ CAUTION
<ul style="list-style-type: none"> ● Installation should be performed by the specialist. If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit.  ● Install the system correctly according to these installation manuals. Improper installation may cause explosion, injury, water leakage, electric shock, and fire.  ● Consider measurement not to exceed the limit of the density of refrigerant in the event of leakage especially when it is installed in a small room. Consult the specialist about the measure. If the density of refrigerant exceeds the limit in the event of the leakage, serious accidents may occur due to lack of oxygen.  ● Use the genuine accessories and the specified parts for installation. If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit.  ● Ventilate the working area well in case the refrigerant leaks during installation. If the refrigerant contacts the fire, toxic gas is produced.  ● Install the unit in a location that can hold heavy weight. Improper installation may cause the unit to fall leading to accidents.  ● Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes. Improper installation may cause the unit to fall leading to accidents.  ● Do not mix air in to the cooling cycle on installation or removal of the air conditioner. If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuries.  ● Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient capacity and improper work can cause electric shock and fire.  ● Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal. Loose connections or hold could result in abnormal heat generation or fire.  ● Check for refrigerant gas leakage after installation is completed. If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produced.  ● Use the specified pipe, flare nut, and tools for R410A. Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle.  ● Tighten the flare nut according to the specified method by with torque wrench. If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long period.  ● Connect the pipes for refrigeration circuit securely in installation work before compressor is operated. If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system.  ● Stop the compressor before removing the pipe on pump down work. If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.  ● Use the genuine optional parts. And installation should be performed by a specialist. If you install the unit by yourself, it could cause water leakage, electric shock and fire.  ● Do not repair by yourself. And consult with the dealer about repair. Improper repair may cause water leakage, electric shock or fire.  ● Consult the dealer or a specialist about removal of the air conditioner. Improper installation may cause water leakage, electric shock or fire.  ● Turn off the power source during servicing or inspection work. If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan.  ● Do not run the unit when the panel or protection guard are taken off. Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get burned, or electric shock. ● Shut off the power before electrical wiring work. It could cause electric shock, unit failure and improper running. 	<ul style="list-style-type: none"> ● Perform earth wiring surely. Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock due to a short circuit. Never connect the grounding wire to a gas pipe because if gas leaks, it could cause explosion or ignition.  ● Do not install the indoor unit near the location where there is possibility of flammable gas leakages. If the gas leaks and gathers around the unit, it could cause fire.  ● Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.  ● Do not use the indoor unit at the place where water splashes such as laundry. Indoor unit is not waterproof. It could cause electric shock and fire.  ● Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art. It could cause the damage of the items.  ● Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics. Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air conditioner and cause a malfunction breakdown. Or the air conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming.  ● Do not install the indoor unit at the place listed below. <ul style="list-style-type: none"> · Places where flammable gas could leak. · Places where carbon fiber, metal powder or any powder is floated. · Place where the substances which affect the air conditioner are generated such as sulfide gas, chloride gas, acid or alkali. · Places exposed to oil mist or steam directly. · On vehicles and ships · Places where machinery which generates high harmonics is used. · Places where cosmetics or special sprays are frequently used. · Highly salted area such as beach. · Heavy snow area · Places where the system is affected by smoke from a chimney. · Altitude over 1000m  ● Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use. It could cause the unit falling down and injury.  ● Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit. If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaging, keep the indoor unit packed or cover the indoor unit.  ● Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. Incomplete insulation could cause condensation and it would wet ceiling, floor, and any other valuables.  ● Pay extra attention, carrying the unit by hand. Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the unit by hand. Use protective gloves in order to avoid injury by the aluminum fin.  ● Make sure to dispose of the packaging material. Leaving the materials may cause injury as metals like nail and woods are used in the package.  ● Do not touch the refrigerant piping with bare hands when in operation. The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frostbite.  ● Do not clean up the air conditioner with water. It could cause electric shock.  ● Do not turn off the power source immediately after stopping the operation. Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdown. 

(a) Branching controller

PCB012D025

1. BEFORE BEGINNING INSTALLATION

- ① Limitation on the number of branching controllers which can be connected to a outdoor unit is as follows.

Outdoor unit	Minimum number of units to be able to connect
~280	2 units
~560	4 units
~850	6 units
~1130	8 units
~1360	10 units

※For PFD112X4-E model, calculate the number of units taking 1 branching controller as 4 controllers in this limit.

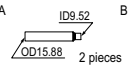
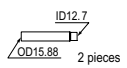




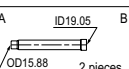
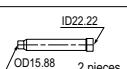
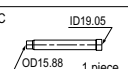
- ② The combined total capacity and the number of indoor units connected in the downstream of a branching controller are subject to restrictions depicted in the table below.

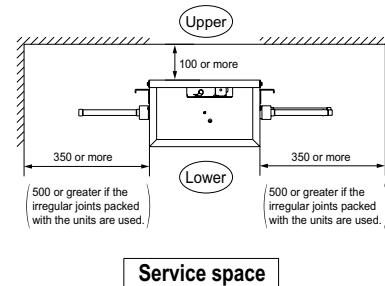
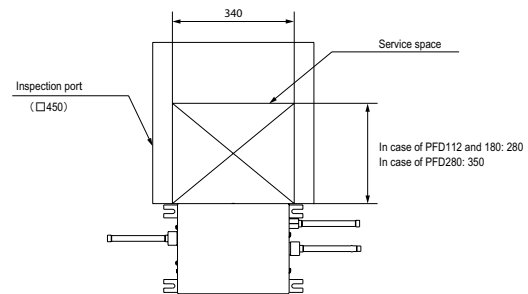
Branching controller model type	Total capacity downstream	Number of connectable units
PFD1123-E	Less than 112	1~5
PFD1803-E	112 or more but less than 180	1~8
PFD2803-E	180 or more but 280 or less	1~10

※When installing more than one indoor unit at the downstream from a branching controller, set it such a manner that all of them will be operated in the same cooling/heating mode, by either one of the following methods.

- Control of more than one indoor unit with one remote control unit ○ Same cooling/heating control in master/slave indoor unit (Refer to the installation manual of outdoor unit.)

- ③ Make sure that no accessory is missing.

Branching controller model type	Different diameter pipe joint				Heat insulation material	Relay kit
	For outdoor unit gas suction pipe	For indoor unit gas pipe	For outdoor unit gas discharge pipe			
PFD112	A  2 pieces	B  2 pieces	C  1 piece	D  1 piece	 3 pieces	
PFD180	None	None	None			
PFD280	A  2 pieces	B  2 pieces	C  1 piece			



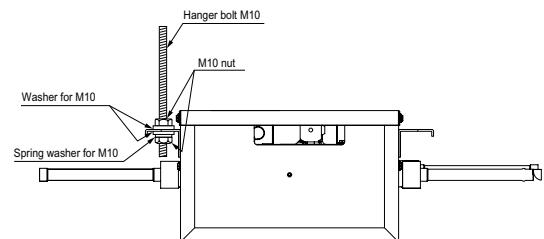
2. INSTALLATION OF A BRANCHING CONTROLLER

Selecting the installation location

- A branching controller sometimes generates noises during control operations whether the system is in operation or stands still. When it is installed in a place with a low background noise level, please take appropriate precautions such as installing it away from the indoor unit.
- The position where you can install refrigerant pipes within the specified restrictions on length.
- The position where you can install hanger bolts and secure a required level of strength. (The position where pulling force of 20 kg per bolt is endured)
- The position where a service space conforming to the requirements shown in the drawing on the right can be secured.

PLEASE NOTE

- (1) Do not fail to provide an inspection port at the specified position.
- (2) In fastening on the hanger bolts, use a bracket and fasten at the four points as illustrated in the drawing on the right.
- (3) A branching controller cannot be installed upside down. Please install it in such a manner that the main body remains level.



3. REFRIGERANT PIPING

- A branching controller has on its main body beneath the connection ports such indications as "S.G (OUT)," "D.G (OUT)" and "G (IN)" provided for the outdoor unit gas suction pipe, the outdoor unit gas discharge pipe and indoor unit gas pipes respectively, so please make sure that you connect correct pipes to correct ports.
- No liquid pipe needs to be connected to a branching controller.
- A unit must not be operated or left for a long time without completing the connection of individual branching controllers and indoor units.
- Pipes are to be brazed to connect to a branching controller.
- When brazing work, perform it while cool down around the brazing port with wet towels to prevent the overheating.
- After check the gas leak test, install the heat insulation (prepare on site) to the brazing port of the indoor unit.

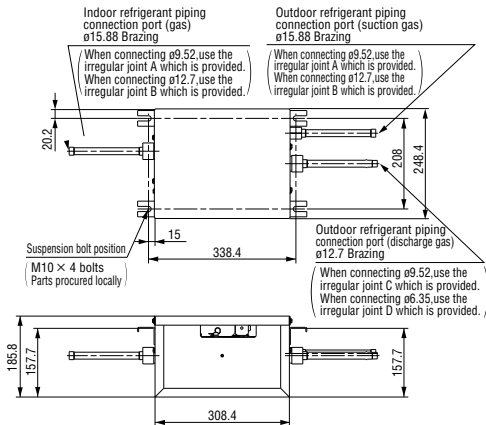
① Pipe connection.

When the diameter of the pipe on a branching controller is different from that of the connection pipe, use a different-diameter pipe joint supplied as an accessory.

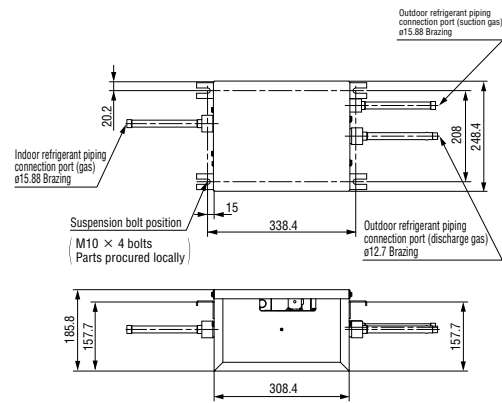
① Pipe connection.

When the diameter of the pipe on a branching controller is different from that of the connection pipe, use a different-diameter pipe joint supplied as an accessory.

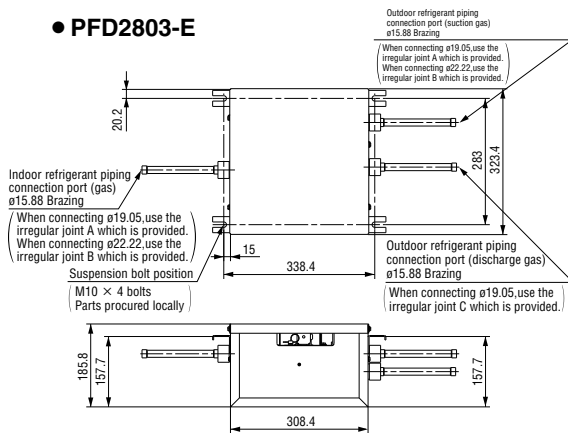
● PFD1123-E



● PFD1803-E

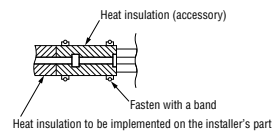


● PFD2803-E



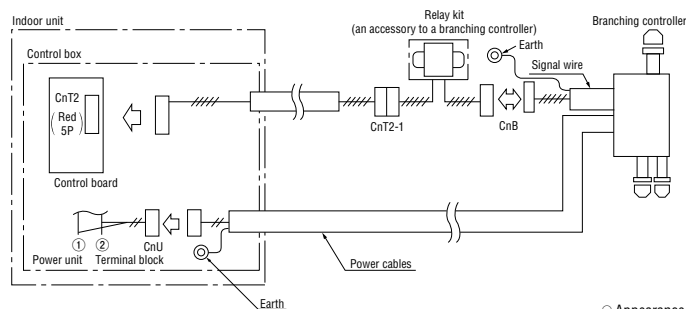
② Heat insulation of pipes

Do not fail to dress with a pipe cover supplied as an accessory for heat insulation.



4. ELECTRICAL WIRING WORK

Please implement cabling according to the instructions contained in the drawing below.



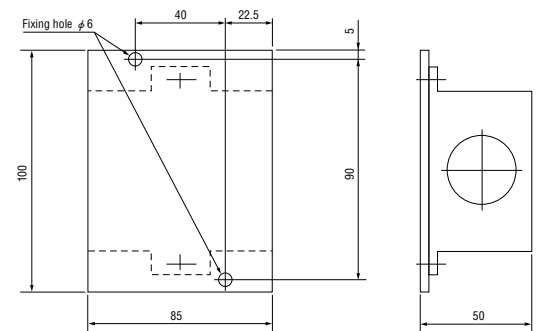
PLEASE NOTE

- Do not extend the signal wire between an indoor unit and a relay kit beyond a 2 m cable supplied as an accessory.
- When you have to extend the signal wire between a relay kit and a branching controller, use the following cables. Please take heed of cable colors so that cables may maintain the consistent color scheme.

Signal wire	2.0/2.0 (mm ²) \times 5 (pieces)
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- Please connect the earth wire from a branching controller to an indoor unit and relay kit.
- Please fix a relay kit with 2 screws (to be procured on the installer's part) on the back of the ceiling or a wall in the proximity of an indoor unit.
- When installation work is completed, please check the above-mentioned points for any connection errors.

○ Appearance drawing of a relay kit



(b) Integrated branching controller

PCB012D026

1. BEFORE BEGINNING INSTALLATION

- ① Limitation on the number of branching controllers which can be connected to a outdoor unit is as follows.

Outdoor unit	Minimum number of units to be able to connect
~280	2 units
~560	4 units
~850	6 units
~1130	8 units
~1360	10 units

※For PFD112X4-E model, calculate the number of units taking 1 branching controller as 4 controllers in this limit.

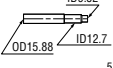
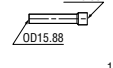
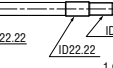
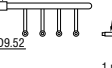




- ② Indoor units "should not be connected" to a branching controller, when they exceed a range specified for either combined total capacity or number in the table below.

Branching controller model	Total of four branches		Per branch	
	Capacity restrictions	Maximum number of units connectable	Capacity restrictions	Maximum number of units connectable
PFD1123X4-E	Less than 371	16 units	Less than 112	5 units (In this case, Five indoor units can only be operated in a mode.)

※When installing more than one indoor unit at the downstream from a branching controller, set it such a manner that all of them will be operated in the same cooling/heating mode, by either one of the following methods.

- Control of more than one indoor unit with one remote control unit ○ Same cooling/heating control in master/slave indoor unit (Refer to the installation manual of outdoor unit.)

- ③ Make sure that no accessory is missing.

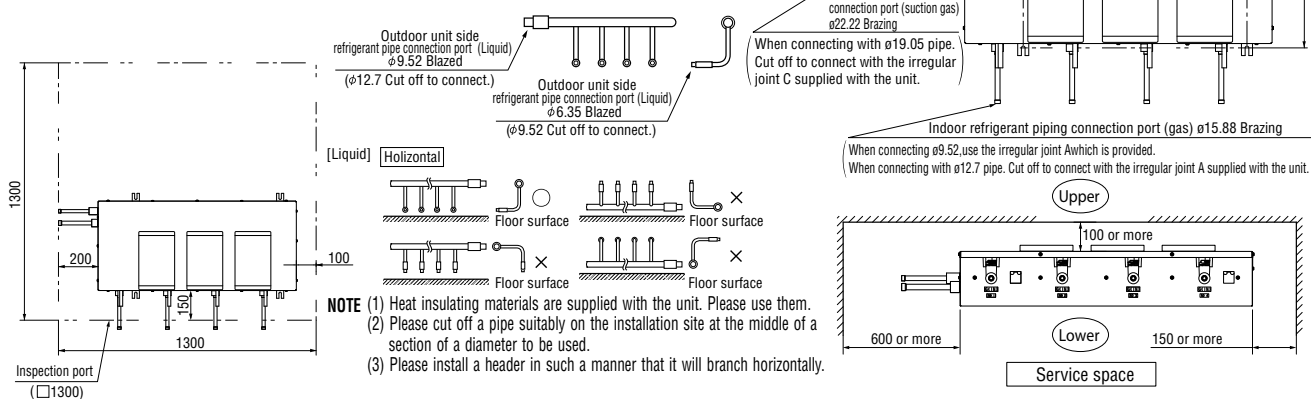
Different diameter pipe joint			Liquid side header	Heat insulation material		TY-RAP band	Relay kit
For outdoor unit suction gas piping	For outdoor unit discharge gas piping	For outdoor unit suction gas piping		Pipe cover	For liquid side header		
A 	B 	C 					

2. INSTALLATION OF A BRANCHING CONTROLLER

- ① Selecting the installation location

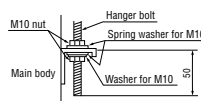
- A branching controller sometimes generates noises during control operations whether the system is in operation or stands still. When it is installed in a place with a low background noise level, please take appropriate precautions such as installing it away from the indoor unit.
- The position where you can install refrigerant pipes within the specified restrictions on length.
- The position where you can install hanger bolts and secure a required level of strength. (The position where pulling force of 20 kg per bolt is endured)
- The position where a service space conforming to the requirements shown in the drawing on the right can be secured.

PLEASE NOTE (1) Do not fail to provide an inspection port at the specified position.
(2) A branching controller cannot be installed upside down. Please install it in such a manner that the main body is held levelly.



- ② The positions of hanger bolts.

Use four M10 bolts for the hanging bolts. (to be procured from a local supplier)
Please fasten securely as illustrated in the drawing below.



When you install the main body, but you cannot position it properly to the opening of the ceiling, please adjust the position by moving it along a fixing metal's oblong hole.

- ③ Cautions when carrying a unit.

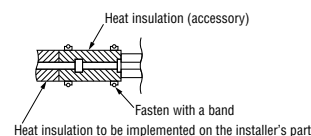
- In carrying the unit, please hold it by the hooks. Holding pipes can result in pipe deformation and a unit failure.
- Do not put your hand in the notch area for fear that you should get hurt.
- Since the unit is heavy (30kg), take care in handling it.

3. REFRIGERANT PIPING

- A branching controller has on its main body beneath the connection ports such indications as “S.G (OUT),” “D.G (OUT)” and “I.G (IN)” provided for the outdoor unit gas suction pipe, the outdoor unit gas discharge pipe and indoor unit gas pipes respectively, **so please make sure that you connect correct pipes to correct ports.**
- No liquid pipe needs to be connected to a branching controller.
- Pipes are to be brazed to connect to a branching controller.
- When brazing work, perform it while cool down around the brazing port with wet towels to prevent the overheating.
- After check the gas leak test, install the heat insulation (prepare on site) to the brazing port of the indoor unit.

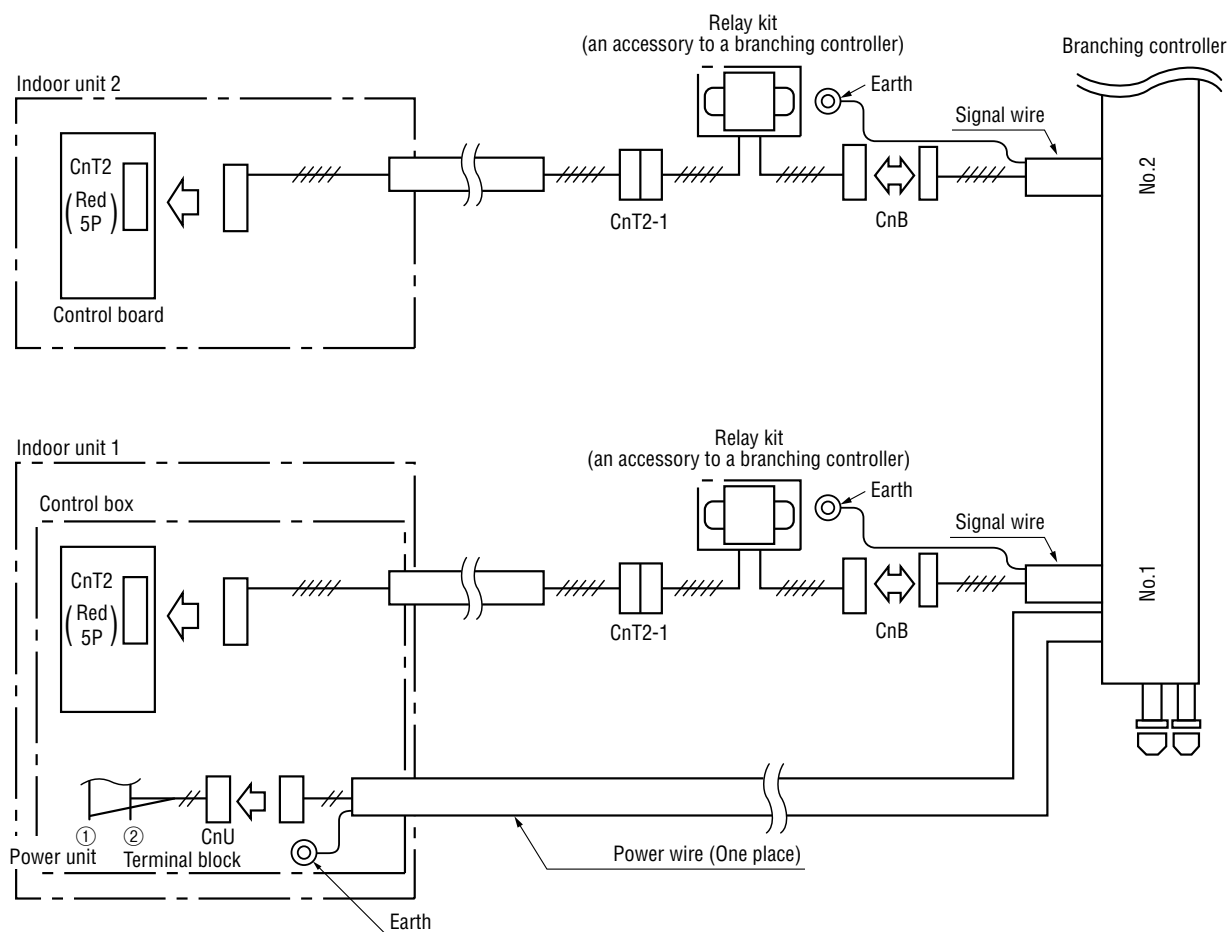
① Refrigerant pipe connection.

- Please heat-insulate a pipe connection with a pipe cover or a flange cover supplied with the unit without fail.



4. ELECTRICAL WIRING WORK

- Please implement cabling according to the instructions contained in the drawing below.



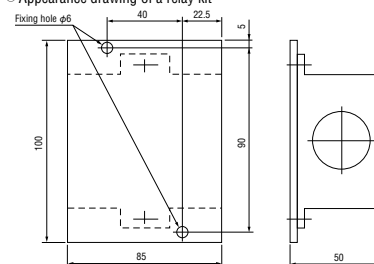
PLEASE NOTE

- (1) Please connect a signal wire from a relay kit to the connector of the same connection port number with the coolant pipe.
- (2) Please connect the power cable of a branching controller to the indoor unit's unit CnU. (at one place)
- (3) Do not extend the signal wire between an indoor unit and a relay kit beyond a 2 m cable supplied as an accessory.
- (4) To extend signal cables connecting between a relay kit and a branching controller and a power cable connecting between an indoor unit and a branching controller, please use the cables specified below. In extending these cables, make sure that the consistency of cable colors is maintained. (When you extend signal and power cables, do not forget to extend a grounding wire accordingly as well.)

Signal wire	2.0/2.0 (mm ²) × 5 (pieces)
Power wire	2.0/2.0 (mm ²) × 2 (pieces)

- (5) Please connect the earth wire from a branching controller to an indoor unit and relay kits.
- (6) Please fix a relay kit with 2 screws (to be procured on the installer's part) on the back of the ceiling or a wall in the proximity of an indoor unit.
- (7) When installation work is completed, please check the above-mentioned points for any connection errors.

○ Appearance drawing of a relay kit



8 OPTION PARTS

8.1 Wireless kit



WARNING

- Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.
Loose connection or hold will cause abnormal heat generation or fire.
- Make sure the power supply is turned off when electric wiring work.
Otherwise, electric shock, malfunction and improper running may occur.



CAUTION

- DO NOT install the wireless kit at the following places in order to avoid malfunction.

(1) Places exposed to direct sunlight	(8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight.
(2) Places near heat devices	(9) Places where the receiver is affected by infrared rays of any other communication devices
(3) High humidity places	(10) Places where some object may obstruct the communication with the remote controller
(4) Hot surface or cold surface enough to generate condensation	
(5) Places exposed to oil mist or steam directly	
(6) Uneven surface	
(7) Places affected by the direct airflow of the AC unit.	
- DO NOT leave the wireless kit without the cover.
In case the cover needs to be detached, protect the receiver with a packaging box or bag in order to keep it away from water and dust.



Note

- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air conditioner itself, refer to the installation manual enclosed in the package.

(a) FDT Series (RCN-T-36W-E)






The FDT series is an exclusive series with all wired models. However, these models can also be used wireless units by using the optional wireless kit.

(1) Wireless kit model

Model
RCN-T-36W-E

(2) Accessories

Please make sure that you have all of the following accessories.

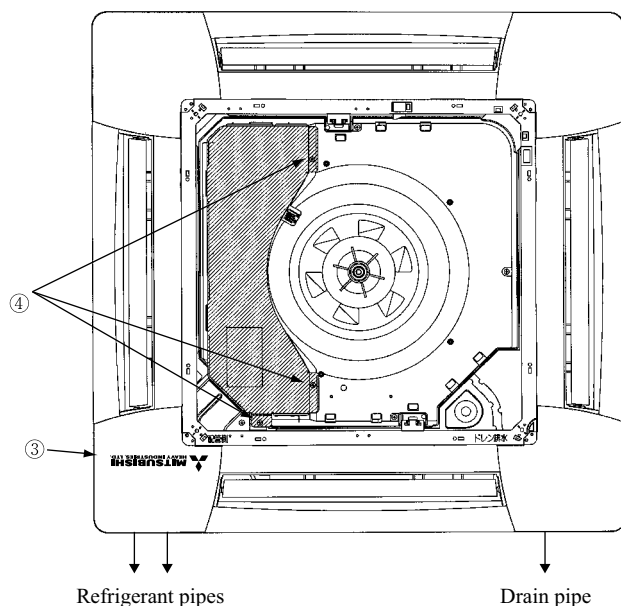
Receiver		1	Remote controller holder		1
Wireless remote controller		1	Wood screw for holder		2
Parts set		1	AAA dry cell battery (RO3)		2

(3) How to install the receiver

The receiver can be installed by replacing with a corner panel on the applicable decorative panel.

Preparation before installation

- ① Attach the decorative panel onto the air conditioner according to the installation manual for the panel.
- ② Remove the air return grille.
- ③ Remove a corner panel located on the refrigerant pipes side.
- ④ Remove three screws and detach the cover (indicated as shadowed area) from the control box of the air conditioner.



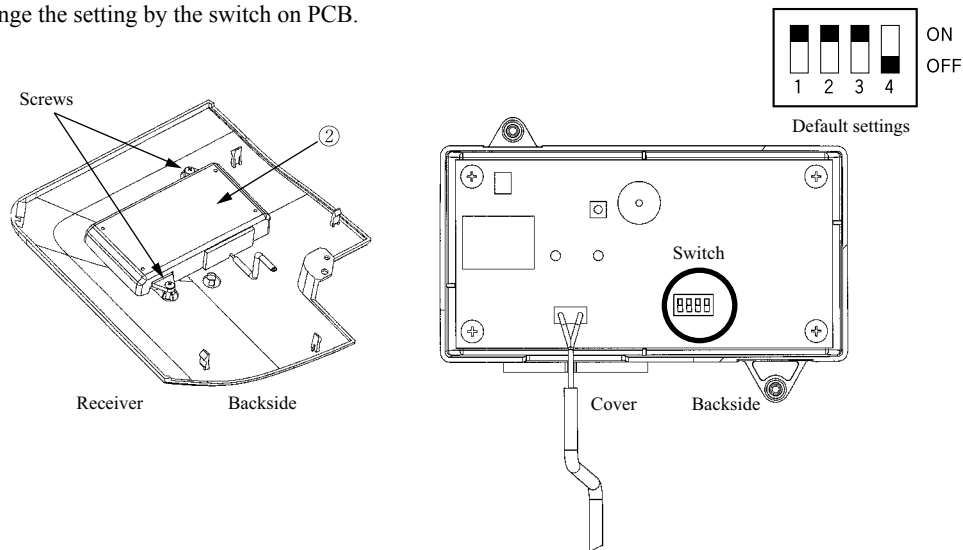
Setting on site

- ① PCB on the receiver has the following switches to set the functions. Default setting is shown with ☐ mark.

SW1	Customized signal setting to avoid mixed communication	<input type="checkbox"/> ON : Normal <input type="checkbox"/> OFF : Remote
SW2	Receiver master/slave setting	<input type="checkbox"/> ON : Master <input type="checkbox"/> OFF : Slave
SW3	Buzzer valid/Invalid	<input type="checkbox"/> ON : Valid <input type="checkbox"/> OFF : Invalid
SW4	Auto restart	<input type="checkbox"/> ON : Valid <input type="checkbox"/> OFF : Invalid

PJF012D010

- ② Remove the cover by unscrewing two screws from the back of receiver.
- ③ Change the setting by the switch on PCB.



- ④ When SW1 is turned to OFF position, change the corresponding remote controller setting as follows:

How to change the remote controller setting

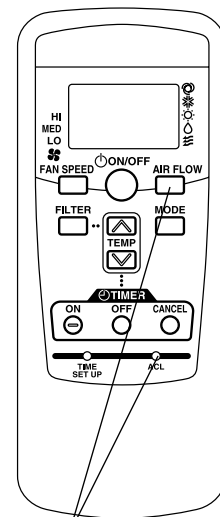
Pressing **ACL** and **AIR FLOW** button at the same time or inserting the batteries with pressing **AIR FLOW** button will customize the signal.

Note

- * When the batteries are removed, the setting will return to the default setting.
Please make sure to reset it when the batteries are replaced.

Caution

Instruct the customer to set the mentioned above when replacing the batteries.
(How to set is also mentioned in the user's manual attached on the air conditioner.)

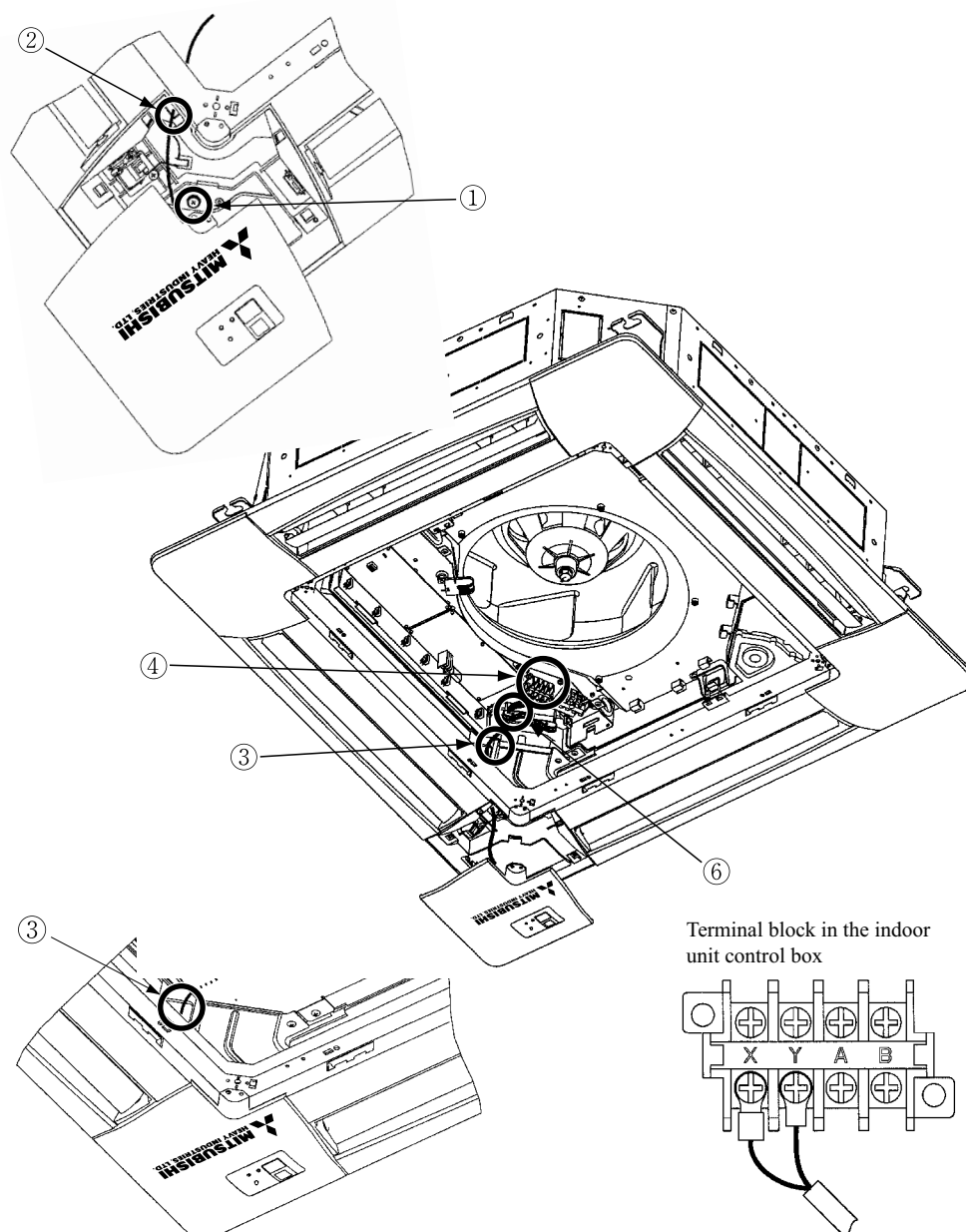


Radio interference prevention mode

Installation of the receiver

- ① Loosen the bolts which fix the panel and make a gap between the panel and the indoor unit
- ② Put the wiring of the receiver through the opening.
- ③ Put the wiring on the notch on the control box so as not to be pinched by the control box and lid as shown below.
- ④ Connect the wiring to the terminal block provided in the control box. (Non- polarized)
- ⑤ Attach the receiver to the panel according to the panel installation manual.
- ⑥ Fix the wiring with the clamp so that the wiring do not contact the edge of control box's metal sheet.
- ⑦ Reattach the control box lid with 3 screws removed.

*Note: Make sure the wires not to be pinched by any other parts like panel, control box and indoor unit.



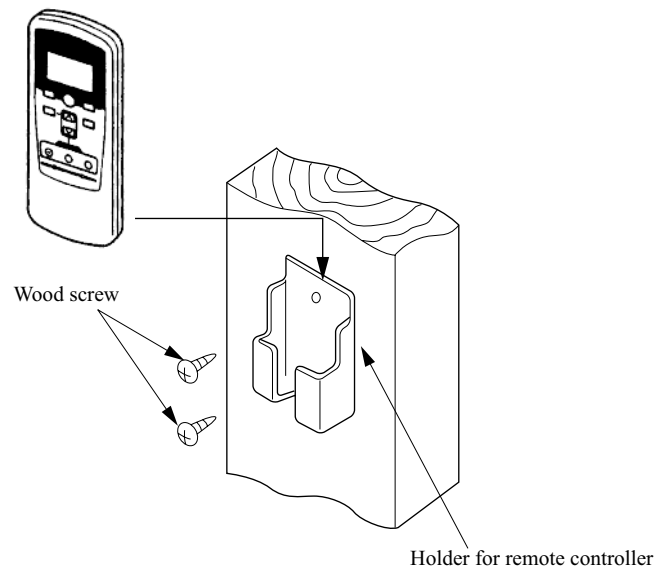
(4) Remote controller

Installation of the controller holder

Caution

DO NOT install it on the following places

1. Places exposed to direct sunlight
2. Places near heat devices
3. High humidity places
4. Hot surface or cold surface enough to generate condensation
5. Places exposed to oil mist or steam directly.
6. Uneven surface

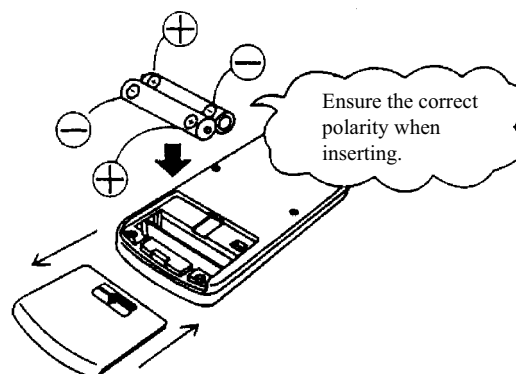


Installation tips for the remote controller holder

- Adjust and keep the holder upright
- Tighten the screw to the end to avoid scratching the remote controller.
- DO NOT attach the holder on plaster wall.

How to insert batteries

- ① Detach the back lid.
- ② Insert the batteries. (two AAA batteries)
- ③ Reattach the back lid.



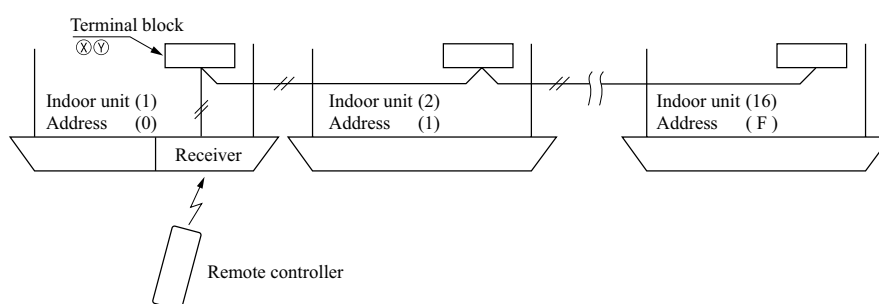
Control plural indoor units with one remote controller

Up to 16 indoor units can be connected.

- ① Connect the XY terminal with 2-core wire. As for the size, refer to the following note.
- ② For Packaged air conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire
(Maximum total extension 600m.)

Standard	Within 100m x 0.3 mm ²
	Within 200m x 0.5 mm ²
	Within 300m x 0.75mm ²
	Within 400m x 1.25mm ²
	Within 600m x 2.0 mm ²



- ③ For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.

Master/Slave setting when using plural remote controllers

Up to two receivers can be installed in one indoor unit group.

When two receivers are used, it is necessary for a receiver to turn OFF SW2 on the receiver PCB to set it as slave.

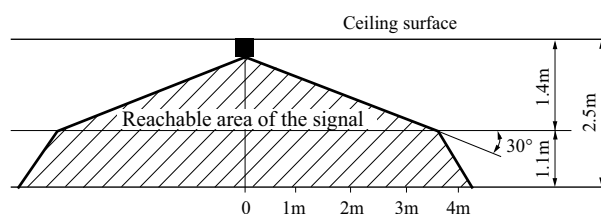
(For the method of switching, please see **Setting on site** in the section of **How to install the receiver** in this manual.)

Wireless remote controller's operable area

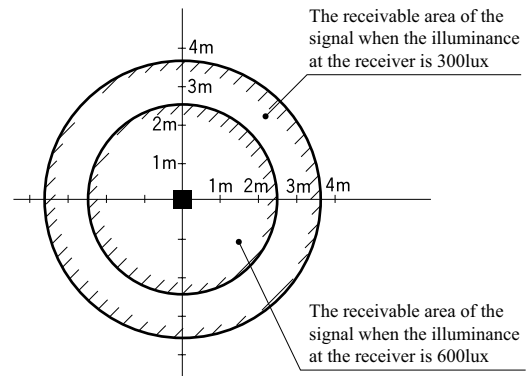
- ① Standard reachable area of the signal

[condition] Illuminance at the receiver: 300lux

(when no lighting is installed within 1m of the receiver in an ordinary office.)



- ② Correlation between illuminance at the receiver and reachable area of the signal in a plain view. The drawing in the right shows the correlation between the reachable area of the signal and illuminance at the receiver when the remote controller is operated at 1.1m high under the condition of ceiling height of 2.5m. When the illuminance becomes double, the area is narrowed down to two thirds.



- ③ Installation tips when several receivers are installed close Minimum distance between the indoor units which can avoid cross communication is 5m under the condition of 300lux of illuminance at the receiver.
(When no lighting is installed within 1m of the receiver in an ordinary office)

(5) How to disable the Auto mode operation

VRF system (except heat recovery 3-pipe systems) cannot be operated in Auto mode. Make sure to set the remote controller for the models so as not to be able to choose Auto mode.

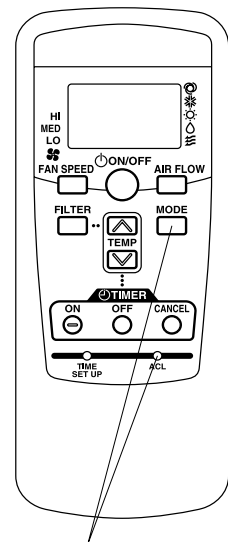
Pushing **ACL** and **MODE** button at the same time or inserting the batteries with pressing **MODE** button will make auto mode operation.

Attention

* When the batteries are removed, the setting will return to the default setting (Auto mode is valid).

Caution

Instruct the customer to set the mentioned above when replacing the batteries.
(How to set is also mentioned in the user's manual attached on the air conditioner.)



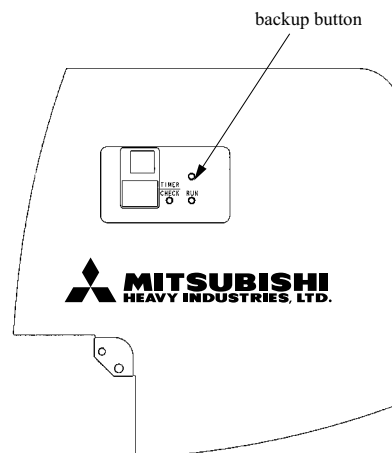
Auto mode operation setting

(6) Backup button

A Backup button is provided on the receiver.

Even when the operation from the wireless remote controller is not possible (due to flat batteries, controller lost, or controller failure), still it possible to operate as temporary means. Press the button directly when operating it.

- (a) The air conditioner starts the operation with the condition of Auto mode, 23°C of set point, High fan speed and horizontal louver position.
- (b) The air conditioner stops the operation when the button is pressed when in operation.



(7) Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with wireless remote controller, while the backup button on the receiver is pressed.
- If the backup button on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check by consulting with inspection guides on the wiring diagram of outdoor units.

(8) How to read the two-digit display

On the receiver of a wireless kit, a two-digit (7-segment) display is provided.

- (a) An indication will be displayed for one hour after power on.
- (b) An indication will be displayed for 3.5 seconds after transmitting a “STOP” command from the wireless remote controller or the operation of the backup button to stop the unit.
- (c) An indication appearing in (a) or (b) above will go off as soon as the unit starts operation.
- (d) When there are no error records to indicate, addresses of all the connected units are displayed.
- (e) When there are some error records remaining, the error records are displayed.
- (f) Error records can be cleared by transmitting a “STOP” command from the wireless remote controller, while the backup button is pressed.

(b) FDTC Series (RCN-TC-24W-ER)






The FDTC series is an exclusive series with all wired models. However, these models can also be used wireless units by using the optional wireless kit.

(1) Wireless kit model

Model
RCN-TC-24W-ER

(2) Accessories

Please make sure that you have all of the following accessories.

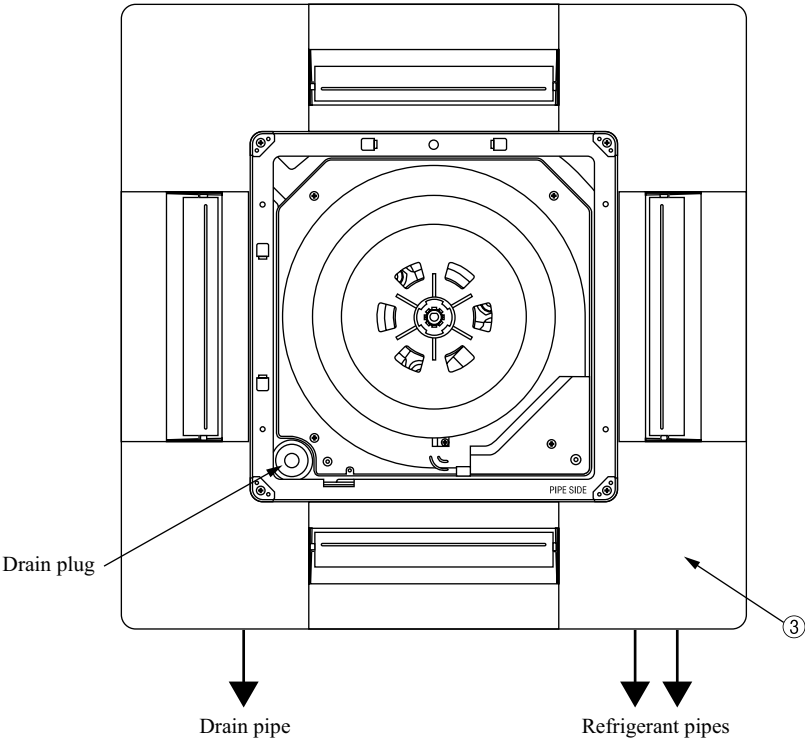
Receiver		1	Remote controller holder		1
Wireless remote controller		1	Wood screw for holder		2
Parts set		1	AAA dry cell battery (RO3)		2

(3) How to install the receiver

The receiver can be installed by replacing with a corner panel on the applicable decorative panel.

Preparation before installation

- ① Attach the decorative panel onto the air conditioner according to the installation manual for the panel.
- ② Remove the air return grille.
- ③ Remove a corner panel located on the refrigerant pipes side.
- ④ Remove to screws and detach the lid from the control box of the air conditioner.



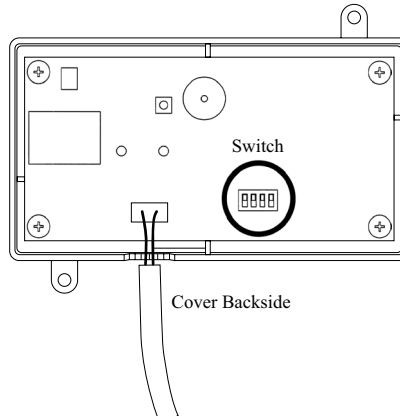
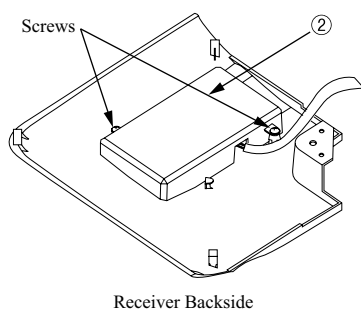
PJA012D758

Setting on site

- ① PCB on the receiver has the following switches to set the functions. Default setting is shown with ☐ mark.

SW1	Customized signal setting to avoid mixed communication	<input type="checkbox"/> ON : Normal <input type="checkbox"/> OFF : Remote
SW2	Receiver master/slave setting	<input type="checkbox"/> ON : Master <input type="checkbox"/> OFF : Slave
SW3	Buzzer valid/Invalid	<input type="checkbox"/> ON : Valid <input type="checkbox"/> OFF : Invalid
SW4	Auto restart	<input type="checkbox"/> ON : Valid <input type="checkbox"/> OFF : Invalid

- ② Remove the cover by unscrewing two screws from the back of receiver.
③ Change the setting by the switch on PCB.



- ④ When SW1 is turned to OFF position, change the corresponding remote controller setting as follows:

How to change the remote controller setting

Pressing **ACL** switch with **AIR FLOW** button kept pressing or inserting the batteries with pressing **AIR FLOW** button will customize the signal.

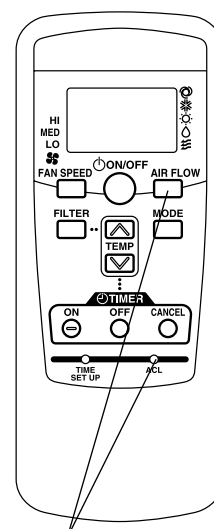
Note

* When the batteries are removed, the setting will return to the default setting.

Please make sure to reset it when the batteries are replaced.

Caution

Instruct the customer to set the mentioned above when replacing the batteries.(How to set is also mentioned in the user's manual attached on the air conditioner.)

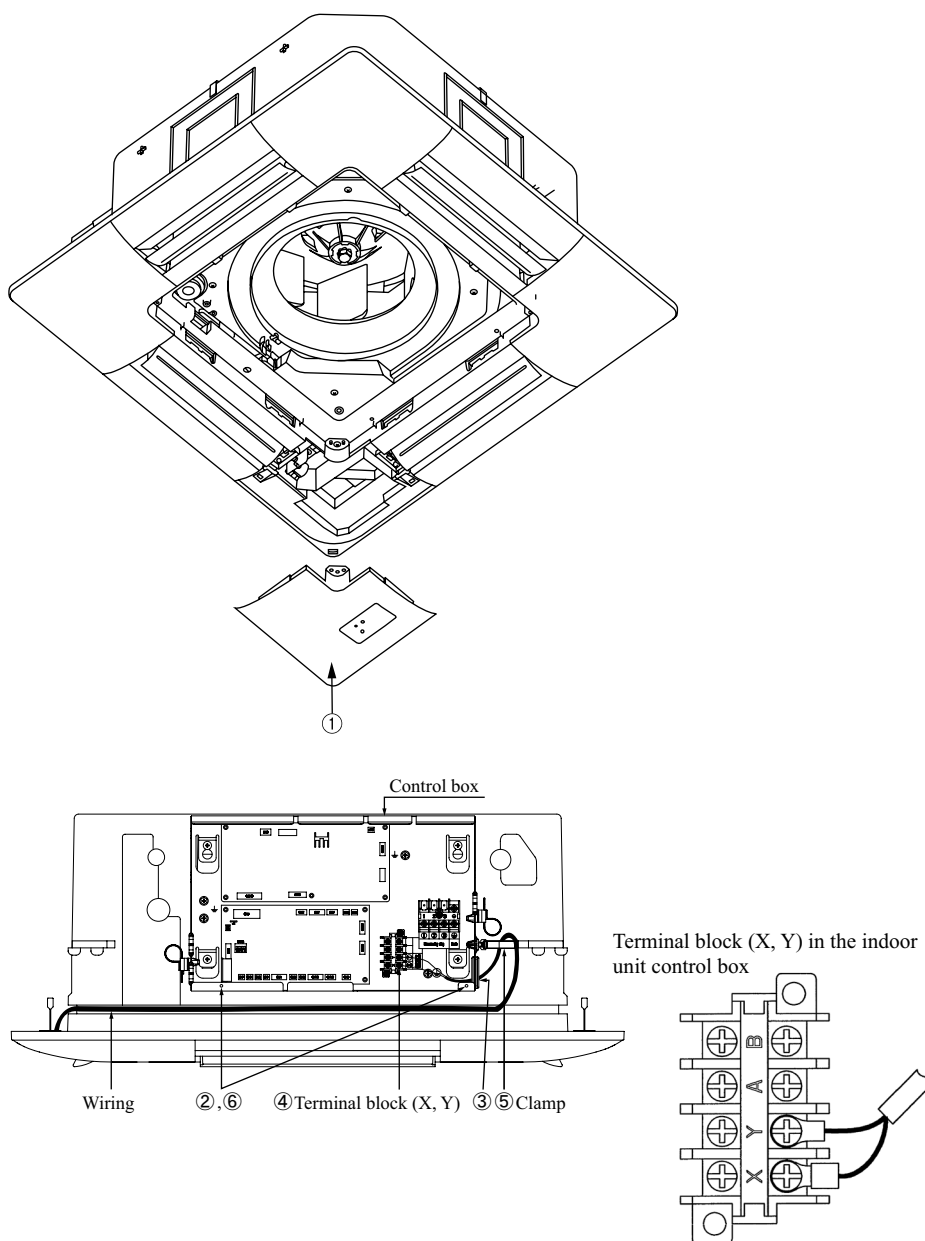


Radio interference prevention mode

Installation of the receiver

- ① Attach the receiver to the panel according to the panel installation manual.
- ② Remove two screws and detach the lid from the control box.
- ③ Put the wiring in the control box with other wiring as shown below.
- ④ Connect the wiring to the terminal block (X, Y) provided in the control box. (Non- polarized)
- ⑤ Fix the wiring with the clamp as shown below.
- ⑥ Reattach the control box lid with 2 screws removed.

* Note: Make sure wires not to be pinched by any other parts like panel and control box.



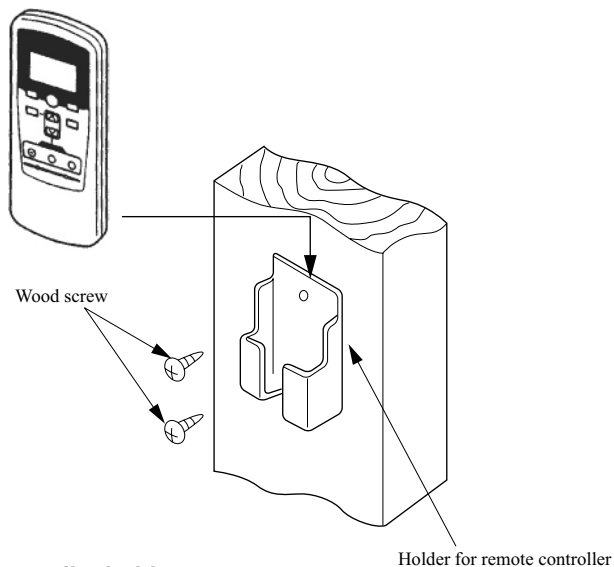
(4) Remote controller

Installation of the controller holder

Caution

DO NOT install it on the following places

1. Places exposed to direct sunlight
2. Places near heat devices
3. High humidity places
4. Hot surface or cold surface enough to generate condensation
5. Places exposed to oil mist or steam directly.
6. Uneven surface

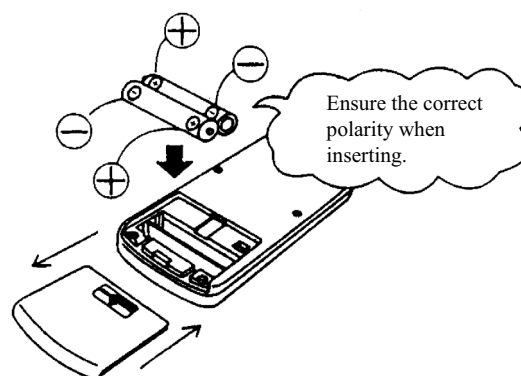


Installation tips for the remote controller holder

- Adjust and keep the holder upright
- Tighten the screw to the end to avoid scratching the remote controller.
- DO NOT attach the holder on plaster wall.

How to insert batteries

- ① Detach the back lid
- ② Insert the batteries. (two AAA batteries)
- ③ Reattach the back lid.



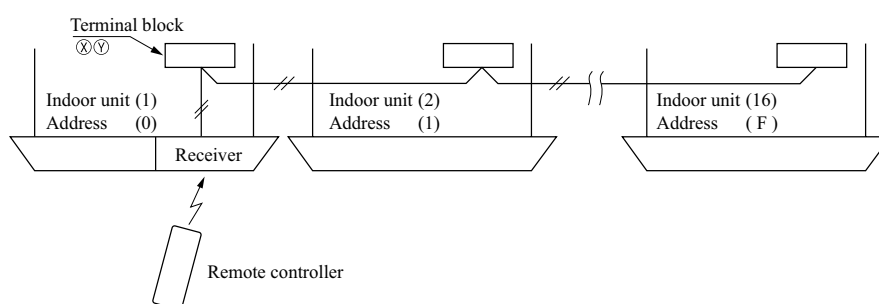
Control plural indoor units with one remote controller

Up to 16 indoor units can be connected.

- ① Connect the XY terminal with 2-core wire. As for the size, refer to the following note.
- ② For signal packaged air conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire
(Maximum total extension 600m.)

Standard	Within 100m x 0.3 mm ²
	Within 200m x 0.5 mm ²
	Within 300m x 0.75mm ²
	Within 400m x 1.25mm ²
	Within 600m x 2.0 mm ²



- ③ For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.

Master/Slave setting when using plural remote controllers

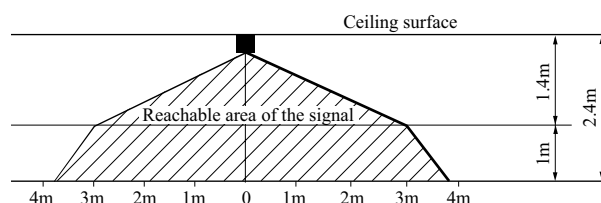
Up to two receivers can be installed in one indoor unit group.

When two receivers are used, it is necessary for a receiver to turn OFF SW2 on the receiver PCB to set it as slave.

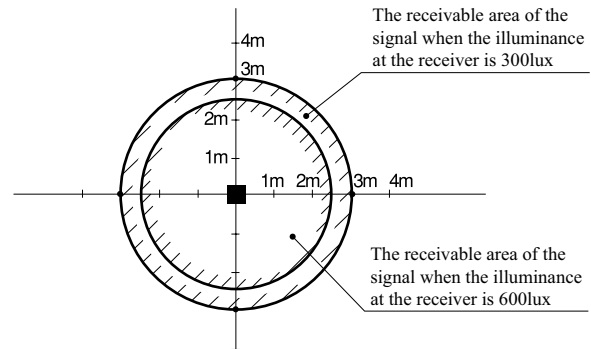
(For the method of switching, please see **Setting on site** in the section of **How to install the receiver** in this manual.)

Wireless remote controller's operable area

- ① Standard reachable area of the signal
[condition] Illuminance at the receiver: 300lux
(when no lighting is installed within 1m of the receiver in an ordinary office.)



- ② Correlation between illuminance at the receiver and reachable area of the signal in a plain view. The drawing in the right shows the correlation between the reachable area of the signal and illuminance at the receiver when the remote controller is operated at 1m high under the condition of ceiling height of 2.4m.



- ③ Installation tips when several receivers are installed close Minimum distance between the indoor units which can avoid cross communication is 5m under the condition of 300lux of illuminance at the receiver.
(When no lighting is installed within 1m of the receiver in an ordinary office)

(5) How to disable the Auto mode operation

VRF system (except heat recovery 3-pipe systems) cannot be operated in Auto mode.
Make sure to set the remote controller for the models so as not to be able to choose Auto mode.

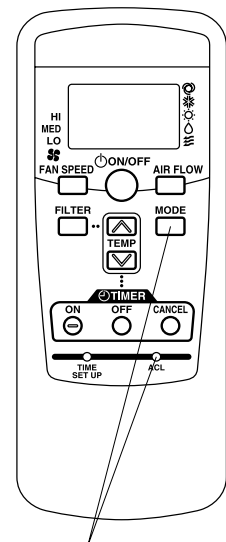
Pushing **ACL** switch with **MODE** button kept pressing or inserting the batteries with pressing **MODE** button will make auto mode operation.

Note

* When the batteries are removed, the setting will return to the default setting (Auto mode is valid).

Caution

Instruct the customer to set the mentioned above when replacing the batteries.
(How to set is also mentioned in the user's manual attached on the air conditioner.)

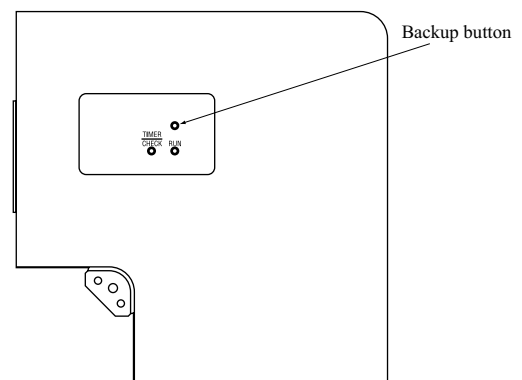


Auto mode operation setting

(6) Backup button

A Backup button is provided on the receiver. Even when the operation from the wireless remote controller is not possible (due to flat batteries, controller lost, or controller failure), still it possible to operate as temporary means. Press the button directly when operating it.

- The air conditioner starts the operation with the condition of Auto mode, 23°C of set point, High fan speed and horizontal louver position.
- The air conditioner stops the operation when the button is pressed when in operation.



(7) Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with wireless remote controller, while the backup button on the receiver is pressed.
- If the backup button on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check by consulting with inspection guides on the wiring diagram of outdoor units.

(8) How to read the two-digit display

On the receiver of a wireless kit, a two-digit (7-segment) display is provided.

- (a) An indication will be displayed for one hour after power on.
- (b) An indication will be displayed for 3.5 seconds after transmitting a “STOP” command from the wireless remote controller or the operation of the backup button to stop the unit.
- (c) An indication appearing in (a) or (b) above will go off as soon as the unit starts operation.
- (d) When there are no error records to indicate, addresses of all the connected units are displayed.
- (e) When there are some error records remaining, the error records are displayed.
- (f) Error records can be cleared by transmitting a “STOP” command from the wireless remote controller, while the backup button is pressed.




(C) FDK Series

- RCN-K-E (Models : FDK22~56)
- RCN-K71-E (Model : FDK71)


PHA012D038

WIRELESS KIT INSTALLATION MANUAL

⚠ WARNING

- **Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.**
Loose connections or hold could result in abnormal heat generation or fire. 
- **Turn off the power source during servicing or inspection work.**
If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan. 
- **Shut off the power before electrical wiring work.**
It could cause electric shock, unit failure and improper running. 

⚠ CAUTION

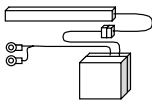
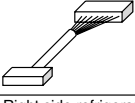
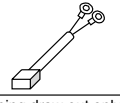

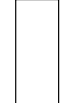
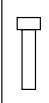
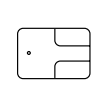
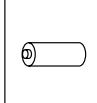

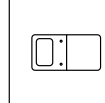
- **DO NOT install it on the following places.**
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to generate condensation
 - (5) Places exposed to oil mist or steam directly
 - (6) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight.
 - (7) Places where the receiver is affected by infrared rays of any other communication devices
 - (8) Places where some object may obstruct the communication with the remote controller
- **DO NOT leave the wireless kit without the cover.**
In case the cover needs to be detached, protect the receiver with a packaging box or bag in order to keep it away from water and dust. 

Attention

- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air conditioner itself, refer to the installation manual enclosed in the package.

① Accessories

Please make sure that you have all of the following accessories.

Control ASSY	Wiring ASSY (A)	Wiring ASSY (B)	Display label	Rubber insulation	Tie	Remote controller holder	AAA dry cell battery(RO3)	Wood screw for holder	Wireless remote controller
	 Right side refrigerant piping draw out only		 ① RUN TIMER/CHECK ② CHECK1 CHECK2						
1	1	1	1	1	3	1	2	2	1

② Preparation before installation

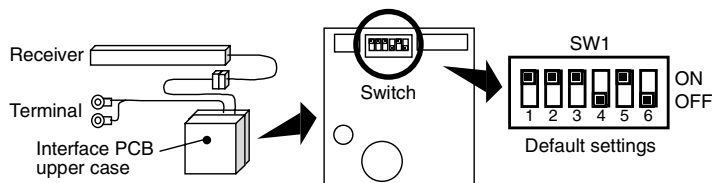
Setting on site

Interface PCB has the following switches to set the function.
Default setting is shown with ☐ mark.

SW1-1	Prevents interference during plural setting	ON : Normal (1ch) OFF : Customized (2ch)
SW1-2	Receiver master/slave setting	ON : Master OFF : Slave
SW1-3	Buzzer valid/invalid	ON : Valid OFF : Invalid
SW1-4	Auto restart	ON : Valid OFF : Invalid
SW1-5	Indication for error	ON : Valid OFF : Invalid
SW1-6	Not in use	ON : --- OFF : ---

To change setting

1. Remove the upper case of interface PCB assy.
2. Change the switch setting on PCB.



NOTE

When SW1-1 is turned to off position, change the wireless remote controller setting.

For the method of changing the setting, refer to **Setting to avoid mixed communication** on page 363.

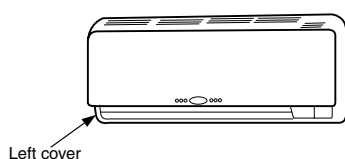
③ How to install the control assy (In case of the pipe routed through the right)

The control assy (Receiver and interface PCB assy) can be installed inside the indoor unit.
After turning off the power and confirming safety, execute as follows.

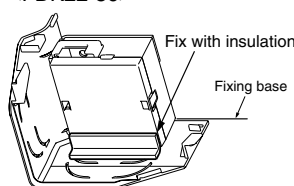
In case of the piping routed from right side

① Preparation before installing Control assy

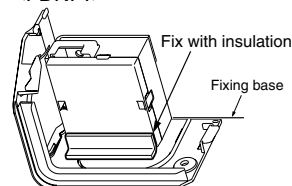
- Disconnect the receiver from the interface PCB assy, and attach on wiring assy (A).
- Change the original wiring (for X, Y) to the attached wiring assy (B).
- Bundle wiring with attached ties.
- Install the interface PCB assy on the left cover of the indoor unit with the attached insulation. (Refer to below figure.)



<FDK22-56>



<FDK71>



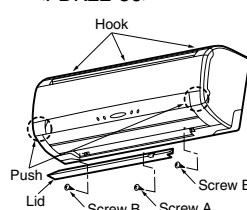
Add attached Wiring assy (A)

Change to attached Wiring assy (B)

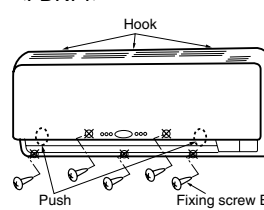
② Remove Panel

- Remove the fixing screw A and detach the unit bottom lid. (only FDK22-56)
- Remove the fixing screw B.
- Pull the lower part of the front panel off the unit toward you. And then, push it up to detach its upper part from the indoor unit. (Disengage 3 hooks located on the top part.)

<FDK22-56>

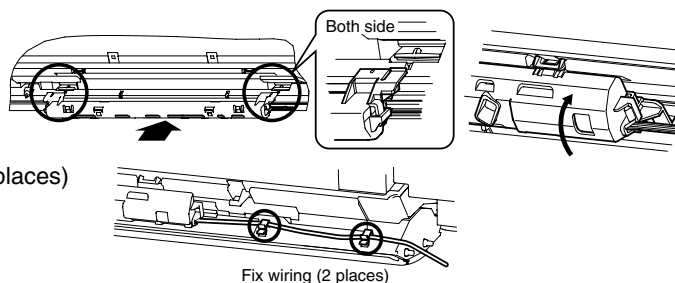


<FDK71>



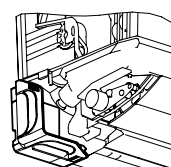
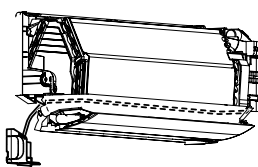
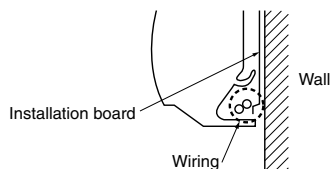
③ Install Receiver on Indoor unit

- Hang the claw of the receiver lower side on the claw of the indoor unit. (2 places)
And snap in the claw of the receiver upper side on the hole of the indoor unit. (2 places)
- Fix the wiring on the clip of the indoor unit. (2 places)



④ Install interface PCB assy on Indoor unit

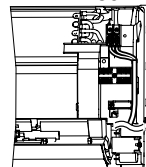
- Route the Wiring assy (A) and (B) through the front of installation board.
- Install the cover in which the interface PCB assy is installed.



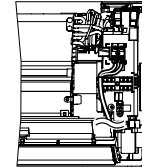
⑤ Fix Wiring assy (for X, Y)

- Fix the terminal of the wiring assy (for X, Y) on the terminal block of the indoor unit. (Non-polarized)
- Route the wiring as shown in figure.
- Bundle wirings with attached ties.

<FDK22-56>



<FDK71>



⑥ Put back Panel and stick Label on Panel

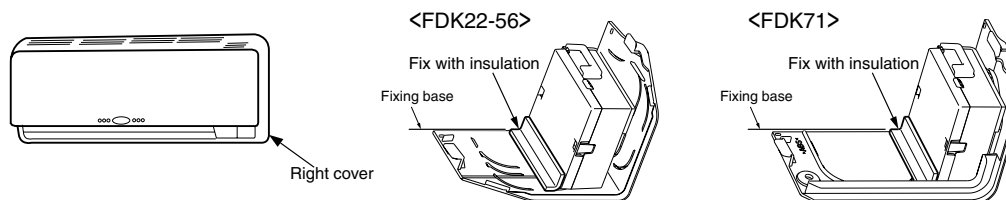
Refer to ③ How to install the control assy (Put back Panel and stick Label) on page 362.

③ How to install the control assy (In case of the pipe routed through the left)

In case of the pipe routed through the left

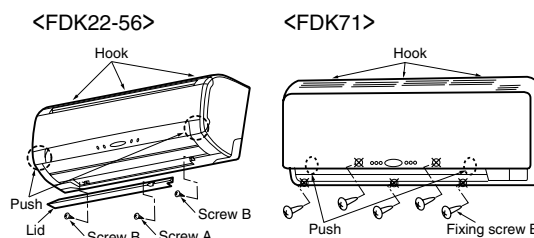
① Preparation before installing Control assy

- a) Install the interface PCB assy on the right cover of the indoor unit with the attached insulation.



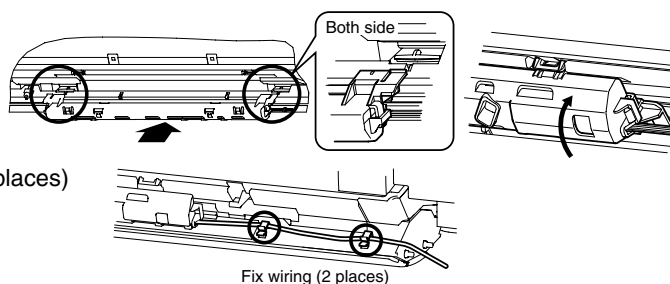
② Remove Panel

- a) Remove the fixing screw A and detach the unit bottom lid. (only FDK22-56)
 b) Remove the fixing screw B.
 c) Pull the lower part of the front panel off the unit toward you. And then, push it up to detach its upper part from the indoor unit. (Disengage 3 hooks located on the top part.)



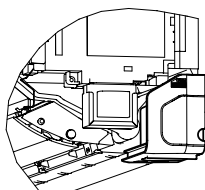
③ Install Receiver on Indoor unit

- a) Hang the claw of the receiver lower side on the claw of the indoor unit. (2 places)
 And snap in the claw of the receiver upper side on the hole of the indoor unit. (2 places)
 b) Fix the wiring on the clip of the indoor unit. (2 places)



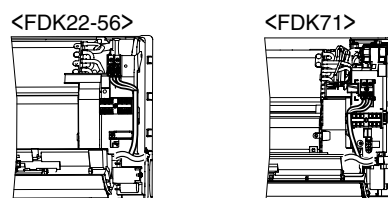
④ Install interface PCB assy on Indoor unit

- a) Install the cover in which the interface PCB assy is installed.



⑤ Fix Wiring assy (for X, Y)

- a) Fix the terminal of the wiring assy (for X, Y) on the terminal block of the indoor unit. (Non-polarized)
 b) Route the wiring as shown in figure.
 c) Bundle wirings with attached ties.




⑥ Put back Panel and stick Label on Panel

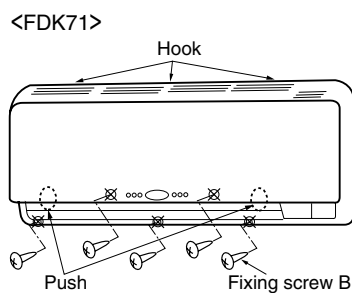
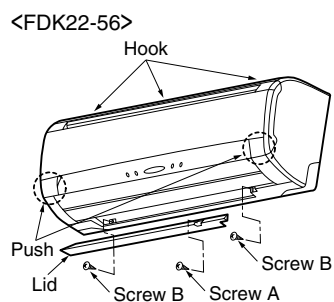
Refer to ③How to install the control assy (Put back Panel and stick Label) see next page

③ How to install the control assy (Put back Panel and stick Label)

Put back Panel and stick Label

① Put back Panel

- Always remove the air filter beforehand.
- Place the front panel over the indoor unit.
- Engage it onto the indoor unit by pressing the areas marked with  in the figure from the front.
- Fasten the fixing screw B.
- Set the air filter.
- Attach the indoor unit bottom lid and fasten the fixing screw A. (only FDK22-56)



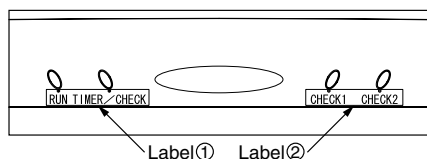
② Stick Label on Panel

Stick the attached label on the front panel.

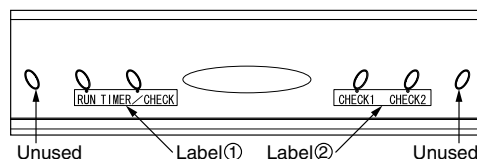
Label ① must be stuck under the left side LED of the front panel.

Label ② must be stuck under the right side LED of the front panel.

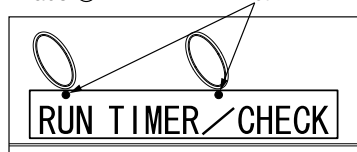
<FDK22-56>



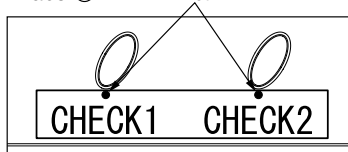
<FDK71>



<Label ①>



<Label ②>



Label ① and ② have 2 dots.
Matched the dot on the label
and the bottom of the LED
hole.

④ How to install the wireless remote controller

⚠ CAUTION DO NOT install it in the following places.

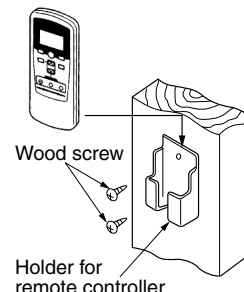
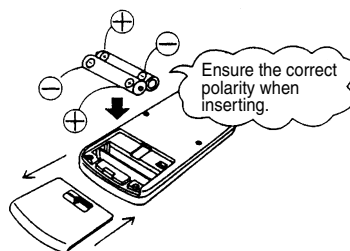
1. Places exposed to direct sunlight
2. Hot surface or cold surface enough to generate condensation
3. Places near heat devices
4. Places directly exposed to oil mist or steam
5. High humidity places
6. Uneven surface

Installation tips for the remote controller holder

- Adjust and keep the holder up right.
- Tighten the screw to the end to avoid scratching the remote controller.
- DO NOT attach the holder on plaster wall.

How to insert batteries

- ① Detach the back lid.
- ② Insert the batteries. (two AAA batteries)
- ③ Reattach the back lid.



⑤ Function setting of interface PCB and wireless remote controller

Master/Slave setting when using plural remote controllers

Up to two wireless kit or wired remote controller can be installed in one indoor unit group.

When two wireless kit or wired remote controller are used, it is necessary to change setting on the PCB to slave.

Switch	Setting	Contents
Wired remote controller: SW1	Master	Master remote controller
Wireless kit: SW1-2	Slave	Slave remote controller

Setting to avoid mixed communication

In case of plural setting, check the operation distance of wireless remote controller, and avoid mixed communication.

Refer to **⑦ Wireless remote controller unit operation distance** on page 364 about the operation distance.

It is necessary to change setting of interface PCB and wireless remote controller.

(1) Interface PCB

Set SW1-1 to "OFF" position.

(2) Wireless remote controller

Pressing **ACL** and **AIR FLOW** button at the same time or inserting the batteries with pressing **AIR FLOW** button will customize the signal.

Setting to disable the Auto mode operation

VRF system (except heat recovery 3-pipe system) cannot be operated in Auto mode. Make sure to set the remote controller for the models so as not to be able to choose Auto mode.

Pressing **ACL** and **MODE** button at the same time or inserting the batteries with pressing **MODE** button will make auto mode operation.

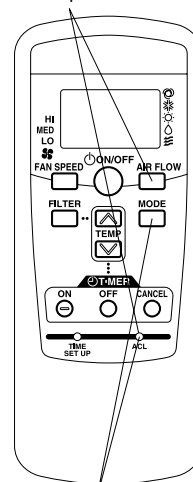
ATTENTION

When the batteries are removed, the setting will return to the default setting. Please make sure to reset it when the batteries are replaced.

⚠ Caution

Instruct the customer to set the mentioned above when replacing the batteries. (How to set is also mentioned in the user's manual attached on the air conditioner.)

Radio prevention mode



Auto mode operation setting

⑥ Wiring

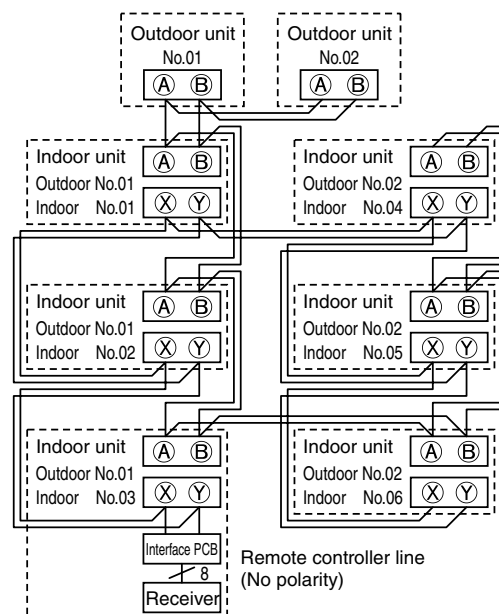
Control plural indoor units with one remote controller

Up to 16 indoor units can be connected.

- ① Connect indoor units with each other with 2-core wires. As for size, refer to the following note.
- ② The receiver wires must be connected only with the indoor unit that will be operated by the remote controller directly.
- ③ Use the rotary SW1 and SW2 provided on the indoor unit PCB (Printed circuit board) to set unique remote control communication address avoiding duplication.

Restrictions on the thickness and length of wire
(Maximum total extension 600m.)

Standard	Within 100m x 0.3mm ²
	Within 200m x 0.5mm ²
	Within 300m x 0.75mm ²
	Within 400m x 1.25mm ²
	Within 600m x 2.0mm ²



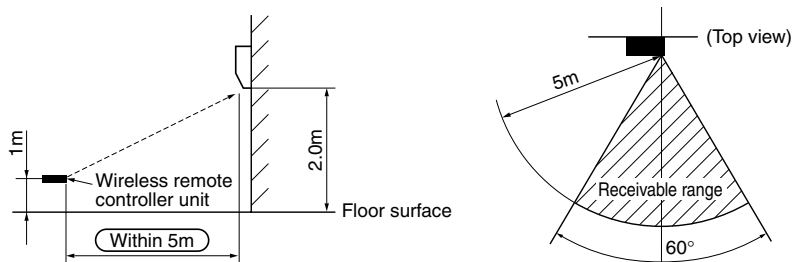
⑦ Wireless remote controller operation distance

- ① Standard signal receiving range

[Condition]

Illuminance at the receiver area: 360 lux.

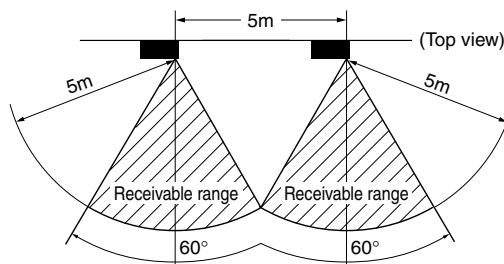
(When no lighting fixture is located within 1m of indoor unit in an ordinary office)



- ② Points for attention in connecting a plural number of indoor units

[Condition]

Illuminance at the receiver area: 360 lux.



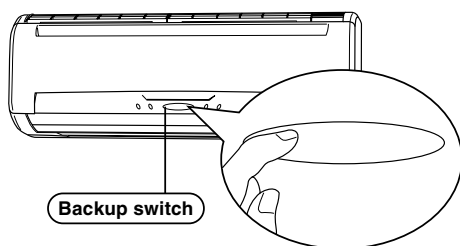
⑧ Trial operation

Backup switch

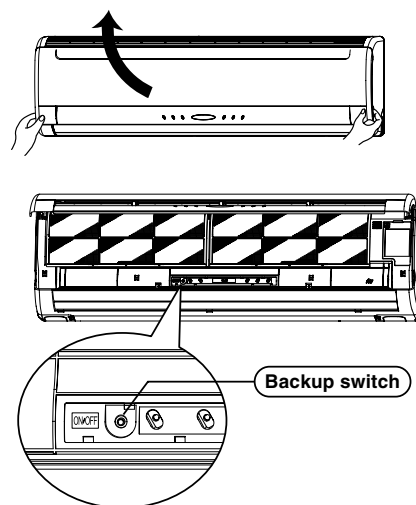
The backup switch is provided on the receiver section. It is possible to use the backup switch as shown in the figure below. When operation from the wireless remote controller unit is not possible (due to flat batteries, a mislaid unit, a unit failure), the backup switch can be used as an emergency means. The backup switch is operated manually.

- (1) If pressed while the air conditioner is in a halt, it will cause the air conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode).
Fan speed: Hi fan, Temperature setting: 23°C, Louver: horizontal
- (2) If pressed while the air conditioner is in operation, it will stop the air conditioner.

<FDK22-56>



<FDK71>



Cooling test run operation




- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote controller, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If the air conditioner can not operate properly during the test run, check wiring according to the trouble shooting guides.

NOTE


1. After over 2 minute from power on, operate the wireless remote controller.
The operation is invalid during 2 minute from power on.
2. Check indicator lamp "check1" / "check2" shows error code.
The number of blinking shows the error code number of tens/ones place and check1/check2 corresponds to tens/ones place.

WIRELESS KIT INSTALLATION MANUAL

⚠ WARNING

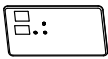




- **Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.**
Loose connections or hold could result in abnormal heat generation or fire. 
- **Turn off the power source during servicing or inspection work.**
If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan. 
- **Shut off the power before electrical wiring work.**
It could cause electric shock, unit failure and improper running. 

⚠ CAUTION

- **DO NOT install it on the following places**
 1. Places exposed to direct sunlight
 2. Places near heat devices
 3. High humidity places
 4. Places where the receiver is influenced by the fluorescent lamp or sunlight.
 5. Places where the receiver is affected by infrared rays of any other communication devices.
 6. Places where some object may obstruct the communication with the remote controller.

① Accessories

Please make sure that you have all of the following accessories.

Receiver	Remoto controller holder	AAA dry cell battery (RO3)	Wood screw for holder	Wireless remote controller
				
1	1	2	2	1

② Preparation before installation

Setting on site

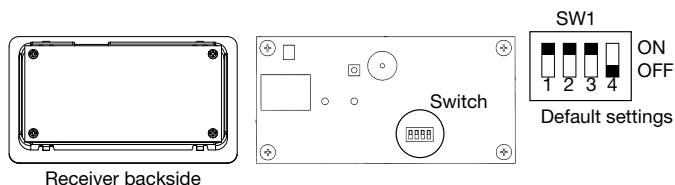
PCB on the receiver has the following switches to set the function.

Default setting is shown with ☐ mark.

SW1	Prevents interference during plural setting	<input type="checkbox"/> ON : Normal (1ch) <input type="checkbox"/> OFF : Customized (2ch)
SW2	Receiver master/slave setting	<input type="checkbox"/> ON : Master <input type="checkbox"/> OFF : Slave
SW3	Buzzer valid/Invalid	<input type="checkbox"/> ON : Valid <input type="checkbox"/> OFF : Invalid
SW4	Auto restart	<input type="checkbox"/> ON : Valid <input type="checkbox"/> OFF : Invalid

To change setting

1. Remove four screws located on the back of the receiver and detach the board.
2. Change the setting by the switch on PCB.



3. When switch 1 is turned to off position, change the wireless remote controller setting.
(For the method of changing the setting, refer to [Setting to avoid mixed communication](#) on page 2)
Refer to [Wireless remote controller unit operation distance](#) of **⑤ Receiver** in case of plural setting.

Master/Slave setting when using plural remote controllers

Up to two receiver or wired remote controller can be installed in one indoor unit group.

When two receiver or wired remote controller are used, it is necessary to change SW on the PCB to set it as slave.

③ How to install the receiver

The receiver can be installed by replacing with a cover of the panel.

CAUTION : When installing the receiver after unit has been fixed, injury due to falling may result because of working at high place.

① Remove the cover

Insert a flat-blade screwdriver into the dented part (2 places), and wrench slightly.

② Connect the wiring

Connect wiring of the receiver to the wiring in the back.

ATTENTION

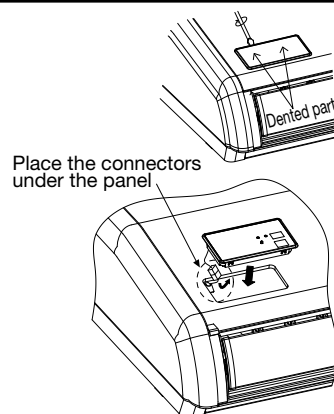
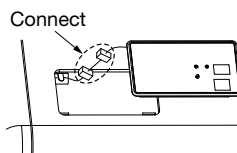
DO NOT remove the clamp fixed the wiring.

③ Installation of the receiver

Check direction of the receiver, and fix to the panel.

CAUTION : Connect the connectors before installing the receiver.

In case of connecting after the receiver had been installed, it will be necessary to remove the panel.



④ Wireless remote controller

⚠ CAUTION DO NOT install it on the following places.

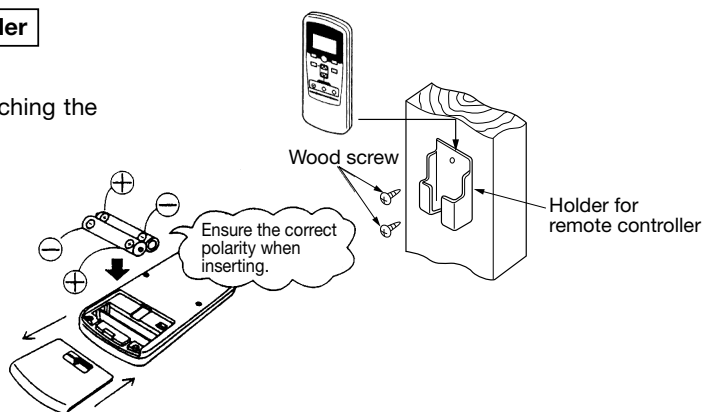
1. Places exposed to direct sunlight
2. Hot surface or cold surface enough to generate condensation
3. Places near heat devices
4. Places exposed to oil mist or steam directly.
5. High humidity places
6. Uneven surface

Installation tips for the remote controller holder

- Adjust and keep the holder up right
- Tighten the screw to the end to avoid scratching the remote controller.
- DO NOT attach the holder on plaster wall

How to insert batteries

- ① Detach the back lid.
- ② Insert the batteries. (two AAA batteries)
- ③ Reattach the back lid.



Setting to avoid mixed communication

Pressing **ACL** and **AIR FLOW** button at the same time or inserting the batteries with pressing **AIR FLOW** button will customize the signal.

Setting to disable the Auto mode operation

VRF system (except heat recovery 3-pipe system) cannot be operated in Auto mode.

Make sure to set the remote controller for the models so as not to be able to choose Auto mode.

Pressing **ACL** and **MODE** button at the same time or inserting the batteries with pressing **MODE** button will make auto mode operation.

ATTENTION

When the batteries are removed, the setting will return to the default setting.

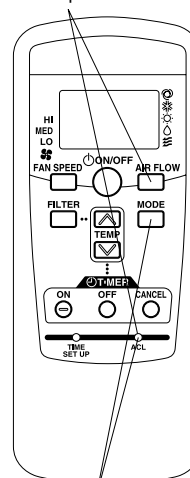
Please make sure to reset it when the batteries are replaced.

⚠ Caution

Instruct the customer to set the mentioned above when replacing the batteries.

(How to set is also mentioned in the user's manual attached on the air conditioner.)

Radio prevention mode



Auto mode operation setting

⑤ Receiver

Control plural indoor units with one remote controller

Up to 16 indoor units can be connected.

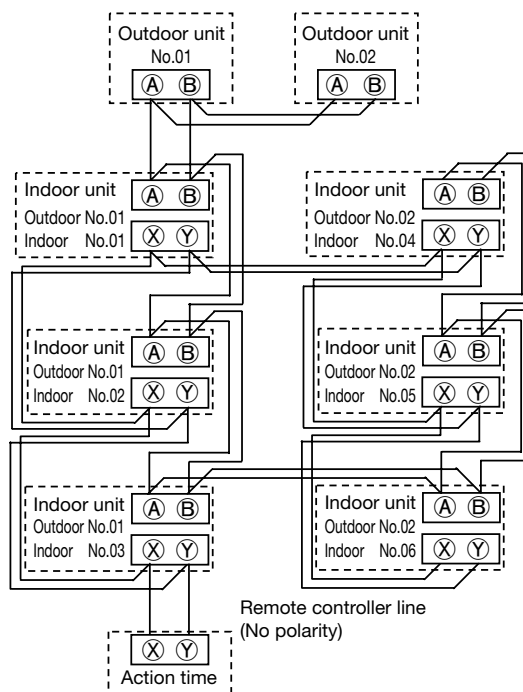
- ① Connect indoor units with each other with 2-core wires. As for size, refer to the following note.
- ② The receiver wires must be connected only with the indoor unit that will be operated by the remote controller directly.
- ③ Use the rotary SW1 and SW2 provided on the indoor unit PCB (Printed circuit board) to set unique remote control communication address avoiding duplication.

Restrictions on the thickness and length of wire
(Maximum total extension 600m.)

Standard	Within 100m x 0.3 mm ²
	Within 200m x 0.5 mm ²
	Within 300m x 0.75 mm ²
	Within 400m x 1.25 mm ²
	Within 600m x 2.0 mm ²

After a unit is energized, it is possible to display an indoor unit address by pressing **AIR CON NO** button on the remote control unit.

Press the **▲** or **▼** button to make sure that all indoor units connected are displayed in order.



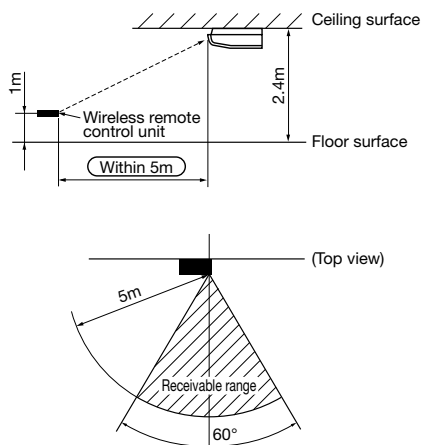
Wireless remote controller unit operation distance

- ① Standard signal receiving range

[Condition]

Illuminance at the receiver area: 360 lux.

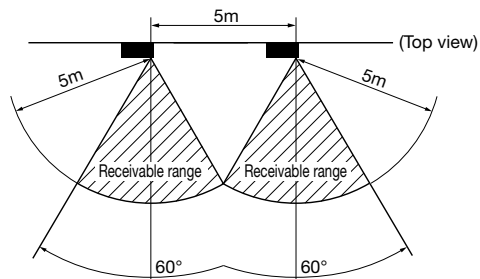
(When no lighting fixture is located within 1m of indoor unit in an ordinary office)



- ② Points for attention in connecting a plural number of indoor units

[Condition]

Illuminance at the receiver area: 360 lux.



⑤ Receiver (continued)

Backup button

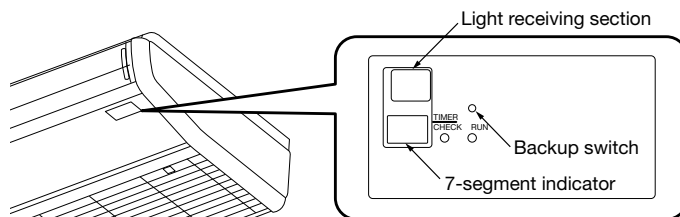
A backup switch is provided on the receiver section of the panel surface.

When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

- (1) If pressed while the air conditioner is in a halt, it will cause the air conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode).

Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal

- (2) If pressed while the air conditioner is in operation, it will stop the air conditioner.



Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the two-digit display

A two-digit indicator (7-segment indicator) is provided on the receiver section.

- (1) An indication will be displayed for one hour after power on.
- (2) An indication appears for 3.5 seconds when a Stop command is sent from the wireless remote control unit while the air conditioner is not running.
- (3) An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- (4) When there are no error records to indicate, addresses are displayed for all of the connected units.
- (5) When there are some error records remaining, the error records are displayed.
- (6) Error records can be cleared by transmitting a "Stop" command from the wireless remote control unit, while the backup switch is depressed.

WIRELESS KIT INSTALLATION MANUAL

⚠ WARNING

- **Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.**

Loose connections or hold could result in abnormal heat generation or fire.



- **Turn off the power source during servicing or inspection work.**

If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan.



- **Shut off the power before electrical wiring work.**

It could cause electric shock, unit failure and improper running.



⚠ CAUTION

- **DO NOT install it in the following places.**

- (1) Places exposed to direct sunlight
- (2) Places near heat devices
- (3) High humidity places
- (4) Hot surface or cold surface enough to generate condensation
- (5) Places directly exposed to oil mist or steam

- (6) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight.

- (7) Places where the receiver is affected by infrared rays of any other communication devices

- (8) Places where some object may obstruct the communication with the remote controller



- **DO NOT leave the wireless kit without the cover.**

In case the cover needs to be detached, protect the receiver with a packaging box or bag in order to keep it away from water and dust.

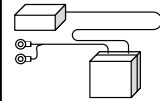
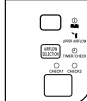







Attention

- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air conditioner itself, refer to the installation manual enclosed in the package.

① Accessories

Please make sure that you have all of the following accessories.

Control ASSY	Display label	Screw for display	Wireless remote controller	AAA dry cell battery (RO3)	Remote controller holder	Wood screw for holder
						
1	1	2	1	2	1	2

② Preparation before installation

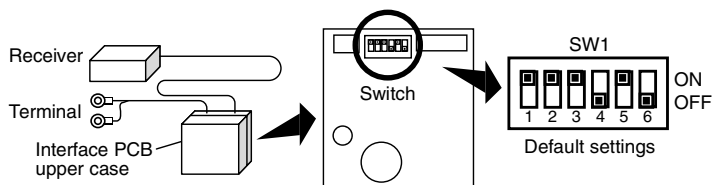
Setting on site

The interface PCB has the following switches to set the function.
Default setting is shown with ☐ mark.

SW1-1	Prevents interference during plural setting	ON : Normal (1ch) OFF : Customized (2ch)
SW1-2	Receiver master/slave setting	ON : Master OFF : Slave
SW1-3	Buzzer valid/invalid	ON : Valid OFF : Invalid
SW1-4	Auto restart	ON : Valid OFF : Invalid
SW1-5	Indication for error	ON : Valid OFF : Invalid
SW1-6	Not in use	ON : --- OFF : ---

To change setting

1. Remove the upper case of the interface PCB assy.
2. Change the switch setting on PCB.



NOTE

When SW1-1 is turned to off position, change the wireless remote controller setting.

For the method of changing the setting, refer to **Setting to avoid mixed communication** on page 372.

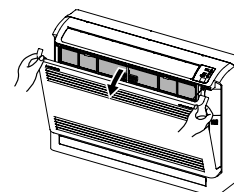
③ How to install the control assy

The control assy (Receiver and Interface PCB assy) can be installed inside the indoor unit. After turning off the power and confirming safety, execute as follows.

① Remove Inlet panel

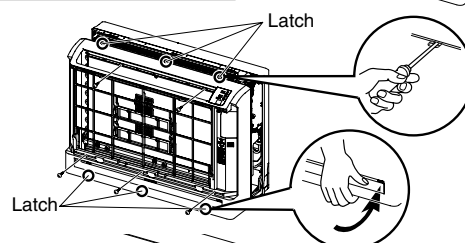
- Pull the inlet panel towards you at the upper side of both sides, and detach the latches.
- Remove the retainer string from the front panel.
- Remove the inlet panel.

CAUTION
When removing the inlet panel, be careful not to drop it on your feet.



② Remove Front panel

- Remove the fixing screw. (5 pieces)
- Detach the latches at the upper side of the front panel. (3 places)
If difficult to remove the latch, detach the latch portion by using straight screw driver, for example.
- Move the lower part of the front panel towards you.
- Detach the latches at the lower side of the front panel. (6 places)

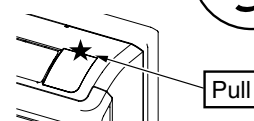


③ Remove Display label and stick on Display label

- Peel off the original display label, on the upper side. (★ Mark)
Press the back side of label, then the label floats.
- Stick the attached display label on the same location.

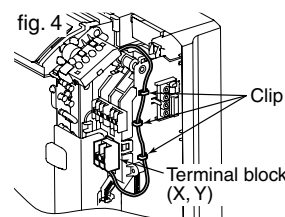
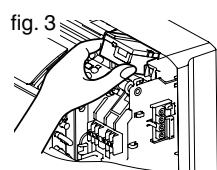
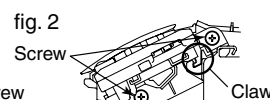
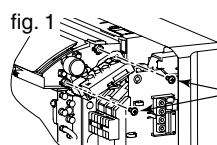
CAUTION MUST change the display label.

If the display label is not changed, the receiver can not receive the signal from the remote controller.



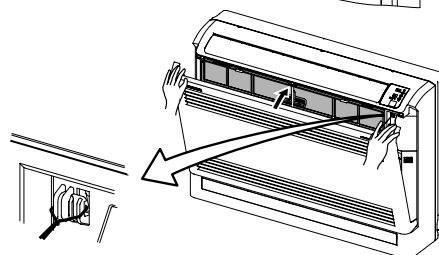
④ Install Control assy

- Fix the receiver on the indoor unit, by the attached screw. (2 pieces, refer to figure 1)
Make sure that the claw of the receiver hungs on the claw of the indoor unit control box. (Refer to figure 2)
- Put the interface PCB assy on the indoor unit control box. Put the interface PCB assy securely in the innermost location, when installing the front panel. (Refer to figure 3)
- Fix the wiring on indoor unit control box by the clips. (3 places, refer to figure 4)
- Fix the terminal of the wiring assy (for X, Y) on the lower side terminal block of the indoor unit. (Non-polarity)



⑤ Put back Front panel

- Place the front panel over the indoor unit.
- Hang the latches on the lower side of the front panel. (6 places)
- Hang the latches on the upper side of the front panel. (3 places)
- Tighten the fixing screw. (5 pieces)



⑥ Put back Inlet panel

- Put the lower side of the inlet panel on the front panel.
- Hang the retainer string on the claw of the front panel.
- Snap the latch of the inlet panel upper side into the front panel.

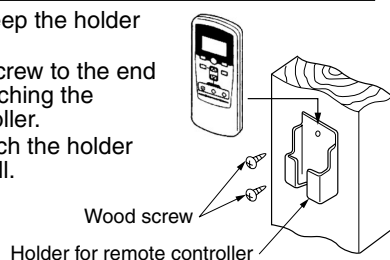
④ How to install the wireless remote controller

CAUTION DO NOT install it in the following places.

- Places exposed to direct sunlight
- Hot surface or cold surface enough to generate condensation
- Places near heat devices
- Places directly exposed to oil mist or steam
- High humidity places
- Uneven surface

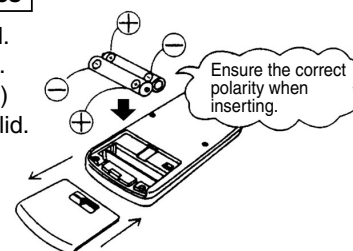
Installation tips for the remote controller holder

- Adjust and keep the holder up right.
- Tighten the screw to the end to avoid scratching the remote controller.
- DO NOT attach the holder on plaster wall.



How to insert batteries

- Detach the back lid.
- Insert the batteries. (two AAA batteries)
- Reattach the back lid.



⑤ Function setting of interface PCB and wireless remote controller

Master/Slave setting when using plural remote controllers

Up to two wireless kit or wired remote controller can be installed in one indoor unit group.

When two wireless kit or wired remote controller are used, it is necessary to change setting on the PCB to slave.

Switch	Setting	Contents
Wired remote controller: SW1	Master	Master remote controller
Wireless kit: SW1-2	Slave	Slave remote controller

Setting to avoid mixed communication

In case of plural setting, check the operation distance of wireless remote controller, and avoid mixed communication.

Refer to **⑦ Wireless remote controller operation distance** on page 373 about the operation distance.

It is necessary to change setting of interface PCB and wireless remote controller.

(1) Interface PCB

Set SW1-1 to "OFF" position.

(2) Wireless remote controller

Pressing **ACL** and **AIR FLOW** button at the same time or inserting the batteries with pressing **AIR FLOW** button will customize the signal.

Setting to disable the Auto mode operation

VRF system (except heat recovery 3-pipe system) cannot be operated in Auto mode. Make sure to set the remote controller for the models so as not to be able to choose Auto mode.

Pressing **ACL** and **MODE** button at the same time or inserting the batteries with pressing **MODE** button will make auto mode operation.

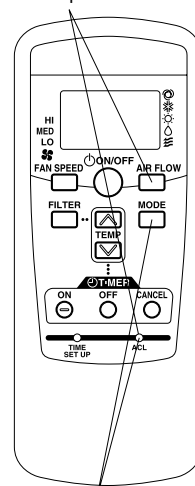
ATTENTION

When the batteries are removed, the setting will return to the default setting. Please make sure to reset it when the batteries are replaced.

CAUTION

Instruct the customer to set the mentioned above when replacing the batteries. (How to set is also mentioned in the user's manual attached on the air conditioner.)

Radio prevention mode



Auto mode operation setting

⑥ Wiring

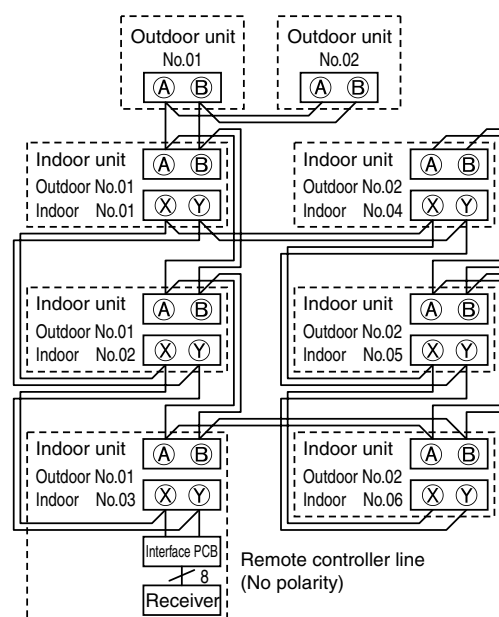
Control plural indoor units with one remote controller

Up to 16 indoor units can be connected.

- Connect indoor units with each other with 2-core wires. As for size, refer to the following note.
- The receiver wires must be connected only with the indoor unit that will be operated by the remote controller directly.
- Use the rotary SW1 and SW2 provided on the indoor unit PCB (Printed circuit board) to set unique remote control communication address avoiding duplication.

Restrictions on the thickness and length of wire
(Maximum total extension 600m.)

Standard	Within 100m x 0.3mm ²
	Within 200m x 0.5mm ²
	Within 300m x 0.75mm ²
	Within 400m x 1.25mm ²
	Within 600m x 2.0mm ²

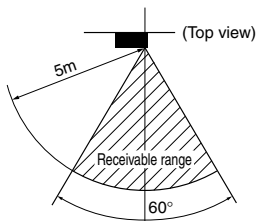
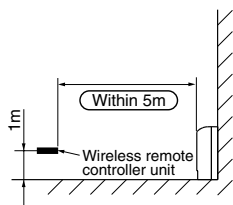


⑦ Wireless remote controller operation distance

① Standard signal receiving range

[Condition]

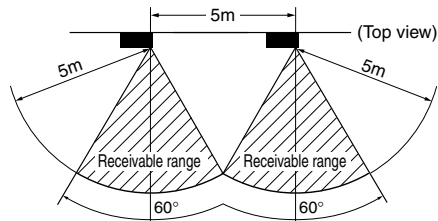
Illuminance at the receiver area: 360 lux. (When no lighting fixture is located within 1m of indoor unit in an ordinary office)



② Points for attention in connecting a plural number of indoor units

[Condition]

Illuminance at the receiver area: 360 lux.

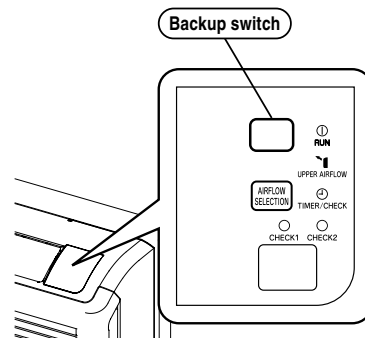


⑧ Trial operation

Backup switch

The backup switch is provided on the display label. It is possible to use the backup switch as shown in the figure right. When operation from the wireless remote controller is not possible (due to flat batteries, a mislaid unit, a unit failure), the backup switch can be used as an emergency means. The backup switch is operated manually.

- (1) If pressed while the air conditioner is in a halt, it will cause the air conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode).
Fan speed: Hi fan, Temperature setting: 23°C, Louver: horizontal
- (2) If pressed while the air conditioner is in operation, it will stop the air conditioner.



Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote controller, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If the air conditioner can not operate properly during the test run, check wiring according to the trouble shooting guides.

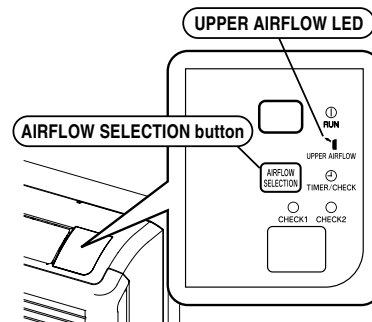
NOTE

1. After over 2 minutes from power on, operate the wireless remote controller.
The operation is invalid during 2 minutes from power on.
2. Check indicator lamp "check1" / "check2" shows error code.
The number of blinking shows the error code number of tens/ones place and check1/check2 corresponds to tens/ones place.

How to select air flow

AIR SELECTION button can switch the air supply.

- (1) Stop the air conditioner.
- (2) Select the airflow from AIR SELECTION button on the unit display.
 - ① In case of selecting to upper airflow.
Press the AIRFLOW SELECTION button once.
UPPER AIRFLOW LED will light for ten seconds.
 - ② In case of selecting to upper and lower airflow.
When UPPER AIRFLOW LED is lit by pressing AIRFLOW SELECTION button, press AIRFLOW SELECTION button once again.
UPPER AIRFLOW LED will turn off.



(f) Except for FDT, FDTC & FDE Series (RCN-KIT3-E)





This product is dedicated for heat pump unit. Never install on the unit dedicated for cooling.





PJZ012D060 




(1) Wireless kit model




Model
RCN-KIT3-E

(2) Accessories (Confrm the following accessories).

① Light detection adaptor		1
② Wiring (3m)		1
③ Parts set (A)		1
④ Parts set (B)		1
⑤ Parts set (C)		1
⑥ Wireless remote controller		1
⑦ User's manual		1

① Screw for receiver		2
② Fixing band		1
③ Clamp		5
④ Screw for clamp		5

① Remote controller holder		1
② Screw for holder		2
③ AAA dry cell battery (R03)		2

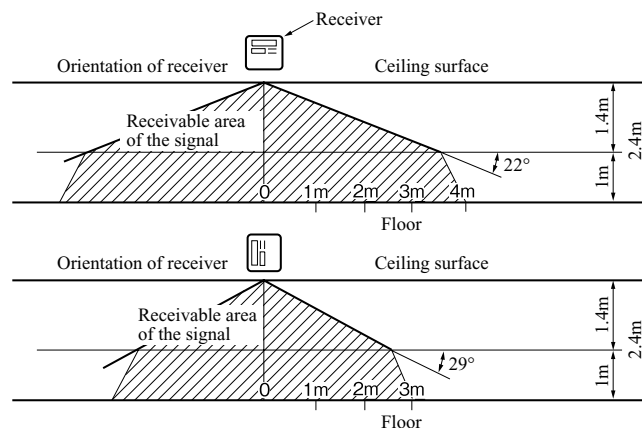
① Receiver installation bracket		1
② Screw for the bracket		2
③ Installation fitting		2

(3) Wireless remote controller's operable area

(a) When installed on ceiling

① Standard reachable area of the signal

[Condition] Illuminance at the receiver : 300lux (when no lighting is installed within 1m of the receiver in an ordinary office.)



② Correlation between illuminance at the receiver and reachable area of the signal in a plain view.

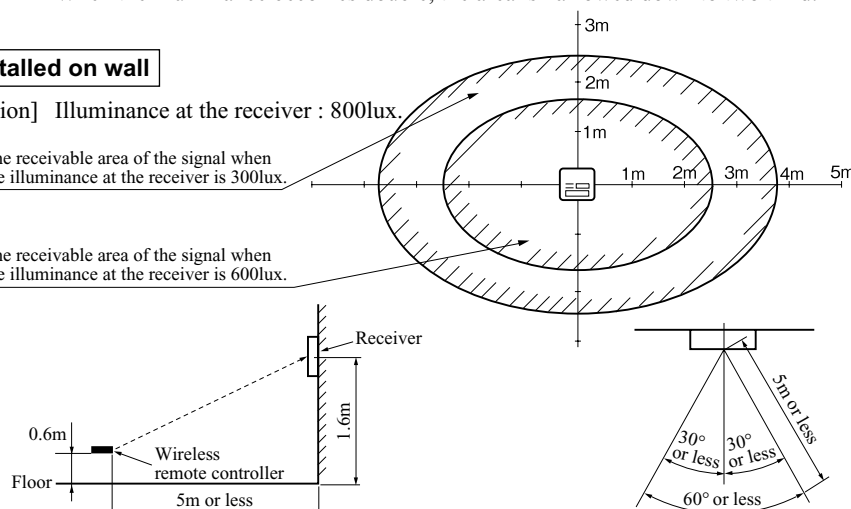
[Condition] Correlation between the reachable area of the signal and illuminance at the receiver when the remote controller is operated at 1.1m high under the condition of ceiling height of 2.5m.
When the illuminance becomes double, the area is narrowed down to two third.

(b) When installed on wall

[Condition] Illuminance at the receiver : 800lux.

The receivable area of the signal when the illuminance at the receiver is 300lux.

The receivable area of the signal when the illuminance at the receiver is 600lux.



(4) How to install the receiver

The following two methods can be used to install the receiver onto a ceiling or a wall.

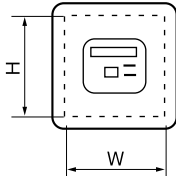
Select a method according to the installation position.

<Installation position>

- ① Direct installation onto the ceiling with wood screws.
- ② Installation with accessory's bracket

(a) Drilling of the ceiling (ceiling opening)

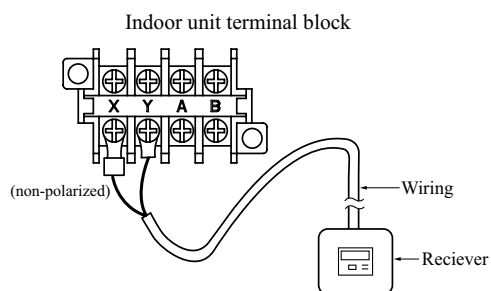
Drill the receiver installation holes with the following dimensions at the ceiling position where wires can be connected.

(A) Direct installation onto the ceiling with wood screws.	88mm (H) × 101mm (W)	
(B) Installation with enclosed bracket.	108mm (H) × 108mm (W)	

(b) Wiring connection of receiver

[Caution] Do not connect the wiring to the power source of the terminal block.

If it is connected, printed board will be damaged.

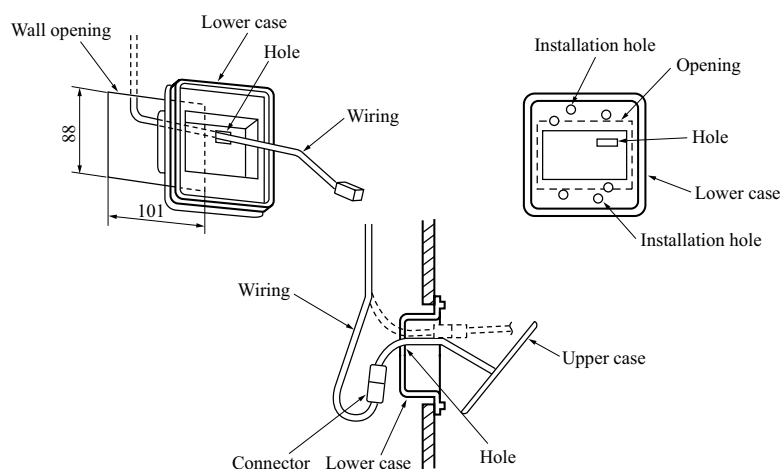


(c) Installation of the receiver

Remove the screw on the side of the receiver and split it into the upper case and lower case. Install the receiver with one of the two installation methods (A) or (B) shown below.

(I) Direct installation onto the ceiling with screws

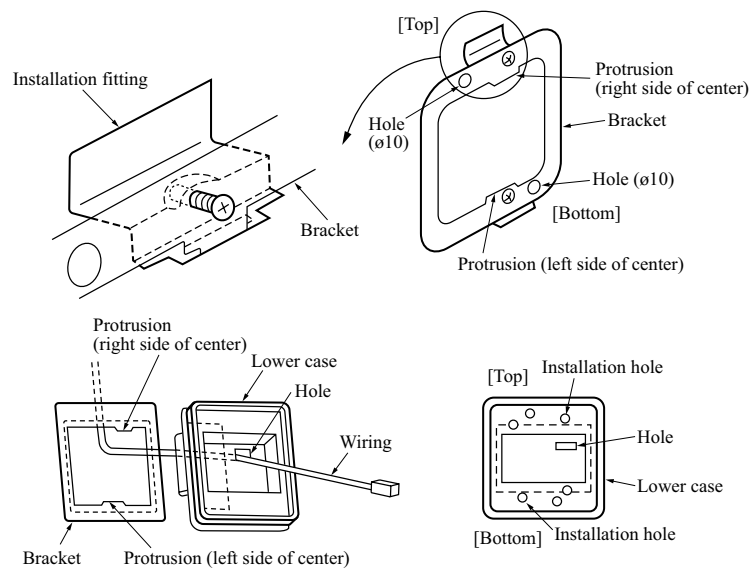
- ▷ Use this installation method when the ceiling is wooden, and there is no problem for strength in installing directly with wood screws.



- ① Put through the wiring from the back side to the hole of the lower case.
- ② Fit the lower case into the ceiling opening. Make sure that the clearance between the convex part of the back of the lower case and the ceiling opening must be as equal as possible on both sides.
- ③ Using the two installation holes shown above, fix the lower case onto the ceiling with the enclosed wood screws. (The other four holes are not used.)
- ④ Connect the wiring with the wiring from the upper case by the connector.
- ⑤ Take out the connector to the backside from the hole of the lower case putting through the wiring at ①.
- ⑥ Fit the upper case and the lower case, and tighten the screws.

(II) Installation with enclosed bracket

▷ Use this method when installaing onto a gypsum board (7 to 18mm), etc.



- ① Catch the two protrusion of the enclosed bracket onto the fitting as shown above, and temporarily fix with the screws. (The bracket has an up/down and front/back orientation. Confirm the top/bottom protrusion positions and the positional relation of the ø 10 holes on the bracket and the installation hole on the lower case with the above drawing.)
- ② Insert the end of the installation fitting into the back of the ceiling from the opening, and tighten the screws to fix the bracket onto the ceiling.
- ③ Pass the wiring from the rear side through the hole on the lower case.
- ④ Fit the lower case onto the bracket, and fix the lower case to the bracket using the two installation holes shown above. (The other four holes are not used.)
- ⑤ Follow step ① to ⑥ for (A) to complete the installation.

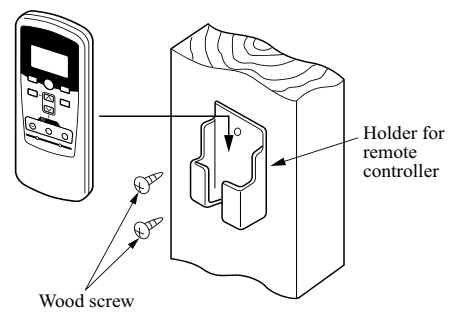
(5) Remote controller

Installation of the controller holder

Caution

DO NOT install it on the following places

1. Places exposed to direct sunlight
2. Places near heat devices
3. High humidity places
4. Hot surface or cold surface enough to generate condensation
5. Places exposed to oil mist or steam directly
6. Uneven surface

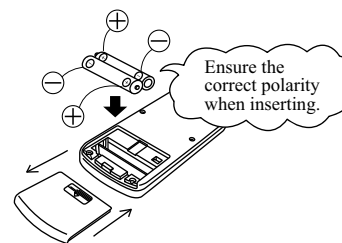


Installation tips for the remote controller holder

- Adjust and keep the holder upright.
- Tighten the screw to the end to avoid scratching the remote controller.
- DO NOT attach the holder to plaster wall.

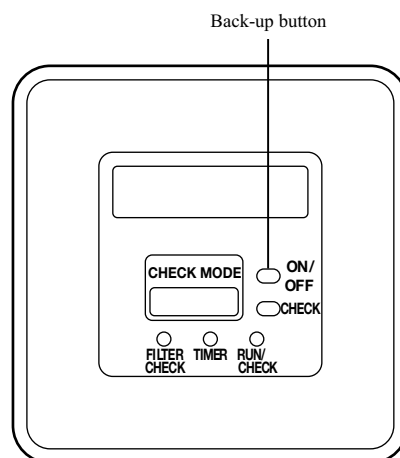
How to insert batteries

- ① Detach the back lid.
- ② Insert the batteries. (two AAA batteries)
- ③ Reattach the back lid.



(6) Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with wireless remote controller, while the backup button on the receiver is pressed.
- If the backup button on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check by consulting with inspection guides on the wiring diagram of outdoor units.



(7) Setting of wireless remote controller and receiver

(I) Methods of avoiding the malfunction due to the mixed communication

Do both procedures ① and ②.

This setting is to avoid the mixed communication with other household electric appliances or the mixed communication when two receivers are located closely.

① Setting change of the wireless remote controller

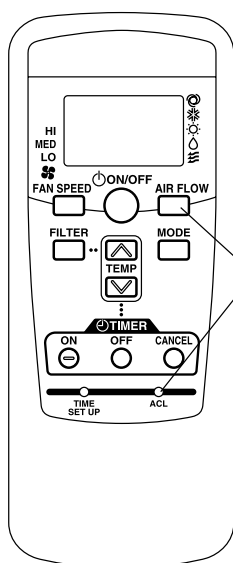
Pressing **ACL** and **AIRFLOW** button at the same time or inserting the batteries with pressing **AIRFLOW** button will customize the signal.

Note *When the batteries are removed, the setting will return to the default setting. Make sure to reset it when the batteries are replaced.

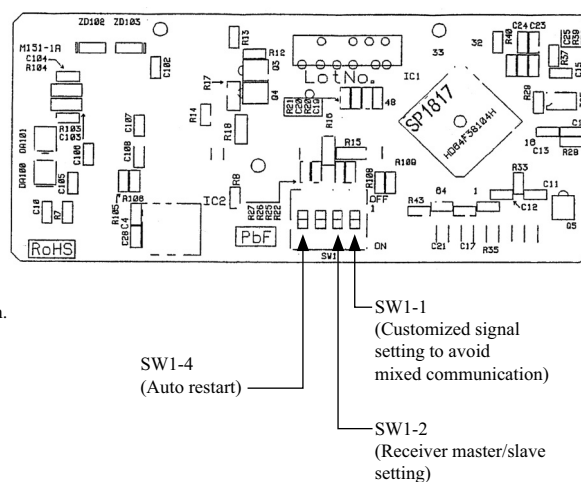
② Setting the PCB of the receiver

Turn SW1-1 off.

● Wireless remote controller



● PCB of the receiver



SW1-1	Customized signal setting to avoid mixed communication	ON : Normal OFF : Remote
SW1-2	Receiver master/slave setting	ON : Master OFF : Slave
SW1-4	Auto restart	ON : Valid OFF : Invalid

☐ : Default setting

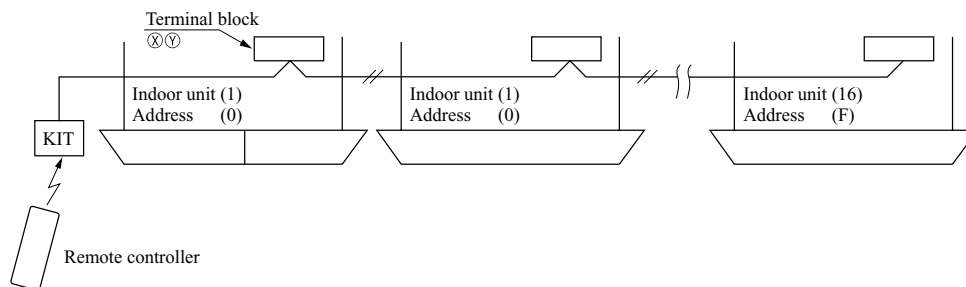
(II) Control plural indoor units with one remote controller

Up to 16 indoor units can be connected.

- ① Connect the XY terminal with 2-core wire. As for the size, refer to the following note.
- ② For Packaged air conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire
(Maximum total extension 600m.)

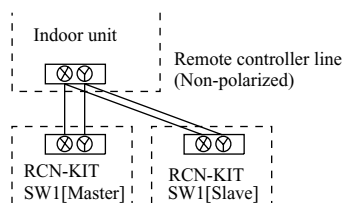
Standard	Within 100m x 0.3 mm ²
	Within 200m x 0.5 mm ²
	Within 300m x 0.75mm ²
	Within 400m x 1.25mm ²
	Within 600m x 2.0 mm ²



- ③ For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.

(III) Master/Slave setting when using plural remote controller

Up to two receivers can be installed in one indoor unit group.



Switch	Setting	Function
SW1-2	ON	Master
	OFF	Slave

(IV) Change setting of auto mode operation

Auto mode operation is prohibited to be selected for KX models (except for KXR models).

Therefore be sure to change setting of remote controller to disable the auto mode operation for these models according to the following procedure.

While pressing the **[MODE]** button, press the **[ACL]** switch, or while pressing the **[MODE]** button, insert the batteries to the remote controller. Then the auto mode can be invalid.

Attention

When the batteries are removed, it is returned to initial setting (Auto mode becomes valid).

Accordingly when replacing the batteries, be sure to perform the above operation once again.

(V) Change setting of fan speed

While pressing the **[FAN SPEED]** button, press the **[ACL]** switch, or while pressing the **[FAN SPEED]** button, insert the batteries to the remote controller. Then the fan speed can be changed from 2-speed setting to 3-speed setting.

When changing fan speed setting of remote controller, be sure to perform the same fan speed setting as that of the indoor unit model to be used.

Attention

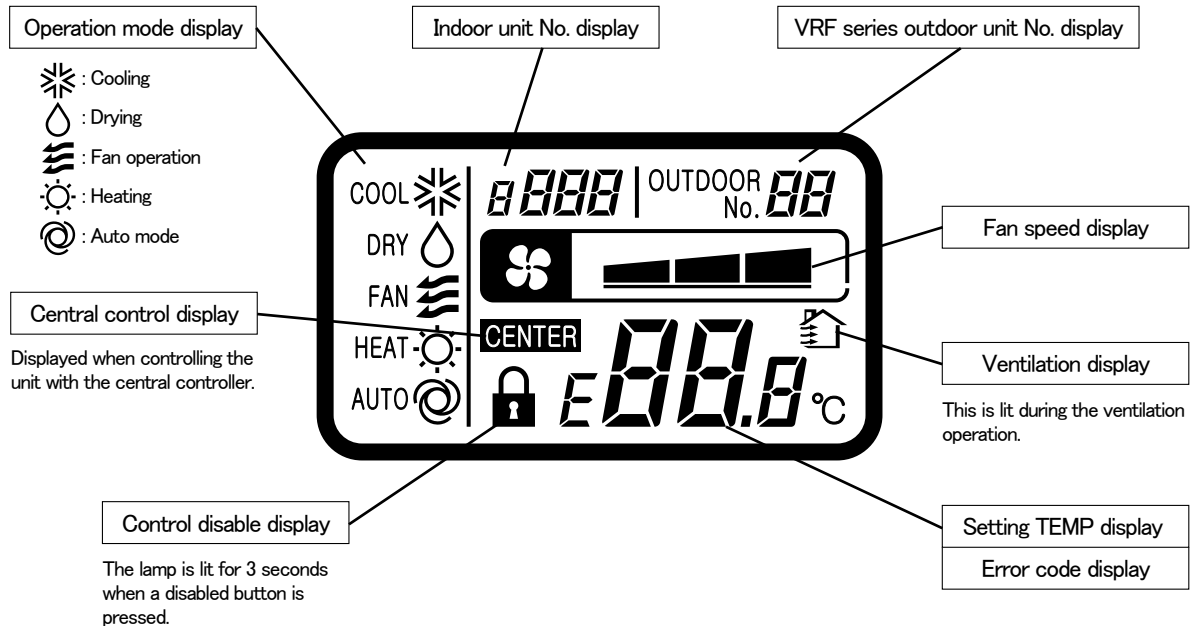
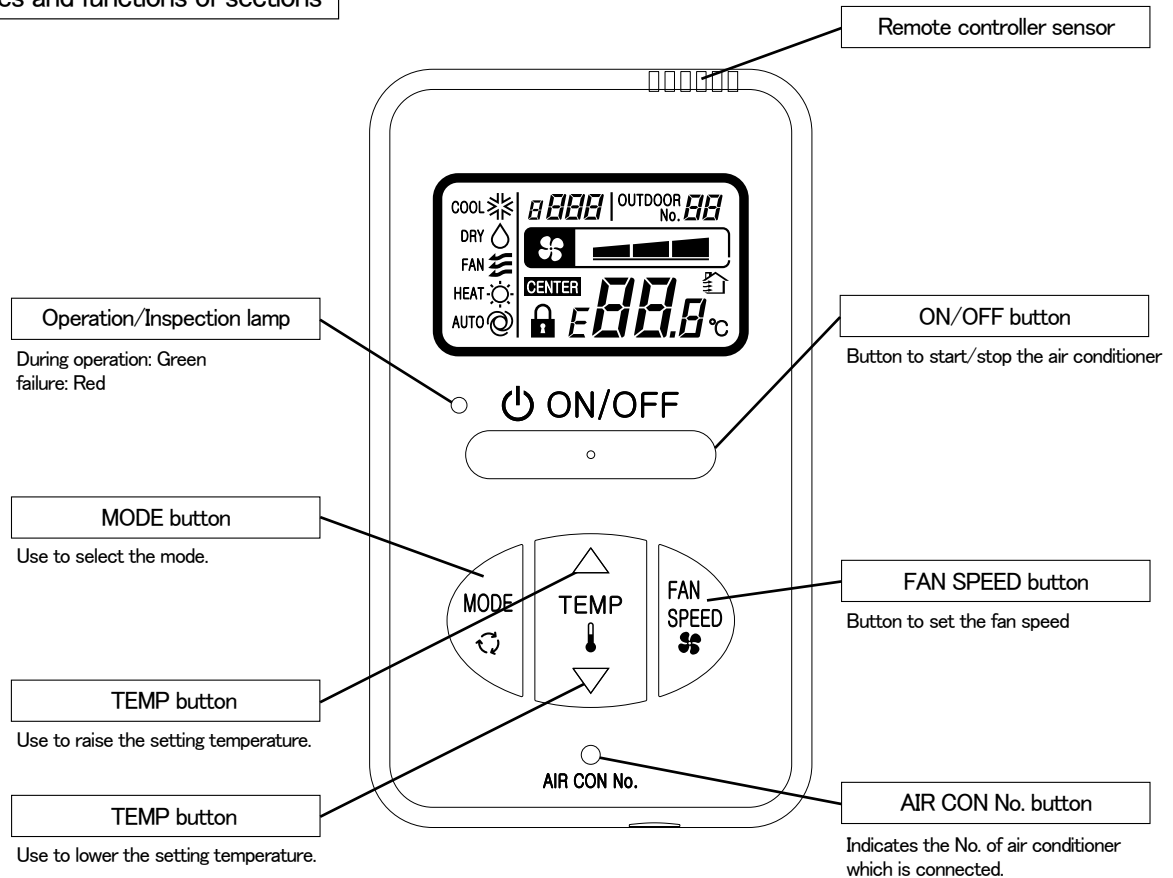
When the batteries are removed, it is returned to initial setting (Fan speed setting is 2-speed).

Accordingly when replacing the batteries, be sure to perform the above operation once again.

8.2 Simple wired remote controller (RCH-E3)

Models RCH-E3

Names and functions of sections



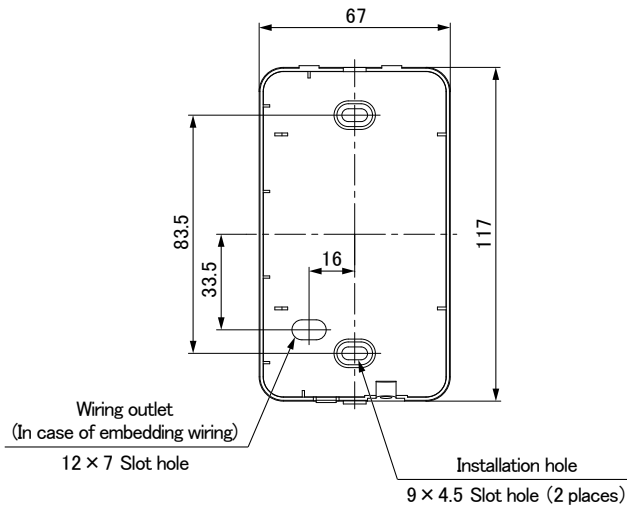
Installation of remote controller

DO NOT install the remote controller at the following places in order to avoid malfunction.

- (1) Places exposed to direct sunlight
- (2) Places near heat devices
- (3) High humidity places
- (4) Hot surface or cold surface enough to generate condensation
- (5) Places exposed to oil mist or steam directly
- (6) Uneven surface

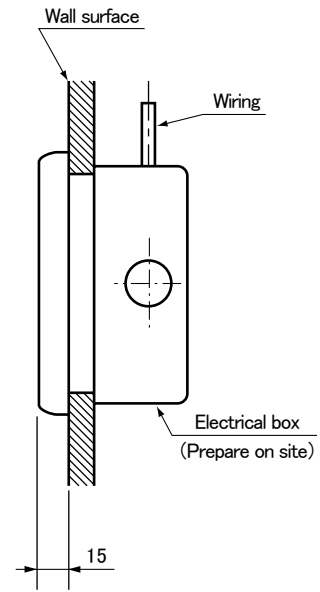
PJZ000Z272

Remote control installation dimensions

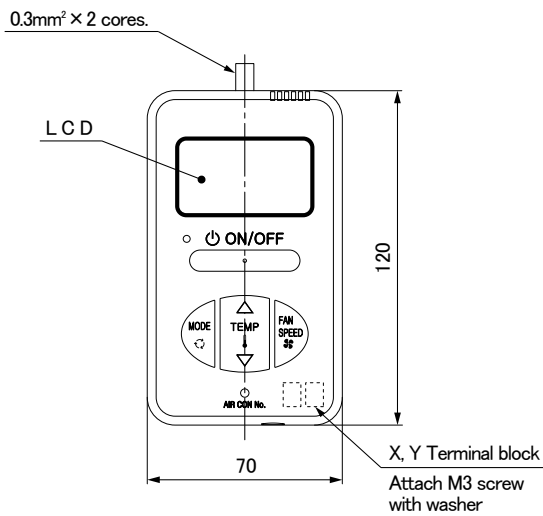


Note: Installation screw for remote controller
M4 Screw (2 pieces)

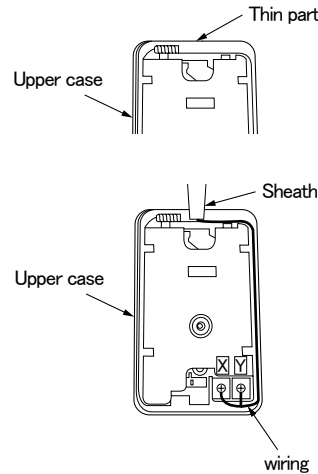
In case of embedding wiring



In case of exposing wiring

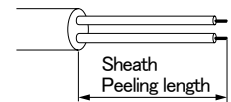


The remote controller wiring can be extracted from the upper center.
After the thin part in the upper side of the remote controller upper
case is scraped with a nipper or knife, remove burr with a file.



The peeling length of each wiring is as follows:

X wiring : 160mm
Y wiring : 150mm



Wiring specifications

- (1) Wiring of remote controller should use 0.3mm² × 2 core wires or cables. (on-site configuration)
- (2) Maximum prolongation of remote controller wiring is 600m.

If the prolongation is over 100m, change to the size below.

But, the wiring in the remote controller case should be 0.3mm² (recommended) to 0.5mm².

Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

Unit:mm

Length	Wiring thickness
100 to 200m	0.5mm² × 2 cores
Under 300m	0.75mm² × 2 cores
Under 400m	1.25mm² × 2 cores
Under 600m	2.0mm² × 2 cores

Adapted to **RoHS** directive

Simple Remote Controller Installation Manual

PJZ012D069

Read together with indoor unit's installation manual.

WARNING

- **Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.**



- **Make sure the power supply is turned off when electric wiring work.**



CAUTION

- **DO NOT install the remote controller at the following places in order to avoid malfunction.**

- | | |
|---------------------------------------|---|
| (1) Places exposed to direct sunlight | (4) Hot surface or cold surface enough to generate condensation |
| (2) Places near heat devices | (5) Places exposed to oil mist or steam directly |
| (3) High humidity places | (6) Uneven surface |



- **DO NOT leave the remote controller without the upper case.**

In case the upper case needs to be detached, protect the remote controller with a packaging box or bag in order to keep it away from water and dust.

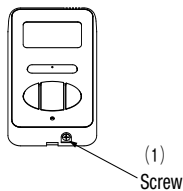


Accessories	Remote controller, wood screw (φ 3.5×16) 2 pieces
Prepare on site	Remote controller cord (2 cores) (Refer to [2. Installation and wiring of remote controller]) [In case of embedding cord] Electrical box, M4 screw (2 pieces) [In case of exposing cord] Cord clamp (if needed)

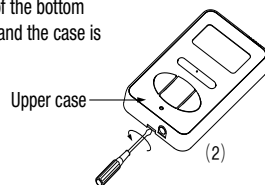
1. Installation procedure

In case of embedding cord

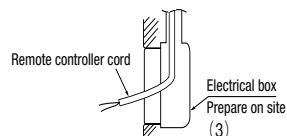
- (1) **Make certain to remove** the screw on the bottom surface of the remote controller.



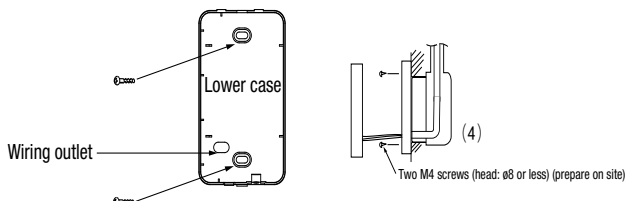
- (2) Remove the upper case of the remote controller.
Insert a flat-blade screwdriver to a concave portion of the bottom surface of the remote controller and slightly twist it, and the case is removed.



- (3) Pre-bury the electrical box and remote controller cord.



- (4) Prepare two M4 screws (recommended length: 12 – 16mm), and install the lower case to the electrical box. Do not use a screw whose screw head is larger than the height of the wall around the screw hole.

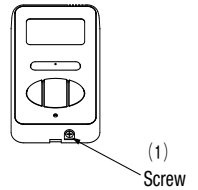


- (5) Connect the remote controller cord to the terminal block.
Connect the terminals (X and Y) of the remote controller and the terminals (X and Y) of the indoor unit. (No polarity of X and Y)

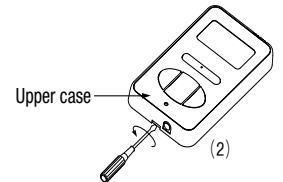
- (6) Mount the upper case for restoring to its former state so as not to crimp the remote controller cord, and secure with the removed screw.

In case of exposing cord

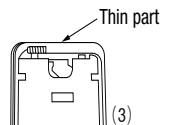
- (1) **Make certain to remove** a screw on the bottom surface of the remote controller.



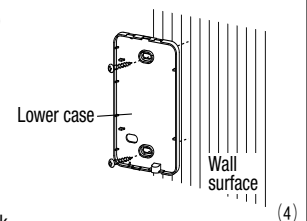
- (2) Remove the upper case of the remote controller.
Insert a flat-blade screwdriver to a concave portion of the bottom surface of the remote controller and slightly twist it, and the case is removed.



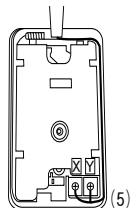
- (3) The remote controller cord can be extracted from the upper center.
After the thin part in the upper side of the remote controller upper case is scraped with a nipper or knife, remove burr with a file.



- (4) The lower case of the remote controller is mounted to a flat wall with two accessory wood screws.



- (5) Connect the remote controller cord to the terminal block.
Connect the terminals (X and Y) of the remote controller and the terminals (X and Y) of the indoor unit. (No polarity of X and Y)
The wiring route is as shown in the right.

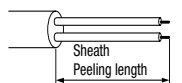


The wiring in the remote controller case should be 0.3 mm² (recommended) to 0.5 mm² at maximum.

Further, peel off the sheath.

The peeling length of each wiring is as follows:

X wiring : 160mm
Y wiring : 150mm



- (6) Mount the upper case for restoring to its former state so as not to crimp the remote controller cord, and secure with the removed screw.

- (7) In the case of exposing installation, secure the remote controller cord to the wall surface with a cord clamp so as not to loosen the remote controller cord.

2. Installation and wiring of remote controller

- (1) Wiring of remote controller should use 0.3mm² × 2 core wires or cables. (on-site configuration)
- (2) Maximum prolongation of remote controller wiring is 600 m.

If the prolongation is over 100m, change to the size below.

But, the wiring in the remote controller case should be 0.3mm² (recommended) to 0.5mm².

Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

100 - 200m 0.5mm² × 2 cores

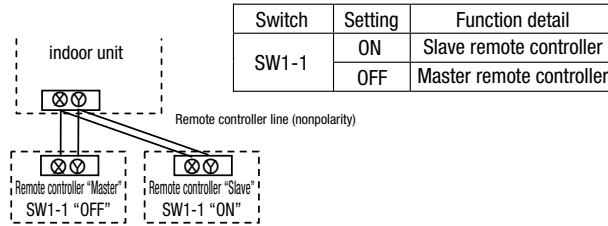
Under 300m 0.75mm² × 2 cores

Under 400m 1.25mm² × 2 cores

Under 600m 2.0mm² × 2 cores

3. Master/ slave setting when more than one remote controller are used

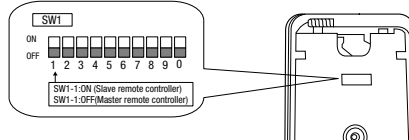
- (1) Up to two remote controllers can be connected to one unit (or one group) of indoor unit.



- (2) Set the switch SW1-1 of the slave remote controller is "Slave" (ON). The factory default is set as "Master" (OFF).

(Note) • The remote controller thermistor enabled setting can be set only to the master remote controller.

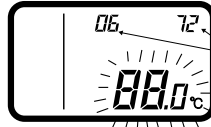
- Install the master remote controller at the position to detect room temperature.
- The air conditioner operation follows the last operation of the remote controller in case of the master / slave setting.



4. The indication when power source is supplied

- (1) At the time of turning the power source on, after the light is on for the first 2 seconds, the display becomes as shown below.

The number displayed on the upper side of LCD in the remote control is the software number, and this is not an error code.



Software number
(The number in the left is one example. Another number may be shown.)

- (2) Then, "88.0 °C" blinks on the remote controller until the communication between the remote controller and the indoor unit is established.
- (3) In the case of connecting one remote controller with one unit (or one group) of indoor unit, make certain to set the master remote controller (factory default). If the slave remote control is set, a communication cannot be established.
- (4) If a state where the communication between the remote controller and the indoor unit cannot be established continues about for 30 minutes, "E" is displayed. Confirm the wiring of the indoor unit and the outdoor unit and master/slave setting of the remote controller.



5. Confirmation method for return air temperature

Return air temperature can be confirmed by the remote controller operation.

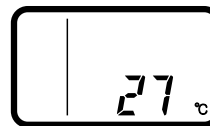
- (1) Press **AIR CON NO.** button for over 5 seconds.

"88" blinks on the temperature setting indicator.
("88" blinks for approximately 2 seconds while data is read.)

Then, the return air temperature is displayed.

(Example) return air temperature: "27 °C" (blinking)

(Note) For the return air temperature, in the normal case, the return air temperature of the indoor unit is displayed; however, in the case that the remote control thermistor is effective, detected temperature by the remote controller thermistor is displayed.



- (2) Press **ON/OFF** button.
End.

[In the case that the remote thermistor is ineffective and plural indoor units are connected to one remote controller]

- (1) Press **AIR CON NO.** button for over 5 seconds.

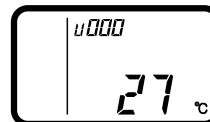
indoor unit No. indicator: "U 000" (blinking)
(Among the connected indoor units, the lowest number is displayed.)

- (2) Press **TEMP△** or **TEMP▽** button.
Select the indoor unit No.

- (3) Press **MODE** button.
Decider the indoor unit No.

(Example) indoor unit No. indicator: "U 000"

"88" blinks on the temperature setting indicator. (blinking for approximately 2 to 10 seconds while data is read) Then, the return air temperature is displayed. When **AIR CON NO.** is pressed, return to the indoor unit selection display (example, "U 000").



- (4) Press **ON/OFF** button.
End.

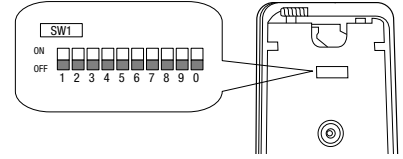
6. Function setting

Each function of the remote controller and the indoor unit is automatically set to the initial setting, which is the standard use, on the occasion of connecting the remote controller with the indoor unit. In the case of the standard use, the setting change is unnecessary. However, if you would like to change the initial setting "○", change the setting for only the item of the function number. **Record the setting contents and stored them.**

(1) Function setting item by switch on PCB

Switch No.	Setting	Setting detail	Initial setting
SW1-1	ON	Slave remote controller	
	OFF	Master remote controller	○
SW1-2	ON	Remote controller thermistor enabled	
	OFF	Remote controller thermistor disabled	○
SW1-3	ON	"MODE" button prohibited	
	OFF	"MODE" button enabled	○
SW1-4	ON	"ON/OFF" button prohibited	
	OFF	"ON/OFF" button enabled	○

Switch No.	Setting	Setting detail	Initial setting
SW1-5	ON	"TEMP" button prohibited	
	OFF	"TEMP" button enabled	○
SW1-6	ON	"FAN SPEED" button prohibited	※ Note 1
	OFF	"FAN SPEED" button enabled	※ Note 1
SW1-7	ON	Auto restart function enabled	
	OFF	Auto restart function disabled	○
SW1-8, 9, 0	ON	Not used	
	OFF	Not used	



- As for the slave remote controller, function setting is impossible other than SW1-1.
- In the indoor unit with only one fan speed, "FAN SPEED" button cannot be enabled.

(2) Function setting item by button operation

Classification	Function No.	Function	Setting No.	Setting	Initial setting	Remarks
Remote controller function	01	Indoor unit fan speed	01	Fan speed: three steps	※ Note 1	The fan speed is three steps, ■■■ - ■■ - ■.
			02	Fan speed: two steps (Hi-Lo)	※ Note 1	The fan speed is two steps, ■■■ - ■.
			03	Fan speed: two steps (Hi-Me)		The fan speed is two steps, ■■■ - ■■.
			04	Fan: one step	※ Note 1	The fan speed is fixed to one step.
	03	Remote controller thermistor at the time of cooling	01	Remote controller thermistor: no offset	○	
			02	Remote controller thermistor: +3.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at +3.0°C.
			03	Remote controller thermistor: +2.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at +2.0°C.
			04	Remote controller thermistor: +1.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at +1.0°C.
			05	Remote controller thermistor: -1.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at -1.0°C.
			06	Remote controller thermistor: -2.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at -2.0°C.
			07	Remote controller thermistor: -3.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at -3.0°C.
	04	Remote controller thermistor at the time of heating	01	Remote controller thermistor: no offset	○	
			02	Remote controller thermistor: +3.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at +3.0°C.
			03	Remote controller thermistor: +2.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at +2.0°C.
			04	Remote controller thermistor: +1.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at +1.0°C.
			05	Remote controller thermistor: -1.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at -1.0°C.
			06	Remote controller thermistor: -2.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at -2.0°C.
			07	Remote controller thermistor: -3.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at -3.0°C.
Indoor unit function	05	Ventilation setting	01	No ventilator connection	○	
			02	Ventilator links air-conditioner		In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit board), the operation of ventilation device is linked with the operation of indoor unit.
	06	"Auto" operation setting	01	"Auto" operation enabled	※ Note 1	
			02	"Auto" operation disabled	※ Note 1	"Auto" operation disabled
	07	Operation permission/prohibition	01	Disabled	○	
			02	Enabled		Operation permission/prohibition controller is enabled.
	08	External input	01	Level input	○	
			02	Pulse input		
	09	Fan speed setting	01	Standard	Note2	
			02	High speed 1	Note2	
			03	High speed 2	Note2	
	10	Fan remaining operation at the time of cooling	01	No remaining operation	○	After cooling stopped, no fan remaining operation
			02	0.5 hours		After cooling stopped, fan remaining operation for 0.5 hours
			03	1 hour		After cooling stopped, fan remaining operation for 1 hour
			04	6 hours		After cooling stopped, fan remaining operation for 6 hours
	11	Fan remaining operation at the time of heating	01	No remaining operation	○	After heating stopped or after heating thermostat OFF, no fan remaining operation
			02	0.5 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 0.5 hours
			03	2 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 2 hours
			04	6 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 6 hours
	12	Setting temperature offset at the time of heating	01	No offset	○	
			02	Setting temperature offset + 3.0 °C		The setting temperature at the time of heating is offset by +3.0 °C.
			03	Setting temperature offset + 2.0 °C		The setting temperature at the time of heating is offset by +2.0 °C.
			04	Setting temperature offset + 1.0 °C		The setting temperature at the time of heating is offset by +1.0 °C.
	13	Heating fan controller	01	Low fan speed	※ Note 1	At the time of heating thermostat OFF, operate with low fan speed.
			02	Setting fan speed		At the time of heating thermostat OFF, operate with the setting fan speed.
			03	Intermittent operation	※ Note 1	At the time of heating thermostat OFF, intermittently operate.
			04	Fan off		At the time of heating thermostat OFF, a fan will be stopped. When the remote controller thermistor is enabled, automatically set to "Fan off". Do not set at the time of the indoor unit thermistor.
	14	Return air temperature offset	01	No offset	○	
			02	Return air temperature offset +2.0 °C		Offset the return air temperature of the indoor unit by +2.0 °C.
			03	Return air temperature offset +1.5 °C		Offset the return air temperature of the indoor unit by +1.5 °C.
			04	Return air temperature offset +1.0 °C		Offset the return air temperature of the indoor unit by +1.0 °C.
			05	Return air temperature offset -1.0 °C		Offset the return air temperature of the indoor unit by -1.0 °C.
			06	Return air temperature offset -1.5 °C		Offset the return air temperature of the indoor unit by -1.5 °C.
			07	Return air temperature offset -2.0 °C		Offset the return air temperature of the indoor unit by -2.0 °C.

Note 1: The symbol "※" in the initial setting varies depending upon the indoor unit and the outdoor unit to be connected, and this is automatically determined as follows:

Switch No. Function No.	Function	Setting	Product model
SW1-6	"FAN SPEED" button	"FAN SPEED" button prohibited	Product model whose indoor fan speed is only one step
		"FAN SPEED" button enabled	Product model whose indoor fan speed is two steps or three steps
Remote controller function 01	Indoor unit fan speed	Fan speed: three steps	Product model whose indoor unit fan speed is three steps
		Fan speed: two steps (Hi-Lo)	Product model whose indoor unit fan speed is two steps
		Fan speed: two steps (Hi-Me)	
		Fan: one step	Product model whose indoor unit fan speed is only one step
Remote controller function 06	"Auto" operation setting	"Auto" operation enabled	Product model where "Auto" mode is selectable
		"Auto" operation disabled	Product model without "Auto" mode
Indoor unit function 13	Heating fan control	Low fan speed	Product model except FDUS
		Intermittent operation	FDUS

Note 2: Fan speed of "High speed" setting

Fan speed setting	Indoor unit fan speed setting		
	■■■ - ■■ - ■	■■■ - ■	■■■ - ■■
Standard	Hi — Mid — Lo	Hi — Lo	Hi — Mid
High speed 1・2	UHi — Hi — Mid	UHi — Mid	UHi — Hi

Initial setting of some indoor unit is "High speed".

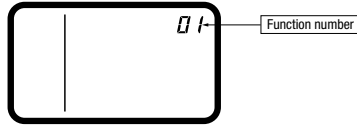
Note 3: As for plural indoor unit, set indoor functions to each master and slave indoor unit.

But only master indoor unit is received the setting change of indoor unit function "07 Operation permission/prohibition" and "08 External input".

7. How to set functions by button operation

- (1) Stop air-conditioning, and simultaneously press **AIR CON NO.** and **MODE** buttons at the same time for over three seconds.

The function number "01" blinks in the upper right.

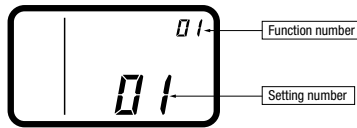


- (2) Press **TEMP▲** or **TEMP▼** button.
Select the function number.

- (3) Press **MODE** button.
Decide the function number.

- (4) [In the case of selecting the remote controller function (01-06)]

- ① The current setting number of the selected function number blinks
(Example)
Function number: "01" (lighting)
Setting number: "01" (blinking)



- ② Press **TEMP▲** or **TEMP▼** button.
Select the setting number.

- ③ Press **MODE** button.

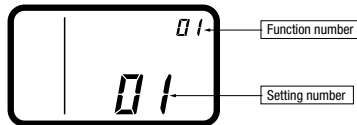
The setting is completed.

Light is on for approximately 3 to 20 seconds while data of the decided function No. and setting No. is transmitted.

(Example)

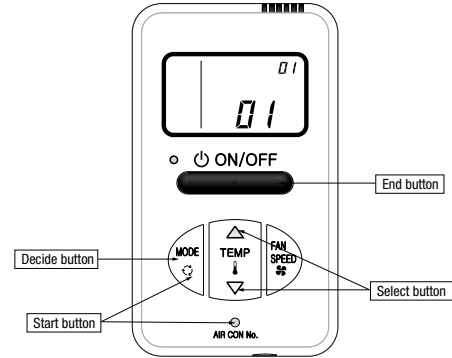
Function number: "01" (lighting for 3 to 20 seconds)

Setting number: "01" (lighting for 3 to 20 seconds)



Then, the screen goes back to the function number blinking indication (1), if the setting is sequentially conducted, continue with the same procedures. If the setting is finished, proceed to (5).

- (5) Press **ON/OFF** button.
The setting is completed.



- [In the case of selecting the indoor unit function (07-14)]

- ① "88" blinks on the temperature setting indicators.

(blinking for approximately 2 to 10 seconds while data is read)

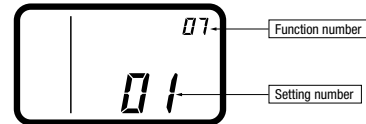


After that, the current setting number of the selected function number blinks.

(Example)

Function number: "07" (lighting)

Setting number: "01" (blinking)



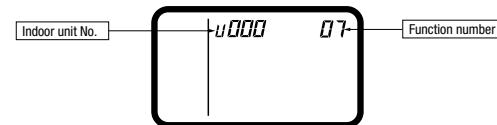
Proceed to ②.

[Note]

- a. In the case of connecting one remote control to plural indoor units, the display will be as follows:

Indoor unit No. display: "U 000" (blinking)

(Display the lowest number among the connected indoor units.)



- b. Press **TEMP▲** or **TEMP▼** button.

Select the indoor unit No. to be set.

If "U ALL" is selected, the same setting can be set to all units.

- c. Press **MODE** button.

Decide the indoor unit No.

"88" blinks on the temperature setting indicators. (blinking for 2 to 10 seconds while data is read)

When **AIR CON NO.** button is pressed, go back to the indoor unit selection display (for example, "U 000" blinking).

- ② Press **TEMP▲** or **TEMP▼** button.
Select the setting number

- ③ Press **MODE** button.

The setting is completed.

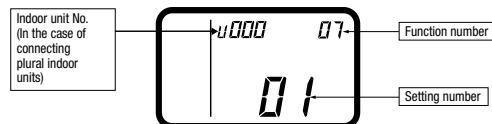
Light is on for approximately 3 to 20 seconds while data of the decided function No. and setting No. is transmitted.

(Example)

Indoor unit No.: "U 000" (lighting for 3 to 20 seconds)

Function number: "07" (lighting for 3 to 20 seconds)

Setting number: "01" (lighting for 3 to 20 seconds)



Then, the screen goes back to the function number blinking indication (1), if the setting is sequentially conducted, continue with the same procedures. If the setting is finished, proceed to (5).

- Even if **ON/OFF** button is pressed during setting, the setting is ended. However, any details where the setting has not been completed will be ineffective.
- The setting contents are stored in the controller, and even if the power failure occur, this will not be lost.

[Confirmation method for current setting]

According to the operation, the "setting number" displayed first after selecting "function number" and pressing **MODE** button is the currently set content. (However, in the case of selecting "U ALL" (all units), the setting number of the lowest number among the indoor units is displayed.)

8.3 Fan controller kit for high static pressure duct. (U-FCRA)

The way of installing the optional fan controller for high static pressure ducts. Install the controller in accordance with the following procedure.

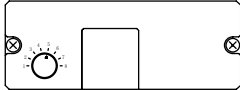
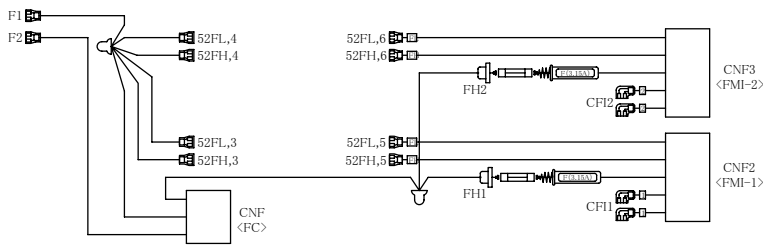
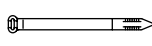
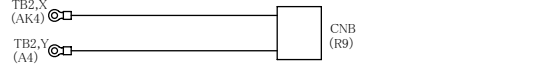

⚠ WARNING

- ① Consult your dealer for the installation of the controller.
- ② Only qualified electrician must install the controller.
- ③ Remove the control box before the installation.
Before installing the product, take it out from the package and place it on the floor.
- ④ Be sure to turn off the power supply during installation.
Unless the above precautions are observed, it could cause electrical shocks or fire.

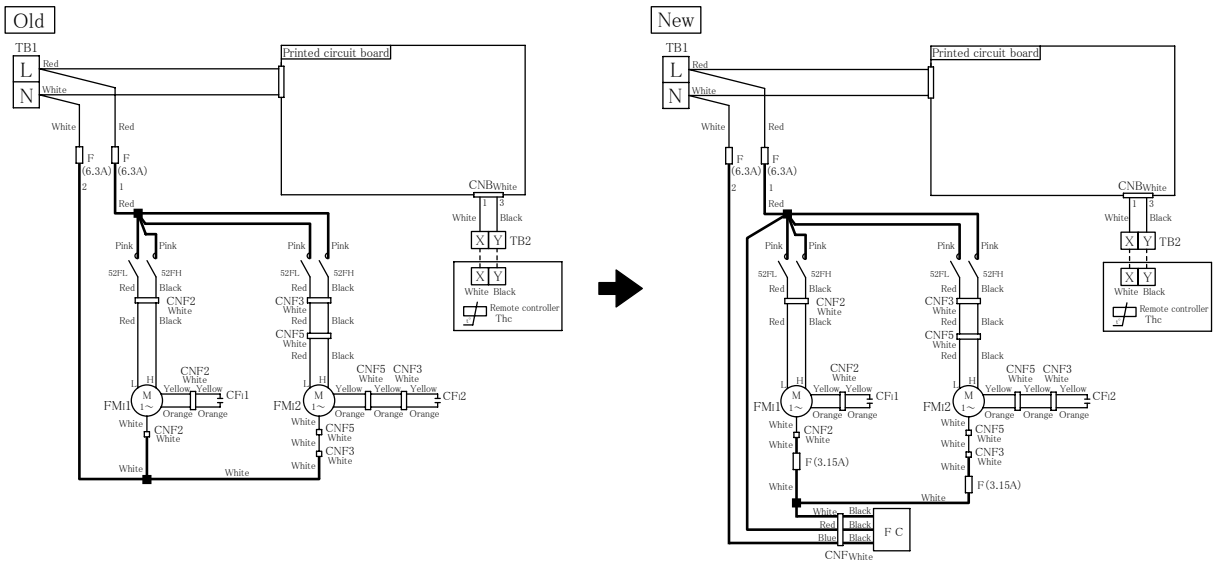
1) Applicable models and corresponding fan controller kit

Model	FDU224,280KXE6
Fan controller kit	U-FCRA

2) Component parts list

Fan controller	Wiring A
 1 piece	
Band	Wiring B
 ① (L=92) : 5 pieces	
Tapping screw	
 (M3 : 2 pcs.) 2 pieces	

3) Electric circuit diagram (Change the sections indicated with bald lines.)



PJD012D049

<Precautions for wiring>

- Connect wires correctly as shown by the electric wiring diagram. Be sure to tighten set screws firmly to prevent them generating heat or causing other troubles after becoming loose.
- Number of wires connected to the terminal block must be 2 wires or less. Never connect 3 or more wires in any event.

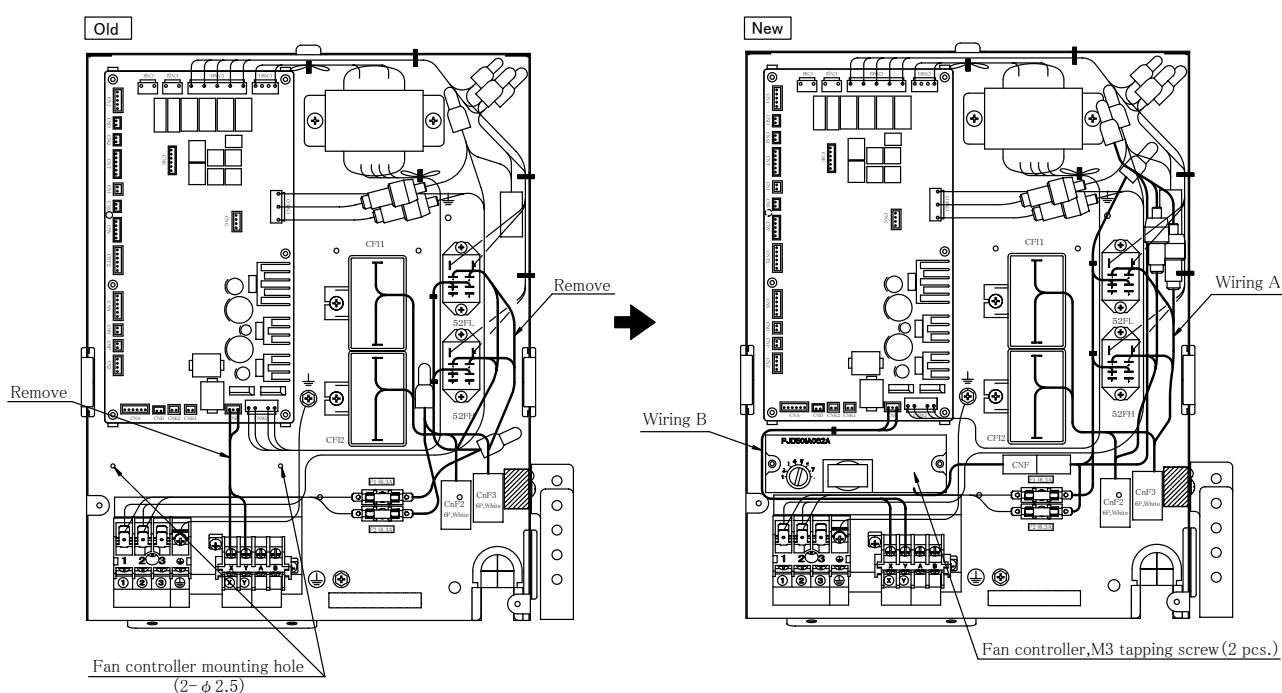
4) Installation procedure

- a) Remove the lid from the control box.
- b) Remove the wiring (fuse~CNF2,3) and wiring(TBⓧⓎ~CNB).



Confirm that electricity has been discharged before touching the capacitor terminals. There is risk of electric shocks.

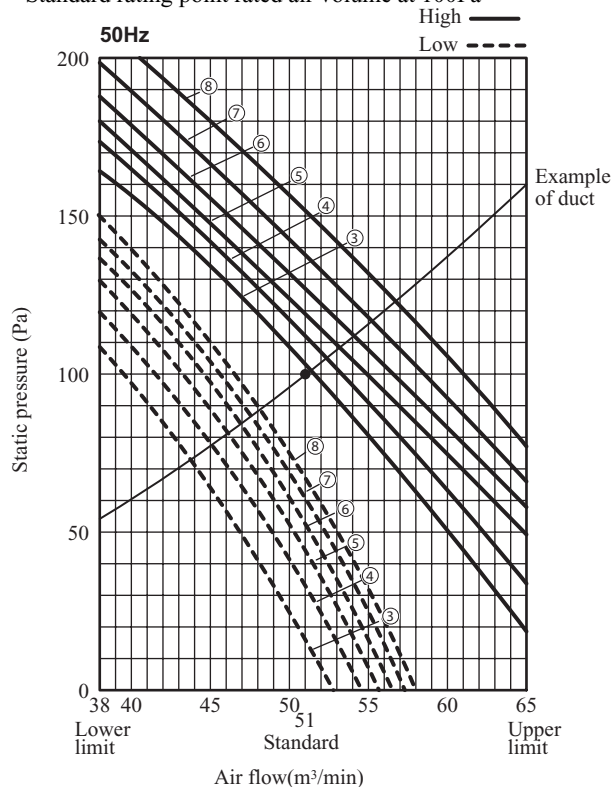
- c) Install the fan controller.
- d) Referring to “3) Electric circuit diagram”, connect wires as illustrated and fix with bands ⓐ.
- e) Reinstall the removed lid on the control box.



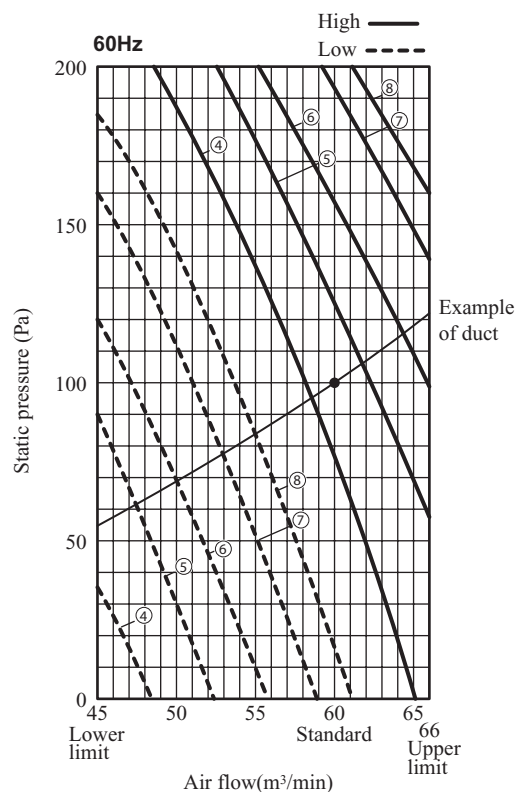
Characteristics of fan

Model FDU224KXE6

•Standard rating point rated air volume at 100Pa



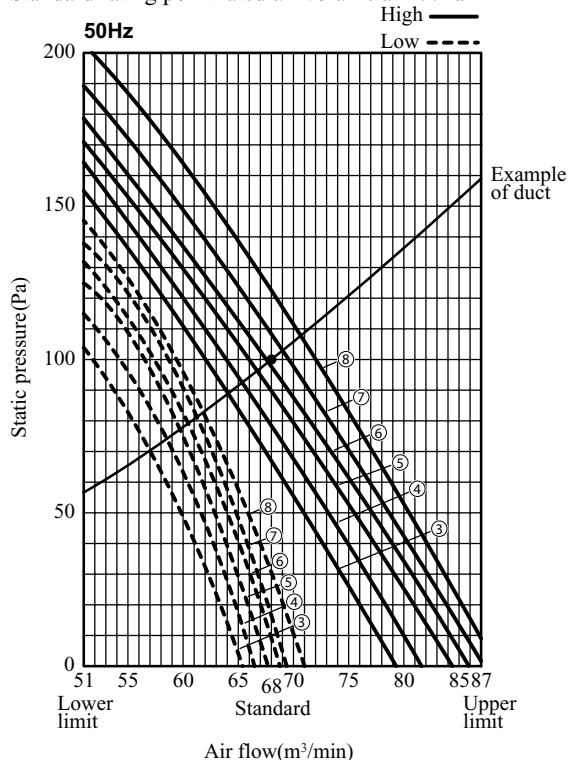
Note (1) Nos. ②, ① of fan controller should not be used because the fan motor could produce electromagnetic noise.



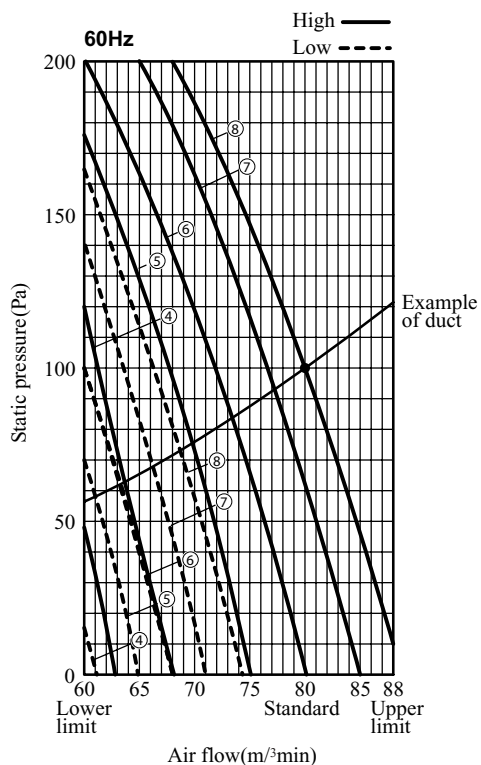
Note (1) Nos. ③, ② and ① of fan controller should not be used because the fan motor could produce electromagnetic noise.

Model FDU280KXE6

•Standard rating point rated air volume at 100Pa



Note (1) Nos. ②, ① of fan controller should not be used because the fan motor could produce electromagnetic noise.



Note (1) Nos. ③, ② and ① of fan controller should not be used because the fan motor could produce electromagnetic noise.

VRF INVERTER MULTI-SYSTEM AIR CONDITIONERS **(HEAT RECOVERY 3-PIPE SYSTEMS)**



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Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice.