

Manual No.'13•SCM-T-136 updated June 13 ,2013

# **TECHNICAL MANUAL**

# INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR CONDITIONERS

(Split system, air to air heat pump type)

# (OUTDOOR UNIT)

S

SCM71ZJ-S1
80ZJ-S1
100ZJ-S1
125ZJ-S1

# (INDOOR UNIT)

Wall mounted type SRK20ZJX-S 25ZJX-S 35ZJX-S 50ZJX-S1 60ZJX-S2 SRK20ZJ-S 25ZJ-S 35ZJ-S 50ZJ-S SRK71ZK-S

Floor standing type SRF25ZJX-S 35ZJX-S 50ZJX-S1 Ceiling concealed type SRR25ZJ-S 35ZJ-S 50ZJ-S 60ZJ-S1

4way ceiling cassette type FDTC25VF 35VF 50VF 60VF

Ceiling suspended type FDEN50VF

Duct connected Low/Middle static pressure type FDUM50VF



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	(3)	Model SCM50ZJ-S1		8
	(4)	Model SCM60ZJ-S1	41	2
	(5)	Model SCM71ZJ-S1	410	6
	(6)	Model SCM80ZJ-S1		2
	(7)	Model SCM100ZJ-S	.428	8

# Table of models

Model	20	25	35	50	60	71	
Wall mounted type (SRK * * ZJX-S)	0	0	0	0	0		
Wall mounted type (SRK * * ZJ-S)	0	0	0	0			
Wall mounted type (SRK * * ZK-S)						0	
Floor standing type (SRF)		0	0	0			
Ceiling concealed type (SRR)		0	0	0			
4way ceiling cassette type (FDTC)		0	0	0	0		
Ceiling suspended type (FDEN)				0			
Duct connected Low/Middle static pressure type (FDUM)				0			
Outdoor unit to be combined (SCM)	SCM40ZJ-S, 45ZJ-S, 50ZJ-S1, 60ZJ-S1, 71ZJ-S1, 80ZJ-S1, 100ZJ-S1, 125ZJ-S1						

# How to read the model name



# **1. OUTDOOR UNITS**

# 1.1 Specifications

Adapted to RoHS directive

Item				Model	SCM40ZJ-S				
Cooling capacity (1)					4000 (1800 (Min) 5000 (Max))				
Cooling capacity (1	)			W		40	000 (1800 (Min.) ~ 5900 (Ma	(X.))	
Heating capacity (1	)			W		45	500 (1400 (Min.)~6900 (Ma	(X.))	
Power supply	· · · · ·						1 Phase, 220~240 V, 50H	Z	
	Power		Cooling	kW			0.84 (0.49~1.90)		
	consum	ption	Heating				0.90 (0.47~2.30)		
	Running	9	Cooling			3.	9 / 3.7 / 3.5 (220 / 230 / 240	) V)	
	current Heating			Α		4.	1 / 4.0 / 3.8 (220 / 230 / 240	) V)	
	Inrush c	urrent				4.	1 / 4.0 / 3.8 (220 / 230 / 240	) V)	
Operation data (1)	Max current (5)						14		
data (1)	000		Cooling				4.76		
	COP		Heating				5.00		
			Sound level	dB (A)			47		
	Noise	Cooling	Power level	dB			60		
	level		Sound level	dB (A)			48		
		Heating	Power level	dB			62		
Exterior dimension	s (Height	x Width x [	Depth)	mm			640 x 850 x 290		
Exterior appearance	Exterior appearance						Stucco white		
(Munsell color)	(Munsell color)					(	(4.2Y 7.5/1.1) near equivaler	nt	
Net weight				kg			47		
Compressor type & Q'ty						RM-1	F5113MDE2 (Twin rotary typ	pe) x 1	
	Motor (S	Starting me	ethod)	kW			1.4 (Line starting)	,	
Refrigerant equipment	Refriger	ant oil		0		0	45 (DIAMOND ERFEZE MA	68)	
	Refriger	ant (4)		ka		B4104 2 (Pre	-Charged up to the piping l	ength of 30m)	
	Host ov	changer		Ng			A fine & inner grooved tubin		
	Defriger		1			Copillon		ig ion volvo	
	Device					Capillar	y tubes + Electronic expans		
Fan type & Q'ty							Microcomputer control		
	Fan typ	Fan type & Q'ty			Propeller fan x 1				
Air handling equipment	Motor			VV	34				
equipment	Air flow		Cooling	m³/min	40.0				
			Heating				40.0		
Shock & vibration a	absorber				Cushion rubber (for compressor)				
Electric heater						C	Crank case heater (220V 20)	N)	
Safety devices					Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection				
	Defrigerent piping size (O.D.)			Liquid line: $\phi$ 6.35 (1/4") × 2				2	
	Retriger	ant piping	size (O.D)	mm	Gas line: $\phi$ 9.52 (3/8") × 2				
	Connec	ting metho	d				Flare connecting		
	Insulatio	on for pipin	q			Nec	essary (Both sides), indeper	ndent	
Installation	Length	for one ind	oor unit				Max. 25		
	Total ler	hoth for all	rooms	1			Max. 30		
	Vertical	height diff	erence between	m		M	lax, 15 (Outdoor unit is high	ler)	
	outdoor	unit and in	ndoor unit			N	lax. 15 (Outdoor unit is low	er)	
	Height o	difference	of the indoor units	1			Max. 25		
Recommended bre	aker size			Α			25		
	Size x C	ore numb	er	1		1.5mn	n <sup>2</sup> x 4 cores (Including earth	n cable)	
Connection wiring	Connec	tina metho	d			Те	rminal block (Screw fixing ty	vpe)	
IP number	1		-				IPX4	/ - /	
Accessories (includ	led)					Inst	tallation sheet Flbow Grom	umet	
						113	SRK20,25,35ZJX-S SRK20,25,35ZJ-S	inter	
							SRR25,35ZJX-S SRR25,35ZJ-S FDTC25,35VF		
Number of connect	Number of connectable indoor units						2		
Total of indoor unit	S			kW			Max. 6		
Note (1) The	data are n	neasured a	t the following co	nditions.		The pipe	length for one indoor unit is 7.5m.		
	_	Item	ndoor air tempera	ture	Outdoor air	temperature			
Operat	ion	$ \vdash$	DB W	/B	DB	WR	Standards		
		$\rightarrow$			250	0400			
Cooline	J		2/0 19	, ,	35 0	24 0	ISO-T1, JIS C 9612		
Heating	9		20°C -	-	7°C	0°℃	,		
(2) This (3) The	air-condit	ioner is ma data are a	anufactured and te pplied to the 220/2	ested in c 230/240\	conformity with / districts resp	n the ISO. bectively.			

(4) The refrigerant quantity to be charged includes the refrigerant in 30m connecting piping. (Purging is not required even for the short piping.)(5) Current value at maximum number of indoor units connected.

				Madal						
Item				woder			SCM45ZJ-S			
Cooling capacity (1)						4	$500 (1800 (Min) \sim 6400 (Max))$			
Heating capacity	(1)			W			$600 (1400 (Min)) \sim 7400 (Max))$			
Power supply	(.)						1 Phase, 220~240 V, 50Hz			
	Power		Cooling				1.04 (0.49~2.14)			
	consum	nption	Heating	– kW			1.20 (0.47~2.57)			
	Running	- <u>-</u>	Cooling			4.	8 / 4.6 / 4.4 (220 / 230 / 240 V)			
	current	9	Heating	A		5.	5 / 5.3 / 5.1 (220 / 230 / 240 V)			
	Inrush o	current	1			5.	5 / 5.3 / 5.1 (220 / 230 / 240 V)			
Operation data (1)	Max cu	rrent (5)					14			
data (1)	0.0.0		Cooling				4.33			
	COP		Heating				4.67			
			Sound level	dB (A)	1		47			
	Noise	Cooling	Power level	dB			60			
	level		Sound level	dB (A)			49			
		Heating	Power level	dB			62			
Exterior dimensic	Exterior dimensions (Height x Width x Depth)						640 x 850 x 290			
Exterior appearance							Stucco white			
(Munsell color)				_			(4.2Y 7.5/1.1) near equivalent			
Net weight				kg			47			
	Compre	essor type	& Q'ty	_		RM-	T5113MDE2 (Twin rotary type) x	1		
	Motor (	Starting me	ethod)	kW			1.4 (Line starting)			
Refrigerant	Refrige	rant oil		l		0.	45 (DIAMOND FREEZE MA68)			
equipment	Refrige	rant (4)		kg		R410A 2 (Pre	e-Charged up to the piping lengt	1 of 30m)		
	Heat ex	changer					M fins & inner grooved tubing			
Refrigerant control						Capillary tubes + Electronic expansion valve				
Device control						Microcomputer control				
	Fan typ	e & Q'ty				Propeller fan x 1				
Air handling	Motor			W	34					
equipment	Air flow		Cooling	m³/min	40.0					
			Heating			40.0				
Electric bester	Tabsorber			_			Crapk appa baster (220)/ 2000			
Electric neater						Comprossor	Verbeat protection Overcurrent	protoction		
Safety devices			Frost protec	tion, Serial sig	nal error protection, Outdoor fan	motor error protection,				
						Heat	ing & Cooling overload protectio	n í Í		
	Refrige	rant nining	size (O D)	mm	Liquid line: $\phi$ 6.35 (1/4") × 2					
	Tionigo		0120 (012)				Gas line: $\phi$ 9.52 (3/8") × 2			
	Connec	ting metho	d	_			Flare connecting			
Installation	Insulation	on for pipin	ig			Nec	essary (Both sides), independent			
data	Length	for one ind	oor unit				Max. 25			
	Total le	ngth for all	rooms	_			Max. 30			
	Vertical	height differ	erence between	m		N	1ax. 15 (Outdoor unit is higher)			
	Height	difference	of the indoor uni	te			Max 25			
Recommended h	reaker size			A			25			
	Size x (	Core numbe	er			1.5mr	m <sup>2</sup> x 4 cores (Including earth cab	(e)		
Connection wirin	g Connec	ting metho	od			Te	rminal block (Screw fixing type)	<u></u>		
IP number							IPX4			
Accessories (incl	uded)					Ins	tallation sheet, Elbow, Grommet			
	,						SRK20,25,35ZJX-S			
							SRK20,25,35ZJ-S			
Indoor unit to be	compined						SRF25,35ZJX-5 SBB25,35ZJ-S			
					FDTC25,35VF					
Number of conne	ectable indo	or units					2			
Total of indoor ur	nits			kW			Max. 7			
Note (1) Th	e data are r	neasured a	at the following c	onditions.		The pipe	length for one indoor unit is 7.5m.			
	<u> </u>	Item I	Indoor air tempe	rature	Outdoor air	temperature				
			DB	WB	DR	W/R	Standards			
()nor	ation 🔨	~ 1	00	110						
Oper	ation		27°C	10°C	2500	1 1/1/1	1			
Oper Cooli	ation ing		27°C	19°C	35°C	24°C	ISO-T1, JIS C 9612			
Oper Cooli Heati	ation ing ing		27°C 20°C	19°C —	35°C 7°C	6°C	ISO-T1, JIS C 9612			
Oper Cooli Heati (2) Thi	ation ing ing is air-condi	tioner is ma	27°C 20°C anufactured and	19°C — tested in c	35°C 7°C conformity wit	6°C	ISO-T1, JIS C 9612			

(Purging is not required even for the short piping.)(5) Current value at maximum number of indoor units connected.



Item				Model			SCM50ZJ-S1				
Cooling capacity (1)					\A/		5000 (1800 (Min.)~7100 (Max.))				
Cooling capacity (1)					VV VV		50	2000 (1800 (Mir).)~7100 (Max.))			
Heating capacity (1	)				VV		60	5000 (1400 (Min.)~7500 (Max.))			
Power supply								1 Phase, 220~240 V, 50Hz			
	Power	ntion	Cooling		kW			1.08 (0.50~2.15)			
	consum	риоп	Heating					1.31 (0.48~2.58)			
	Running	]	Cooling				5.	5.0 / 4.7 / 4.5 (220 / 230 / 240 V)			
	current Heating				A		6.	5.0 / 5.8 / 5.5 (220 / 230 / 240 V)			
	Inrush c	urrent					6.	5.0 / 5.8 / 5.5 (220 / 230 / 240 V)			
Operation	Max current (5)							15			
data (1)	COP		Cooling					4.63			
	COF		Heating					4.58			
		Cooling	Sound leve	əl	dB (A)			49			
	Noise	Cooling	Power leve	əl	dB			62			
	level	L La attina	Sound leve	əl	dB (A)			52			
		Heating	Power leve	əl	dB			65			
Exterior dimensions (Height x Width x Depth)				mm			640 x 850 x 290				
Exterior appearance	<u>,                                     </u>		,					Stucco white			
(Munsell color)								(4.2Y 7.5/1.1) near equivalent			
Net weight					kg			48			
	Compre	essor type	& Q'ty				RM-	-T5113MDE2 (Twin rotary type) x 1			
	Motor (S	Starting me	ethod)		kW			1.4 (Line starting)			
	Refriger	ant oil			l		0.	0.45 (DIAMOND FREEZE MA68)			
Refrigerant	Refriaer	ant (4)			ka		R410A 2.5 (Pr	Pre-Charged up to the piping length of 40m)			
equipment	Heatex	changer						M fins & inner grooved tubing			
	Refriger	ant contro	1				Capillar	ny tubes + Electronic expansion valve			
						Microcomputer control					
	Device (										
	Air beedline Motor			14/							
Air handling	IVIOTOR				VV						
equipinent	Air flow		Cooling		m <sup>3</sup> /min			41.0			
			Heating					41.0			
Shock & vibration a	bsorber						Ci	Cushion rubber (for compressor)			
Electric heater							(	Crank case heater (220V 20W)			
Safety devices						Frost protection, Serial signal error protection, Overcurrent protection, Heating & Cooling overload protection					
	Refriger	ant piping	size (O.D)		mm		Liquid line: $\phi 6.35 (1/4") \times 3$				
	Cannaa	ting mothe				Elare connecting					
	Connec						NI				
Installation	Insulatio		ig Is ar unit				Nec	Max 05			
data	Teteller	or one mo				WidX. 20					
	Total ler	Igth for all			m			Max. 40			
	outdoor	unit and in	erence betw ndoor unit	een			IV N	Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower)			
	Height c	lifference	of the indoor	runits				Max 25			
Recommended bre	aker size			unito	Δ			25			
	Sizo y C	ore numb	or				1 5mr	$m^2 \times 4$ cores (Including earth cable)			
Connection wiring	Connoo	ting mothe					1.5m	arminal block (Scrow fixing type)			
ID numbor	Connec	ung metric					16				
Accessories (includ	od)					Lini	$2n \cdot (40.52)$	$(412.7) \times 1$ Installation shoot Elbow Grommat			
	eu)					Onic	JΠ. (ψ9.52 · φ				
Indoor unit to be co	mbined							SRK20,25,352JX-S,502JX-S1 SRK20,25,35,50ZJ-S SRF25,35ZJX-S,50ZJX-S1 SRR25,35,50ZJ-S FDTC25,35,50VF FDEN50VF,FDUM50VF			
Number of connect	able indo	or units		Ì				Min. 2~Max. 3			
Total of indoor units	3				kW			Max. 8.5			
Note (1) The c	lata are n	neasured a	at the followi	ng con	ditions.		The pipe	e length for one indoor unit is 7.5m.			
		Item	Indoor air te	mperati	ure	Outdoor air t	temperature				
Operati	on		DB	WE	B	DB	WB	- Standards			
Cooling		1	27°C	19°	C	35°C	24°C	100 T1 110 0 0010			
Heating			20°C			7°C	6°C	- ISU-11, JIS C 9612			
(2) This :	air-condit	ioner is m	anufactured	and tes	sted in a	onformity with	the ISO.	·			
(3) The c (4) The r	<ul><li>(2) This air-conditioner is manufactured and tested in conformity with the ISO.</li><li>(3) The operation data are applied to the 220/230/240V districts respectively.</li><li>(4) The refrigerant quantity to be charged includes the refrigerant in 40m connecting piping.</li></ul>										

(Purging is not required even for the short piping.) (5) Current value at maximum number of indoor units connected.



Item				N	lodel	SCM60ZJ-S1				
Cooling capacity (1)	)				W		60	000 (1800 (Min.)~7500 (Max.))		
Heating capacity (1)	<u>,</u>				W		20	800 (1500 (Min.) ~ 7800 (Max.))		
Power supply	/						00	1 Phase 220~240 V 50Hz		
Power Cooling								1 43 (0 50~2 39)		
	consum	notion	Heating		kW			1.10(0.00 - 2.00)		
	Dunning		Cooling				6	8 / 6 5 / 6 2 (220 / 230 / 240 \)		
	current	9	Heating		^			1 / 6 8 / 6 6 (220 / 230 / 240 V)		
	lerush surrent						7.	1 / 6 8 / 6 6 (220 / 230 / 240 V)		
	Maxiau						7.	17		
Operation	wax cu	rrent (5)	Qualizati					17		
	COP		Cooling					4.2		
			Heating		15(4)			4.5		
		Cooling	Sound leve		aB(A)			50		
	Noise		Power leve		dB			63		
	level	Heating	Sound leve		dB(A)			52		
			Power leve	1	dB			65		
Exterior dimensions (Height x Width x Depth)				mm			640 x 850 x 290			
Exterior appearance	Э							Stucco white		
(IVIUNSEII COIOR)								(4.2Y 7.5/1.1) hear equivalent		
Net weight					kg			49		
	Compre	essor type	& Q'ty				RM-I	15118MDE2 (Twin rotary type) x 1		
	Motor (S	Starting m	ethod)		kW			1.4 (Line starting)		
Pofrigorant	Refriger	ant oil			l		0.6	675 (DIAMOND FREEZE MA68)		
equipment	Refriger	rant (4)			kg		R410A 2.5 (Pr	re-Charged up to the piping length of 40m)		
	Heat ex	changer					1	M fins & inner grooved tubing		
	Refriger	ant contro	bl				Capillar	y tubes + Electronic expansion valve		
Device control						Microcomputer control				
Fan type & Q'ty						Propeller fan x 1				
Air hạndling	Motor				W	34				
equipment			Cooling		3	42.0				
	Air flow		Heating	n	n°/min			42.0		
Shock & vibration a	bsorber						Cı	ushion rubber (for compressor)		
Electric heater							C	Crank case heater (220V 20W)		
Safety devices						Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection				
	Refrigerant piping size (O.D)				mm	Liquid line: $\phi$ 6.35 (1/4") × 3 Gas line: $\phi$ 9.52 (3/8") × 3				
	Connec	ting metho	bc			Flare connecting				
	Insulatio	on for pipir	าต				Nec	cessary (Both sides), independent		
Installation	Length	for one inc	loor unit					Max 25		
data	Total ler	nath for all						Max 40		
	Vertical	height diff	ference betwe	aan	m		M	Aav. 15 (Outdoor unit is higher)		
	outdoor	unit and i	ndoor unit				Ň	Max. 15 (Outdoor unit is lower)		
	Height o	difference	of the indoor	units	Ì			Max. 25		
Recommended brea	aker size				Α			25		
	Size x C	Core numb	er				1	1.5mm <sup>2</sup> x 4 cores (Including earth cable)		
Connection wiring	Connec	tina metho	bc					Terminal block (Screw fixing type)		
IP number								IPX4		
Accessories (include	ed)					Uni	on:(09.52→0	$\phi$ 12.7) × 2. Installation sheet. Elbow. Grommet		
Indoor unit to be combined						SRK20	0.25,35ZJX-S,50ZJX-S1,60ZJX-S2 SRK20,25,35,50ZJ-S SRF25,35ZJX-S,50ZJX-S1 SRR25,35,50ZJ-S,60ZJ-S1 FDTC25,35,50,60VF EDEN50VE EDUM50VE			
Number of connect	able inde	orunite						Min 2 Max 3		
Total of indeer us					L/\//			Way 11		
	>				KVV			Wax. 11		
Note (1) The d	lata are n	neasured a	at the followin	ng condi	itions.	Outdoor air i	The pipe le	ength for one indoor unit is 7.5m.		
Operatio	on		DB	WB		DB	WB	Standards		
Cooling			27°C	19°C	;	35°C	24°C			
Heating			20°C	_		7°C	6°C	130-11, JIS C 3012		
(2) This a	air-condit	ioner is m	anufactured a	and test	ed in c	onformity with	the ISO.			
(3) The o (4) The r	<ul> <li>(2) This air-conditioner is manufactured and tested in conformity with the ISO.</li> <li>(3) The operation data are applied to the 220/230/240V districts respectively.</li> <li>(4) The refrigerant quantity to be charged includes the refrigerant in 40m connecting piping.</li> </ul>									

(Purging is not required even for the short piping.)
 (5) Current value at maximum number of indoor units connected.

Item					Model			SCM71ZJ-S1	
Cooling capacity (1)			W		7	100 (1800 (Min.)~8800 (N	Max.))		
Heating capacity (1)			W		8	600 (1500 (Min.) ~ 9400 (N	Max.))		
Power supply						1 Phase, 220~240 V. 50	)Hz		
	Power		Cooling					1.74 (0.48~2.75)	
	consum	ption	Heating		kW			2.00 (0.60~3.35)	
	Running	1	Cooling			8.0 / 7.6 / 7.3 (220 / 230 / 240 \)			
	current	9	Heating		Α		9.	2 / 8.8 / 8.4 (220 / 230 / 2	240 V)
	Inrush c	urrent	1				9.	2 / 8.8 / 8.4 (220 / 230 / 2	240 V)
Operation	Max cur	rrent (5)						20	
data (1)		(1)	Cooling					4.08	
	COP		Heating					4.30	
			Sound lev	/el	dB (A)			52	
	Noiso	Cooling	Power lev	/el	dB			65	
	level		Sound lev	/el	dB (A)			54	
		Heating	Power lev	vel	dB			66	
Exterior dimensions	(Height )	ı x Width x I	Denth)		mm			750 x 880 x 340	
Exterior appearance	, (i ioigiiti )		boptity					Stucco white	
(Munsell color)								(4.2Y 7.5/1.1) near equiva	llent
Net weight					kg			62	
	Compre	essor type	& Q'ty				RM-	T5118MDE2 (Twin rotary	type) x 1
	Motor (S	Starting me	ethod)		kW			1.4 (Line starting)	
	Refriaer	ant oil	,		Q.		0.	675 (DIAMOND FREEZE I	VIA68)
Refrigerant	Refriger	ant (4)			ka		R410A 3.15 (P	re-Charged up to the pip	ing length of 40m)
equipment	Heat ex	changer						M fins & inner grooved tul	bing
	Refriger	ant contro					Capillar	v tubes + Electronic expa	insion valve
	Device control					Microcomputer contro	si		
	Ean type	e & Q'tv					Propeller fan x 1		
Air bandling	Motor				w			86	
equipment		Cooling					56.0		
	Air flow		Heating		m³/min			56.0	
Shock & vibration absorber					C	ushion rubber (for compre	essori		
Electric heater						Crank case heater (220V 2	20140		
Safety devices			Frost protec	Compressor o tion, Serial sig Heat	verheat protection, Over nal error protection, Outd ing & Cooling overload p	current protection, oor fan motor error protection, 'otection			
	Refriger	ant piping	size (O.D)		mm	mm Liquid line: $\phi$ 6.35 (1/4") × 4			× 4
	-							Gas line: $\phi$ 9.52 (3/8") ×	: 4
	Connec	ting metho	d					Flare connecting	
Installation	Insulatio	on for pipin	ig 				Nec	essary (Both sides), indep	pendent
data	Length	for one ind	oor unit					Max. 25	
	Total ler	ngth for all	rooms		m	Max. /U			
	outdoor	unit and in	erence betv ndoor unit	ween			vi I	Max. 20 (Outdoor unit is hi Max. 20 (Outdoor unit is h	gner) ower)
	Height o	difference	of the indo	or units		Max. 25			
Recommended brea	aker size				Δ	95			
	Size x C	ore numb	er				1.5mr	m <sup>2</sup> x 4 cores (Including ea	rth cable)
Connection wiring	Connec	ting metho	d				Te	rminal block (Screw fixing	n type)
IP number	20.1100						10	IPX4	ו'' דו נ' נ'
Accessories (include	ed)					Unior	n:(@9.52→@	$12.7) \times 2$ Installation sheet	et. Elbow. Grommet x 2
Indoor unit to be combined					SRK2	0,25,35ZJX-S,50ZJX-S1, SRK20,25,35,50ZJ-S SRF25,35ZJX-S,50ZJ-S SRR25,35,50ZJ-S,60ZJ- FDTC25,35,50,60VF FDEN50VF,FDUM50VI	60ZJX-S2 S1 S1 F		
Number of connecta	Number of connectable indoor units							Min. 2 ~ Max. 4	
Total of indoor units	;				kW			Max. 12.5	
Note (1) The d	ata are n	neasured a	at the follow	ing cor	ditions.		The pipe	length for one indoor unit is 7.5	m.
	20	Item	Indoor air te	empera	ture	Outdoor air	temperature	Standards	
		$\rightarrow$	DR	W	B	DR	WB		
Cooling			27.0	19	C	35°C	24°C	ISO-T1, JIS C 9612	
Heating			20°C	-	-	7°C	0°C		
(2) This a (3) The o (4) The ro (Purg (5) Curre	<ul> <li>(2) This air-conditioner is manufactured and tested in conformity with the ISO.</li> <li>(3) The operation data are applied to the 220/230/240V districts respectively.</li> <li>(4) The refrigerant quantity to be charged includes the refrigerant in 40m connecting piping. (Purging is not required even for the short piping.)</li> <li>(5) Current value at maximum number of indoor units connected.</li> </ul>								



Item				Model			SCM80ZJ-S1				
Cooling capacity (1)			W		8000 (1800 (Min.)~9200 (Max.))						
Heating capacity (1)			W		93	300 (1500 (Min.)~9800 (Ma	x.))				
Power supply						1 Phase, 220~240 V, 50Hz	Z				
	Power		Cooling					2.16 (0.48~2.83)			
	consum	ption	Heating		KVV			2.26 (0.60~3.43)			
	Model         SCM80:           y(1)         W         8000 (1800 (Min.)           ty (1)         W         9300 (1500 (Min.)           Power         Cooling         N           Running         Cooling         0.216 (0.48           Consumption         Heating         KW         2.26 (0.50           Running         Cooling         9.9 /9.4 /9.0 (22         0.26           Corrent         Heating         A         110.4 / 10.0 /9.5 (2           Max current (5)         Cooling         3.7           COP         Cooling         Max current (5)         2.26           Cooling         Cooling         3.7         4.1           Power level         dB         66           Sound level         dB(A)         54           Power level         dB         66           Sound level         dB(A)         54           Power level         dB         66           Sound level         Max (A)         54           Power level         dB         66           Sound level         MB(A)         54           Power level         dB         60           Power level         dB         60      <	9 / 9.4 / 9.0 (220 / 230 / 240	) V)								
	current	2	Heating		A		10.	4 / 10.0 / 9.5 (220 / 230 / 24	10 V)		
	Inrush c	urrent					10.	4 / 10.0 / 9.5 (220 / 230 / 24	0 V)		
Operation	Max cu	rrent (5)						20	,		
data (1)			Cooling					3.70			
	COP		Heating					4.12			
			Sound level		dB(A)			54			
	Noise	Cooling	Power level		dB			66			
	level		Sound level		dB(A)			54			
		Heating	Power level		dB			66			
Exterior dimensions	(Height)	x Width x I	Depth)		mm			750 x 880 x 340			
Exterior appearance	ə							Stucco white			
(Munsell color)								(4.2Y 7.5/1.1) near equivaler	nt		
Net weight					kg			62			
	Compre	essor type	& Q'ty	i	ĺ		RM-1	F5118MDE2 (Twin rotary typ	be) x 1		
	Motor (S	Starting me	ethod)		kW			1.4 (Line starting)			
	Refriger	ant oil			l		0.6	675 (DIAMOND FREEZE MA	(68)		
Refrigerant	Refriger	ant (4)			kg		R410A 3.15 (P	re-Charged up to the piping	length of 40m)		
equipment	Heat ex	changer				M fins & inner grooved tubing					
	Refriger	ant contro	1				Capillary tubes + Electronic expansion valve				
	Device	control					Microcomputer control				
	Ean type & O'ty					Propeller fan x 1					
Air handling	ng Motor W 86 Int Cooling 56.0			w			86				
equipment			56.0								
	Air flow		Heating	r	m³/min			56.0			
Shock & vibration absorber						Ci	ushion rubber (for compress	sor)			
Electric heater							0	Crank case heater (220V 20V	M)		
Safety devices				Frost protec	Compressor o tion, Serial sigi Heat	verheat protection, Overcur nal error protection, Outdoo ing & Cooling overload prot	rent protection, or fan motor error protection, ection				
	Refriger	ant piping	size (O.D)		mm	Liquid line: $\phi$ 6.35 (1/4") × 4 Gas line: $\phi$ 9.52 (3/8") × 4					
	Connoc	ting mothe	d					Flare connecting			
		on for pipir					Noo	essany (Both sides), indeper	adopt		
Installation	Longth	for one ind	ig loor unit				Nec	Max 25	ident		
data	Total lor	arth for all						Max. 20			
	Vortical	boight diff	rence between door unit		rence between		m		M	Iviax. 70	orl
	outdoor	unit and i				Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower)					
	Height o	difference	of the indoor u	nits	ľ	Max. 25					
Recommended bre	aker size		-		Α			25			
	Size x C	Core numb	er				1	1.5mm <sup>2</sup> x 4 cores (Including	earth cable)		
Connection wiring	Connec	ting metho	d					Terminal block (Screw fix	king type)		
IP number								IPX4	0 11 /		
Accessories (includ	ed)					Union	n:(φ9.52→φ1	$12.7) \times 2$ , Installation sheet,	Elbow, Grommet × 2		
Indoor unit to be combined						SRK20	0,25,35ZJX-S,50ZJX-S1,60 SRK20,25,35,50ZJ-S SRF25,35ZJX-S,50ZJ-S SRR25,35,50ZJ-S,60ZJ-S1 FDTC25,35,50,60VF FDEN50VF,FDUM50VF	ZJX-S2			
Number of connect	able indo	or units						Min. 2~Max. 4			
Total of indoor units	3				kW			Max. 13.5			
Note (1) The c	lata are n	neasured a	at the following	, conc	ditions.		The pipe	length for one indoor unit is 7.5m.			
		Itom	Indoor air tem	nerati	Ire	Outdoor air t	temperature				
Operati	on		DB	WE	3	DB	WB	Standards			
Cooling		$\neg$	27°C	19°(	c	35°C	24°C				
Heating	 I		20°C	_		7°C	6°C	ISO-T1, JIS C 9612			
(2) This (	air-condit	ioner is m	anufactured or	nd too	ted in a	onformity with	the ISO	<u>.                                    </u>			
(3) The c (4) The r	peration	data are a t quantity t	pplied to the 2 o be charged	20/23 includ	30/240V	districts resp refrigerant in 4	ectively. Om connecting	g piping.			

(Purging is not required even for the short piping.) (5) Current value at maximum number of indoor units connected.

Item					Model			SCM100ZJ-S1										
Cooling capacity (1)					\M/	10000 (1800 (Min) 12000 (Max))												
Heating capacity (1)	) \				VV \\/		100	$12000 (1000 (Wint.) \sim 12000 (Wax.))$										
Power supply			vv		120	1  Phase  220 = 240  V  50 Hzz												
	Power	ntion	Cooling		kW			2.86 (0.85~4.03)										
	Consum		Heating			2.93 (0.70~3.40)												
	Running	9	Cooling				13.0	0/12.4/11.9(220/230/240V)										
	current		Heating		A		13.3	3/12.8/12.2(220/230/240V)										
	Inrush c	urrent					13.3	3 / 12.8 / 12.2 (220 / 230 / 240 V)										
Operation	a (1) Cooling					29												
data (1)	COP		Cooling					3.50										
			Heating					4.10										
		Cooling	Sound leve	əl	dB (A)			56										
	Noise	Cooling	Power leve	əl	dB			68										
	level	Hoating	Sound leve	əl	dB (A)			59										
		Tieating	Power leve	el	dB			71										
Exterior dimensions	(Height :	x Width x [	Depth)		mm			945 x 970 x 370										
Exterior appearance	Э						Stucco white											
(Munsell color)							(4.2Y 7.5/1.1) near equivalent											
Net weight					kg			92										
	Compre	essor type	& Q'ty				RM-T	5126MDE21 (Twin rotary type) x 1										
	Motor (S	Starting me	ethod)		kW			4.0 (Line starting)										
Defrigerent	Refriger	ant oil	-		l		1	.0 (DIAMOND FREEZE MA68)										
equipment	Refriger	ant (4)			kg		R410A 6.00 (P	re-Charged up to the piping lengt	h of 50m)									
	Heat ex	changer					M fins & inner grooved tubing											
	Refriger	ant contro					Capillary	y tubes + Electronic expansion va	lve									
	Device control					Microcomputer control												
	Fan type	e & Q'ty						Propeller fan x 1										
Air handling	Motor				W			86										
equipment	A . CI		Cooling		37 .			75.0										
	AITTIOW		Heating		m <sup>-</sup> /min			75.0										
Shock & vibration absorber						Cı	ushion rubber (for compressor)											
Electric heater					C	Crank case heater (220V 20W)												
Safety devices			Frost protect	Compressor ov tion, Serial sigr Heat	verheat protection, Overcurrent pr nal error protection, Outdoor fan r ing & Cooling overload protection	rotection, notor error protection,												
						Liquid line: $\phi$ 6.35 (1/4") × 5												
	heinger	ant piping	SIZE (U.D)		111111		Gas line: $\phi$ 9.52 (3/8") × 5											
	Connec	ting metho	d					Flare connecting										
Installation	Insulatio	on for pipin	g				Nece	essary (Both sides), independent										
data	Length 1	for one ind	oor unit					Max. 25										
	Total ler	ngth for all	rooms					Max. 90										
	Vertical	height diffe	rence between		rence between		rence between		rence between		rence between		rence between		m	Max. 20 (Outdoor unit is higher)		
	outdoor	unit and ir	ndoor unit			Max. 20 (Outdoor unit is lower) Max. 25												
	Height o	difference of	of the indoor	r units														
Recommended brea	aker size				A		30											
Connection wiring	Size x C	Core numbe	er				1.5mn	n <sup>2</sup> x 4 cores (Including earth cable	)									
	Connec	ting metho	d				lei	rminal block (Screw fixing type)										
IP number								IPX4	-									
Accessories (includ	ed)						Union, In	stallation sheet, Elbow, Grommet	× 2									
Indoor unit to be combined			SRK20,2	5,35ZJX-S,50Z	ZJX-S1,60ZJX-S2,SRK20,25,35,50 SRF25,35ZJX-S,50ZJX-S1 SRR25,35,50ZJ-S,60ZJ-S1 FDTC25,35,50,60VF FDEN50VF,FDUM50VF	ZJ-S,SRK71ZK-S												
Number of connect	able indo	or units						Min. 4 ~ Max. 5 (5)										
Total of indoor units	3				kW			Max. 16.0										
Note (1) The c	lata are n	neasured a	t the followi	ng con	ditions.		The pipe	length for one indoor unit is 7.5m.										
	_	Item I	ndoor air te	mperat	ure	Outdoor air t	emperature	Standards										
Operati	on 🔨		DB	W	В	DB	WB											
Cooling			27°C	19	°C	35°C	24°C	ISO-T1 JIS C 9612										
Heating			20°C	_	-	7°C	6°C	100-11, 010 0 3012										
(2) This a (3) The c (4) The r (Purg (5) In cas	<ul> <li>(2) This air-conditioner is manufactured and tested in conformity with the ISO.</li> <li>(3) The operation data are applied to the 220/230/240V districts respectively.</li> <li>(4) The refrigerant quantity to be charged includes the refrigerant in 50m connecting piping. (Purging is not required even for the short piping.)</li> <li>(5) In case of combination with SBK / IX-S_SEK717K-S_EDEN(50)/D only 3 indeer units can be connectable.</li> </ul>																	

(a) In case of SRK71ZK-S, SRK71ZK-S, 2 indoor units can be connectable.
 (6) Current value at maximum number of indoor units connected.

Item				Model	SCM125ZJ-S1															
Cooling capacity (1)				W		12500 (1800 (Min.)~14000 (Max.))														
Heating capacity (1	)				W		135	500 (1500 (Min.) ~ 14000 (Max.))												
Power supply							1 Phase, 220~240 V, 50Hz													
	Power		Coolina					3.90 (0.65~4.80)												
	consum	ption	Heating		kW			3.25 (0.70~3.42)												
	Pupping		Cooling				17 7	7 / 17 0 / 16 3 (220 / 230 / 240 \)												
	current	1	Heating		Δ		1/ 5	8 / 1 / 1 / 13 6 (220 / 230 / 240 \/)												
	Inruch	urropt	Treating				17.0	7 / 17 0 / 16 2 /220 / 220 / 240 V)												
	Man						17.1	7/ 17.0 / 10.3 (220 / 230 / 240 V)												
Operation	IVIAX CUI							29												
uala (1)	COP		Cooling			3.21		3.21												
			Heating				4.15													
		Cooling	Sound lev	vel	dB (A)			57												
	Noise		Power lev	/el	dB			69												
	level	Heating	Sound lev	vel	dB (A)			60												
		rieating	Power lev	/el	dB			72												
Exterior dimensions	(Height)	x Width x	Depth)		mm			945 x 970 x 370												
Exterior appearance	Э							Stucco white												
(Munsell color)							(4.2Y 7.5/1.1) near equivalent													
Net weight					kg			92												
	Compre	essor type	& Q'ty				RM-T	[5126MDE21 (Twin rotary type) x 1												
	Motor (S	Starting m	ethod)		kW			4.0 (Line starting)												
	Refriger	ant oil			l		1	1.0 (DIAMOND FREEZE MA68)												
Refrigerant	Refriger	ant (4)			ka		R410A 6.00 (P	Pre-Charged up to the piping length of 50m)												
equipment	Heat ex	changer						M fins & inner grooved tubing												
	Pofrigor	ant contro																	Capillar	
	Device	ant control					Capillar	y tubes + Electronic expansion valve												
	Device						Bropoller for x 1													
	Fan typ	e & Q'ty						Propeller fan x 1												
Air handling	Air handling Motor		VV			86														
equipment	Air flow		Cooling		m <sup>3</sup> /min			75.0												
	/		Heating		,			82.0												
Shock & vibration absorber					Cı	ushion rubber (for compressor)														
Electric heater					C	Crank case heater (220V 20W)														
Safety devices			Frost protec	Compressor o tion, Serial sig Heat	overheat protection, Overcurrent protection, anal error protection, Outdoor fan motor error protectior ting & Cooling overload protection															
	Refriger	ant piping	size (O D)		mm	mm Liquid line: $\phi 6.35 (1/4") \times 6$														
	Tionigoi		0.20 (0.2)			Gas line: $\phi$ 9.52 (3/8") × 6														
	Connec	ting metho	bd					Flare connecting												
Installation	Insulatio	on for pipi	ng				Nec	cessary (Both sides), independent												
data	Length	for one inc	door unit					Max. 25												
Gata	Total ler	ngth for al	l rooms		1	Max. 90														
	Vertical	heiaht dif	erence between		m	Max. 20 (Outdoor unit is higher)														
	outdoor	unit and i	ndoor unit				N	Max. 20 (Outdoor unit is lower)												
	Height o	difference	of the indo	or units	]	Max. 25														
Recommended bre	aker size				Α	30														
	Size x C	Core numb	er				1.5mm <sup>2</sup> x 4 cores (Including earth cable)													
Connection wiring	Connec	ting metho	od				Те	erminal block (Screw fixing type)												
IP number								IPX4												
Accessories (includ	ed)		0				Union In	stallation sheet. Elbow. Grommet x 2												
Indoor unit to be combined				SRK20,2	5,35ZJX-S,502	ZJX-S1,60ZJX-S2,SRK20,25,35,50ZJ-S,SRK71ZK-S SRF25,35ZJX-S,50ZJX-S1 SRR25,35,50ZJ-S,60ZJ-S1 FDTC25,35,50,60VF FDEN50VF,FDUM50VF														
Number of connect	able indo	or units						Min. 4 ~ Max. 6 (5)												
Total of indoor units	6				kW			Max. 19.5												
Note (1) The c	lata are n	neasured	at the follow	ving cor	nditions.		The pipe	length for one indoor unit is 7.5m.												
	_	Item	Indoor air t	empera	ture	Outdoor air	emperature	Oten develo												
Operati	on 🦳		DB	W	'B	DB	WB	Stanuarus												
Cooling			27°C	19	°C	35°C	24°C													
Heating	 I		20°C	-	_	7°C	6°C	- ISO-T1, JIS C 9612												
(2) This ( (3) The c (4) The r (Purg (5) In cas	Heating       20°C       —       7°C       6°C       100 mm +																			

In case of SRK71ZK-S+SRK71ZK-S, 2 indoor units can be connecta (6) Current value at maximum number of indoor units connected.





RWC000Z251

'13 • SCM-T-136

Models SCM50ZJ-S1, 60ZJ-S1





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# RWC000Z246

'13 • SCM-T-136



'13 • SCM-T-136



# 1.3 Electrical wirings Models SCM40ZJ-S, 45ZJ-S

# Meaning of Marks

DIZ	00101	Mark	Color
BK	Black	YE	Yellow
RD	Red	Y/G	Yellow/Green
NH NH	White		
5 OR	Orange		
BR BR	Brown		

Item	Description	Item	Description
CNA-CN20S	Connector	R	Reactor
20S	4 Way valve (coil)	TB1-TB3	Terminal block
CM	Compressor motor	Tho-R	Heat exchanger sensor
EEV A,EEV B	Electric expansion valve		(outdoor unit)
	(coil)	Tho-A	Outdoor air temp. sensor
FMo	Fan motor	Tho-D	Discharge pipe temp. sensor
HEATER	Crank case heater	Tho-S	Suction pipe temp. sensor



# Models SCM50ZJ-S1, 60ZJ-S1

Color Marks

# Meaning of Marks

Mark	Color	Mark	Color	Item
BK	Black	BR	Brown	CNA-CN2
BL	Blue	YE	Yellow	20S
RD	Red	Y∕G	Yellow/Green	CM
WH	White			EEV A,EE
OR	Orange			EEV (
				FMo

0			
Item	Description	Item	Description
CNA-CN20S	Connector	R	Reactor
20S	4 Way valve (coil)	TB1,TB2	Terminal block
CM	Compressor motor	Tho-R	Heat exchanger sensor
EEV A,EEV B	Electric expansion valve		(outdoor unit)
EEV C	(coil)	Tho-A	Outdoor air temp. sensor
FMo	Fan motor	Tho-D	Discharge pipe temp. sensor
HEATER	Crank case heater	Tho-S	Suction pipe temp. sensor

- 21

1



1

22

1

Color Marks

Color

Black

Blue

Brown

Green

Orange

Mark

RD

WH

ΥE

Y⁄G

Color

Red

White

Yellow

Yellow/Green

Mark

ΒK

ΒL

BR

GN

OR

#### Meaning of Marks

ltem	Description	Item	Description
CNA-CN20S	Connector	R	Reactor
20S	4 Way valve (coil)	TB1~5	Terminal block
CM	Compressor motor	Tho-R	Heat exchanger sensor
EEV A,EEV B	Electric expansion valve		(outdoor unit)
EEV C,EEV D	(coil)	Tho-A	Outdoor air temp. sensor
FMo	Fan motor	Tho-D	Discharge pipe temp. sensor
HEATER	Crank case heater	Tho-S	Suction pipe temp. sensor

'13 • SCM-T-136



Mark	Name					
A/F MODULE	Active filter module					
CH	Crankcase heater					
CM	Compressor motor					
CNA~Z	Connector					
CT	Current sensor					
DS	Diode stack					
EEV	Electronic expansion coil					
EEV-H	Electronic expansion coil (For heating)					
F	Fuse					
FM	Fan motor					
HPS	High pressure sensor					
IPM	Intelligent power module					
L	Reactor					
LED1	Indicator lamp (Red-Inspection indicator)					
LED2	Indicator lamp (Green-Microcomputer normality indicator)					
LED3	Indicator lamp (Green-For service)					
TB	Terminal block					
Tho-A	Thermistor (outdoor air temperature)					
Tho-D	Thermistor (discharge pipe)					
Tho-R	Thermistor (heat exchanger)					
Tho-S	Thermistor (suction pipe)					
Tho-AF	Thermistor (power transistor)					
TR	Trance former					
20S	4-way valve coil					

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

ARNING LAMP

Ν

lote(1) Xused	l only	at our	factory.
---------------	--------	--------	----------

1

1.Instructions for correct operation

- Before you turn on power, please carefully read the installation manual and the operation manual supplied with the unit.
- O Please check the following points before operation.
- This unit is designed exclusively for use with R410A. Do not use any refrigerant other than R410A.
- ② To protect the compressor, turn on power for the air conditioner 6 hours before operation so as warm up sufficiently the dome temperature of compressor.
- ③ Open the service valves of liquid pipe at first. Secondarily open the one of gas pipe. Before you operate the unit,make sure again that the service valves are in open position.
- ④ Please note that the pressure valves detected at the charge port in the unit and the gas service valves are different during the cooling operation and the heating operation. High pressure is replaced with the low pressure depending on whether it is in the cooling or heating operation.

Model SCM100ZJ-S1

## 2.Error indication

LOR	FUNCTION
ED	WARNING LAMP
CTION BY LI	ED E
T CUT	
E OF OUTD	OOR UNIT
JRRENT	
ISSION ERF	IOR
AT OF CON	MPRESSOR .
OF SIGNAL	FRANSMISSION
ERROR	
DISCHARO	GE PIPE SENSOR)
OR FAN MOT	FOR ERROR
RGE PIPE SE	ENSOR ERROR
	LOR ED CTION BY LI T CUT E OF OUTD IRRENT ISSION ERF EAT OF CON OF SIGNAL ERROR IDISCHARG R FAN MO RGE PIPE SE



#### Mark Name A/FMODULE Active filter module CH Crankcase heater CM Compressor motor CNA~Z Connector CT Current sensor DS Diode stack EEV Electronic expansion coil Electronic expansion coil (For heating) EEV-H Fuse FM Fan motor HPS High pressure sensor IPM Intelligent power module Reactor LED1 Indicator lamp (Red-Inspection indicator) Indicator lamp (Green-Microcomputer normality indicator Indicator lamp (Green-For service) ΤB Terminal block Thermistor (outdoor air temperature) Tho-A Thermistor (discharge pipe) Tho-D Tho-R Thermistor (heat exchanger) Tho-S Thermistor (suction pipe) Tho-AF Thermistor (power transistor) TR Trance former 20S 4-way valve coil

Model SCM125ZJ-S1

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

O Before you turn on power, please carefully read the installation

24

1

- manual and the operation manual supplied with the unit.
- O Please check the following points before operation.
- ① This unit is designed exclusively for use with R410A. Do not use any refrigerant other than R410A.
- (2) To protect the compressor, turn on power for the air conditioner 6 hours before operation so as warm up sufficiently the dome temperature of compressor.
- ③ Open the service valves of liquid pipe at first. Secondarily open the one of gas pipe. Before you operate the unit,make sure again that the service valves are in open position.
- ④ Please note that the pressure valves detected at the charge port in the unit and the gas service valves are different during the cooling operation and the heating operation. High pressure is replaced with the low pressure depending on whether it is in the cooling or heating operation.

#### 2.Error indication

	001.00	FUNCTION
INDICATION LAMP	COLOR	FUNCTION
LEDE (1)	RED	WARNING LAMP
SELF DIAGN	NOSIS FUNCTION BY LE	ED E
1-TIME FLASH	CURRENT CUT	
2-TIME FLASH	TROUBLE OF OUTDO	DOR UNIT
3-TIME FLASH	OVER CURRENT	
4-TIME FLASH	TRANSMISSION ERR	OR
5-TIME FLASH	OVER HEAT OF CON	IPRESSOR
6-TIME FLASH	ERROR OF SIGNAL T	RANSMISSION
8-TIME FLASH	SENSOR ERROR	
	(EXCEPT DISCHARG	E PIPE SENSOR)
LIGHT ON	OUTDOOR FAN MOT	OR ERROR
FOUR SEC LIGHT		
AND	DISCHARGE PIPE SE	NSOR ERROR
FOUR SEC OFF		

# Note(1) %used only at our factory.

ED E
OOR UNIT

# 1.4 Noise levels

• Mike position: at highest noise level in position as mentioned below



Distance from front side 1m.



Model		SCN	/60ZJ-S	61			Condition	ISO-T1,	JIS C 9612	!
Noise	Cooling		50 c	dB(A)						
Level	Heating		52 c	dB(A)						
	7(					×	······ Coolii	ng, () —	- Heating	70
	/(	Ē.				•••••		••••••	N70	/0
	60	Ē,			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				60
	-		· · · · · · · · · · · · · · · · · · ·	<u>x.</u>	••••••	••••••		•••••	N60	
	(qB) (a 50	Ē,	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		50
	Leve 10 <sup>-5</sup> P	Ē						•••••	N50	
	ante 1 2× 1 2×	Ē	<u>``,</u>				¥		<u> </u>	40
	Pres	Ē						~~~>	N40	5
	ound (sta	Ē						•••••	· (	30
	š							•••••	N30	<
	20	Ē						•••••	•••••	20
		Ē						•••••	N20	
	10	Ē								10
		63	12	5 250	) 50	00 100	200	0 40	00 80	00
					Mid Octav	e Band frequ	iency (Hz)			



Model	5	SCM80ZJ-S1		Condition	ISO-T1,JIS C 96	512
Noise	Cooling	54 dB(A)				
Level	Heating	54 dB(A)				
			×	····· Cooli	ng, () — Heat	ing
	70 60		· · · · · · · · · · · · · · · · · · ·	•••••	N70	60 F
	evel (dB) 0 <sup>-5</sup> Pa) 05				N50	50
	trd 2×1 00 01 01 01 01	···· ··· ··· ··· ···		X		40
	Sound Pre (standa 00		· · · · · · · · · · · · · · · · · · ·	•••••	N40 N30	30
	20			•••••	N20	20
	<sub>10</sub> E					1 <sub>10</sub>
	63	125 250	500 1000	2000	4000 80	000
		Mid	Octave Band frequence	cy (Hz)		





RPC012A915A

# 1.5 Installation manuals

# (1) Models SCM40ZJ-S, 45ZJ-S

MULTI TYPE AIR CONDITIONER R410A REFRIGERANT USED

• This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to page 103 to 138. • 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

work in order to protect yourself.

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.

- 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.
- Read the "SAFETY PRECAUTIONS" carefully first of all and strictly follow it during the installation
   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.
- The precautionary items mentioned below are distinguished into two levels, WARNING and
   For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, groves, etc., and then perform the installation works.
- Warning: Wrong installation would cause serious consequences such as injuries or death.
   Please pay attention not to fall down the tools, etc. when installing the unit at the high position.
   CAUTION: Wrong installation might cause serious consequences depending on
   If unusual noise can be heard during operation, consult the dealer.
  - The meanings of "Marks" used here are shown as follows:





<ul> <li>Do not install the outdoor unit in the locations listed below.</li> <li>Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood.</li> <li>Locations where outlet air of the outdoor unit blows directly to plants. The outlet air can affect adversely to the plant etc.</li> <li>Locations where vibration can be amplified and transmitted due to insufficient strength of structure.</li> <li>Locations where discharged hot air or operating sound generated by the outdoor unit can affect seriously (on the wall or at the place near bed room).</li> <li>Locations where drainage cannot run off safely. It can affect surrounding environment and cause a claim.</li> <li>Do not install the unit where corrosive gas (such as suffurous acid gas etc.) or combustible gas (such as sthinner and perfoleum gases) can accumulate or collect, or where volatile combustible substances are</li> </ul>	<ul> <li>handled.</li> <li>Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire.</li> <li>Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics.</li> <li>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.</li> <li>Do not install the outdoor unit in a location where insects and small animals can enter the electric parts and cause damage or fire. Instruct the user to keep the surroundings clean.</li> <li>Do not use the base flame for outdoor unit which is corroded or damaged base flame can cause the unit falling down and cause personal injury.</li> </ul>	<ul> <li>Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used.</li> <li>Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.</li> <li>Do not touch any buttons with wet hands. It can cause electric shocks.</li> <li>Do not touch any puttons with your hands when the system is in operation.</li> <li>During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frost injury.</li> <li>Do not touch the suction or aluminum fin on the outdoor unit.</li> <li>This may cause injury.</li> <li>Do not use the unit for special purposes such as storing foods, cooling precision instruments and preservation of animals, plants or art.</li> <li>Do not clean up the unit with water.</li> </ul>
Model name and nower source     Option par	ts Q'ty Necessary tools for the installation y	work

# Model name and power source

· Refrigerant piping length

- · Piping, wiring and miscell
- ||

		p	W	Sieeve		14	NING	1	Designed specifically for h4 fory
r	ndoor unit installation manual		C	Inclination plate	1	3	Saw	12	Gauge manifold (Designed specifically for R410A)
			0	Putty	1	4	Tape measure	13	Charge hose (Designed specifically for R410A)
	Accessories for outdoor unit	O'tv	6	Drain hose (extension	4	5	Hammer	14	Flaring tool set (Designed specifically for R410A)
	Accessories for outdoor unit	Gity		hose)		6	Spanner wrench	15	Gas leak detector (Designed specifically for R410A
)	Grommet (Heat pump type only)	1	A	Piping cover (for insulation	1	7	Torque wrench [14.0~62.0N·m (1.4~6.2kgf·m)]	16	Gauge for projection adjustment (Used when flare
)	Drain elbow (Heat pump type only)	1	Ψ	of connection piping)	·	8	Hole core drill (65mm in diameter)	10	made by using conventional flare tool)

Plus headed driver

#### SELECTION OF INSTALLATION LOCATION 1

#### Install at location that meets the following conditions after getting approval from the customer.

• Where the following installation space is available, and where air does not gather.

(a) Sealing plate

- Where rain and sunlight do not directly hit the unit, and where there is enough air circulation. • Also, where the unit cannot be buried by snow.
- a location which can sustain the weight of the unit, and where noises and vibrations are not enhanced.
- Where blasts of cold or hot air and noise do not bother the neighbors.
- Where the unit does not receive heat radiation from other heat sources.
- Where there are no obstructions (animals, plants, etc.) to the suction inlet and blowing outlet.
- Where water may drain out.
- \* Please avoid the following locations.
- Where there is constant exposure to harsh winds such as the top floors of a building. Also, locations with exposure to salty air.
- Where there are oil splashes, vapor, and smoke.
- Where there are possibilities of flammable gas leaks

## Installation

1 Anchor bolt fixed position

② Notabilia for installation





• In installing the unit, fix the unit's legs with bolts specified on the left.

- The protrusion of an anchor bolt on the front side must be kept within 15 mm.
- Securely install the unit so that it does not fall over during earthquakes or strong winds, etc.
- Refer to the above illustrations for information regarding concrete foundations.
- Install the unit in a level area. (With a gradient of 5 mm or less.)

Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

① Installation Space (on a flat surface)

10 Vacuum pump

 $\ensuremath{\mathbb{O}}\xspace$  Blowing out port and suction port on the back side of the unit can be installed at a distance of 10cm from walls.

Vacuum pump adapter (Anti-reverse flow type)

In case the barrier is 1.2m or above in height, or is overhead, the sufficient space between the unit and wall shall be secured.

OWhen the unit is installed, the space of the following dimension and above shall be secured.



Measurement B (mm)

Clutch type

1.0~1.5

1.0~1.5

Conventional (R22) flare tool

Wing nut type

1.5~2.0

1.5~2.0

MAX 25m MAX 30m

AX 15r

outdoo unit

30m

indoor unit

indoor unit

indoor unit

Clutch typr flare tool for R410A

0.0~0.5

0.0~0.5



Copper pipe

*φ*6.35

*φ*9.52

diameter

#### CONNECTION OF REFRIGERANT PIPINGS 3

[Connection of pipes]

- NOTE • Cover the pipes with tape so that dust and sand do not enter the pipe until they are
- connected. • When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon
- gas or oil. Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves



Compound pressure gauge

Gauge Manifold (Designed specifically for R410A)

Charge hose (Designed specifically for R410A)

Vacuum pump adapter (Anti-reverse flow type) (Designed specifically for R410A)

Pressure gauge

Handle Hi.

Vacuum pump

Check joint blind nut

tightening torque (N·m)

10~12

Charge hose (Designed specifically for R410A)

#### **AIR PURGING** 4

# NOTE : Fully open the operation valves (on both liquid and gas sides) after completing air purging.

- Since the system uses service ports differing in diameter from those found on the conventional models, a charge hose (for R22) presently in use is not applicable. Please use one designed specifically for R410A.
- Remove the cap on both gas and liquid sides before starting operation.
- After completing the operation, do not forget to tighten the cap (gas may leak).

#### Procedure

- (1) Secure all flare nuts on both indoor and outdoor sides to prevent leaks from the pipes. Connect the operation valves, charge hose, manifold
- valve and vacuum pump as shown in the right figure. (3) Fully open the handle Lo for the manifold valve, and pump a vacuum for 15 minutes. Ensure that the meter is indicating -0.1MPa (-76cmHg).
- (4) After vacuuming, fully open the operation valve (both liquid and gas sides) with a hexagon wrench.



- (5) Remove the charge hose from service port. (6) Repeat the above steps (1) ~ (5) for all connected indoor units.
- (7) Ensure that there are no gas leaks from the joints in the indoor and outdoor units.



- Earth work shall be carried out without fail in order to prevent electric shock and noise generation.
- O The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephoneline, etc.)

 Please use an anti-reverse flow type vacuum pump adapter so as to prevent vacuum pump oil from running back into the system. Oil running back into an air-conditioning system may cause the refrigerant cycle to break down.

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Securely tighten the operation valve cap and the check joint blind nut after adjustment

Operation valve cap

tightening torque (N·m)

20~30

Operation Valve

-0.1MPa (-76cmHg)

Handle Lo

Operation Valve

(three-way valve)

Operation Valve

Check joint

Operation valve size

(mm)

φ 6.35 (1/4")

φ9.52 (3/8")

Cap

Conduct air purging for all connected indoor units

Operation Valve

(two-way valve)

è

Operation valve for room B

Operation valve

for room A

LIGHT ON

FOUR SEC LIGHT

AND FOUR SEC OFF

OUTDOOR FAN MOTOR ERROR

DISCHARGE PIPE SENSOR ERROR

(2) Models SCM50ZJ-S1, 60ZJ-S1

# RPC012A916C

MULTI TYPE AIR CONDITIONER R410A REFRIGERANT USED

 This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to page 103 to 138. • 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

work in order to protect yourself. • The precautionary items mentioned below are distinguished into two levels, (A WARNING) and • For installing qualified personnel, take precautions in respect to themselves by using suitable

protective clothing, groves, etc., and then perform the installation works. Wrong installation would cause serious consequences such as injuries or death. • Please pay attention not to fall down the tools, etc. when installing the unit at the high position. **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.

- 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
- Read the "SAFETY PRECAUTIONS" carefully first of all and strictly follow it during the installation Keep the installation manual together with owner's manual at a place where any user can read

  - If unusual noise can be heard during operation, consult the dealer
  - The meanings of "Marks" used here are shown as follows:





	\land CAUTION	
<ul> <li>Do not install the outdoor unit in the locations listed below.</li> <li>Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood.</li> <li>Locations where outlet air of the outdoor unit blows directly to plants. The outlet air can affect adversely to the plant etc.</li> <li>Locations where vibration can be amplified and transmitted due to insufficient strength of structure.</li> <li>Locations where vibration and operation sound generated by the outdoor unit can affect seriously (on the wall or at the place near bed room).</li> <li>Locations where vibration affect seriously (on the wall or at the place near bed room).</li> <li>Locations where drainage cannot run off safely. It can affect surrounding environment and cause a claim.</li> <li>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.</li> <li>Do not install the unit where corrosive gas (such as suffurous acid gas etc.) or combustible substances are</li> </ul>	<ul> <li>handled.</li> <li>Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire.</li> <li>Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics.</li> <li>Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause maffunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment and telecommunication equipment and telecommunication equipment. Install the outdoor unit in a location where insects and small animals can inhabit.</li> <li>Insects and small animals can enter the electric parts and cause damage or fire. Instruct the user to keep the surroundings clean.</li> <li>Do not use the base flame for outdoor unit which is corroded or damaged base flame can cause the unit falling down and cause personal injury.</li> </ul>	<ul> <li>Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used.</li> <li>Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.</li> <li>Do not touch any buttons with wet hands. It can cause electric shocks.</li> <li>Do not touch any refrigerant pipes with your hands when the system is in operation.</li> <li>During operation the refrigerant pipes become extremely hor extremely cold depending the operating condition, and i can cause burn injury or frost injury.</li> <li>Do not touch the suction or aluminum fin on the outdoor unit.</li> <li>This may cause injury.</li> <li>Do not use the unit for special purposes such as storing foods, cooling precision instruments and preservation of animals, plants or art.</li> <li>Do not clean up the unit with water.</li> </ul>

# Check before installation work

	Model name and newer source	20		_						
	Refrigerant piping length				Option parts	O'tv		Needen tools for the installation work	9	Wrench key (Hexagon) [4m/m]
	Pining wiring and miscellaned	nus small	narts		Option parts	Gety		Necessary loois for the installation work	10	Vacuum pump
•	Indoor unit installation manual		puito	0	Sealing plate	1	1	Plus headed driver	11	Vacuum pump adapter (Anti-reverse flow type)
				6	Sleeve	1	2	Knife	1''	(Designed specifically for R410A)
Г	Association for outdoor		0'54	C	Inclination plate	1	3	Saw	12	Gauge manifold (Designed specifically for R410A)
	Accessories for outdoor	runit	Qity	0	Putty	1	4	Tape measure	13	Charge hose (Designed specifically for R410A)
1	Grommet (Heat pump type	only)	1		Drain hose (extension	1	5	Hammer	14	Flaring tool set (Designed specifically for R410A)
2	Drain elbow (Heat pump typ	be only)	1	e	hose)	'	6	Spanner wrench	15	Gas leak detector (Designed specifically for R410A)
6	Variable diameter joint	SCM50	1	A	Piping cover (for insulation	- 1	7	Torque wrench [14.0~62.0N·m (1.4~6.2kgf·m)]	16	Gauge for projection adjustment (Used when flare is
6	φ9.52⇒φ12.7	SCM60	2	$\mathbb{P}$	of connection piping)	'	8	Hole core drill (65mm in diameter)	1'0	made by using conventional flare tool)
No	ote: Provide flare nuts when using	the variable	e				_			

diameter joint (for  $\phi$ 12.7).

**CAUTION** • This model requires a minimum of 2 indoor units.



• In installing the unit, fix the unit's legs with bolts specified on the left.

• The protrusion of an anchor bolt on the front side must be kept within 15 mm.

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- Securely install the unit so that it does not fall over during earthquakes or strong winds, etc.
- Refer to the above illustrations for information regarding concrete foundations.
- Install the unit in a level area. (With a gradient of 5 mm or less.)

Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

Use a long block to

Use a thicker block to anchor deeper



#### [Connection of pipes]

- NOTE
- Cover the pipes with tape so that dust and sand do not enter the pipe until they are
- connected. When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon gas or oil.
- Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves



# **▲** CAUTION

Do not apply refrigerating machine Do not apply excess torque to the flared nuts. Otherwise, the flared nuts may crack depending on the conditions and refrigerant leak may occur. oil to the flared surface

#### Connection

#### Outdoor



OConnect the pipes on both liquid and gas sides. 
 Orighter the nuts to the following torque.

 Liquid side : 14.0~18.0N·m (1.4~1.8kgf·m)

 Gas side (φ9.52): 33.0~42.0N·m (3.3~4.2kgf·m)

 (φ12.7): 49.0~61.0N·m (4.9~6.1kgf·m)

#### Gas Leakage Test

**▲** CAUTION

•Ensure that there are no gas leaks from the pipe joints by using a leak detector or soap water







piping length	one indoor unit MAX 25m all indoor unit MAX 40m
hight difference	MAX 15m MAX 25m MAX 15m MAX 15m MAX 15m indoor unit indoor unit
length of chargeless refrigerant pipe	40m


 The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephoneline, etc.)

#### (3) Models SCM71ZJ-S1, 80ZJ-S1

RPC012A913B

MULTI TYPE AIR CONDITIONER R410A REFRIGERANT USED

• This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to page103 to 138. • 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

- work in order to protect yourself.
- WARNING Wrong installation would cause serious consequences such as injuries or death

: 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.

- 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.
- Read the "SAFETY PRECAUTIONS" carefully first of all and strictly follow it during the installation
   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
  - tionary items mentioned below are distinguished into two levels, 🛛 WARNING and For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, groves, etc., and then perform the installation works
    - Please pay attention not to fall down the tools, etc. when installing the unit at the high position. • If unusual noise can be heard during operation, consult the dealer
    - The meanings of "Marks" used here are shown as follows:





Do not install the outdoor unit in the l					
<ul> <li>below.</li> <li>Locations where discharged hot air or of the outdoor unit can bother neighborho</li> <li>Locations where outlet air of the outdoor directly to plants. The outlet air can affe plant etc.</li> <li>Locations where vibration can be amplifit transmitted due to insufficient strength of Locations where vibration and operation by the outdoor unit can affect seriously the place near bed room).</li> <li>Locations where drainage cannot run of the cant affect ded (IV set or radio receiver is plant etc.</li> <li>Locations where drainage cannot run of the cant affect ded (IV set or radio receiver is plant).</li> <li>Locations where drainage cannot run of the cant affect ded (IV set or unit near the locatic of combustible gases can occur. If leaked gases accumulate around the uri so not install the unit where corrosive sulfurous acid gas etc.) or combustible thinner and percleum gases) can acconclect, or where volatile combustible</li> </ul>	locations listed       handle         opperating sound of bod.       cause fi breakag cause fi         or unit blows or unit blows       • Do not filed and of structure.         n sound generated (on the wall or at d by high harmonics d cause a claim.       • Do not equipm high fre equipm and bre equipm.         1 by high harmonics on where leakage on where leakage e gas (such as ble gas (such as be ga substances are       • Do not eause d surroun	d. ve gas c ge of pla: re. install n equency e ents car advert and tion or c install n s and sm and	an cause corrosion of heat exchanger, stic parts and etc. And combustible gas can nor use the system close to the it generates electromagnetic fields or y harmonics. In a sinverters, standby generators, medical aquipments and telecommunication a affect the system, and cause malfunctions s. The system can also affect medical telecommunication equipment, and obstruct ause jamming. The outdoor unit in a location where nall animals can inhabit. all animals can enter the electric parts and or fire. Instruct the user to keep the eaan. b base flame for outdoor unit which is amaged due to long periods of d damage base flame can cause the unit d cause personal injury.	Do no correc used. Conne thread     Do no it can o Do no when During or extr can ca Do no outdo This m O no outdo This m to the Do no unit. This m to the Do no unit. This m to the Do no outon O no outon O no outdo This m	t use any materials other than a fuse with the ct rating in the location where fuses are to be eacting the circuit with copper wire or other metal can cause unit failure and fire. to touch any puttons with wet hands. cause electric shocks. It touch any refrigerant pipes with your hands the system is in operation. I operation the refrigerant pipes become extremely if remely cold depending the operating condition, and use burn injury or frost injury. It touch the suction or aluminum fin on the orr unit. Tay cause injury. It any thing on the outdoor unit and operatin hay cause damage the objects or injury due to falling object. It use the unit for special purposes such as g foods, cooling precision instruments and rvation of animals, plants or art. to clean up the unit with water.
heck before installation work					
odel name and power source	Option parts	Q'ty	Necessary tools for the installation	work	9 Wrench key (Hexagon) [4m/m] 10 Vacuum pump
strigerant piping length	③ Sealing plate	1	1 Plus headed driver		11 Vacuum pump adapter (Anti-reverse flow type)
door unit installation manual	6 Sleeve	1	2 Knife		(Designed specifically for R410A)
	© Inclination plate		3 Saw		12 Gauge manifold (Designed specifically for R410,
Accessories for outdoor unit Q'ty	Drain hose (extension		4 Tape measure 5 Hammer		14 Flaring tool set (Designed specifically for R410A)
Grommet (Heat pump type only) 2	(e) hose)	1	6 Spanner wrench		15 Gas leak detector (Designed specifically for R41
Drain elbow (Heat pump type only) 1	Piping cover (for insulatio	n ,	7 Torque wrench [14.0~62.0N·m (1.4~6	2kgf·m)]	Gauge for projection adjustment (Used when fla
/ariable diameter joint $\phi$ 9.52⇒ $\phi$ 12.7 2	of connection piping)	'	8 Hole core drill (65mm in diameter)		made by using conventional flare tool)
SELECTION OF INSTALI	LATION LOCATIO	N	anditions after getting an	prova	al from the customer.
SELECTION OF INSTALI	LATION LOCATION eets the followin	N Ig co nere air	nditions after getting ap	prova	al from the customer. Space (on a flat surface)
SELECTION OF INSTALL Install at location that me • Where the following installation s • Where rain and sunlight do not do	LATION LOCATION eets the followin space is available, and whi lirectly hit the unit, and while which the space spa	N Ig co here air here th	nditions after getting ap does not gather. ① Insta	prova	al from the customer. Space (on a flat surface)
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SELECTION OF INSTALL Install at location that me • Where the following installation s • Where rain and sunlight do not d • Also, where the unit cannot be bu a location which can sustain the enhanced.	LATION LOCATION eets the followin space is available, and wh lirectly hit the unit, and wh uried by snow. weight of the unit, and wh	N ng co nere air here th here no	onditions after getting ap does not gather. () Insta ere is enough air circulation. oises and vibrations are not	Difference of the from we can be addressed as a second state of the from we can be addressed as a second state of the second s	al from the customer. Space (on a flat surface) ng out port and suction port on the back si unit can be installed at a distance of 10cr valls.
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Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.



#### Connection





- $\label{eq:connect} \begin{array}{l} \bigcirc \mbox{Connect the pipes on both liquid and gas sides.} \\ \bigcirc \mbox{Tighten the nuts to the following torque.} \\ \mbox{Liquid side : } 14.0{\sim}18.0N{\cdot}m (1.4{\sim}1.8kgf{\cdot}m) \\ \mbox{Gas side (} \phi 9.52){:} 33.0{-}42.0N{\cdot}m (3.3{\sim}4.2kgf{\cdot}m) \\ \mbox{(} \phi 12.7){:} 49.0{\sim}61.0N{\cdot}m (4.9{\sim}61.kgf{\cdot}m) \\ \end{array}$
- When the total refrigerant pipe lenght for all the rooms exceeds the lenght of the uncharged pipe (40m), additional refrigerant is required.
   (If 40m or less, additional charge is not required.)
   Additional charge amount per meter = 20g/m

Gas Leakage Test

•Ensure that there are no gas leaks from the pipe joints by using a leak detector or soap water.





 The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephoneline, etc.)

#### (4) Models SCM100ZJ-S1, 125ZJ-S1

# RPC012A918 \land

MULTI TYPE AIR CONDITIONER R410A REFRIGERANT USED

 This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to page 103 to 138. • 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

- work in order to protect yourself. The precautionary items mentioned below are distinguished into two levels, 🖄 WARNING and For installing qualified personnel, take precautions in respect to themselves by using suitable
- 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.

- . 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.
- Read the "SAFETY PRECAUTIONS" carefully first of all and strictly follow it during the installation
   Keep the installation manual together with owner's manual at a place where any user can read

  - protective clothing, groves, etc., and then perform the installation works. Please pay attention not to fall down the tools, etc. when installing the unit at the high position. • If unusual noise can be heard during operation, consult the dealer
  - The meanings of "Marks" used here are shown as follows: Never do it under any





<ul> <li>Do not install the outdoor unit in the locations listed below.</li> <li>Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood.</li> <li>Locations where outlet air of the outdoor unit blows directly to plants. The outlet air can affect adversely to the plant etc.</li> <li>Locations where vibration can be amplified and transmitted due to insufficient strength of structure.</li> <li>Locations where vibration and operation sound generated by the outdoor unit can affect seriously (on the wall or at the place near bed room).</li> <li>Locations where drainage cannot run off safely.</li> <li>Locations where drainage cannot run off safely.</li> <li>It can affect surrounding environment and cause a claim.</li> <li>Do not install the unit near the location where leakage of combustible gases can occur.</li> <li>If leaked gases accumulate around the unit, it can cause fire.</li> <li>Do not install the unit where crorsive gas (such as suffurous acid gas etc.) or combustible gas(such as suffurous acid gas voltable combustible substances are</li> </ul>	<ul> <li>handled.</li> <li>Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire.</li> <li>Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics.</li> <li>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.</li> <li>Do not install the outdoor unit in a location where insects and small animals can enter the electric parts and cause damage or fire. Instruct the user to keep the surroundings clean.</li> <li>Do not use the base flame for outdoor unit which is corroded or damaged base flame can cause the unit falling down and cause personal injury.</li> </ul>	<ul> <li>Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used.</li> <li>Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.</li> <li>Do not touch any buttons with wet hands. It can cause electric shocks.</li> <li>Do not touch any uttons with wet hands. It can cause electric shocks.</li> <li>Do not touch any uttons with operating condition, and can cause burn injury or frost injury.</li> <li>Do not touch the suction or aluminum fin on the outdoor unit.</li> <li>This may cause injury.</li> <li>Do not use the unit for special purposes such as storing foods, cooling precision instruments and preservation of animals, plants or art.</li> <li>Do not use the unit with water.</li> </ul>

#### (Check before installation work)

Model name and power source     Refrigerant piping length     Pining wiring and miscellaneous small parts		Option parts Q'ty		Г		9	Wrench key (Hexagon) [4m/m]
					Necessary tools for the installation work		Vacuum pump
<ul> <li>Indoor unit installation manual</li> </ul>	a	a Sealing plate		1	Plus headed driver	Plus headed driver	
		) Sleeve	1	2	Knife	1''	(Designed specifically for R410A)
Accessories for outdoor upit	16	Inclination plate	1	3	Saw	12	Gauge manifold (Designed specifically for R410A)
Accessories for outdoor unit	" @	) Putty	1	4	Tape measure	13	Charge hose (Designed specifically for R410A)
Grommet (Heat pump type only) 2	16	Drain hose (extension	1	5	Hammer	14	Flaring tool set (Designed specifically for R410A)
② Drain elbow (Heat pump type only) 1	][@	hose)	'	6	Spanner wrench	15	Gas leak detector (Designed specifically for R410A)
③ Variable diameter joint \$\phi 9.52\$\$\Rightarrow\$\$\phi 12.7\$	] G	Piping cover (for insulation	1	7	Torque wrench [14.0~82.0N·m (1.4~8.2kgf·m)]	16	Gauge for projection adjustment (Used when flare is
④ Variable diameter joint	$\frac{1}{2}$ Variable diameter joint $\phi$ 9.52⇒ $\phi$ 15.88 2 0 of connection piping)		1	8	Hole core drill (65mm in diameter)	10	made by using conventional flare tool)

diameter joint (for \$\$12.7, \$\$15.88).

This model requires normally a minimum of 4 indoor units.

• This model requires a minimum of 3 indoor units in case of SRK-ZK-S, SRK-ZJX-S, FDEN type combination only. CAUTION

• This model requires a minimum of 2 indoor units in case of SRK71ZK-S type only.

#### 1 SELECTION OF INSTALLATION LOCATION

#### Install at location that meets the following conditions after getting approval from the customer.

- Where the following installation space is available, and where air does not gather.
- Where rain and sunlight do not directly hit the unit, and where there is enough air circulation.
- Also, where the unit cannot be buried by snow. A location which can sustain the weight of the unit, and where
- noises and vibrations are not enhanced. • Where blasts of cold or hot air and noise do not bother the neighbors.
- Where the unit does not receive heat radiation from other heat sources.
- Where there are no obstructions (animals, plants, etc.) to the suction inlet and blowing outlet.
- Where water may drain out.
- \* Please avoid the following locations.
- ${\ensuremath{\bullet}}$  Where there is constant exposure to harsh winds such as the top floors of a building. Also, locations with exposure to salty air.
- Where there are oil splashes, vapor, and smoke.
- Where there are possibilities of flammable gas leaks.

#### Installation

- In installing the unit, fix the unit's legs with bolts specified on the right.
- The protrusion of an anchor bolt on the front side must be kept within 15 mm
- Securely install the unit so that it does not fall over during earthquakes or strong winds, etc.
- Refer to the right illustrations for information regarding concrete foundations.
- Install the unit in a level area. (With a gradient of 5 mm or less.) Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

① Installation Space (on a flat surface)

- Walls surrounding the unit in the four sides are not acceptable.
- There must be a 1-meter or large space in the above.
- Where a danger of short-circuiting exists, install guide louvers.
- When more than one unit are installed, provide sufficient intake space
- consciously so that short-circuiting may not occur.
- When piling snow can bury the outdoor unit, provide proper snow guards.



#### 1 Anchor bolt fixed position





2 Notabilia for installation



#### Regarding the change in the sizes of gas side pipes (usage of the variable joints); If a 5.0, 6.0 kW class indoor unit (gas side pipe 12.7) or 7.1 kW class indoor unit (gas side pipe 15.88) is going to be connected to theoperation valves (9.52), variable

joints available as accessories must be applied to the gas side operation valves.
 Securely fit the copper packing between the operation valve and the variable diameter joint to prevent shifting.





Measurement B (mm)

[Connection	of	pipes]
NOTE		

- Cover the pipes with tape so that dust and sand do not enter the pipe until they are connected.
- When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon gas or oil.
- Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves.



### 

Do not apply excess torque to the flared nuts. Otherwise, the flared nuts may crack depending on the conditions and refrigerant leak may occur.

### Connection

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- OConnect the pipes on both liquid and gas sides.
   OTighten the nuts to the following torque.
   Liquid side : 14.0~18.0N⋅m (1.4~1.8kgf⋅m)
   Gas side (∳9.52): 33.0~42.0N⋅m (3.3~4.2kgf⋅m)
   (∲12.7): 49.0~61.0N⋅m (4.9~6.1kgf⋅m)
   (∲15.88): 68.0~82.0N⋅m (6.8~8.2kgf⋅m)
- When the total refrigerant pipe length for all the rooms exceeds the length of the uncharged pipe (50m), additional refrigerant is required.
   (If 50m or less, additonal charge is not required.)
   Additonal charge amount per meter = 20g/m

Gas Leakage Test

CAUTION Do not apply refrigerating machine

oil to the flared surface

•Ensure that there are no gas leaks from the pipe joints by using a leak detector or soap water.









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# 2. INDOOR UNITS

# 2.1 Specifications

# (1) Wall maunted type (SRK)

# (a) Models SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2

Item				Model		SRK20ZJX-S				
Power source							1 Phase, 200 - 240V, 50H;	Ζ		
	Nominal coolir	ng capacity	(range)	kW			2.0			
	Nominal heatir	ng capacity	(range)	kW		3.0				
			Cooling				53			
Operation	Sound power	level	Heating	1	54					
uala (1)	Cound process		Cooling	dB(A)			Hi: 39 Me: 30 Lo: 21			
	Sound pressu	re level	Heating	]			Hi: 38 Me: 33 Lo: 25			
	Silent mode so	ound pressu	ure level				_			
Exterior dimensior	s (Height x Widtl	h x Depth)		mm			309 x 890 x 220			
Exterior appearance						(	Fine snow (8.0Y 9.3/0.1) near equivale	ent		
Net weight				kg			15			
Heat exchanger						Lou	ver fins & inner grooved tu	bing		
Fan type & Q'ty							Tangential fan x 1	5		
Fan motor (stating	method)			W			27 x 1 (Direct drive)			
	,		Cooling	3, .			Hi: 11.5 Me: 8.0 Lo: 5.0	)		
Air flow			Heating	m <sup>°</sup> /min			Hi: 12.0 Me: 9.5 Lo: 7.0	)		
Available external	static pressure			Pa			0			
Outside air intake						Not possible				
Air filter, Quality /	Quantity					Polypropylene net (washable) x 2				
Shock & vibration	absorber					F	Rubber sleeve (for fan moto	or)		
	Remote contro	ol					Wireless-Remote control			
Operation	Room tempera	ature contro	ol				Microcomputer thermosta	t		
CONTROL	Operation disp	olay			RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green, ECONO: Blue					
Safety equipments	;				Frost prote	Frost protection, Serial signal error protection, Indoor fan motor error protection				
	Refrigerant pip	oing size (O.	.D)	mm		Liquid line	$e: \phi$ 6.35 (1/4") Gas line : $\phi$	9.52 (3/8")		
Installation	Connecting m	ethod					Flare connection			
data	Attached lengt	th of piping		m		Lic	quid line : 0.55 / Gas line : (	).49		
Gala	Insulation for p	biping				Nece	essary (Both sides), indepe	ndent		
	Drain hose						Hose connectable (VP 16)	)		
Drain pump, max	ift height			mm			-			
Interconnecting w	res	Size x Co	pre number		1.5mm <sup>2</sup> x	4 cores (Includ	ding earth cable) / Terminal	block (Screw fixing type)		
IP number							IPX0			
Standard accesso	ries				Mounting kit, C	lean filter (Allerge	en clear filter x 1, Photocatalyt	ic washable deodorizing filter x 1)		
Option parts							Interface kit (SC-BIKN-E)			
Note (1) The	data are measur	ed at the fo	llowing cor	nditions.			The pipe length is 7.5m.	1		
	Item	Indoor a	air tempera	ture	Outdoor air	temperature	Standards			
Opera	Operation DB				DB	WB				
	Cooling	27°C	19	°C	35°C	24°C	ISO5151-T1			
	Heating	20°C	-	-	7°C	6°C	1000101-11			
(2) This (3) Sou due	air-conditioner is nd level indicates to ambient cond	s manufacti s the value i itions.	ured and te n an anech	sted in o ioic char	conformity with mber. During o	the ISO. peration these	value are somewhat highe	r		



Item				Model		SRK25ZJX-S				
Power source							1 Phase, 200 - 240V, 50Hz			
	Nominal coolir	ng capacity	(range)	kW			2.5			
	Nominal heatir	ng capacity	(range)	kW	3.4					
			Cooling		55					
Operation	Sound power	level	Heating	1			58			
data (1)			Cooling	dB(A)		Hi: 41 Me: 31 Lo: 22				
	Sound pressu	re level	Heating	1			Hi: 41 Me: 34 Lo: 27			
	Silent mode so	ound pressu	ire level	1			-			
Exterior dimensio	Exterior dimensions (Height x Width x Depth)						309 x 890 x 220			
Exterior appearar	ice						Fine snow			
(Munsell color)							(8.0Y 9.3/0.1) near equivaler	nt		
Net weight				kg			15			
Heat exchanger						Lo	uver fins & inner grooved tub	bing		
Fan type & Q'ty							Tangential fan x 1			
Fan motor (statin	g method)			W			27 x 1 (Direct drive)			
A			Cooling	37 .			Hi: 12.5 Me: 9.0 Lo: 5.0			
Air flow			Heating	m²/min			Hi: 13.0 Me: 10.0 Lo: 7.5	i		
Available externa	static pressure			Pa			0			
Outside air intake	1				Not possible					
Air filter, Quality /	Quantity					P	olypropylene net (washable)	x 2		
Shock & vibratior	absorber						Rubber sleeve (for fan moto	r)		
Oracustica	Remote contro	ol				Wireless-Remote control				
Operation	Room tempera	ature contro	ol		Microcomputer thermostat					
Control	Operation disp	olay			RUN: Greer	RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green, ECONO: Blue				
Safety equipment	S				Frost prote	ction, Serial sig	gnal error protection, Indoor	fan motor error protection		
	Refrigerant pip	oing size (O.	.D)	mm		Liquid line	e : $\phi$ 6.35 (1/4") Gas line : $\phi$	9.52 (3/8")		
	Connecting m	ethod					Flare connection			
Installation	Attached lengt	th of piping		m		Li	quid line : 0.55 / Gas line : 0	.49		
Uala	Insulation for p	piping				Nec	essary (Both sides), indeper	ndent		
	Drain hose						Hose connectable (VP 16)			
Drain pump, max	lift height			mm			_			
Interconnecting v	/ires	Size x Co	ore number		1.5mm <sup>2</sup> >	4 cores (Inclu	ding earth cable) / Terminal	block (Screw fixing type)		
IP number							IPX0			
Standard access	ories				Mounting kit, C	lean filter (Allerg	en clear filter x 1, Photocatalytic	c washable deodorizing filter x 1)		
Option parts							Interface kit (SC-BIKN-E)			
Note (1) The	e data are measur	ed at the fo	llowing cor	nditions.			The pipe length is 7.5m.			
	Item	Indoor a	air tempera	ture	Outdoor air	temperature	Standards			
Oper	ation	DB	W	/B	DB	WB	Stanuarus			
	Cooling	27°C	19	°C	35°C	24°C				
	Heating	20°C	-	-	7°C	6°C	- 1505151-11			
(2) Thi	s air-conditioner i	s manufacti	ured and te	ested in a	conformity with	the ISO.	·			
(3) So	und level indicates	s the value i	n an anech	noic char	mber. During o	peration these	value are somewhat higher			

due to ambient conditions.



Item				Model		SRK35ZJX-S				
Power source							1 Phase, 200 - 240V, 50Hz			
	Nominal coolir	ng capacity	(range)	kW			3.5			
	Nominal heatir	ng capacity	(range)	kW	4.5					
	0		Cooling		58					
Operation	Sound power	level	Heating	1	59					
data (1)			Cooling	dB(A)		Hi: 43 Me: 33 Lo: 22				
	Sound pressu	re level	Heating	1			Hi: 42 Me: 35 Lo: 27			
	Silent mode so	ound pressu	ire level	1			_			
Exterior dimension	Exterior dimensions (Height x Width x Depth)						309 x 890 x 220			
Exterior appeara	nce						Fine snow			
(Munsell color)							(8.0Y 9.3/0.1) near equivaler	nt		
Net weight				kg			15			
Heat exchanger						Lo	uver fins & inner grooved tub	bing		
Fan type & Q'ty							Tangential fan x 1			
Fan motor (statin	g method)			W			27 x 1 (Direct drive)			
A			Cooling	37 .			Hi: 13.5 Me: 9.5 Lo: 5.0			
Air flow			Heating	m <sup>-</sup> /min			Hi: 14.0 Me: 11.0 Lo: 8.0			
Available externa	l static pressure			Pa			0			
Outside air intake	)				Not possible					
Air filter, Quality /	Quantity					P	olypropylene net (washable)	x 2		
Shock & vibratior	absorber						Rubber sleeve (for fan moto	r)		
	Remote contro	ol				Wireless-Remote control				
Operation	Room tempera	ature contro	ol		Microcomputer thermostat					
Control	Operation disp	olay			RUN: Greer	RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green, ECONO: Blue				
Safety equipmen	ts				Frost prote	ction, Serial sig	gnal error protection, Indoor	fan motor error protection		
	Refrigerant pip	oing size (O.	.D)	mm		Liquid line	e : $\phi$ 6.35 (1/4") Gas line : $\phi$	9.52 (3/8")		
	Connecting m	ethod					Flare connection			
Installation	Attached lengt	th of piping		m		Li	quid line : 0.55 / Gas line : 0.	.49		
Uala	Insulation for p	piping				Nec	essary (Both sides), indeper	ident		
	Drain hose						Hose connectable (VP 16)			
Drain pump, max	lift height			mm			_			
Interconnecting v	vires	Size x Co	ore number		1.5mm <sup>2</sup> >	4 cores (Inclu	ding earth cable) / Terminal	block (Screw fixing type)		
IP number							IPX0			
Standard access	ories				Mounting kit, C	lean filter (Allerg	en clear filter x 1, Photocatalytic	washable deodorizing filter x 1)		
Option parts							Interface kit (SC-BIKN-E)			
Note (1) Th	e data are measur	ed at the fo	llowing cor	nditions.			The pipe length is 7.5m.			
	Item	Indoor a	air tempera	ture	Outdoor air	temperature	Standarda			
Oper	Operation DB			/B	DB	WB	Stanuarus			
	Cooling	27°C	19	°C	35°C	24°C				
	Heating	20°C	-	-	7°C	6°C	- 1505151-11			
(2) Thi	s air-conditioner i	s manufacti	ured and te	sted in d	conformity with	the ISO.				
(3) So	und level indicates	s the value i	n an anech	ioic chai	mber. During o	peration these	value are somewhat higher			

due to ambient conditions.



Item				Model			SRK50ZJX-S1			
Power source							1 Phase, 220 - 240V, 50Hz			
	Nominal coolin	g capacity	(range)	kW			5.0			
	Nominal heatin	g capacity	(range)	kW	5.8					
			Cooling		60					
Operation	Sound power le	evel	Heating	1	64					
data (1)			Cooling	dB(A)			Hi: 47 Me: 40 Lo: 27			
	Sound pressure	e level	Heating				Hi: 48 Me: 40 Lo: 33			
	Silent mode so	und pressu	ire level				_			
Exterior dimensions	Exterior dimensions (Height x Width x Depth)						309 x 890 x 220			
Exterior appearance	8						Fine snow			
(Munsell color)							(8.0Y 9.3/0.1) near equivaler	nt		
Net weight				kg			15			
Heat exchanger						Loi	uver fins & inner grooved tub	bing		
Fan type & Q'ty							Tangential fan x 1			
Fan motor (stating	method)			W			27 x 1 (Direct drive)			
A			Cooling	3 /			Hi: 13.5 Me: 11.0 Lo: 8.0			
AIT NOW			Heating	m /min			Hi: 17.0 Me: 14.5 Lo: 10.5	5		
Available external s	tatic pressure			Pa			0			
Outside air intake						Not possible				
Air filter, Quality / C	uantity					Po	olypropylene net (washable)	x 2		
Shock & vibration a	bsorber						Rubber sleeve (for fan moto	r)		
Operation	Remote contro						Wireless-Remote control			
control	Room tempera	ture contro	d			Microcomputer thermostat				
Control	Operation displ	ay			RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green, ECONO: Blue					
Safety equipments	~				Frost prote	Frost protection, Serial signal error protection, Indoor fan motor error protection				
	Refrigerant pipi	ng size (O.	D)	mm		Liquid line	e : $\phi$ 6.35 (1/4") Gas line : $\phi$	12.7 (1/2")		
Installation	Connecting me	thod					Flare connection			
data	Attached length	n of piping		m		Lie	quid line : 0.55 / Gas line : 0	.49		
Gala	Insulation for p	iping				Nec	essary (Both sides), indeper	ident		
	Drain hose						Hose connectable (VP 16)			
Drain pump, max lit	t height			mm			-			
Interconnecting wir	es	Size x Co	ore number		1.5mm <sup>2</sup> >	k 4 cores (Inclu	ding earth cable) / Terminal	block (Screw fixing type)		
IP number							IPX0			
Standard accessor	es				Mounting kit,	Clean filter (Allerg	en clear filter x 1, Photocatalytic	washable deodorizing filter x 1)		
Option parts							Interface kit (SC-BIKN-E)			
Note (1) The c	lata are measure	d at the fo	llowing cor	nditions.			The pipe length is 7.5m.			
	Item	Indoor a	air tempera	ture	Outdoor air	temperature	Standarda			
Operati	on	DB	W	'B	DB	WB	Stanuarus			
	Cooling	27°C	19	°C	35°C	24°C	1005151 71			
	Heating	20°C	-	-	7°C	6°C	1505151-11			
(2) This a (3) Soun due t	air-conditioner is d level indicates o ambient condit	manufactu the value i tions.	ured and te n an anech	sted in c oic char	conformity with mber. During c	h the ISO. operation these	value are somewhat higher			



Item				Model			SRK60ZJX-S2			
Power source							1 Phase, 220 - 240V, 50Hz			
	Nominal cooling	g capacity	(range)	kW			6.0			
	Nominal heating	g capacity	(range)	kW			6.8			
			Cooling		64					
Operation	Sound power le	evei	Heating	1	64					
	Cound process		Cooling	dB(A)			Hi: 51 Me: 41 Lo: 29			
	Sound pressure	elevei	Heating	]			Hi: 48 Me: 41 Lo: 34			
	Silent mode so	und pressu	ire level				_			
Exterior dimension		mm			309 x 890 x 220					
Exterior appearance	e						Fine snow			
(Munsell color)							(8.0Y 9.3/0.1) near equivalent			
Net weight				kg			15			
Heat exchanger						Lou	uver fins & inner grooved tubing	J		
Fan type & Q'ty							Tangential fan x 1			
Fan motor (stating	method)			W			27 x 1 (Direct drive)			
Airflow			Cooling	m <sup>3</sup> /min			Hi: 14.5 Me: 12.5 Lo: 8.5			
AIT HOW			Heating				Hi: 17.5 Me: 15.0 Lo: 11.0			
Available external s	tatic pressure			Pa			0			
Outside air intake						Not possible				
Air filter, Quality / C	(uantity					Po	olypropylene net (washable) x 2			
Shock & vibration a	lbsorber					F	Rubber sleeve (for fan motor)			
Operation	Remote control						Wireless-Remote control			
control	Room temperat	ture contro	d		Microcomputer thermostat					
Control	Operation displ	ay			RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green, ECONO: Blue					
Safety equipments					Frost prote	ction, Serial sig	gnal error protection, Indoor fan	n motor error protection		
	Refrigerant pipi	ng size (O.	D)	mm		Liquid line	$\phi = \phi 6.35 (1/4")$ Gas line : $\phi 12.7$	7 (1/2")		
Installation	Connecting me	thod					Flare connection			
data	Attached length	n of piping		m		Lic	quid line : 0.55 / Gas line : 0.49			
Gala	Insulation for pi	ping				Nece	essary (Both sides), independer	nt		
	Drain hose						Hose connectable (VP 16)			
Drain pump, max li	ft height			mm			—			
Interconnecting wir	es	Size x Co	ore number		1.5mm <sup>2</sup> >	4 cores (Inclue	ding earth cable) / Terminal bloc	ck (Screw fixing type)		
IP number							IPX0			
Standard accessor	ies				Mounting kit, 0	Clean filter (Allerge	en clear filter x 1, Photocatalytic wa	shable deodorizing filter x 1)		
Option parts							Interface kit (SC-BIKN-E)			
Note (1) The	data are measure	d at the fo	llowing cor	nditions.			The pipe length is 7.5m.			
	Item	Indoor a	ir tempera	ture	Outdoor air	temperature	Standards			
Operat	on	DB	W	'B	DB	WB	otandurdo			
	Cooling	27°C	19	°C	35°C	24°C				
	Heating	20°C	-	-	7°C	6°C	1505151-11			
(2) This (3) Sour due	air-conditioner is id level indicates to ambient condit	manufactu the value i tions.	ured and te n an anech	sted in o oic char	conformity with mber. During c	the ISO.	value are somewhat higher			



#### (b) Models SRK 20, 25, 35, 50ZJ-S

Item				Model			SRK20ZJ-S		
Power source							1 Phase, 220 - 240V, 50Hz	1	
	Nominal coolin	g capacity	(range)	kW			2.0		
	Nominal heatir	ig capacity	(range)	kW	3.0				
			Cooling		49				
Operation	Sound power I	evei	Heating	1			52		
			Cooling	dB(A)			Hi: 33 Me: 27 Lo: 21		
	Sound pressur	e level	Heating	1			Hi: 36 Me: 31 Lo: 24		
	Silent mode so	ound pressu	ire level	1			_		
Exterior dimensions (Height x Width x Depth)							294 x 798 x 229		
Exterior appearance	Э						Fine snow		
(Munsell color)							(8.0Y 9.3/0.1) near equivale	nt	
Net weight							9.5		
Heat exchanger						Lou	uver fins & inner grooved tu	bing	
Fan type & Q'ty							Tangential fan x 1		
Fan motor (stating r	nethod)			W			38 x 1 (Direct drive)		
Air flow			Cooling	m <sup>3</sup> /min			Hi: 7.8 Me: 5.6 Lo: 4.8		
AIT HOW			Heating				Hi: 9.8 Me: 6.3 Lo: 5.0		
Available external s	tatic pressure			Pa			0		
Outside air intake					Not possible				
Air filter, Quality / Q	uantity					Polypropylene net (washable) x 2			
Shock & vibration a	bsorber						Rubber sleeve (for fan moto	r)	
Operation	Remote contro	bl					Wireless-Remote control		
control	Room tempera	ture contro				Microcomputer thermostat			
Control	Operation disp	lay			RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green				
Safety equipments					Frost prote	Frost protection, Serial signal error protection, Indoor fan motor error protection			
	Refrigerant pip	ing size (O.	D)	mm		Liquid line	$\phi$ : $\phi$ 6.35 (1/4") Gas line : $\phi$	9.52 (3/8")	
Installation	Connecting me	ethod					Flare connection		
data	Attached lengt	h of piping		m		Lie	quid line : 0.53 / Gas line : 0	.40	
Guiu	Insulation for p	piping				Nec	essary (Both sides), indeper	ndent	
	Drain hose						Hose connectable (VP 16)		
Drain pump, max lif	t height			mm			_		
Interconnecting wire	es	Size x Co	ore number		1.5mm <sup>2</sup> >	4 cores (Inclue	ding earth cable) / Terminal	block (Screw fixing type)	
IP number							IPX0		
Standard accessori	es				Mounting kit, (	Clean filter (Allerg	en clear filter x 1, Photocatalytic	c washable deodorizing filter x 1)	
Option parts							Interface kit (SC-BIKN-E)		
Note (1) The d	lata are measure	ed at the fo	llowing cor	nditions.			The pipe length is 7.5m.		
	ltem	Indoor a	ir tempera	ture	Outdoor air	temperature			
Operatio	Operation DB				DB	WB	Standards		
	Cooling	27°C	19	2 °C	35°C	24°C			
	Heating	20°C	10		7°C	6°C	ISO5151-T1		
		200		-	10				
(2) This a (3) Soun due to	air-conditioner is d level indicates o ambient cond	s manufactu the value i itions.	ured and te n an anech	sted in o loic char	conformity with mber. During o	n the ISO. operation these	value are somewhat higher		

Item				Model		SRK25ZJ-S				
Power source							1 Phase, 220 - 240V, 50Hz			
	Nominal coolin	g capacity	(range)	kW	İ		2.5			
	Nominal heatin	g capacity	(range)	kW			3.4			
	O a visa di sa a visa di		Cooling		50					
Operation	Sound power le	evei	Heating	1			55			
	O a visit a vi	- []	Cooling	dB(A)			Hi: 34 Me: 28 Lo: 21			
	Sound pressure	e level	Heating	1			Hi: 39 Me: 31 Lo: 24			
	Silent mode so	und pressu	ire level	1			_			
Exterior dimension	xterior dimensions (Height x Width x Depth)						294 x 798 x 229			
Exterior appearance	e						Fine snow			
(Munsell color)							(8.0Y 9.3/0.1) near equivaler	nt		
Net weight				kg			9.5			
Heat exchanger						Lou	uver fins & inner grooved tub	ping		
Fan type & Q'ty							Tangential fan x 1			
Fan motor (stating	method)			W			38 x 1 (Direct drive)			
Air flow			Cooling	m <sup>3</sup> /min			Hi: 7.9 Me: 6.0 Lo: 5.0			
AIF HOW			Heating				Hi: 10.6 Me: 6.5 Lo: 5.1			
Available external	static pressure			Pa			0			
Outside air intake					Not possible					
Air filter, Quality / 0	Quantity					Polypropylene net (washable) x 2				
Shock & vibration	absorber					I	Rubber sleeve (for fan moto	r)		
Oneration	Remote contro	l					Wireless-Remote control			
operation	Room tempera	ture contro				Microcomputer thermostat				
Control	Operation disp	lay			RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green					
Safety equipments					Frost protection, Serial signal error protection, Indoor fan motor error protection					
	Refrigerant pip	ing size (O.	D)	mm		Liquid line	e : $\phi$ 6.35 (1/4") Gas line : $\phi$	9.52 (3/8")		
Installation	Connecting me	thod					Flare connection			
data	Attached length	n of piping		m		Lie	quid line : 0.53 / Gas line : 0.	.40		
Gala	Insulation for p	iping				Nec	essary (Both sides), indeper	ident		
	Drain hose						Hose connectable (VP 16)			
Drain pump, max I	ft height			mm			-			
Interconnecting wi	res	Size x Co	ore number		1.5mm <sup>2</sup> >	4 cores (Inclue	ding earth cable) / Terminal	block (Screw fixing type)		
IP number							IPX0			
Standard accesso	ies				Mounting kit, (	Clean filter (Allerg	en clear filter x 1, Photocatalytic	washable deodorizing filter x 1)		
Option parts							Interface kit (SC-BIKN-E)			
Note (1) The	data are measure	ed at the fo	llowing cor	nditions.			The pipe length is 7.5m.			
	Item	Indoor a	ir tempera	ture	Outdoor air	temperature	Standards			
Operat	ion	DB	W	/B	DB	WB	otandardo			
	Cooling	27°C	19	°C	35°C	24°C	1005454 74			
	Heating	20°C	-	- 1	7℃	6°C	1505151-11			
(2) This (3) Sou due	air-conditioner is nd level indicates to ambient condi	manufactu the value i tions.	ured and te n an anech	sted in o ioic char	conformity with nber. During c	the ISO.	value are somewhat higher			



Item						SRK35ZJ-S				
Power source							1 Phase, 220 - 240V, 50Hz			
	Nominal coolin	g capacity	(range)	kW	İ	3.5				
	Nominal heatin	g capacity	(range)	kW			4.5			
			Cooling	İ	58					
Operation	Sound power I	evel	Heating	1			59			
data (1)			Cooling	dB(A)			Hi: 42 Me: 32 Lo: 22			
	Sound pressure level Heating					Hi: 43 Me: 37 Lo: 25				
Silent mode sound pressure level							_			
Exterior dimensions (Height x Width x Depth)							294 x 798 x 229			
Exterior appearance	8						Fine snow			
(Munsell color)							(8.0Y 9.3/0.1) near equivaler	nt		
Net weight				kg			9.5			
Heat exchanger						Lou	uver fins & inner grooved tul	bing		
Fan type & Q'ty							Tangential fan x 1			
Fan motor (stating method)				W			38 x 1 (Direct drive)			
A	Cooling						Hi: 10.1 Me: 6.4 Lo: 5.0			
AIT NOW			Heating	m /min			Hi: 12.8 Me: 9.4 Lo: 6.1			
Available external static pressure				Pa		0				
Outside air intake							Not possible			
Air filter, Quality / C	uantity					Po	olypropylene net (washable)	x 2		
Shock & vibration a	bsorber					I	Rubber sleeve (for fan moto	r)		
Onenation	Remote contro	l					Wireless-Remote control			
Operation	Room tempera	ture contro	l				Microcomputer thermostat			
Control	Operation disp	lay			RUI	N: Green, TIME	R: Yellow, HI POWER: Gree	n, 3D AUTO: Green		
Safety equipments					Frost protection, Serial signal error protection, Indoor fan motor error protection					
	Refrigerant pip	ing size (O.	D)	mm		Liquid line	$e:\phi$ 6.35 (1/4") Gas line : $\phi$	9.52 (3/8")		
Installation	Connecting me	ethod					Flare connection			
Installation	Attached lengt	h of piping		m		Lie	quid line : 0.53 / Gas line : 0	.40		
uala	Insulation for p	iping				Nec	essary (Both sides), indeper	ndent		
	Drain hose						Hose connectable (VP 16)			
Drain pump, max lit	t height			mm			-			
Interconnecting wir	es	Size x Co	ore number		1.5mm <sup>2</sup> >	4 cores (Inclue	ding earth cable) / Terminal	block (Screw fixing type)		
IP number		·					IPX0			
Standard accessor	es				Mounting kit,	Clean filter (Allerg	en clear filter x 1, Photocatalytic	washable deodorizing filter x 1)		
Option parts							Interface kit (SC-BIKN-E)			
Note (1) The c	lata are measure	ed at the fo	llowing cor	nditions.			The pipe length is 7.5m.			
	Item Indoor air tempera		ir tempera	ture	Outdoor air	temperature	Standarde			
Operati	Operation DB W		'B	DB	WB	Stanuarus				
	Cooling 27°C 1			°C	35°C	24°C				
	Heating	20°C		-	7°C	6°C	ISO5151-T1			
(2) This a (3) Soun	air-conditioner is d level indicates o ambient condi	manufactu the value i tions.	ured and te n an anech	sted in c oic char	conformity with mber. During c	the ISO.	value are somewhat higher			



Item	Item						SRK50ZJ-S				
Power source	Power source						1 Phase, 220 - 240V, 50Hz				
	Nominal cooling	capacity	(range)	kW			5.0				
	Nominal heating	capacity	(range)	kW	5.8						
			Cooling	İ			60				
Operation	Sound power lev	vel	Heating	1	61						
data (1)	<b>a</b> 1		Cooling	dB(A)		Hi: 46 Me: 37 Lo: 26					
	Sound pressure	level	Heating	1			Hi: 45 Me: 37 Lo: 31				
	Silent mode sou	nd pressu	ire level				_				
Exterior dimensions		mm			294 x 798 x 229						
Exterior appearance	Э						Fine snow				
(Munsell color)					(	(8.0Y 9.3/0.1) near equivalent					
Net weight				kg			9.5				
Heat exchanger						Lou	uver fins & inner grooved tubing				
Fan type & Q'ty							Tangential fan x 1				
Fan motor (stating method)				W			38 x 1 (Direct drive)				
Air flow				m <sup>3</sup> /min			Hi: 11.3 Me: 7.8 Lo: 5.3				
Air flow Heating							Hi: 13.5 Me: 10.2 Lo: 7.5				
Available external static pressure				Pa			0				
Outside air intake							Not possible				
Air filter, Quality / Q	uantity					Po	olypropylene net (washable) x 2				
Shock & vibration a	bsorber					F	Rubber sleeve (for fan motor)				
Electric heater							_				
Onemation	Remote control						Wireless-Remote control				
Operation	Room temperati	ure contro	l				Microcomputer thermostat				
Control	Operation displa	ay			RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green						
Safety equipments					Frost prote	Frost protection, Serial signal error protection, Indoor fan motor error protectio					
	Refrigerant pipir	ng size (O.	D)	mm		Liquid line	e : $\phi$ 6.35 (1/4") Gas line : $\phi$ 12.7 (1/2")				
la stallation	Connecting met	hod					Flare connection				
Installation	Attached length	of piping		m		Lic	quid line : 0.53 / Gas line : 0.40				
Uala	Insulation for pip	bing				Nece	essary (Both sides), independent				
	Drain hose						Hose connectable (VP 16)				
Drain pump, max lif	t height			mm			_				
Interconnecting wire	es	Size x Co	ore number		1.5mm <sup>2</sup> x	4 cores (Inclue	ding earth cable) / Terminal block (Screw fixing type)				
IP number							IPX0				
Standard accessori	es				Mounting kit, C	lean filter (Allerg	en clear filter x 1, Photocatalytic washable deodorizing filter x 1)				
Option parts							Interface kit (SC-BIKN-E)				
Note (1) The c	lata are measured	d at the fo	llowing cor	nditions.			The pipe length is 7.5m.				
Item Indoor air tempera			ture	Outdoor air	emperature	Ctandarda					
Operati	Operation DB N			'B	DB	WB	Stanuarus				
Cooling 27°C 1			19	°C	35°C	24°C	1905151 T1				
Heating 20°C				-	7°C 6°C ISU5151-11						
(2) This a (3) Soun	air-conditioner is i d level indicates t a ambient conditi	manufactu he value i	ured and te n an anech	sted in c oic char	conformity with nber. During o	the ISO. peration these	value are somewhat higher				



#### (c) Model SRK71ZK-S

Item							SRK71ZK-S				
Power source							1 Phase, 220 - 240V, 50Hz				
	Nominal coolin	g capacity	(range)	kW			7.1				
	Nominal heatin	g capacity	(range)	kW	8.0						
			Cooling	İ	60						
Operation	Sound power le	evel	Heating	1			61				
data(1)			Cooling	dB(A)		Hi: 49 Me: 45 Lo: 39 ULo: 26					
	Sound pressure level		Heating			Hi	: 46 Me: 43 Lo: 38 ULo:	35			
	Silent mode sound pressure level						_				
Exterior dimensions (Height x Width x Depth)							318 x 1098 x 248				
Exterior appearanc	8						Fine snow				
(Munsell color)						(	8.0Y 9.3/0.1 ) near equivale	nt			
Net weight				kg			15				
Heat exchanger						Loi	uver fins & inner grooved tub	ing			
Fan type & Q'ty	Fan type & Q'ty						Tangential fan x 1				
Fan motor (stating method)				W			56 x1 (Direct drive)				
			Cooling	3		Hi: 19	9.5 Me: 17.5 Lo: 14.0 UL	o: 8.0			
Air flow			Heating	m <sup>-</sup> /min		Hi: 21	.5 Me: 19.5 Lo: 15.5 ULc	o: 14.0			
Available external static pressure				Pa		0					
Outside air intake							Not possible				
Air filter. Quality / Quantity						Po	lypropylene net ( washable )	x 2			
Shock & vibration a	bsorber						Rubber sleeve (for fan motor	)			
	Remote contro						Wireless-Remote control				
Operation	Room tempera	ture contro	l				Microcomputer thermostat				
control	Operation disp	lay			RUN	: Green , TIME	R: Yellow , HI POWER: Gree	n , ECONO: Orange			
Safety equipments			÷		Frost protection, Serial signal error protection, Indoor fan motor error protection						
	Refrigerant pip	ing size (O.	D)	mm		Liquid line : $\phi$ 6.35 (1/4") Gas line : $\phi$ 15.88 (5/8")					
	Connecting me	thod				· · · ·	Flare connection				
Installation	Attached lengt	h of piping		m		Lie	quid line : 0.70 / Gas line : 0.	63			
data	Insulation for p	iping				Nece	essary ( Both sides ), indeper	ndent			
	Drain hose						Hose connectable (VP 16)				
Drain pump, max li	t height			mm			_				
Interconnecting wir	es	Size x Co	ore number		1.5mm <sup>2</sup> x 4	4 cores ( Incluc	ling earth cable ) / Terminal I	olock ( Screw fixing type )			
IP number							IPX0				
Standard accessor	es				Mounting kit, C	lean filter ( Allerg	en clear filter x 1, Photocatalytic	washable deodorizing filter x 1)			
Option parts							Interface kit (SC-BIKN-E)	, s			
Note (1) The o	lata are measure	ed at the fo	llowing cor	ditions.			The pipe length is 7.5m.				
	Item	Indoor a	ir tempera	ture	Outdoor air	temperature					
Operati	peration DB N			'B	DB	WB	Standards				
	Cooling 27°C 1				35°C	24°C					
	Heating 20°C				7°C	6°C	ISO5151-T1				
(2) This (3) Sour due t	air-conditioner is d level indicates o ambient condi	manufactu the value i tions.	ured and te n an anech	sted in o oic char	conformity with mber. During o	the ISO. peration these	value are somewhat higher				

#### (2) Floor standing type (SRF)

Item			Model			SRF25ZJX-S				
Cooling capacity (1)			kW			2.5				
Heating capacity (1)			kW			3.4				
Power supply					1 Phase, 220~240 V, 50Hz					
		Sound level	dB(A)			Hi: 40 Me: 32 Lo: 26				
	Cooling	Power level	dB			51				
Noise level		Sound level	dB(A)			Hi: 40 Me: 35 Lo: 28				
	Heating Power level					51				
Exterior dimensions (	Height x Wi	dth x Depth)	mm			600 x 860 x 238				
Exterior appearance						Fine snow				
(Munsell color)					(8	8.0Y 9.3/0.1) near equivalent	t			
Net weight			kg			18				
Refrigerant	Heat excl	nanger			Louv	ver fins & inner grooved tub	ing			
equipment	Device co	ntrol				Microcomputer control				
	Fan type	& Q'ty				Turbo fan x 1				
	Motor		W			40				
Air handling	Air flow	Cooling	m <sup>3</sup> /min			Hi: 9.0 Me: 7.6 Lo: 5.8				
equipment	All HOW	Heating	111 /11111		Hi: 10.5 Me: 8.2 Lo: 6.6					
	Fresh air	ntake				Impossible				
	Air filter, 0	Quality / Quantity			Pol	ypropylene net (washable)	x 1			
	Operation	switch				Wireless-Remote control				
Operation	Room ten	perature control			l	Microcomputer thermostat				
control	Operation	Display			RUN: Gree	n, TIMER: Yellow, HI POWE T SELECTION: Green, ECO	R: Green, NO: Green			
Safety devices				Frost protection, Serial signal error protection, Indoor fan motor error protection						
	Refrigera	nt piping size (O.I	D) mm		Liquid line:	$\phi$ 6.35 (1/4") Gas line: $\phi$	9.52 (3/8")			
Installation	Connectir	ng method	·			Flare connecting				
data	Attached	length of piping	m			-				
	Insulation	for piping			Nece	ssary (Both sides), indepen	dent			
Drain hose	1	11 0				Connectable (VP 16)				
	Size x Co	re number			1.	5mm <sup>2</sup> x 4 cores (Including e	earth cable)			
Connection wiring	Connectir	ng method				Terminal block (Screw fixi	ng type)			
IP number						IPX0				
Accessories (included	(k			Mounting kit, (	Clean filter (Nati	ural Enzyme Filter x 1, Photocataly	tic washable deodorizing filter x 1)			
Option parts						Interface kit (SC-BIKN-E)				
Note (1) The dat	ta are meas	ured at the follow	ing condition	s.		The pipe length is 7.5m.				
	emperature	Outdoor air	temperature	01 1 1						
Operation	WB	DB	WB	Standards						
Cooling 27°C			19°C	35°C	24°C					
Heating	_	7°C	6°C	- ISO-T1, JIS C 9612						
(2) This air (3) The op	-conditione eration data	r is manufactured are applied to th	and tested ir e 220/230/24	n conformity with	the ISO. ectively.	,				



Item			Model			SRF35ZJX-S				
Cooling capacity (1)			kW			3.5				
Heating capacity (1)			kW		4.5					
Power supply					1 Phase, 220~240 V, 50Hz					
	Onalian	Sound level	dB(A)		Hi: 41 Me: 34 Lo: 28					
Naisa laval	Cooling	Power level	dB			52				
Noise level	Heating	Sound level	dB(A)			Hi: 41 Me: 36 Lo: 31				
	Power level					52				
Exterior dimensions	(Height x Wi	dth x Depth)	mm			600 x 860 x 238				
Exterior appearance (Munsell color)					(8	Fine snow 3.0Y 9.3/0.1) near equivalen	t			
Net weight			kg			19				
Refrigerant	Heat excl	anger			Lou	ver fins & inner grooved tub	ing			
equipment	Device co	ntrol				Microcomputer control				
	Fan type	& Q'ty				Turbo fan x 1				
	Motor		W			40				
Air handling	Airflow	Cooling				Hi: 9.2 Me: 7.8 Lo: 6.4				
equipment	AIT HOW	Heating			Hi: 10.7 Me: 8.3 Lo: 7.4					
	Fresh air	ntake				Impossible				
Air filter, Quality / Quantity					Po	lypropylene net (washable)	x 1			
	Operation switch					Wireless-Remote control				
Operation	Room ten	nperature control				Microcomputer thermostat				
control	Operation	Display			RUN: Gree AIR OUTLE	n, TIMER: Yellow, HI POWE T SELECTION: Green, ECO	ER: Green, NO: Green			
Safety devices				Frost protection, Serial signal error protection, Indoor fan motor error protection						
	Refrigera	nt piping size (O.I	D) mm		Liquid line:	$\phi$ 6.35 (1/4") Gas line: $\phi$	9.52 (3/8")			
Installation	Connectir	ng method				Flare connecting				
data	Attached	length of piping	m			_				
	Insulation	for piping			Nece	essary (Both sides), indepen	dent			
Drain hose						Connectable (VP 16)				
Connection wiring	Size x Co	re number			1.	.5mm <sup>2</sup> x 4 cores (Including e	earth cable)			
	Connectir	ng method				Terminal block (Screw fixi	ng type)			
IP number						IPX0				
Accessories (include	d)			Mounting kit,	Clean filter (Nat	ural Enzyme Filter x 1, Photocataly	tic washable deodorizing filter x 1)			
Option parts						Interface kit (SC-BIKN-E)				
Note (1) The da	ata are meas	ured at the follow	ving condition	S.		The pipe length is 7.5m.	1			
	Item Indoor air temp			Outdoor air	temperature	Standards				
Operation DB			WB	DB	WB		-			
Cooling		27°C	19°C	35°C	24°C	ISO-T1, JIS C 9612				
Heating		20°C	_	7°C	6°C		]			
(2) This ai (3) The op	r-conditione peration data	r is manufactured are applied to th	d and tested in ne 220/230/24	n conformity with OV districts resp	n the ISO. ectively.					

						SRF50ZJX-S1			
Cooling capacity (1)			1.3.0.(			5.0			
Cooling capacity (1)			KVV			5.0			
Heating capacity (1)			KVV						
Power supply	1		15(4)	Lik 46 Max 40 Lat 20					
	Cooling	Sound level	dB(A)			Hi: 46 Me: 42 Lo: 32			
Noise level		Power level	dB			58			
	Heating	Sound level	dB(A)			Hi: 47 Me: 41 Lo: 33			
	J	Power level	dB			58			
Exterior dimensions (H	leight x Wi	dth x Depth)	mm			600 x 860 x 238			
Exterior appearance						Fine snow			
(Munsell color)					(8	.0Y 9.3/0.1) near equivalent			
Net weight			kg			19			
Refrigerant	Heat excl	nanger			Louv	ver fins & inner grooved tub	ing		
equipment	Device co	ontrol				Microcomputer control			
	Fan type	& Q'ty				Turbo fan x 1			
	Motor		W			40			
Air handling	A : 61	Cooling	3/			Hi: 11.5 Me: 9.6 Lo: 6.6			
equipment	AIT TIOW	Heating	m/min		Hi: 12.0 Me: 10.0 Lo: 7.6				
	Fresh air intake					Impossible			
Air filter, Quality / Quantity					Pol	ypropylene net (washable)	(1		
	Operation switch					Wireless-Remote control			
Operation	Room ter	nperature control			Ν	Vicrocomputer thermostat			
control	Operatior	n Display			RUN: Green, TIMER: Yellow, HI POWER: Green, AIR OUTLET SELECTION: Green, ECONO: Green				
Safety devices				Frost protection, Serial signal error protection, Indoor fan motor error protection					
	Refrigera	nt piping size (O.D	) mm		Liquid line:	$\phi$ 6.35 (1/4") Gas line: $\phi$	12.7 (1/2")		
Installation	Connecti	ng method	,			Flare connecting	( )		
data	Attached	length of piping	m			_			
	Insulation	for piping			Neces	ssarv (Both sides), independ	dent		
Drain hose						Connectable (VP 16)			
	Size x Co	re number			1.	5mm <sup>2</sup> x 4 cores (Including e	earth cable)		
Connection wiring	Connecti	na method				Terminal block (Screw fixi	na type)		
IP number	00000000	ig mounou				IPX0	.9 .9 .9 .9		
Accessories (included	)			Mounting kit. (	Clean filter (Natu	ural Enzyme Filter x 1, Photocataly	tic washable deodorizing filter x 1)		
Option parts	/					Interface kit (SC-BIKN-E)			
Note (1) The dat	a are meas	ured at the followi	ng condition	s.		The pipe length is 7.5m.			
	Item Indoor air temper			Outdoor air	temperature				
Operation	ation DB			DB	WB	Standards			
Cooling		27°C	19°C	35°C	24°C				
Heating		20°C		7°C	6°C	ISO-T1, JIS C 9612			
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1			
(2) This air-	-conaltione	r is manufactured	and tested II	i conformity with	i uile ISO.				

(3) The operation data are applied to the 220/230/240V districts respectively.



# (3) Ceiling concealed type (SRR)

Item			Model			SRR25ZJ-S				
Cooling capacity (1)			kW			2.5				
Heating capacity (1)			kW		3.4					
Power supply					1 Phase, 220~240 V, 50Hz					
		Sound level	dB(A)			Hi: 40 Me: 35 Lo: 29				
	Cooling	Power level	dB			54				
Noise level		Sound level	dB(A)		Hi: 41 Me: 38 Lo: 31					
	Power level					55				
Exterior dimensions (Height x Width x Depth)			mm			230 x 740 x 455				
Exterior appearance (Munsell color)						_				
Net weight			kg			22				
Refrigerant	Heat exch	nanger			Lou	ver fins & inner grooved tub	ing			
equipment	Device co	ntrol				Microcomputer control				
	Fan type	& Q'ty				Centrifugal fan x 2				
	Motor		W			51				
Air handling	Aireflower	Cooling	ma <sup>3</sup> /main			Hi: 8.5 Me: 7.0 Lo: 5.0				
equipment	AIT NOW	Heating			Hi: 10.0 Me: 9.0 Lo: 6.5					
	Fresh air i	ntake				Not possible				
	Air filter, 0	Quality / Quantity				Polypropylene net x 1				
	Operation switch					Wireless-Remote control				
Operation	Room ten	nperature control				Microcomputer thermostat				
control	Operation	Dieplay			F	RUN: Green, TIMER: Yellow,				
	Operation	Display			HI P	OWER: Green, ECONO: Gre	een			
Safety devices				Frost protection, Serial signal error protection, Indoor fan motor error protection						
	Refrigerar	nt piping size (O.D	)) mm		Liquid line:	$\phi$ 6.35 (1/4") Gas line: $\phi$	9.52 (3/8")			
Installation	Connectir	ng method				Flare connecting				
data	Attached	length of piping	m			-				
	Insulation	for piping			Nece	ssary (Both sides), indepen	dent			
Drain hose						Connectable (VP 16)				
Connection wiring	Size x Co	re number			1.	5mm <sup>2</sup> x 4 cores (Including e	earth cable)			
	Connectir	ng method				Terminal block (Screw fixi	ng type)			
IP number						IPX0				
Accessories (included	d)(b					Mounting kit				
Option parts					Wired rem	ote control, Interface kit (SC	C-BIKN-E)			
Note (1) The da	ta are meas	ured at the follow	ing conditions	s.		The pipe length is 7.5m.	1			
Item Indoor air temp			mperature	Outdoor air	temperature	Standards				
Operation DB			WB	DB	WB					
Cooling 27°C			19°C	35°C	24°C	ISO-T1, JIS C 9612				
Heating		20°C	-	7°C	6°C	,				
(2) This air (3) The op	r-conditione eration data	r is manufactured are applied to the	and tested in e 220/230/24	oconformity with OV districts resp	n the ISO. ectively.					



Item	em					SRR35ZJ-S			
Cooling capacity (1)			kW			3.5			
Heating capacity (1)			kW		4.5				
Power supply				1 Phase, 220~240 V. 50Hz					
		Sound level	dB(A)		Hi: 42 Me: 37 Lo: 30				
	Cooling	Power level	dB			56			
Noise level		Sound level	dB(A)			Hi: 43 Me: 40 Lo: 32			
	Heating	Power level	dB			57			
Exterior dimensions (Height x Width x Depth)			mm			230 x 740 x 455			
Exterior appearance (Munsell color)		-1-7				_			
Net weight			kg			22			
Refrigerant	Heat exch	nanger			Louv	ver fins & inner grooved tub	ing		
equipment	Device co	ontrol				Microcomputer control			
	Fan type	& Q'ty				Centrifugal fan x 2			
	Motor		W			51			
Air handling	A: (I	Cooling	37 .			Hi: 9.0 Me: 7.5 Lo: 5.5			
equipment	Air flow	Heating	m <sup>-/</sup> min _	Hi: 11.0 Me: 9.5 Lo: 7.0					
	Fresh air	intake				Not possible			
	Air filter, 0	Quality / Quantity				Polypropylene net x 1			
	Operation switch					Wireless-Remote control			
Operation	Room ten	nperature control			I	Microcomputer thermostat			
control	Operation	Display			RUN: Green, TIMER: Yellow, HI POWER: Green, ECONO: Green				
Safety devices				Frost protection, Serial signal error protection, Indoor fan motor error protection					
	Refrigera	nt piping size (O.[	D) mm		Liquid line:	$\phi$ 6.35 (1/4") Gas line: $\phi$	9.52 (3/8")		
Installation	Connectir	ng method				Flare connecting			
data	Attached	length of piping	m			_			
	Insulation	for piping			Nece	ssary (Both sides), indepen	dent		
Drain hose						Connectable (VP 16)			
Connection wiring	Size x Co	re number			1.	5mm <sup>2</sup> x 4 cores (Including e	earth cable)		
Connection wining	Connectir	ng method				Terminal block (Screw fixi	ng type)		
IP number						IPX0			
Accessories (included	d)					Mounting kit			
Option parts					Wired rem	ote control, Interface kit (SC	C-BIKN-E)		
Note (1) The da	ta are meas	ured at the follow	ving conditions	s.		The pipe length is 7.5m.	1		
Item Indoor air temp		emperature	Outdoor air temperature		Standards				
Operation	Operation DB			DB	WB		-		
Cooling 27°C			19°C	35°C 24°C ISO-T1, JIS C 9612					
Heating	-	7°C	6°C	,	]				
(2) This air (3) The op	<ul><li>(2) This air-conditioner is manufactured and tested in conformity with the ISO.</li><li>(3) The operation data are applied to the 220/230/240V districts respectively.</li></ul>								



Item						SRR50ZJ-S				
Cooling capacity (1)			kW			5.0				
Heating capacity (1)			kW		5.8					
Power supply				1 Phase, 220~240 V, 50Hz						
		Sound level	dB(A)			Hi: 48 Me: 42 Lo: 33				
Nielee level	Cooling	Power level	dB			60				
Noise level	Lipsting	Heating Sound level			Hi: 48 Me: 45 Lo: 36					
	Power level					60				
Exterior dimensions	(Height x Wi	dth x Depth)	mm			230 x 740 x 455				
Exterior appearance (Munsell color)						_				
Net weight			kg			23				
Refrigerant	Heat excl	nanger			Lou	ver fins & inner grooved tub	ing			
equipment	Device co	ontrol				Microcomputer control				
	Fan type	& Q'ty				Centrifugal fan x 2				
	Motor		W			51				
Air handling	Air flow	Cooling	m <sup>3</sup> /min			Hi: 10.5 Me: 8.0 Lo: 5.0				
equipment	All IIOW	Heating		Hi: 13.0 Me: 11.5 Lo: 7.5						
	Fresh air	intake				Not possible				
	Air filter, 0	Quality / Quantity				Polypropylene net x 1				
	Operation switch					Wireless-Remote control				
Operation	Room ter	nperature control				Microcomputer thermostat				
control	Operatior	n Display			RUN: Green, TIMER: Yellow, HI POWER: Green, ECONO: Green					
Safety devices				Frost protection, Serial signal error protection, Indoor fan motor error protection						
	Refrigera	nt piping size (O.I	D) mm		Liquid line:	$\phi$ 6.35 (1/4") Gas line: $\phi$	12.7 (1/2")			
Installation	Connecti	ng method				Flare connecting				
data	Attached	length of piping	m			_				
	Insulation	for piping			Nece	ssary (Both sides), indepen	dent			
Drain hose						Connectable (VP 16)				
Connection wiring	Size x Co	re number			1.	5mm <sup>2</sup> x 4 cores (Including e	earth cable)			
	Connecti	ng method				Terminal block (Screw fixi	ng type)			
IP number		-				IPX0				
Accessories (include	d)					Mounting kit				
Option parts					Wired remo	ote control, Interface kit ( SC	C-BIKN-E)			
Note (1) The da	ata are meas	ured at the follow	ving conditions	S. Outdoor air	tomporaturo	The pipe length is 7.5m.	]			
					W/D	Standards				
Cooling	Operation DB			35°C	24°C					
			190		24 U 6°C	ISO-T1, JIS C 9612				
(2) This a	r-conditione	r is manufactured	and tested in	conformity with	h the ISO.		]			
			0 220/200/240		couvery.					



Item	2					SRR60ZJ-S1			
Cooling capacity (1)	kW			6.0					
Heating capacity (1)			kW		6.8				
Power supply					1 Phase, 220~240 V. 50Hz				
		Sound level	dB(A)		Hi: 51 Me: 44 Lo: 35				
	Cooling	Power level	dB			63			
Noise level		Sound level	dB(A)			Hi: 51 Me: 47 Lo: 38			
	Heating Power level			II: 31 WE: 47 LO: 30					
Exterior dimensions (Height x Width x Denth)			mm			230 x 7/0 x /55			
						200 x 740 x 400			
(Munsell color)						_			
Net weight			kg			23			
Refrigerant	Heat exch	nanger			Louv	ver fins & inner grooved tub	ing		
equipment	Device co	ntrol				Microcomputer control			
	Fan type	& Q'ty				Centrifugal fan x 2			
	Motor		W			51			
Air handling	Air flow	Cooling	m <sup>3</sup> /min			Hi: 12.5 Me: 9.0 Lo: 5.5			
equipment		Heating	111 / 11 111	Hi: 15.0 Me: 12.5 Lo: 8.0					
	Fresh air	ntake				Not possible			
	Air filter, 0	Quality / Quantity				Polypropylene net x 1			
	Operation	switch				Wireless-Remote control			
Operation	Room ten	nperature control			I	Microcomputer thermostat			
control	Operation	Diaplay			F	RUN: Green, TIMER: Yellow,			
	Operation	ГЫЗріау			HI P	OWER: Green, ECONO: Gre	een		
Safety devices				Frost protection, Serial signal error protection, Indoor fan motor error protection					
	Refrigera	nt piping size (O.I	D) mm		Liquid line:	$\phi$ 6.35 (1/4") Gas line: $\phi$	12.7 (1/2")		
Installation	Connectir	ng method				Flare connecting			
data	Attached	length of piping	m			-			
	Insulation	for piping		Necessary (Both sides), independent					
Drain hose						Connectable (VP 16)			
Connection wiring	Size x Co	re number			1.	5mm <sup>2</sup> x 4 cores (Including e	earth cable)		
	Connectir	ng method				Terminal block (Screw fixi	ng type)		
IP number						IPX0			
Accessories (included	d)					Mounting kit			
Option parts					Wired rem	ote control, Interface kit (SC	C-BIKN-E)		
Note (1) The da	ta are meas	ured at the follow	ving conditions	S.		The pipe length is 7.5m.			
	Item Indoor air temp			Outdoor air temperature		Standards			
Operation	Operation DB			DB	WB				
Cooling 27°C			19°C	35°C	24°C				
Heating	_	7°C	6°C	130-11, 013 0 9012					
(2) This air (3) The op	r-conditione eration data	r is manufactured are applied to th	d and tested in ne 220/230/24	n conformity with 0V districts resp	the ISO. ectively.				



# (4) 4way ceiling cassette type (FDTC)

	Model FDTC25VF											
Item			Panel <b>TC-PSA-25W-F</b>									
Power source	e		220/230/240V~50Hz									
Operation d	ata		Cooling Heating									
Nominal ca	pacity (1)	kW		2.5			3.4					
Sound Press	sure Level	dB(A)	Cooling P-Hi : 38 Hi : 36 Me : 32 Lo : 29 Heating P-Hi : 39 Hi : 38 Me : 33 Lo : 29.5									
Exterior dim Height x Wid	ensions dth x Depth	mm	Unit 248 × 570 × 570 Panel 35 × 700 × 700									
Exterior app (Munsell co	earance blor)		Plaster White (6.8Y8.9/0.2) near equivalent									
Net weight		kq			UN	IIT 15	PANEL 3.5					
Heat exchar	nger	Ū			Louver fir	n & inn	er grooved tubing					
Air handling Fan type & 0	equipment Q'ty					Turbo	o fan × 1					
Motor <sta< td=""><td>rting method&gt;</td><td>W</td><td></td><td></td><td>33 &lt;</td><td>&lt; Direc</td><td>ct line start &gt;</td></sta<>	rting method>	W			33 <	< Direc	ct line start >					
Air flow (Sta	ndard)	m³/min			Cooling P-H Heating P-Hi :	i : 10 10.5	Hi:9 Me:8 Lo:6.5 Hi:9.5 Me:8.5 Lo:7					
Available sta	atic pressure	Pa		0								
Outdoor air	intake		Not possible									
Air filter, Q't	у		Pocket plastic net × 1 (Washable)									
Shock & vib	ration absorber				Rubber	sleeve	e (for fan motor)					
Insulation (n	oise & heat)				Po	olyuret	thane form					
Remote con	trol			wired : I	RC-E5 (option)	wirel	ess : RCN-TC-24W-ER (option)					
Room temp	erature control				Therm	nostat	by electronics					
Safety equip	oment				Overload Frost p	protect protect	ction for fan motor tion thermostat					
Installation of	lata				Liqui	d line :	: <i>ϕ</i> 6.35 (1/4")					
Refrigerant	oiping size	mm			Gas I	ine :	: <i>ϕ</i> 9.52 (3/8")					
Connecting	method					Flare	e piping					
Drain pump					Bu	ilt-in D	Drain pump					
Drain					Hose C	onnec	table with VP20					
Insulation fo	r piping				Necessary	(both	Liquid & Gas lines)					
IP number						IF	PX0					
Standard Ad	cessories				Mour	nting k	kit, Drain hose					
Notes	(1) The data are	measured	d at the following co	onditions when	the air flow is h	igh mo	ode.					
	Item	Indoor	air temperature Outdoor air temperature									
	Operation	DB	WB DB WB									
	Cooling	27°C	19°C 35°C 24°C									
	Heating		20°C	7°C	6°C							
	<ul> <li>(2) This package</li> <li>(3) Sound pressunct these value and (4) The operation</li> <li>(5) When wireles</li> </ul>	d air-con ure level i re somew n data ind s remote	r-conditioner is manufactured and tested in conformity with the ISO. evel indicates the value in an anechoic chamber. During operation omewhat higher due to ambient temperature. ta indicates when the air-conditioner is operated at 220/230/240V 50Hz. emote control is used, fan is 3 speed setting(Hi-Me-Lo) only.									

	_	Model	I FDTC35VF														
Item			Panel TC-PSA-25W-E														
Power source	e		220/230/240V~50Hz														
Operation d	ata		Cooling Heating														
Nominal ca	pacity (1)	kW	3.5 4.5														
Sound Press	sure Level	dB(A)	Cooling P-Hi:41 Hi:40 Me:36 Lo:30 Heating P-Hi:43 Hi:42 Me:35 Lo:32														
Exterior dim Height x Wid	ensions dth x Depth	mm	Unit 248 × 570 × 570 Panel 35 × 700 × 700								Unit 248 × 570 × 570 Panel 35 × 700 × 700						
Exterior app (Munsell co	earance blor)				(6.8Y8.	Plaster 9/0.2) ne	White ear equivalent										
Net weight	,	kg			UN	IT 15 P/	ANEL 3.5										
Heat exchar	nger				Louver fir	& inner	grooved tubing										
Air handling Fan type & (	equipment Q'ty					Turbo fa	an × 1										
Motor <sta< td=""><td>rting method&gt;</td><td>W</td><td></td><td></td><td>33 &lt;</td><td>Cirect I</td><td>ine start &gt;</td></sta<>	rting method>	W			33 <	Cirect I	ine start >										
Air flow (Sta	ndard)	m³/min			Cooling P-H Heating P-Hi	i : 11 Hi : 11.5 Hi	:9.5 Me:9 Lo:7 i:10.0 Me:9 Lo:8										
Available sta	atic pressure	Pa															
Outdoor air	intake		Not possible														
Air filter, Q't	у		Pocket plastic net × 1 (Washable)														
Shock & vib	ration absorber		Rubber sleeve (for fan motor)														
Insulation (n	oise & heat)		Polyurethane form														
Remote con	trol			wired :	RC-E5 (option)	wireles	s : RCN-TC-24W-ER (option)										
Room temp	erature control				Therm	nostat by	/ electronics										
Safety equip	oment				Overload Frost p	protectio protectio	on for fan motor n thermostat										
Installation of	data				Liqui	d line : $\phi$	b 6.35 (1/4")										
Refrigerant	oiping size	mm –			Gas I	ine :¢	9.52 (3/8")										
Connecting	method					Flare p	iping										
Drain pump					Βι	ilt-in Dra	ain pump										
Drain					Hose C	onnectal	ble with VP20										
Insulation fo	r piping				Necessary	(both Lie	quid & Gas lines)										
IP number						IPX	0										
Standard Ac	cessories				Mour	nting kit,	Drain hose										
Notes	(1) The data are	measured a	t the following co	onditions when	the air flow is h	igh mod	e.										
	Item	Indoor a	air temperature Outdoor air temperature														
	Operation	DB	WB DB WB														
	Cooling	27°C	; 19°C 35°C 24°C														
	Heating		20°C	7℃	6°C												
	<ul> <li>(2) This packaged air-conditioner is manufactured and tested in conformity with the ISO.</li> <li>(3) Sound pressure level indicates the value in an anechoic chamber. During operation these value are somewhat higher due to ambient temperature.</li> <li>(4) The operation data indicates when the air-conditioner is operated at 220/230/240V 50Hz.</li> <li>(5) When wireless remote control is used, fan is 3 speed setting(Hi-Me-Lo) only.</li> </ul>																



Model FDTC50VF									
Item			Panel TC-PSA-25W-E						
Power source	ce		220-240V~50Hz / 220V~60Hz						
Operation data				Cooling		Heating			
Nominal capacity (1)		kW		5.0		5.8			
Sound Pressure Level dBi			Cooling P-Hi : 47 Hi : 42 Me : 36 Lo : 30 Heating P-Hi : 47 Hi : 42 Me : 36 Lo : 32						
Exterior dimensions Height x Width x Depth			Unit 248 × 570 × 570 Panel 35 × 700 × 700						
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9/0.2) near equivalent						
Net weight		kg	UNIT 15 PANEL 3.5						
Heat exchar	nger		Louver fin & inner grooved tubing						
Air handling Fan type & (	equipment Q'ty		Turbo fan × 1						
Motor <sta< td=""><td>rting method&gt;</td><td>W</td><td></td><td></td><td>33 -</td><td>Direct line start &gt;</td></sta<>	rting method>	W			33 -	Direct line start >			
Air flow (Sta	ndard)	m³/min	Cooling P-Hi: 13.5 Hi: 11.5 Me: 9 Lo: 7 Heating P-Hi: 13.5 Hi: 11.5 Me: 9 Lo: 8						
Available sta	atic pressure	Pa				0			
Outdoor air intake			Not possible						
Air filter, Q'ty			Pocket plastic net × 1 (Washable)						
Shock & vibration absorber			Rubber sleeve (for fan motor)						
Insulation (noise & heat)			Polyurethane form						
Remote con	trol		wired : RC-E5 (option) wireless : RCN-TC-24W-ER (option)						
Room temp	Room temperature control				Thern	ostat by electronics			
Safety equip	oment		Overload protection for fan motor Frost protection thermostat						
Installation of	data		Liquid line : $\phi$ 6.35 (1/4")						
Refrigerant piping size		mm	Gas line : $\phi$ 12.7 (1/2")						
Connecting	method		Flare piping						
Drain pump			Built-in Drain pump						
Drain			Hose Connectable with VP20						
Insulation for piping Necessary (both Liquid & Gas lines)				(both Liquid & Gas lines)					
IP number			IPX0						
Standard Accessories			Mounting kit, Drain hose						
Notes (1) The data are measured at the following conditions.									
Item		Indoor	r air temperature Outdoor air temperature						
	Operation	DB	WB	DB	WB				
	Cooling	27°C	19°C	35°C	24°C				
Heating			20°C 7°C 6°C						
<ul> <li>(2) This packaged air-conditioner is manufactured and tested in conformity with the ISO.</li> <li>(3) Sound pressure level indicates the value in an anechoic chamber. During operation these value are somewhat higher due to ambient temperature.</li> <li>(4) The operation data indicates when the air-conditioner is operated at 230V50Hz or 220V60Hz.</li> <li>(5) When wireless remote control is used, fan is 3 speed setting(Hi-Me-Lo) only.</li> </ul>									

	_	Model	FDTC60VF						
Item			Panel TC-PSA-25W-E						
Power source	e		220-240V~50Hz / 220V~60Hz						
Operation data				Cooling		Heating			
Nominal capacity (1)		kW		6.0		6.8			
Sound Pressure Level dl			Cooling P-Hi : 47 Hi : 46 Me : 39 Lo : 30 Heating P-Hi : 47 Hi : 46 Me : 39 Lo : 32						
Exterior dimensions Height x Width x Depth mm			Unit 248 × 570 × 570 Panel 35 × 700 × 700						
Exterior appearance			Plaster White (6.8Y8.9/0.2) near equivalent						
Net weight	,	kg	UNIT 15 PANEL 3.5						
Heat exchar	naer		Louver fin & inner grooved tubing						
Air handling Fan type & 0	equipment Q'ty		Turbo fan x 1						
Motor <sta< td=""><td>rting method&gt;</td><td>W</td><td></td><td></td><td>33 -</td><td>Direct line start &gt;</td></sta<>	rting method>	W			33 -	Direct line start >			
Air flow (Sta	ndard)	m³/min			Cooling P-Hi : Heating P-Hi :	13.5 Hi:13.5 Me:10 Lo:7 13.5 Hi:13.5 Me:10 Lo:8			
Available sta	atic pressure	Pa				0			
Outdoor air intake			Not possible						
Air filter. Q'tv			Pocket plastic net × 1 (Washable)						
Shock & vibration absorber			Rubber sleeve (for fan motor)						
Insulation (noise & heat)			Polyurethane form						
Remote con	trol		wired : RC-E5 (option) wireless : RCN-TC-24W-ER (option)						
Room temperature control			Thermostat by electronics						
O of the second			Overload protection for fan motor						
Salety equip	ment		Frost protection thermostat						
Installation of	lata	mm	Liquid line : <i>φ</i> 6.35 (1/4")						
Refrigerant p	oiping size		Gas line : <i>φ</i> 12.7 (1/2")						
Connecting	method		Flare piping						
Drain pump			Built-in Drain pump						
Drain			Hose Connectable with VP20						
Insulation fo	Insulation for piping		Necessary (both Liquid & Gas lines)						
IP number			IPX0						
Standard Accessories			Mounting kit, Drain hose						
Notes (1) The data are measured at the following conditions.									
Item		Indoor	or air temperature Outdoor air temperature						
	Operation	DB	WB	DB	WB				
	Cooling	27°C	19°C	35°C	24°C				
Heating			20°C 7°C 6°C						
<ul> <li>(2) This packaged air-conditioner is manufactured and tested in conformity with the ISO.</li> <li>(3) Sound pressure level indicates the value in an anechoic chamber. During operation these value are somewhat higher due to ambient temperature.</li> <li>(4) The operation data indicates when the air-conditioner is operated at 230V50Hz or 220V60Hz.</li> <li>(5) When wireless remote control is used, fan is 3 speed setting(Hi-Me-Lo) only.</li> </ul>									

# (5) Ceiling suspended type (FDEN)

Adapted to **RoHS** directive

		Model	FDEN50VF							
Item										
Power source										
Operation data		1.147	Cooling			Heating				
Nominal ca	pacity (1)	KW ID(A)		5.0		5.8				
Sound Pres	sure Level	dB(A)			P-Hi : 46	HI:39 Me:38 Lo:37				
Exterior dim Height x Wie	Exterior dimensions mm Height x Width x Depth			210 × 1,070 × 690						
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9/0.2) near equivalent							
Net weight		kg	28							
Heat exchar	nger		Louver fin & inner grooved tubing							
Air handling Fan type & 0	equipment Q'ty		Centrifugal fan × 2							
Motor <sta< td=""><td>rting method&gt;</td><td>W</td><td></td><td></td><td>25</td><td>&lt; Direct line start &gt;</td></sta<>	rting method>	W			25	< Direct line start >				
Air flow (Sta	ndard)	m³/min			P-Hi : 1	1 Hi:10 Me:9 Lo:7				
Available sta	atic pressure	Pa				0				
Outdoor air	intake		Not possible							
Air filter, Q'ty			Pocket plastic net × 2 (Washable)							
Shock & vibration absorber			Rubber sleeve(for fan motor)							
Insulation (noise & heat)			Polyurethane form							
Remote control			wired : RC-E5 (option) wireless : RCN-E1R (option)							
Room temperature control			Thermostat by electronics							
Sofoty oquir			Internal thermostat for fan motor							
Salety equip	Jinent		Frost protection thermostat							
Installation of	data	mm	Liquid line: I/U $\phi$ 6.35 (1/4")							
Refrigerant	oiping size		Gas line:							
Connecting	method		Flare piping							
Drain pump										
Drain			Hose Connectable with VP20							
Insulation for piping			Necessary (both Liquid & Gas lines)							
IP number			IPX0							
Standard Accessories			Mounting kit, Drain hose							
Notes (1) The data are measured at the following conditions.										
Item		Indoor	r air temperature Outdoor air temperature							
	Operation	DB	WB	DB	WB					
	Cooling	27°C	19°C	35°C	24°C					
Heating			20°C 7°C 6°C							
	(2) This package (3) Sound pressu these value au	d air-con ure level i re somew	ditioner is manufac ndicates the value /hat higher due to a	ctured and teste in an anechoic o mbient tempera	d in conformity chamber. Durin ture.	with the ISO. g operation				

(4) The operation data indicates when the air-conditioner is operated at 230V50Hz or 220V60Hz.(5) When wireless remote control is used, fan is 3 speed setting(Hi-Me-Lo) only.

#### (6) Duct connected Low/Middle static pressure type (FDUM)

Adapted to RoHS directive

Item		Model	FDUM50VF					
Power sour								
Operation d	ata		Cooling Heating					
Nominal ca	pacity (1)	kW		5.0		5.8		
Sound Pres	sure Level	dB(A)	5.05.8					
Exterior dim Height x Wi	ensions dth x Depth	mm	280 × 750 × 635					
Exterior app (Munsell co	pearance plor)		_					
Net weight		kg				29		
Heat exchai	nger				Louver fir	a & inner grooved tubing		
Air handling Fan type & 0	equipment Q'ty		Centrifugal fan × 1					
Motor <sta< td=""><td>rting method&gt;</td><td>W</td><td></td><td></td><td>100</td><td>&lt; Direct line start &gt;</td><td></td></sta<>	rting method>	W			100	< Direct line start >		
Air flow (Sta	indard)	m³/min	P-Hi:13 Hi:10 Me:9 Lo:8					
External sta	tic pressure	Pa			Sta	ndard:35 Max:100		
Outside air intake			Possible					
Air filter, Q'ty			Procure locally					
Shock & vibration absorber			Rubber sleeve(for fan motor)					
Insulation (noise & heat)			Polyurethane form					
Remote control			wired : RC-E5 (option) wireless : RCN-KIT3-E (option)					
Room temperature control			Thermostat by electronics					
Safety equipment			Overload protection for fan motor Frost protection thermostat					
Installation	data		Liquid line: I/U					
Refrigerant	piping size		Gas line:					
Connecting	method		Flare piping					
Drain pump			Built-in Drain pump					
Drain			Hose Connectable with VP25					
Insulation for	or piping		Necessary (both Liquid & Gas lines)					
IP number			IPX0					
Standard Accessories			Drain hose					
Notes (1) The data are measured at the following conditions.						1		
Item		Indoor	air temperature	Outdoor air	temperature	External static pressure of indoor unit		
	Operation	DB	WB	DB	WB	Ра		
Cooling		27°C	19°C	35°C	24°C	35		
Heating			20°C	7°C	6°C			
<ul> <li>(2) This packaged air-conditioner is manufactured and tested in conformity with the ISO.</li> <li>(3) Sound pressure level indicates the value in an anechoic chamber. During operation these value are somewhat higher due to ambient temperature.</li> <li>(4) The operation data indicates when the air-conditioner is operated at 230V50Hz or 220V60Hz.</li> </ul>								

(5) Static pressure of optional air filter "UM-FL1EF" is 5Pa initially.(6) If wireless remote control is used, only 3-speed fan setting (Hi-Me-Lo) is availabe.







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RKY000Z054A

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Symbol	Content					
A	Gas piping	Model	20~35: \$\$\phi_9.52 (3\frackstrip) (Flare) 50 : \$\$\phi_12.7 (1\frackstrip) (Flare)			
В	Liquid piping	φ6.35 (1∕4") (Flare)				
С	Hole on wall for right rear piping	( <b>\$</b> 65)				
D	Hole on wall for left rear piping	(¢65)				
E	Drain hose	VP16				
F	Outlet for wiring					
G	Outlet for piping (on both side)					



Wireless remote control



Wired - remote control



Notes (1) The model name label is attached on the underside of the panel.(2) It takes the interface kit (SC-BIKN-E) to connect the wired remote control.

Unit:mm

'13 • SCM-T-136



RKW000Z401

'13 • SCM-T-136
-		
Symbol	Content	
A	Gas piping	\$\$\\$
В	Liquid piping	φ6.35 (1∕4") (Flare)
С	Hole on wall for right rear piping	( <i>φ</i> 65)
D	Hole on wall for left rear piping	( <i>φ</i> 65)
E	Drain hose	VP16
F	Screw point fasten the indoor unit	φ5
G	Outlet for piping (on both side)	











'13 • SCM-T-136

(2)

Floor standing type (SRF) Models SRF25ZJX-S, 35ZJX-S

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RFB000Z004

Symbol	Content	
A	Gas piping	φ 12.7 (1∕2") (Flare)
В	Liquid piping	φ6.35(1∕4")(Flare)
С	Hole on wall for right rear piping	( <i>φ</i> 65)
D	Hole on wall for left rear piping	( <i>φ</i> 65)
E	Drain hose	VP16
F	Screw point fasten the indoor unit	<b>ø</b> 5
G	Outlet for piping (on both side)	



860

Outlet for down piping (Refer to the above view) 000



Model SRF50ZJX-S1

RFB000Z005

'13 • SCM-T-136

# (3) Ceiling concealed type (SRR)

Models SRR25ZJ-S, 35ZJ-S, 50ZJ-S, 60ZJ-S1







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PFA003Z816

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

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5

Ceiling suspended type (FDEN)

# (6) Duct connected Low/Middle static pressurer type (FDUM) Model FDUM50VF



Symbol	Content	
A	Gas piping	¢ 12.7 (1∕2") (Flare)
В	Liquid piping	¢6.35(1∕4")(Flare)
C1	Drain piping	VP25 (1. D. 25, O. D. 32)
C2	Drain piping (Gravity drainage)	VP20 (I. D. 20, O. D. 26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	( <i>ф</i> 150) (Knock out)
G	Air outlet opening for ducting	(¢125) (Knock out)
Н	Inspection hole	(450X450)

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



- (7) Remote control
  - (a) Wireless remote control Models SRK, SRF (Typical example)

60

 Model SRR

Unit: mm

# Models FDTC, FDEN, FDUM (Option parts)



### (b) Wired remote control (Option parts)



# Wiring specifications

(1) If the prolongation is over 100m, change to the size below.

But, wiring in the remote control case should be under 0.5mm<sup>2</sup>. 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 <sup>2</sup> ×2 cores
Under 300m	0.75mm <sup>2</sup> ×2 cores
Under 400m	1.25mm <sup>2</sup> ×2 cores
Under 600m	2.0mm <sup>2</sup> ×2 cores

PJZ000Z295



Item	Description
CNE-CNY	Connector
FM	Fan motor
SM1,2	Flap motor
LM <sub>1,2</sub>	Louver motor
IM	Inlet motor
Th1	Room temp. sensor
Th2 1,2	Heat exch. sensor
LS	Limit switch
DS	Diode stack
F	Fuse
Т	Terminal block
Va	Varistor

# 2.3 Electrical wirings (1) Wall mounted type (SRK) Models SRK20ZJX-S, 25ZJX-S, 35ZJX-S

Color Marks		
Mark	Color	
BK	Black	
BL	Blue	
RD	Red	
WH	White	
Y	Yellow	
Y⁄G	Yellow/Green	

# '13 • SCM-T-136



RWA000Z236A

'13 • SCM-T-136

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Item	Description
CNE-CNY	Connector
FM	Fan motor
SM	Flap motor
LM1,2	Louver motor
HD	Humidity sensor
Thi	Room temp. sensor
Th <sub>2,3</sub>	Heat exch. sensor
DS	Diode stack
F	Fuse
Т	Terminal block
Va	Varistor

Mark	Color
BK	Black
BL	Blue
RD	Red
WH	White
Y	Yellow
Y/G	Yellow / Green

RWA000Z226



Item	Description
CNE-CNX2	Connector
FMI	Fan motor
SM1	Flap motor
LM1,2	Louver motor
Th1	Room temp. sensor
Th21,2	Heat exch. sensor
Th3	Humidity sensor
DS	Diode stack
F	Fuse
Т	Terminal block
Va	Varistor

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Color Marks	
Mark	Color
BK	Black
BL	Blue
RD	Red
WH	White
Y	Yellow
Y/G	Yellow/Green

RWA000Z400



ltem	Description
CNE-CNX2	Connector
FM	Fan motor
SM1,2	Flap motor
DM <sub>1</sub>	Damper motor
DM <sub>2</sub>	Damper arm motor
Th1	Room temp. sensor
Th2 1,2	Heat exch. sensor
Th3	Humidity sensor
DS	Diode stack
F	Fuse
Т	Terminal block
Va	Varistor

(2) Floor standing type (SRF) Models SRF25ZJX-S, 35ZJX-S

Color Marks						
Mark	Color					
BK	Black					
BL	Blue					
RD	Red					
WH	White					
YE	Yellow					
Y/G	Yellow/Green					

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RWB000Z052



Item	Description				
CNE-CNX2	Connector				
FM	Fan motor				
SM1,2	Flap motor				
DM1	Damper motor				
DM2	Damper arm motor				
Th1	Room temp. sensor				
Th2 1,2	Heat exch. sensor				
Th3	Humidity sensor				
DS	Diode stack				
F	Fuse				
Т	Terminal block				
Va	Varistor				

Color Marks					
Mark	Color				
ΒK	Black				
BL	Blue				
RD	Red				
WH	White				
Y	Yellow				
Y/G	Yellow/Green				

Model SRF50ZJX-S1

RWB000Z054



(3) Ceiling concealed type (SRR) Models SRR25ZJ-S, 35ZJ-S, 50ZJ-S, 60ZJ-S1

Power source 1 phase 220 - 240 V 50Hz

TO OUTDOOR UNIT

-	POWER WIRES	1 2/N
	SIGNAL WIRE	3

Color Marks

Meaning	of Marks
meaning	ormand

Mark	Color	Mark	Color	] [	ltem	Description	ltem	Description
BK	Black	YE	Yellow	] [	CNE-CNY	Connector	Th1	Room temp. sensor
BL	Blue	Y∕G	Yellow / Green		F	Fuse	Th2	Heat exch. sensor 1
OR	Orange				FM ı	Fan motor	Th3	Heat exch. sensor 2
RD	Red				DM	Drain motor	Т	Terminal block
WH	White				FS	Float Switch	Va	Varistor

RWA000Z230

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							0
CNB~Z	Connector		.ED•3	Indication lamp (Red-Inspection)	TB1	Terminal block (Power source)	
DM	Drain motor		.M1~4	Louver motor		( mark)	
F200~203	Fuse	S	SW2	Remote control communication	TB2	Terminal block (Signal line) ( mark)	
FΜι	Fan motor			address	Thc	Thermistor (Remote control)	
FS	Float switch	S	SW5	Plural units Master / Slave setting	Thi-A	Thermistor (Return air)	
LED•2	Indication lamp	S	SW6	Model capacity setting	Thi-R1,2,3	Thermistor (Heat exchanger)	
	(Green-Normal operation)	S	SW7-1	Operation check, Drain motor test run	X4	Relay for DM	
					mark	Closed-end connector	Γ



4

4way ceiling cassette type (FDTC)



4. Use twin core cable (0.3mm<sup>2</sup>X2) at remote control line. 5. Do not put remote control line alongside power source line.



CFL 1	Capacitor for FMI			
CNB~Z	Connector			
F	Fuse			
FMI 1	Fan motor (with thermostat)			
LED•2	Indication lamp (Green-Normal operation)			
LED•3	Indication lamp (Red-Inspection)			
LM	Louver motor			
SW2	Remote control communication address			
SW5	Plural units Master/Slave setting			
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 control)			
Thl -A	Thermistor (Return air)			
Thl -R1,2,3	Thermistor (Heat exchanger)			
Trl	Transformer			
X1~3,6	Relay for FM			
X4	Relay for DM			

Color Marks Mark

ΒK

BL

BR Brown

OR

Ρ

Color

Black

Blue

Orange

Pink

Mark

RD

WH

Υ

Color

Red

White

Yellow

Y/GN Yellow/Green

Model EDENSOVE	Ceiling suspended
	l type
	(FDEN

5

3. Use twin core cable (0.3mm<sup>2</sup>) at remote control line.

4. Do not put remote control line alongside power source line.

 Insulate with tape the removed line.
 The LED of that removed connector will not be able to make any indication.

PFA003Z819

1

									F1~3	Fuse		
									FM11	Fan motor	with thermo	stat)
									FS	Float switch	ı	
		Remote control		Control I	РСВ	1		TI D.	L	Reactor		
			X WH			CNN 2	RD <u>t</u> °	Ih-H1	LED · E2	Indication I	amp (Green	-Normal operation)
		to Y		-[]3 WH   IEP		YE 3	YE to	Th⊦B2	LED · E3	Indication I	amp (Red-Ir	nspection)
						4	YE L		SW2	Remote co	ntrol commu	inication address
Connecting line	etween WH <u>YEIGN</u> WH	Pov	wer PCB	₽	+ +	5	BK to	Thi-R3	SW5	Plural units	Master/Slav	ve setting
indoor unit and	tdoor unit RD BD 3 F1 (3.15A)	Power circuit	2 WH		SW2	6	- Div		SW6	Model cap	acity setting	
Power source line	112 F2 (3.15A)		CNW1 <sup>3</sup> / <sub>5</sub> WH	<sup>3</sup> / <sub>4</sub> CNW2		0			SW7-1	Operation	check, Drair	n motor test run
Signal line Earth			WH 6 WH 7 WH	1 5 WH 6 7	0115	BK 2	BK to	Thi-A	SW7-3	Powerful m	ode Valid/Ir	ivalid
Lauri	TB1 YE/GN BL 3 WH		9 WH 10 WH	8	5W5	_	යි හ		TB1	Terminal bl	ock (Power	ce) ( 🗆 mark)
			11 WH 12 WH	10	SW6	CNI <sup>1</sup>			TB2	Terminal bl	ock (Signal	line) ( 🗆 mark)
	F3 (2A)		L L		SW7	BL 2	RD		Thc	Thermistor	(Remote co	ntrol)
						. г			ThI-A	Thermistor	(Return air)	
		]			FOT HA	CNR		M	ThI-R1,2,3	Thermistor	(Heat excha	anger)
		CNM1 WH			0112	2			mark	Closed-end	d connector	
						+12 1	Prepare on site	1	Color Marks			
	FM 1					2 ONT 3		(Operation)	Mark	Color	Mark	Color
					0.171	BL 4	(XR3)	(Compressor ON)	BK	Black	RD	Red
					CNIA BL	5		(Inspection)	BL	Blue	WH	White
					1 2		XH5 (Hemote op input:vol	eration i-free contact)	OR	Orange	YE/GN	Yellow/Green
ס	<ul> <li>Notes 1 indicates wiring on site.</li> <li>2. See the wiring diagram of outside unit about inside unit and outside unit.</li> <li>3. Use twin core cable (0.3mm<sup>2</sup> ×2) at remote c</li> <li>4. Do not put remote control line alongside pow</li> </ul>	the line between ontrol line. /er source line.			(Remote operative) volt-free conta	ation input: act)				l orango	12,014	roionyditoit

(6) Duct connected Low/Middle static pressure type (FDUM) Model FDUM50VF

CNB~Z

DM

Connector Drain motor

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'13 • SCM-T-136

Mike position

# 2.4 Noise levels

(1) Wall mounted type (SRK)

(a) Models SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2









(b) Models SRK20, 25, 35, 50ZJ-S









(c) Model SRK71ZK-S





















•Mike position

Return duct

Unit

1.5m 🖞

Supply duct

Mike position (Center & below unit)

Air→

(6) Duct connected Low/Middle static pressure type (FDUM)

Model		FDUM50VF
Noise	Cooling	37 dB(A)
Level	Heating	37 dB(A)



# 2.5 Characteristics of fan

- Characteristic FAN (1) shows air flow vs. External Static Pressure (E.S.P.) range where settings of E.S.P. are maximum E.S.P. (100Pa), rated E.S.P., and minimum E.S.P. (10Pa).
- Characteristic FAN (2) shows air flow vs. E.S.P. curve when set fan tap is set P-Hi with each setting of E.S.P. by remote control.
- · External Static Pressure (E.S.P.) can be set by wired remote control.
- You can set required E.S.P. by wired remote control which calculate it with the set air flow rate and pressure loss of the duct connected.

#### Model FDUM50VF

Characteristic FAN(1)





2.6 Installation manuals	RKY012A007B	$\square$	∆ war	NING
(1) Wall mounted tyde (SRK)			Do not vent R410A into the atmosphere : R410A is a fluorinated	• Do not perform any change of protective device itself or its setup
(a) Models SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2			greenhouse gas, covered by the Kyoto Protocol with Groval Warming Potential (GWP)=1975. • Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause	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.
This installation manual illustrates the method of installing an indoor     unit.	A wired remote control unit is supplied separately as an optional part. When install the unit, be sure to check whether the selection of		personal injury due to entrapment, burn or electric shocks.	
<ul> <li>For electrical wiring work, please see instructions set out on the backside.</li> </ul>	installation place, power supply specifications, usage limitation (piping length, height differences between indoor and outdoor units, power			ΓΙΟΝ
<ul> <li>For outdoor unit installation and refrigerant piping, please refer to page 29 to 44.</li> </ul>	supply voltage and etc.) and installation spaces.		<ul> <li>Carry out the electrical work for ground lead with care.</li> <li>Do not connect the ground lead to the gas line, water line, lightning conduct</li> </ul>	or or telephone line's ground lead. Incorrect grounding can cause unit faults
SAFETY PRE	CAUTIONS		such as electric shocks due to short-circuiting.	
Read the "SAFETY PRECAUTIONS" carefully first of all and strictly follow it during the installation work in order to protect yourself.     The precautionary items mentioned below are distinguished into two levels, <b>WARNING</b> and <b>(<u>ACAUTION</u>) <b>WARNING</b> is listallation would cause serious consequences such as injuries or death.     <b>(<u>ACAUTION</u>)</b>     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.     Be sure to confirm no anomaly on the equipment by commissioning after com- pleted installation and explain the operating methods as well as the maintenance methods of this equipment to the user according to the owner's manual. </b>	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. For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, groves, etc., and then perform the installation works. Please pay attention not to fall down the tools, etc. when installing the unit at the high position. If unusual noise can be heard during operation, consult the dealer. The meanings of "Marks" used here are shown as follows:           Image: Never do it under any circumstances.         Image: Never do it under any circumstances.		Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current.     Using the incorrect one could cause the system falure and fre.     Install isolator or disconnect switch on the power supply wiring in accordance with the local codes and regulations.     The isolator should be locked in OFF state in accordance with the N80204-1.     Be sure to install indoor unit properly according to the installation 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 to the installation the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored times installation the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the drainage pipe can cause dropping water into the locored to the	failing from the installation place. For installation work, be careful not to get injured with the heat exchanger, piping flare portion or screws etc. 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. When perform the air conditioner operation (cooling or drying opera- tion) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such as incorporate the air into the room that may appropriate to ventila-
A WARNING			room and damaging personal property. • Be sure to install the drainage pipe with descending slope of 1/100	tion (For example; Open the door a little). In addition, just as above, so set up the opening port if the room lapse into negative pressure status
<ul> <li>Installation must be carried out by the qualified installar. 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 mailunction. Do not carry out the installation and maintenance work except the by qualified installer.</li> <li>Install the system in full accordance with the installation manual. Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire.</li> <li>Be sure to use only for household and residence. If this appliance is installed in inferior environment such as machine shop and etc., it can cause mailunction.</li> <li>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.</li> <li>Install 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.</li> <li>When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage, referred by the formula (accordance with ISO5149). If the density or ferifigerant exceeds the limit, please consult the dealer and install the ventilation, system, otherwise lack of oxygen can occur, which can cause serious accident.</li> <li>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.</li> <li>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.</li> </ul>	<ul> <li>Tighten the flare nut by torque wrench with specified method. If the flare nut were tightened with excess torque, this may cause burst and refrigerant leakage after a long period.</li> <li>The electrical installation must be carried out by the qualified electricial installation must be carried out by the qualified electricial installation, and the system must be connected to the dedicated circuit.</li> <li>Power supply with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire.</li> <li>Be sure to shut off the power before starting electrical work.</li> <li>Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment.</li> <li>Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work.</li> <li>Unconformable cables can cause electric leak, anomalous heat production of refre.</li> <li>This appliance must be connected to main power supply by means of a circuit breaker or switch f(tuse:16A) with a contact separation of at least 3mm.</li> <li>When plugging this appliance, a plug conforming to the norm IEC60684-1 must be used.</li> <li>Use the prescribed cables for electrical connection, tighten the cables securely in terminal blocks and refie.</li> <li>Arrange the wiring in the control box so that it cannot be pushed up further into the hox. Install the service panel correctly. Incorrect installation my result in overheating and fire.</li> <li>Be sure to switch off the power supply in the event of installation, inspection or servicing.</li> <li>If the power supply is not shut off, there is a risk of electric shocks, unit failure or presonal injury due to the unexpected start of fan.</li> <li>Be sure to wear protective goggles and glows while at work.</li> <li>Earth leakage breaker must be installed.</li> <li>If the earth leakage breaker is not installed, it can cause electric shocks.</li> </ul>		<ul> <li>or more, and not to make traps and air-bleedings.</li> <li>Check if the drainage runs off socurely during commissioning and ensure the space for inspection and maintenance.</li> <li>Secure a space for installation, inspection and maintenance specified in the manual.</li> <li>Insufficient space can result in accident such as personal injury due to</li> <li>Do not install the unit in the locations listed below.</li> <li>Locations where any substances that can affect the unit such as subhide gas, chloride gas, acid and alkaline can occur.</li> <li>Vehicles and ships:</li> <li>Locations where cosmetic or special sprays are often used.</li> <li>Locations with ere any machines which generate high frequency harmonics are used.</li> <li>Locations with alty atmospheres such as coastlines.</li> <li>Locations where the unit is the manual.</li> <li>Locations with alty atmospheres such as coastlines.</li> <li>Locations where the unit is exposed to chinney smoke.</li> <li>Locations with any obstacles thich an 1000m high).</li> <li>Locations with any obstacles which an prevent inlet and outlet air of the unit.</li> <li>Locations with any obstacles which can prevent liket and outlet air of the unit.</li> <li>Locations with any obstacles which any accur (in case of multiple units installation).</li> <li>Locations where strong air blows against the air outlet of outdour unit.</li> <li>Locations where strong air blows against the air outlet of esc for any obstacles which can prevent liket and outlet air of the unit.</li> <li>Locations where strong air blows against the air outlet for the unit.</li> <li>Locations where strong air blows against the air outlet for the unit.</li> <li>Locations where strong air blows against the air outlet for the unit.</li> <li>Locations where something located above the unit outled fail.</li> <li>It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire.</li> <li>Do not install the indoor unit in the locations listed below (Be sure to install</li></ul>	<ul> <li>due to register of the wind for the high rise apartment etc.</li> <li>Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work.</li> <li>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.</li> <li>If leaked gases accumulate around the unit, it can cause fire.</li> <li>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.</li> <li>Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire.</li> <li>Do not use the indoor unit at the place where water splashes may occur such as in laundries.</li> <li>Since the indoor unit, and waterproof, it can cause electric shocks and fire.</li> <li>Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics.</li> <li>Equipment such as inverters, standby generators, medical high trequency equipment such as inverters, standby generators, medical high trequency equipment and telecommunication equipment, and obstruct its function or cause jamming.</li> <li>Do not install the remote control at the direct sunlight.</li> <li>It can cause malfunction or deformation of the remote control.</li> <li>Do not use the unit or special purposes such as storing foods, cooling precision instruments and preservation of animals, plants or art.</li> <li>Do not use any materials of the items.</li> <li>Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used.</li> </ul>
<ul> <li>Do not put the drainage pipe directly into drainage channels where poisonous gases such as subphile gas can occur. Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak.</li> <li>Ensure that no air enters in the refrigerant circuit when the unit is installed and removed. If air enters in the refrigerant circuit becomes too high, which can cause burst and personal injury.</li> </ul>	Do not processing, space the power cord, or share a SOCKet with     other power plugs.     This may cause fire or electric shock due to defecting contact, defecting     insulation and over-current etc.     Do not bundling, winding or processing for the power cord. Or, do     not deforming the power plug due to tread it.     This may cause fire or heating.		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 install the unit near the location where leakage of combustible gases can occur.	Unit related and the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of t

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#### BEFORE INSTALLATION

O Before installation check that the power supply matches the air conditioner.

Standard accessories (Installation kit) Accessories for indoor unit		Q'ty
1	Installation board (Attached to the rear of the indoor unit)	1
2	Wireless remote control	1
3	Remote control holder	1
4	Tapping screws (for installation board 4dia. by 25mm)	4
(5)	Wood screw (for remote control switch holder 3.5(mm). by 16mm)	2
6	Battery [R03(AAA,Micro) 1.5V]	2
1	Air-cleaning filters	2
(8)	Filter holders (Attached to the front panel of indoor unit)	2
9	Insulation (#486 50 x 100 t3)	1
	Option parts	Q'ty

(a)	Sealing plate	1
b	Sleeve	1
©	Inclination plate	1
d	Putty	1
e	Drain hose (extention hose)	
ſ	Piping cover (for insulation of connection piping)	1











O To install, insert the panel arm into the slot on the front panel from the position shown in right illustration, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch warks.





# INSTALLATION OF WIRELESS REMOTE CONTROL

#### Mounting method of battery

#### Fixing to pillar or wall

Ouncover the wireless remote control, and mount the batteries [R03(AAA,Micro),×2 pieces] in the body regularly. 





OConventionally, operate the wireless remote control by holding in your hand.

# HOW TO RELOCATE OR DISPOSE OF THE UNIT

O In order to protect the environment, be sure to pump down (recovery of refrigerant). • Forced cooling operation

O Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit when the pipes are removed from the unit.

#### <How to numn down>

- ① Connect charge hose to service port of outdoor unit. 2 Liquid side : Close the liquid valve with hexagon wrench key. Gas side : Fully open the gas valve
- Carry out cooling operation . (If indoor temperature is low, operate forced cooling operation.) ③ After low pressure gauge become 0.01MPa, stop cooling operation
- and close the gas valve.

Turn on a power supply again after a while after turn off a power supply. Then press continually the ON/OFF button 5 seconds or more.



# **INSTALLATION TEST CHECK POINTS**

Check the following points again after completion of the installation, and before turning on the power. Conduct a test run again and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.



# CONCERNING TERMINAL CONNECTION FOR AN INTERFACE

① Remove the front panel and lid of control.

(2) There is a terminal (respectively marked with CNS) for the indoor control board.

The remote control is normal

- In connecting an interface, connect to the respective terminal securely with the connection harness supplied with an optional "Interface connection kit SC-BIKN-E" and fasten the connection harness onto the indoor control
- box with the clamp supplied with the kit.

For more details, please refer to the user's manual of your "Interface connection kit SC-BIKN-E".

#### (b) Models SRK20ZJ-S. 25ZJ-S. 35ZJ-S. 50ZJ-S

#### RLA012A012B

Always do it according to the

instruction.

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 $\bigcirc$ 

 This installation manual illustrates the method of installing an indoor unit.

· For electrical wiring work, please see instructions set out on the backside.

· For outdoor unit installation and refrigerant piping, please refer to page 29 to 44.

SAFETY PRECAUTIONS

 Read the "SAFETY PRECAUTIONS" carefully first of all and strictly follow it during the installation work in order to protect yourself.

 The precautionary items mentioned below are distinguished into two levels. WARNING and A 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

· 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.

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, powe supply voltage and etc.) and installation spaces.

A wired remote control unit is supplied separately as an optional part.

 Keen 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

· For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, groves, etc., and then perform the installation works

· Please pay attention not to fall down the tools, etc. when installing the unit at the high position

 If unusual noise can be heard during operation, consult the dealer. . The meanings of "Marks" used here are shown as follows

Never do it under any circumstances

#### $\mathbb{A}$ WARNING

- 0 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. Do not carry out the installation and maintenance work except the by qualified installer
  - Install the system in full accordance with the installation manual. Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire.
  - Be sure to use only for household and residence.

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- If this appliance is installed in inferior environment such as machine shop and etc., it can cause malfunction.
- · 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.

 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.

- 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.
- When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage.
- referred by the formula (accordance with ISO5149). If the density of refrigerant exceeds the limit, please consult the dealer and
- install the ventilation system, otherwise lack of oxygen can occur, which can cause serious accident
- 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.
- 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.

#### • 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. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak. 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.

 Tighten the flare nut by torque wrench with specified method. If the flare nut were tightened with excess torque, this may cause burst and refrigerant leakage after a long period. The electrical installation must be carried out by the gualified 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. This appliance must be connected to main power supply by means of a circuit breaker or switch (fuse:16A) with a contact separation of at least 3mm. · When plugging this appliance, a plug conforming to the norm IEC60884-1 must be used. 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 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. · Be sure to wear protective goggles and gloves while at work. Earth leakage breaker must be installed If the earth leakage breaker is not installed, it can cause electric shocks.

. Do not processing, splice the power cord, or share a socket with other power plugs. This may cause fire or electric shock due to defecting contact, defecting

#### insulation and over-current etc. Do not bundling, winding or processing for the power cord. Or. do

#### not deforming the power plug due to tread it. This may cause fire or heating.

#### **/ ₩ARNING**

#### Do not vent R410A into the atmosphere : R410A is a fluorinated · 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 Touching rotating equipments, hot surfaces or high voltage parts can cause can cause fire or burst.

## **∧** CAUTION

#### · Carry out the electrical work for ground lead with care. 0

Warming Potential (GWP)=1975

greenhouse gas, covered by the Kyoto Protocol with Groval

Do not run the unit with removed panels or protections.

personal injury due to entrapment, burn or electric shocks.

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

falling from the installation place

#### Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current. Using the incorrect one could cause the system failure and fire Install isolator or disconnect switch on the power supply wiring in accordance with the local codes and regulations The isolator should be locked in OFE state in accordance with EN60204-1

Be sure to install indoor unit properly according to the installation 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

 Secure a space for installation, inspection and maintenance specified in the manual.

#### Insufficient space can result in accident such as personal injury due to

#### Do not install the unit in the locations listed below.

- Locations where carbon fiber, metal powder or any powder is floating. Locations where any substances that can affect the unit such as sulphide
   as etc.) or combustible gas (such as thinner and petroleum gases) gas, chloride gas, acid and alkaline can occur.
- Vehicles and shins
- Locations where cosmetic or special sprays are often used. Locations with direct exposure of oil mist and steam such as kitchen and
- machine nlant
- Locations where any machines which generate high frequency harmonics occur such as in laundries. 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 ammonic 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. under the indoor 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.
- . Locations where something located above the unit could fall. It can cause remarkable decrease in performance, corrosion and damage
- of components, malfunction and fire.

#### 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 Do not use any materials other than a fuse with the correct rating in 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 1m)
- · Locations where drainage cannot run off safely

#### It can affect performance or function and etc. Do not install the unit near the location where leakage of

combustible gases can occur

· For installation work, be careful not to get injured with the heat exchanger, piping flare portion or screws etc. · 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. . When perform the air conditioner operation (cooling or drying operation) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such as incorporate the air into the room that may appropriate to ventilation (For example; Open the door a little). In addition, just as above, so set up the opening port if the room lapse into negative pressure status due to register of the wind for the high rise apartment etc. 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. If leaked cases accumulate around the unit, it can cause fire . Do not install the unit where corrosive gas (such as sulfurous acid

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

# . Do not use the indoor unit at the place where water splashes may

Since the indoor unit is not waterproof, it can cause electric shocks and fire • 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 iamming.

# . Do not place any variables which will be damaged by getting wet

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 control at the direct sunlight.

It can cause malfunction or deformation of the remote control. · 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. the location where fuses are to be used.

Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.

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#### · Do not touch any buttons with wet hands. It can cause electric shocks

· 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
### **BEFORE INSTALLATION**

O Before installation check that the power supply matches the air conditioner.

### Standard accessories (Installation kit) Q'ty Accessories for indoor unit Installation board 1 (Attached to the rear of the indoor unit) (2) Wireless remote control 1 (3) Remote control holder 1 Tapping screws 4 5 (for installation board ø4 X 25mm) Wood screws (for remote control switch holder ø3.5 X 16mm) (5) 2 6 Battery [R03 (AAA, Micro) 1.5V] 2 2 ⑦ Air-cleaning filters Filter holders (8) 2 (Attached to the front panel of indoor unit) 9 Insulation (#486 50 x 100 t3) 1

Option parts					
(a)	Sealing plate				
b	Sleeve	1			
©	Inclination plate	1			
d	Putty	1			
e	Drain hose (extension hose)	1			
Ð	Piping cover (for insulation of connection piping)	1			

Necessary tools for the installation work						
1	Plus headed driver					
2	Knife					
3	Saw					
4	Tape measure					
5	Hammer					
6	Spanner wrench					
7	Torque wrench (14.0 ~ 61.0N·m (1.4 ~ 6.1kgf·m))					
8	Hole core drill (65mm in diameter)					
9	Wrench key (Hexagon) [4m/m]					
10	Flaring tool set (Designed specifically for R410A)					
11	Gas leak detector (Designed specifically for R410A)					
12	Gauge for projection adjustment (Used when flare is made by using) conventional flare tool					
13	Pipe bender					

# SELECTION OF INSTALLATION LOCATION

(Install at location that meets the following conditions, after getting approval from the customer)

### Indoor unit

O Where there is no obstructions to the air flow and where the cooled and heated air can be evenly distributed.

A solid place where the unit or the wall will not vibrate A place where there will be enough space for servicing. (Where space mentioned below can be secured)

Where wiring and the piping work will be easy to conduct. ) The place where receiving part is not exposed to the direct rays of the sun or the strong rays of the street lighting. A place where it can be easily drained.

A place separated at least 1m away from the television or the radio. (To prevent interference to images and sounds.) Places where this unit is not affected by the high frequency equipment or electric equipment. Avoid installing this unit in place where there is much oil mist.

O Places where there is no electric equipment or household under the installing unit.

### Wireless remote control

A place where the air conditioner can be received the signal surely during operating the wireless remote control. Places where there is no affected by the TV and radio etc.

O Do not place where exposed to direct sunlight or near heat devices such as a stove.

### INSTALLATION OF INDOOR UNIT Installation of Installation board Look for the inside wall structures (Intermediats support or pillar and firmly install the unit after level surface has been checked.) እኩ Level position (2 locations Bolt (M6×12) Mating mark for O. level surface Mounting board O Adjustment of the installation board in the horizontal direction is to be conducted with four screws in a temporary tightened state O Adjust so the board will be level by turning the board Standard with the standard hole as hole the center.





Piping in the left direction

Right

Left downward







5 cm minimum

from the wall

Relation between setting plate and indoor unit INSTALLATION SPACE (INDOOR UNIT) (FRONT VIEW) Indoor unit Installation board 50 L Space for service Space for service 100 139 209 589 106.5 106.5 \ 55 55 Piping for Gas 403.6 Piping for Liquid 471.6 Piping for Liquid (20 to 50 type): ø6.35 Drain hose (ø16) 531.8 Piping for Gas (20 to 35 type): ø9.52 \Piping hole (ø65) Piping hole (ø65) (50 type) : ø12.7 [Drain hose changing procedures] 1. Remove the drain hose 2. Remove the drain cap. Piping in the right direction O Remove the screw and drain hose, O Remove it with hand or pliers. making it rotate. Piping is possible in the rear, left, left rear, left downward, right or downward direction. 3. Insert the drain car 4. Connect the drain hose 0

Outdoor side

utty

-

57

6.5 cm minimum from the ceiling

Sleeve

1 P

(sold separately)

Installation board

10 cm minimur

from the wall,

○ Insert the drain cap which was removed ○ Insert the drain hose securely, making at procedure "2" securely using a rotate. And install the screw. Note: Be careful that If it is not Inserted hexagonal wrench etc. Note: Be careful that If it is not Inserted securely, water leakage may occur. securely, water leakage may occur.







# INSTALLATION OF WIRELESS REMOTE CONTROL

### Mounting method of battery

 $\bigcirc$  Uncover the wireless remote control, and mount the batteries [R03 (AAA, Micro),  $\times 2$  pieces] in the body regularly. (Fit the poles with the indication marks,  $\bigoplus$  &  $\bigoplus$  without fail)



# Fixing to pillar or wall

- $\bigcirc$  Conventionally, operate the wireless remote control by holding
- in your hand. O Avoid installing it on a clay wall etc.



# HOW TO RELOCATE OR DISPOSE OF THE UNIT

In order to protect the environment, be sure to pump down (recovery of refrigerant).
 Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit when the pipes are removed from the unit.

### <How to pump down>

- ① Connect charge hose to check joint of outdoor unit.
- Diquid side : Close the liquid valve with hexagon wrench key. Gas side : Fully open the gas valve. Carry out cooling operation. (If indoor temperature is low, operate
- forced cooling operation.)
- ③ After low pressure gauge become 0.01MPa, stop cooling operation and close the gas valve.





# INSTALLATION TEST CHECK POINTS

Check the following points again after completion of the installation, and before turning on the power. Conduct a test run again and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.

### After installation

- The power supply voltage is correct as the rating.
- No gas leaks from the joints of the operation valve.
- Power cables and crossover wires are securely fixed to the terminal board.
- The screws of the lid and the terminal cover are tightened securely.
- Operation valve is fully open.

The pipe joints for indoor and outdoor pipes have been insulated.

### Test run

- Air conditioning operation is normal.
- No abnormal noise.
- Water drains smoothly.
- Protective functions are not working.
- The remote control is normal.

Operation of the unit has been explained to the customer. (Three-minutes restart preventive timer) When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not a maffunction.

# CONCERNING TERMINAL CONNECTION FOR AN INTERFACE

0 Remove the front panel and lid of control.

- Remove the control.
   There is a terminal (respectively marked with CNS) for the indoor control board.
- In connecting an interface, connect to the respective terminal securely with the connection harness supplied with an optional "Interface connection kit SC-BIKN-E" and fasten the connection harness
- onto the indoor control box with the clamp supplied with the kit.
- For more details, please refer to the user's manual of your "Interface connection kit SC-BIKN-E".



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### (c) Model SRK71ZK-S

### RKW012A400A

 $\bigcirc$ 

 This installation manual illustrates the method of installing an indoor unit.

 For electrical wiring work, please see instructions set out on the backside.

\* For outdoor unit installation and refrigerant piping please refer to page 29 to 44.

# SAFETY PRECAUTIONS

 Read the "SAFETY PRECAUTIONS" carefully first of all and strictly follow it during the installation work in order to protect yourself. The precautionary items mentioned below are distinguished into two levels.

Kwanning and <u>Caution</u>.
 Wanning 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.

. 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.

- A wired remote control unit is supplied separately as an optional part. . 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.
- Keen 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
  - For installing gualified personnel, take precautions in respect to themselves by using suitable protective clothing, groves, etc., and then perform the installation works
  - · Please pay attention not to fall down the tools, etc. when installing the unit at the high position.
  - . If unusual noise can be heard during operation, consult the dealer . The meanings of "Marks" used here are shown as follows:



### 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. **∧** WARNING Be sure to install the drainage pipe with descending slope of 1/100 or more, and not to make traps and air-bleedings. Installation must be carried out by the qualified installer. Tighten the flare nut by torgue wrench with specified method. Check if the drainage runs off securely during commissioning and ensure If you install the system by yourself, it may cause serious trouble such as If the flare nut were tightened with excess torque, this may cause burst and the space for inspection and maintenance. water leaks, electric shocks, fire and personal injury, as a result of a system refrigerant leakage after a long period. Secure a space for installation, inspection and maintenance malfunction. Do not carry out the installation and maintenance work except • The electrical installation must be carried out by the qualified specified in the manual electrician in accordance with "the norm for electrical work" and Insufficient space can result in accident such as personal injury due to serious accidents. Install the system in full accordance with the installation manual. "national wiring regulation", and the system must be connected to • Do not install the unit in the locations listed below. Incorrect installation may cause bursts, personal injury, water leaks, electric the dedicated circuit. $\bigcirc$ Power supply with insufficient capacity and incorrect function done by Locations where carbon fiber, metal powder or any powder is floating. Locations where any substances that can affect the unit such as sulphide Be sure to use only for household and residence. improper work can cause electric shocks and fire gas, chloride gas, acid and alkaline can occur. If this appliance is installed in inferior environment such as machine shop Be sure to shut off the power before starting electrical work. Vehicles and shins substances are handled. Failure to shut off the power can cause electric shocks, unit failure or . Locations where cosmetic or special sprays are often used. incorrect function of equipment. Locations with direct exposure of oil mist and steam such as kitchen and Be sure to use the cables conformed to safety standard and cable machine plant ampacity for power distribution work. • Locations where any machines which generate high frequency harmonics occur such as in laundries. Unconformable cables can cause electric leak, anomalous heat production are used. or fire. · Locations with salty atmospheres such as coastlines. This appliance must be connected to main power supply by means . Locations with heavy snow (If installed, be sure to provide base flame and of a circuit breaker or switch (fuse:20A) with a contact separation of snow hood mentioned in the manual). at least 3mm. Locations where the unit is exposed to chimney smoke. · When plugging this appliance, a plug conforming to the norm . Locations at high altitude (more than 1000m high). IEC60884-1 must be used. · Locations with ammonic atmospheres. Use the prescribed cables for electrical connection, tighten the . Locations where heat radiation from other heat source can affect the unit. cause iamming. cables securely in terminal block and relieve the cables correctly to Locations without good air circulation. prevent overloading the terminal blocks. • Locations with any obstacles which can prevent inlet and outlet air of the unit. under the indoor unit. Loose connections or cable mountings can cause anomalous heat . Locations where short circuit of air can occur (in case of multiple units production or fire installation) Arrange the wiring in the control box so that it cannot be pushed up . Locations where strong air blows against the air outlet of outdoor unit. valuables further into the box. Install the service panel correctly. . Locations where something located above the unit could fall. Incorrect installation may result in overheating and fire. It can cause remarkable decrease in performance, corrosion and damage · Be sure to switch off the power supply in the event of installation, of components, malfunction and fire. inspection or servicing. Do not install the indoor unit in the locations listed below (Be sure If the power supply is not shut off, there is a risk of electric shocks, unit to install the indoor unit according to the installation manual for failure or personal injury due to the unexpected start of fan. art each model because each indoor unit has each limitation). · Be sure to wear protective goggles and gloves while at work. • Locations with any obstacles which can prevent inlet and outlet air of the • Do not use any materials other than a fuse with the correct rating in · Earth leakage breaker must be installed. If the earth leakage breaker is not installed, it can cause electric shocks unit Locations where vibration can be amplified due to insufficient strength of Connecting the circuit with conner wire or other metal thread can cause • Do not processing splice the power cord, or share a socket with structure unit failure and fire Locations where the infrared receiver is exposed to the direct sunlight or other nower plugs This may cause fire or electric shock due to defecting contact, defecting the strong light beam (in case of the infrared specification unit) It can cause electric shocks . Locations where an equipment affected by high harmonics is placed (TV insulation and over-current etc. Do not bundling, winding or processing for the power cord. Or, do set or radio receiver is placed within 1m) system is in operation not deforming the power plug due to tread it. Locations where drainage cannot run off safely. This may cause fire or heating It can affect performance or function and etc. • Do not install the unit near the location where leakage of frost injury

combustible gases can occur

When the relative humidity is higher than 80% or drainage pipe is clogged,

. Do not use the unit for special purposes such as storing foods.

# It can cause the damage of the items.

the location where fuses are to be used

cold depending the operating condition, and it can cause burn injury or

### and etc., it can cause malfunction 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. 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. 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 When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage. referred by the formula (accordance with ISO5149). If the density of refrigerant exceeds the limit, please consult the dealer and install the ventilation system, otherwise lack of oxygen can occur, which can cause serious accident 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. 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. Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulphide gas can occur Poisonous cases will flow into the room through drainage pine and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak 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.

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the by qualified installer

shocks and fire.

Never do it under any

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### **M WARNING**

 Do not vent R410A into the atmosphere : R410A is a fluorinated . Do not perform any change of protective device itself or its setup greenhouse gas, covered by the Kyoto Protocol with Groval condition Warming Potential (GWP)=1975. . Do not run the unit with removed panels or protections.

Install isolator or disconnect switch on the power supply wiring in

· Be sure to install indoor unit properly according to the installation

The isolator should be locked in OFF state in accordance with EN60204-1.

Improper installation of indoor unit can cause dropping water into the room

accordance with the local codes and regulations.

manual in order to run off the drainage smoothly.

### The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component Touching rotating equipments, hot surfaces or high voltage parts can cause can cause fire or burst. personal injury due to entrapment, burn or electric shocks

### **∧** CAUTION

· 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

### Use the circuit breaker of correct capacity. Circuit breaker should falling from the installation place. be the one that disconnect all poles under over current. . For installation work, be careful not to get injured with the heat Using the incorrect one could cause the system failure and fire

exchanger, piping flare portion or screws etc · 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

### . When perform the air conditioner operation (cooling or drying operation) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such as incorporate the air into the room that may appropriate to ventilation (For example; Open the door a little). In addition, just as above, so set up the opening port if the room lapse into negative pressure status due to register of the wind for the high rise apartment etc. Be sure to perform air tightness test by pressurizing with nitroger 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

### If leaked cases accumulate around the unit, it can cause fire, · 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

Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire.

# . Do not use the indoor unit at the place where water splashes may

Since the indoor unit is not waterproof, it can cause electric shocks and fire. · 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

# . Do not place any variables which will be damaged by getting wet

condensation or drainage water can drop and it can cause the damage of

### · Do not install the remote control at the direct sunlight.

It can cause malfunction or deformation of the remote control. cooling precision instruments and preservation of animals, plants or

. Do not touch any buttons with wet hands

# • Do not touch any refrigerant pipes with your hands when the

During operation the refrigerant pipes become extremely hot or extremely

### **BEFORE INSTALLATION**

O Before installation check that the power supply matches the air conditioner.

### Standard accessories (Installation kit) Q'ty Accessories for indoor unit Installation board 1 1 (Attached to the rear of the indoor unit) 2 Wireless remote control 1 (3) 1 Remote control holder Tapping screws (4) 10 (for installation board ø4 X 25mm) Wood screws (5) 2 (for remote control switch holder ø3.5 X 16mm) 6 Battery [R03 (AAA, Micro) 1.5V] 2 ⑦ Air-cleaning filters 2 Filter holders (8) 2 (Attached to the front panel of indoor unit) (9) Insulation (#486 50 x 100 t3) 1

Option parts				
Sealing plate	1			
b Sleeve	1			
© Inclination plate	1			
d Putty	1			
Drain hose (extension hose)	1			
Piping cover     (for insulation of connection piping)	1			

	Necessary tools for the installation work					
1	Plus headed driver					
2	Knife					
3	Saw					
4	Tape measure					
5	Hammer					
6	Spanner wrench					
7	Torque wrench $\begin{pmatrix} 14.0 \sim 82.0 \text{N·m} \\ (1.4 \sim 8.2 \text{kgf·m}) \end{pmatrix}$					
8	Hole core drill (65mm in diameter)					
9	Wrench key (Hexagon) [4m/m]					
10	Flaring tool set (Designed specifically for R410A)					
11	Gas leak detector (Designed specifically for R410A					
12	Gauge for projection adjustment (Used when flare is made by using) conventional flare tool					
13	Pipe bender					

# SELECTION OF INSTALLATION LOCATION (Install at location that meets the following conditions, after getting approval from the customer)

### Indoor unit

- Where there is no obstructions to the air flow and where the cooled and heated air can be evenly distributed. A solid place where the unit or the wall will not vibrate.
- A place where there will be enough space for servicing. (Where space mentioned below can be secured) Where whing and the biping work will be easy to conduct.
- The place where receiving part is not exposed to the direct rays of the sun or the strong rays of the street lighting. ) A place where it can be easily drained. ) A place separated at least 1m away from the television or the radio. (To prevent interference to images and sounds.)
- Places where this unit is not affected by the high frequency equipment or electric equipment. Avoid installing this unit in place where there is much oil mist.
- Places where there is no electric equipment or household under the installing unit.

### Wireless remote control

- A place where the air conditioner can be received the signal surely during operating the wireless remote control.
- Do not place where exposed to direct sunlight or near heat devices such as a stove.

# INSTALLATION OF INDOOR UNIT

Installation of Installation board





# Drilling of holes and fixture of sleeve (Option parts)

Taping of the exterior

Tape only the portion

that goes through the

with the piping.

wall Always tape the wiring

In case of piping in the right rear direction

Shaping of pipings

O Hold the bottom of the

shaping it.

piping and fix direction

before stretching it and

Piping

Drain hose

Sufficient care must be taken not to damage the panel when connecting pipes.



Piping in the left direction

Left-hand-side piping

Piping in the left rear direction

Riaht

Rear



5 cm minimum

from the wall

- N

· Matters of special notice when piping from left or central/rear of the unit. [Drain hose changing procedures]

Piping is possible in the rear, left, left rear, left downward, right or downward direction.

Left Downward

rea

ł٢ Left do

Right-hand-side piping

Piping in the right direction

Piping in the right rear direction

# '13 • SCM-T-136

Insert the drain cap which was removed O Insert the drain hose securely, making Note: Be careful that If it is not Inserted securely, water leakage may

6.5 cm minimum from the ceiling

Sleeve (sold separately)

Space

299

77

Piping hole (ø65)

2. Remove the drain cap.

Remove it with hand or pliers.

rotate. And install the screw.

occur.

4. Connect the drain hose

0

Drain hose 772 (ø16)

and nut anchor

1. Remove the drain hose

Remove the screw and drain hose, making it rotate.

at procedure "2" securely using a

hexagonal wrench etc. Note: Be careful that If it is not Inserted

securely, water leakage may occur

3. Insert the drain cap

for service 100

106

Spa

5 2

(Unit : mm)

1) Installation board

10 cm minimum

from the wall

APR

TTT (C





3 Tighten the screw (A) 2pcs / screw

(B) 3pcs to fix the front panel.

(4) Install the air filter

(5) Install the air inlet panel.

e.

Screw (B)

Screw (A)

e.

Screw (B)

Screw (A)

۵.

Screw (B)

Front pane

To remove / To install

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illustration, hold the panel at both ends of lower

part, lower it downward slowly, then push it

slightly until the latch works.



# INSTALLATION OF WIRELESS REMOTE CONTROL

### Mounting method of battery

 $\bigcirc$  Uncover the wireless remote control, and mount the batteries [R03 (AAA, Micro), ×2 pieces] in the body regularly. (Fit the poles with the indication marks,  $\bigoplus$  &  $\bigoplus$  without fail)





 Conventionally, operate the wireless remote control by holding in your hand.
 Avoid installing it on a clay wall etc.



# HOW TO RELOCATE OR DISPOSE OF THE UNIT

In order to protect the environment, be sure to pump down (recovery of refrigerant).
 Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit when the pipes are removed from the unit.

### <How to pump down>

- ① Connect charge hose to check joint of outdoor unit.
   ② Liquid side : Close the liquid valve with hexagon wrench key. Gas side : Fully open the gas valve.
- Carry out cooling operation. (If indoor temperature is low, operate forced cooling operation.)
- ③ After low pressure gauge become 0.01MPa, stop cooling operation and close the gas valve.





# INSTALLATION TEST CHECK POINTS

Check the following points again after completion of the installation, and before turning on the power. Conduct a test run again and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.

### After installation

- The power supply voltage is correct as the rating.
- No gas leaks from the joints of the operation valve.
- Power cables and crossover wires are securely fixed to the terminal board.
- The screw of the lid is tightened securely.
- Operation valve is fully open.

The pipe joints for indoor and outdoor pipes have been insulated.

### Test run

Air conditioning operation is normal.

No abnormal noise.

- Water drains smoothly.
- Protective functions are not working. The remote control is normal.

Operation of the unit has been explained to the customer. (Three-minutes restart preventive timer) When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not a malfunction.

# CONCERNING TERMINAL CONNECTION FOR AN INTERFACE

- ① Remove the air inlet panel, lid and front panel.
- ② Remove the control cover. (Remove the screw.)
- There is a terminal (respectively marked with CNS) for the indoor control board. In connecting an interface, connect to the respective terminal securely with the connection harness
- supplied with an optional "Interface connection kit SC-BIKN-E" and fasten the connection harness
- onto the indoor control box with the clamp supplied with the kit. For more details, please refer to the user's manual of your "Interface connection kit SC-BIKN-E".



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### (2) Floor standing type (SRF) RFB012A002B A WARNING Models SRF25, 35ZJX-S, 50ZJX-S1 $\bigcirc$ • Do not vent R410A into the atmosphere : R410A is a fluorinated Do not perform any change of protective device itself or its setup greenhouse gas, covered by the Kyoto Protocol with Groval condition Warming Potential (GWP)=1975. The forced operation by short-circuiting protective device of pressure Do not run the unit with removed panels or protections. switch and temperature controller or the use of non specified component Touching rotating equipments, hot surfaces or high voltage parts can cause \_\_\_\_\_ can cause fire or burst This installation manual illustrates the method of installing an indoor • A wired remote control unit is supplied separately as an optional part. personal injury due to entrapment, burn or electric shocks. When install the unit, be sure to check whether the selection of unit For electrical wiring work, please see instructions set out on the installation place, power supply specifications, usage limitation (piping **∧** CAUTION length, height differences between indoor and outdoor units, power backside. For outdoor unit installation and refrigerant piping, please refer to supply voltage and etc.) and installation spaces. Carry out the electrical work for ground lead with care. nage 29 to 44 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 SAFETY PRECAUTIONS · Read the "SAFETY PRECAUTIONS" carefully first of all and strictly follow it manual Use the circuit breaker of correct capacity. Circuit breaker should falling from the installation place 0 Keep the installation manual together with owner's manual at a place where during the installation work in order to protect yourself. . For installation work, be careful not to get injured with the heat be the one that disconnect all poles under over current any user can read at any time. Moreover if necessary, ask to hand them to a The precautionary items mentioned below are distinguished into two levels Using the incorrect one could cause the system failure and fire exchanger, piping flare portion or screws etc. **WARNING** and **CAUTION**. new user. Install isolator or disconnect switch on the power supply wiring in Be sure to insulate the refrigerant pipes so as not to condense the For installing gualified personnel, take precautions in respect to themselves by WARNING : Wrong installation would cause serious consequences such accordance with the local codes and regulations. ambient air moisture on them. using suitable protective clothing, groves, etc., and then perform the as injuries or death. The isolator should be locked in OFF state in accordance with EN60204-1. Insufficient insulation can cause condensation, which can lead to moisture installation works CAUTION : Wrong installation might cause serious consequences Be sure to install indoor unit properly according to the installation damage on the ceiling, floor, furniture and any other valuables. · Please pay attention not to fall down the tools, etc. when installing the unit at depending on circumstances. When perform the air conditioner operation (cooling or drving operamanual in order to run off the drainage smoothly. the high position Both mentions the important items to protect your health and safety so strictly Improper installation of indoor unit can cause dropping water into the room tion) in which ventilator is installed in the room. In this case, using the . If unusual noise can be heard during operation, consult the dealer follow them by any means. and damaging personal property. air conditioner in parallel with the ventilator, there is the possibility . The meanings of "Marks" used here are shown as follows: Be sure to confirm no anomaly on the equipment by commissioning after Install the drainage pipe to run off drainage securely according to that drain water may backflow in accordance with the room lapse into Never do it uno circumstances. Never do it under any 00 Always do it according to the com-pleted installation and explain the operating methods as well as the the installation manual the negative pressure status. Therefore, set up the opening port such instruction. maintenance methods of this equipment to the user according to the owner's Incorrect installation of the drainage pipe can cause dropping water into the as incorporate the air into the room that may appropriate to ventilaroom and damaging personal property tion (For example; Open the door a little). In addition, just as above, so M WARNING Be sure to install the drainage pipe with descending slope of 1/100 set up the opening port if the room lapse into negative pressure status or more, and not to make traps and air-bleedings. due to register of the wind for the high rise apartment etc. Q Installation must be carried out by the qualified installer. Tighten the flare nut by torque wrench with specified method. Check if the drainage runs off securely during commissioning and ensure Be sure to perform air tightness test by pressurizing with nitrogen If you install the system by yourself, it may cause serious trouble such as If the flare nut were tightened with excess torque, this may cause burst and the space for inspection and maintenance gas after completed refrigerant piping work. water leaks, electric shocks, fire and personal injury, as a result of a system refrigerant leakage after a long period. Secure a space for installation, inspection and maintenance If the density of refrigerant exceeds the limit in the event of refrigerant malfunction. Do not carry out the installation and maintenance work except • The electrical installation must be carried out by the qualified specified in the manual. leakage in the small room, lack of oxygen can occur, which can cause electrician in accordance with "the norm for electrical work" and Insufficient space can result in accident such as personal injury due to the by qualified installer. serious accidents Install the system in full accordance with the installation manual. "national wiring regulation", and the system must be connected to Do not install the unit in the locations listed below. If leaked gases accumulate around the unit, it can cause fire. $\bigcirc$ Incorrect installation may cause bursts, personal injury, water leaks, electric the dedicated circuit. • Do not install the unit where corrosive gas (such as sulfurous acid Locations where carbon fiber, metal powder or any powder is floating. shocks and fire. Power supply with insufficient capacity and incorrect function done by . Locations where any substances that can affect the unit such as sulphide gas etc.) or combustible gas (such as thinner and petroleum gases) Be sure to use only for household and residence. improper work can cause electric shocks and fire. gas, chloride gas, acid and alkaline can occur can accumulate or collect, or where volatile combustible If this appliance is installed in inferior environment such as machine shop Be sure to shut off the power before starting electrical work. Vehicles and ships. substances are handled. and etc., it can cause malfunction. Failure to shut off the power can cause electric shocks, unit failure or Locations where cosmetic or special sprays are often used. Corrosive gas can cause corrosion of heat exchanger, breakage of plastic Use the original accessories and the specified components for incorrect function of equipment. · Be sure to use the cables conformed to safety standard and cable Locations with direct exposure of oil mist and steam such as kitchen and parts and etc. And combustible gas can cause fire. installation. Do not use the indoor unit at the place where water splashes may If parts other than those prescribed by us are used, It may cause water ampacity for power distribution work. machine plant Locations where any machines which generate high frequency harmonics occur such as in laundries. leaks, electric shocks, fire and personal injury. Unconformable cables can cause electric leak, anomalous heat production Since the indoor unit is not waterproof, it can cause electric shocks and fire Install the unit in a location with good support. are used or fire. Locations with salty atmospheres such as coastlines. · Do not install nor use the system close to the equipment that Unsuitable installation locations can cause the unit to fall and cause This appliance must be connected to main power supply by means . Locations with heavy snow (If installed, be sure to provide base flame and generates electromagnetic fields or high frequency harmonics. of a circuit breaker or switch (fuse:16A) with a contact separation of material damage and personal injury. snow hood mentioned in the manual). Equipment such as inverters, standby generators, medical high frequency Ventilate the working area well in the event of refrigerant leakage at least 3mm. · Locations where the unit is exposed to chimney smoke equipments and telecommunication equipments can affect the system, and during installation . When plugging this appliance, a plug conforming to the norm . Locations at high altitude (more than 1000m high). cause malfunctions and breakdowns. The system can also affect medical If the refrigerant comes into contact with naked flames, poisonous gas is IEC60884-1 must be used · Locations with ammonic atmospheres. equipment and telecommunication equipment, and obstruct its function or produced. Use the prescribed cables for electrical connection, tighten the . Locations where heat radiation from other heat source can affect the unit. cause iamming. When installing in small rooms, take prevention measures not to cables securely in terminal block and relieve the cables correctly to · Locations without good air circulation. . Do not place any variables which will be damaged by getting wet exceed the density limit of refrigerant in the event of leakage, prevent overloading the terminal blocks. Locations with any obstacles which can prevent inlet and outlet air of the unit. under the indoor unit. referred by the formula (accordance with ISO5149). Loose connections or cable mountings can cause anomalous heat When the relative humidity is higher than 80% or drainage pipe is clogged If the density of refrigerant exceeds the limit, please consult the dealer and Locations where short circuit of air can occur (in case of multiple units) production or fire installation). install the ventilation system, otherwise lack of oxygen can occur, which Arrange the wiring in the control box so that it cannot be pushed up condensation or drainage water can drop and it can cause the damage of Locations where strong air blows against the air outlet of outdoor unit. valuables. can cause serious accident further into the box. Install the service panel correctly. Locations where something located above the unit could fall Do not install the remote control at the direct sunlight After completed installation, check that no refrigerant leaks from Incorrect installation may result in overheating and fire. It can cause remarkable decrease in performance, corrosion and damage It can cause malfunction or deformation of the remote control the system. · Be sure to switch off the power supply in the event of installation, of components, malfunction and fire Do not use the unit for special purposes such as storing foods. If refrigerant leaks into the room and comes into contact with an oven or inspection or servicing. Do not install the indoor unit in the locations listed below (Be sure cooling precision instruments and preservation of animals, plants of If the power supply is not shut off, there is a risk of electric shocks, unit other hot surface, poisonous das is produced. to install the indoor unit according to the installation manual for Use the prescribed pines flare puts and tools for R410A failure or personal injury due to the unexpected start of fan each model because each indoor unit has each limitation). It can cause the damage of the items Lising existing parts (for B22 or B407C) can cause the unit failure and Be sure to wear protective goggles and gloves while at work . Locations with any obstacles which can prevent inlet and outlet air of the . Do not use any materials other than a fuse with the correct rating in serious accidents due to burst of the refrigerant circuit. Earth leakage breaker must be installed. unit the location where fuses are to be used. If the earth leakage breaker is not installed, it can cause electric shocks . Locations where vibration can be amplified due to insufficient strength of Connecting the circuit with copper wire or other metal thread can cause $\bigcirc$ • Do not put the drainage pipe directly into drainage channels where . Do not processing, splice the power cord, or share a socket with structure unit failure and fire poisonous gases such as sulphide gas can occur. . Locations where the infrared receiver is exposed to the direct sunlight or · Do not touch any buttons with wet hands. other power plugs. Poisonous gases will flow into the room through drainage pipe and This may cause fire or electric shock due to defecting contact, defecting the strong light beam (in case of the infrared specification unit). It can cause electric shocks. seriously affect the user's health and safety. This can also cause the insulation and over-current etc. Locations where an equipment affected by high harmonics is placed (TV) Do not touch any refrigerant pipes with your hands when the corrosion of the indoor unit and a resultant unit failure or refrigerant leak. Do not bundling, winding or processing for the power cord. Or, do set or radio receiver is placed within 1m). system is in operation. Ensure that no air enters in the refrigerant circuit when the unit is not deforming the power plug due to tread it. · Locations where drainage cannot run off safely During operation the refrigerant pipes become extremely hot or extremely installed and removed This may cause fire or heating. It can affect performance or function and etc. cold depending the operating condition, and it can cause burn injury or If air enters in the refrigerant circuit, the pressure in the refrigerant circuit Do not install the unit near the location where leakage of frost injury becomes too high, which can cause burst and personal injury. combustible gases can occur.

### **BEFORE INSTALLATION**

OBefore installation check that the power supply matches the air conditioner.

S	tandard accessories (Installation kit) Accessories for indoor unit	Q'ty
1	Installation board (Attached to the rear of the indoor unit)	1
2	Wireless remote control	1
3	Remote control holder	1
4	Tapping screws (for installation board 4dia. by 25mm)	9
6	Wood screws (for remote control switch holder 3.5(mm). by 16mm)	2
6	Battery [R03(AAA,Micro) 1.5V]	2
Ø	Air-cleaning filters	2
8	Filter holders (Attached to the front panel of indoor unit)	2
9	Pipe cover (200mm)	1
1	Band	2

Option parts				
a	Sealing plate	1		
b	Sleeve	1		
©	Inclination plate	1		
d	Putty	1		
e	Drain hose (extention hose)	1		
Ð	Piping cover (for insulation of connection piping)	1		

	Necessary tools for the installation work				
1	Plus headed driver				
2	Knife				
3	Saw				
4	Tape measure				
5	Hammer				
6	Spanner wrench				
7	Torque wrench $\begin{pmatrix} 14.0 \sim 61.0N \cdot m \\ (1.4 \sim 6.1 \text{ kgf} \cdot m) \end{pmatrix}$				
8	Hole core drill (65mm in diameter)				
9	Wrench key (Hexagon) [4m/m]				
10	Flaring tool set (Designed specifically for R410A				
11	Gas leak detector (Designed specifically for R410A				
12	Gauge for projection adjustment (Used when flare is made by using) conventional flare tool				
13	Pipe bender				









### Concealed installation

- Install the indoor unit according to the following instructions. (1) Secure the upper, right, and left spaces according to the right figure. 2 Do not let the horizontal bar obstruct wind from blowing out
- upward/downward or reception from the remote controller. (3) The lattice size should be 70 % or greater of the open rate.
- (4) Cut the jumper cable (JP173) on the indoor circuit board to control the blow-out angle.

### **∆** CAUTION

Incorrect installation may cause problems such as non-cooling non-warming, and condensation water leaking into the room.



# INSTALLATION OF WIRELESS REMOTE CONTROL

### Mounting method of battery

OUncover the wireless remote control, and mount the batteries [R03(AAA,Micro),×2 pieces] in the body regularly. 



### Fixing to pillar or wall

OConventionally, operate the wireless remote control by holding in your hand. OAvoid installing it on a clay wall etc.

### HOW TO RELOCATE OR DISPOSE OF THE UNIT O In order to protect the environment, be sure to pump down Forced cooling operation

(recovery of refrigerant). O Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit when the pipes are removed from the unit

### <How to pump down>

- (1) Connect charge hose to service port of outdoor unit. 2 Liquid side : Close the liquid valve with hexagon wrench key. Gas side : Fully open the gas valve
- Carry out cooling operation . (If indoor temperature is low, operate forced cooling operation.)
- ③ After low pressure gauge become 0.01MPa, stop cooling operation and close the gas valve.

Turn on a power supply again after a while after turn off a power supply. Then press continually the ON/OFF button 5 seconds or more.



# INSTALLATION TEST CHECK POINTS

Check the following points again after completion of the installation, and before turning on the power. Conduct a test run again and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.

Test run

### After installation





- Operational valve is fully open.
- The pipe joints for indoor and outdoor pipes have been insulated. The screw of the lid is tightened securely.
- No abnormal noise. Water drains smoothly. Protective functions are not working. The remote control is normal.

Air conditioning operation is normal.

(2) Wireless remote control

⑤Wood screw #3.5×16

Operation of the unit has been explained to the customer. (Three-minutes restart preventive timer) When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3 minutes.

# This is to protect the unit and it is not a malfunction.

# **CONCERNING TERMINAL CONNECTION** FOR AN INTERFACE

(1) Remove the front panel and lid of control.

② There is a terminal (respectively marked with CNS) for the indoor control board. In connecting an interface, connect to the respective terminal securely with the connection harness supplied with an optional "Interface connection kit SC-BIKN-E" and fasten the connection harness onto the indoor control box with the clamp supplied with the kit. For more details, please refer to the user's manual of your "Interface connection kit SC-BIKN-E".

### (3) Ceiling concealed type (SRR)

Models SRR25, 35, 50ZJ-S, 60ZJ-S1

- This installation manual illustrates the method of installing an indoor unit
- . For electrical wiring work, please see instructions set out on the hackside
- For outdoor unit installation and refrigerant piping, please refer to page 29 to 44.

### · Read the "SAFETY PRECAUTIONS" carefully first of all and 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.
- . 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.

• A wired remote control unit is supplied separately as an optional part. . 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, powe supply voltage and etc.) and installation spaces.

RJD012A201B

Always do it according to the

instruction.

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- SAFETY PRECAUTIONS . Keep the installation manual together with owner's manual at a place where
  - anv user can read at any time. Moreover if necessary, ask to hand them to a new user
  - · For installing gualified personnel, take precautions in respect to themselves by using suitable protective clothing, groves, etc., and then perform the installation works.
  - · Please pay attention not to fall down the tools, etc. when installing the unit at the high position.

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 If unusual noise can be heard during operation, consult the dealer. The meanings of "Marks" used here are shown as follows



### **∧** WARNING

### Installation must be carried out by the gualified installer

- Ω 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. Do not carry out the installation and maintenance work except • The electrical installation must be carried out by the qualified the by qualified installe
  - Install the system in full accordance with the installation manual. Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire.

### Be sure to use only for household and residence.

- If this appliance is installed in inferior environment such as machine shop and etc., it can cause malfunction
- 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.
- 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.
- 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.
- When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage
- referred by the formula (accordance with ISO5149). If the density of refrigerant exceeds the limit, please consult the dealer and
- install the ventilation system, otherwise lack of oxygen can occur, which can cause serious accident.
- 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. Use the prescribed pipes, flare nuts and tools for B410A.
- Using existing parts (for R22 or R407C) can cause the unit failure and serious accidents due to burst of the refrigerant circuit.

# O 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. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak. 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.

If the flare nut were tightened with excess torque, this may cause burst and refrigerant leakage after a long period. 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.

Tighten the flare nut by torque wrench with specified method.

- 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.
- . This appliance must be connected to main power supply by means of a circuit breaker or switch (fuse:16A) with a contact separation of at least 3mm.
- When plugging this appliance, a plug conforming to the norm IEC60884-1 must be used.
- · 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 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. · Be sure to wear protective goggles and gloves while at work.
- Earth leakage breaker must be installed
- other power plugs.
- insulation and over-current etc.
- not deforming the power plug due to tread it. This may cause fire or heating.

- installation).
- If the earth leakage breaker is not installed, it can cause electric shocks
- . Do not processing, splice the power cord, or share a socket with
- This may cause fire or electric shock due to defecting contact, defecting . Do not bundling, winding or processing for the power cord. Or, do
- Locations with ammonic atmospheres Locations where heat radiation from other heat source can affect the unit. Locations without good air circulation. . Locations where short circuit of air can occur (in case of multiple units . Locations where strong air blows against the air outlet of outdoor unit. . Locations where something located above the unit could fall. It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire. · Do not install the indoor unit in the locations listed below (Be sure

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- 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 1m).
  - . Locations where drainage cannot run off safely. It can affect performance or function and etc.
  - Do not install the unit near the location where leakage of combustible gases can occur.

### 

- Do not vent R410A into the atmosphere : R410A is a fluorinated Do not perform any change of protective device itself or its setup greenhouse gas, covered by the Kyoto Protocol with Groval condition. The forced operation by short-circuiting protective device of pressure
- Warming Potential (GWP)=1975. Do not run the unit with removed panels or protections Touching rotating equipments, hot surfaces or high voltage parts can cause

Carry out the electrical work for ground lead with care.

be the one that disconnect all poles under over current.

Using the incorrect one could cause the system failure and fire

accordance with the local codes and regulations.

manual in order to run off the drainage smoothly

or more, and not to make traps and air-bleedings.

Do not install the unit in the locations listed below.

Locations where cosmetic or special sprays are often used.

Locations with salty atmospheres such as coastlines.

Locations where the unit is exposed to chimney smoke

Locations at high altitude (more than 1000m high)

snow hood mentioned in the manual)

gas, chloride gas, acid and alkaline can occur.

and damaging personal property

room and damaging personal property.

the space for inspection and maintenance.

the installation manual

specified in the manual

Vehicles and shins

machine plant

are used

such as electric shocks due to short-circuiting.

- personal injury due to entrapment, burn or electric shocks.
- switch and temperature controller or the use of non specified component can cause fire or burst

### 

- 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 Use the circuit breaker of correct capacity. Circuit breaker should falling from the installation place. . For installation work, be careful not to get injured with the heat exchanger, piping flare portion or screws etc. Install isolator or disconnect switch on the power supply wiring in · Be sure to insulate the refrigerant pipes so as not to condense the ambient air moisture on them. The isolator should be locked in OFF state in accordance with EN60204-1 Insufficient insulation can cause condensation, which can lead to moisture Be sure to install indoor unit properly according to the installation damage on the ceiling, floor, furniture and any other valuables. When perform the air conditioner operation (cooling or drving opera-Improper installation of indoor unit can cause dropping water into the room tion) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility Install the drainage pipe to run off drainage securely according to that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such Incorrect installation of the drainage pipe can cause dropping water into the as incorporate the air into the room that may appropriate to ventilation (For example; Open the door a little). In addition, just as above, so Be sure to install the drainage pipe with descending slope of 1/100 set up the opening port if the room lapse into negative pressure status due to register of the wind for the high rise apartment etc. Check if the drainage runs off securely during commissioning and ensure Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work. Secure a space for installation, inspection and maintenance 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 Insufficient space can result in accident such as personal injury due to serious accidents. If leaked cases accumulate around the unit, it can cause fire Do not install the unit where corrosive gas (such as sulfurous acid Locations where carbon fiber, metal powder or any powder is floating. Locations where any substances that can affect the unit such as subbide. 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 I ocations with direct exposure of oil mist and steam such as kitchen and
  - parts and etc. And combustible das can cause fire . Do not use the indoor unit at the place where water splashes may
- Locations where any machines which generate high frequency harmonics
   occur such as in laundries. Since the indoor unit is not waterproof, it can cause electric shocks and fire
  - Do not install nor use the system close to the equipment that
- I ocations with heavy snow (If installed, he sure to provide hase flame and.) 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 iamming

 Do not place any variables which will be damaged by getting wet Locations with any obstacles which can prevent inlet and outlet air of the unit. 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 control at the direct sunlight.
- It can cause malfunction or deformation of the remote control. 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.
- . 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.
- Do not touch any buttons with wet hands. It can cause electric shocks.
- . 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.
- '13 SCM-T-136

### **BEFORE INSTALLATION**

O Before installation check that the power supply matches the air conditioner.

### Indoor unit accessories

Symbol	Part name					
1	Wireless remote control	1				
2	Remote control holder	1				
3	Wireless receiver	1				
(4)	Installation frame (for wireless receiver)	1				
(5)	Drain hose	1				
6	Clamp (for drain hose)	1				
(Ť)	Battery [R03 (AAA, Micro) 1.5V]	2				
8	Large washer (for hanging bolt M8)	8				
9	Flat head wood screw (for remote control holder $\phi$ 3.5x16)	2				
10	Flat head machine screw (for wireless receiver M3.5x10)	2				
1	Tapping screw (for clamp, $\phi 4x8$ )	1				
12	Plate (display)	1				

Option pa	arts	
Symbol	Part name	Units
a	Blowout duct joint model RFJ22	1
b	Drain up kit model RDU12E	1
©	Back side suction filter set model RBF12	1
Ø	Lower suction grill set model RTS12	1

### Parts to be prepared by the operative side

Symbol	Part name	Units
A	Drain hose	1
®	Ceiling hanging bolts (M8)	4
©	Nuts (M8)	8
D	Spring lock washers (M8)	4

### Necessary tools for the installation work

- Plus headed driver
- Knife
- Saw
- Tape measure
- Hammer
- Spanner wrench
- Torque wrench [14.0 ~ 62.0 N·m (1.4 ~ 6.2 kgf·m)]
- Hole core drill (65mm in diameter)
- Wrench key (Hexagon) [4 m/m]
- Vacuum pump
- Vacuum pump adapter (Anti-reverse flow type) (Designed specifically for R410A)
- Gauge manifold (Designed specifically for R410A)
- Charge hose (Designed specifically for R410A)
- Flaring tool set (Designed specifically for R410A)
- Gas leak detector (Designed specifically for R410A)
- Gauge for projection adjustment
- (Used when flare is made by using conventional flare tool)

### SELECTION OF INSTALLING LOCATION

(Install the unit with the customer's consent at a location that meets the following conditions.)

### Indoor unit

- Where there are no barriers to the breeze, and where cool/hot air may diffuse throughout the room
- A firm location that may sustain the weight of the unit, and do not cause the unit or the ceiling to vibrate.
- A location that allows room for maintenance.
- Where wiring and plumbing may be performed with ease.
- Where water may be drained easily.
- Where the unit is not influenced by the television, stereo, radio, or the lights.
- Where the unit is not influenced by high frequency equipment and wiring equipment.
- Where oil splashes do not occur frequently.
- Where sunlight and strong lights do not directly hit the receiver.
- A flat ceiling surface (bottom of ceiling).
- Where the suction inlet of the unit is located far from the air inlet on the ceiling, the entire inside of ceiling acts as an air suction duct so that the capacity is reduced at the startup. In such occasion, it is recommended to install a duct at the air suction side.
- Where the suction inlet of the unit does not match the air inlet and there is not sufficient clearance between the unit and the ceiling face, the capacity is reduced. It is necessary to enable the air suction from the back by using optional parts © (Back side suction filter set model RBF12).

### Wireless remote control

- Where the main unit can definitely detect the signals from the wireless remote control.
- Where it is not influenced by television or stereo.
- Avoid locations with direct sunlight or around heaters.
- Do not attach to weak walls such as a mud wall.

### Maximum pipe length

The maximum lengths and height differences for the pipes differ according to their outdoor unit. Please refer the Installation Instructions for the outdoor unit.





Clamp

### Installation of wireless remote control

### Mounting method of battery



Bemote control holder





'13 • SCM-T-136

Filter auide

Air filter

ዯ

Unit main body

£

### **Connecting the Drain Hose**



### NOTE

Conduct the installation correctly, and ensure that the water is draining correctly. It may lead to water leaks.

- Insert the drain hose as far as possible through the lower section of the side of the unit, and secure it with clamps.
   The drain hose should be set in a downward slope (over 1/100), and it should not have any bumps or traps along its route.
- When you are obliged to route the drain hose with a trap in its way or in an ascending gradient, please use an option part Drain up kit (RDU12E) (b).
- The indoor drain hose must be insulated.

### **3** CONNECTION OF REFRIGERANT PIPINGS

- Regarding the change in the sizes of gas side pipes (usage of the variable joints); If the 5.0 kw and 6.0 kw class indoor units (gas side pipe 12.7) is going to be connected to the operation valves (9.52), variable joints available as accessories must be applied to the gas side operation valves.
- [Connection of pipes]

### NOTE

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Cover the pipes with tape so that dust and sand do not enter the pipe until they are connected.
When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon gas or oil.
Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves.

### (1) Preparations



value.

### (2) Connection



# Connect the pipes on both liquid and gas sides. Tighten the nuts to the following torque. Liquid side: 14.0 ~ 18.0 N·m (1.4 ~ 1.8 kgf·m) Consider (4.0 Fin)

measurement B (protrusion from the flaring block) will vary depending on the type of a

flare tool in use. If a conventional flare tool is used, please use a copper pipe gauge or a similar instrument to check protrusion so that you can keep measurement B to a correct

> Gas side (  $\phi$  9.52) : 33.0 ~ 42.0 N·m (3.3 ~ 4.2 kgf·m) (  $\phi$  12.7) : 49.0 ~ 61.0 N·m (4.9 ~ 6.1 kgf·m)

# 4 HEAT INSULATION FOR JOINTS

### Heat insulation for joints Finish and fixing



### 5 TEST RUN AND HANDLING INSTRUCTIONS

### Installation test check points

Check the following points again after completion of the installation, and before turning on the power. Conduct a test run again and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the instruction manual. If the compressor does not operate after the operation has started, wait for 5-10 minutes. (This may be due to delayed start.)

(Three-minute restart preventive timer)

When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3minutes. This is to protect the unit and it is not a malfunction.

Test run

No abnormal noise.

Water drains smoothly.

### After installation

- The power supply voltage is correct as the rating.
- □ No gas leaks from the joints of the operation valve.
- $\hfill\square$  Power cables and crossover wires are securely fixed to
- the terminal board.
- Each indoor and outdoor unit is properly connected (no wrong wiring or piping).
- Operation valve is fully open.
- Refrigerant has been additionally charged (when the total pipe length exceeds the refrigerant charged pipe length).
- □ The pipe joints for indoor and outdoor pipes have been
- insulated.
- Earthing work has been conducted properly.
- The screw of the control lid is tightened securely.

### **EARTHING WORK**

- Earth work shall be carried out without fail in order to prevent electric shock and noise generation.
- The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephoneline, etc.)

# • Check that there are no gas leaks from the pipe leak detector or

Air conditioning and heating are normal.

Protective functions are not working.

The wireless remote control is normal.

Operation of the unit has been

explained to the customer.



PJA012D786

# (4) 4way ceiling cassette type (FDTC)

This manual is for the installation of an indoor unit. For electrical wiring work (Indoor), refer to the electrical wiring work installation manual. For remote control installation, refer to the installation manual attached to a remote control. For wireless kit installation, refer to the installation manual attached to a wireless kit. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 29 to 44. This unit must always be used with the panel.

### SAFETY PRECAUTIONS

- 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, [AWARNING and [ACAUTION]
   [AWARNING: Wrong installation would cause serious consequences such as injuries or death.
   [ACAUTION]: 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. • The meanings of "Marks" used here are as shown as follows:
- Never do it under any circumstances.
   After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTONS", 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. Also, ask them to hand over the user's manual to the new user when the owner is changed.

A WARNING	
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.	
When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage, referred by the formula (accordance with ISD5149). If the density of refrigerant exceeds the limit, please consult the dealer and install the ventilation system, otherwise lack of oxygen can occur, which can cause serious accidents.	•
Ouse 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 overtum of the unit.	
Oventilate 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 abrormally and may cause explosion and injuries.	$\bigcirc$
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.	•
Obsespecified 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. Lows connections or brid could exall in abnormal heat operation or fire.	
Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel property. Improper fitting may cause abnormal heat and 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.	0
Ouse 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.	0
• Tighten the flare nut according to the specified method by with torque wrench. If the flare nut were lightened with excess torque, it could cause burst and refrigerant leakage after a long period.	0
O not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can occur. Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safely. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak.	$\bigcirc$
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 after shutting the service valve 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.	0
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.	
Do not repair by yourself. And consult with the dealer about repair. Improper repair may cause water leakage, electric shock or fire.	$\bigcirc$
Consult the dealer or a specialist about removal of the air conditioner. Improper installation may cause water leakage, electric shock or fire.	0
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.	0
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.	$\bigcirc$
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. • Earth leakage breaker must be installed. O If the earth leakage breaker is not installed, it can cause electric shocks Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current. 1 Ising the incorrect 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 • Do not install the indoor unit near the location where there is possibility of flammable gas leakages  $\bigcirc$ 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. Secure a space for installation, inspection and maintenance specified in the manual. nsufficient space can result in accident such as personal injury due to falling from the installation place Do not use the indoor unit at the place where water splashes such as laundry.  $\bigcirc$ 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.  $\bigcirc$ 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 and breakdown. Or the air conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming. Do not install the remote control at the direct sunlight. t could cause breakdown or deformation of the remote control • Do not install the indoor unit at the place listed below. Places where fammable 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 sufflet gas (hinding as, acid, alial or annonic atmospheres. Places exposed to oil mist or steam directly. Due ubbiole cod chine 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 On vehicles and ships Places where machinery which generates high harmonics is used. 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 inter 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)  $\bigcirc$ 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 put any valuables which will break down by getting wet under the air conditioner. ion could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it damages user's b • 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. Install the drain pipe to drain the water surely according to the installation manual. ion of the drain pipe may cause dropping water into room and damaging user's belongings Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit. Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficiency of oxygen) to user's health and safety Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work Q 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. For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps Ø and not to make air-bleeding. neck if the drainage is correctly done during commissioning and ensure the space for inspection and maint Ensure the insulation on the pipes for refrigeration circuit so as not to condense water Ø complete insulation could cause condensation and it would wet ceiling, floor, and any other valuables Do not install the outdoor unit where is likely to be a nest for insects and small animals. Insects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to keep the surroundings clean. Pav extra attention, carrying the unit by hand. a Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the uni 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 packag Do not operate the system without the air filter. It may cause the breakdown of the system due to clogging of the heat exchanger. Do not touch any button with wet hands. could cause electric shock • 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 fre 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 breakdow 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 Before installation

Install correctly according to the installation manual.

Confirm the following points:

O Unit type/Power supply specification O Pipes/Wires/Small parts O Accessory items

	Accessory itme									
For unit hanging			For refrigerant pipe			For draom pipe				
	Flat washer (M10)	Level gauge (Insulation)	Pipe cover(big)	Pipe cover (small)	Strap	Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp	
	$\bigcirc$	Ď	6	Ð	F	$\bigcirc$	Ø	¢ ټ	Ø	
	8	4	1	1	4	1	1	1	1	
	For unit hanging	For adjustment in hoisting 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

 $\ensuremath{\textcircled{}}$  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.
- A reas where ny ain radio stays away inder than this, (it could cause painting and holes.)
   A reas 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 control 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.
- ③ 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. O 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. O 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 units 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.
- 2. 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.
- 4. 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.



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)

- 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.
- 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
- 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 conde 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 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.
  - 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 fastering 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
- 3. Make sure to insulate both gas pipes and liquid pipes completely.
   X 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.

_			Strap (Accessory) Pipe cover (Accessory)
	Pipe diameter	Tightening torque N-m	
	φ 6.35	14 to 18	
	φ 9.52	34 to 42	
	φ 12.7	49 to 61	· · · · · · · · · · · · · · · · · · ·
L	φ 15.88	68 to 82	
L	φ 19.05	100 to 120	The thickness of insulation should be 20mm or more.

### 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 piped identity 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

Indoor unit

- Make sure to insert the drain hose (the end mode 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.





- Prepare a joint for connecting VP-20 pipe, adhere and connect the joint to the drain hose (the end 2 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.

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VP-30 or bigger

er than 1/10

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- 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. 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. 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

# O 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
- O 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  $[\,\,\widehat{}\,$  and  $(\widehat{}\,)$  or  $[\,\,\widehat{}\,$  and  $(\widehat{}\,)\,]$  ) is turned ON. Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

Drain plug

### 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 (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 attached panel installation manual for details

### Accessory items

1	Hook	749	1 piece	For fixing temporarily
2	Chain	recorder	2 pieces	
3	Bolt	() I man	4 pieces	For installing the panel
4	Screw	P	1 piece	For attaching a hook
5	Screw	(Jun	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. (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	

# PJA012D783

[Figure 1]

and the

[Fiaure 2]

# PANEL INSTALLATION MANUAL

Please read this manual together with the indoor unit's installation manual.



# 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	769	1 piece	For fixing temporarily
2	Chain	reception	2 pieces	
3	Screw	Dama	4 pieces	For hoisting the panel
4	Screw	() Im	1 piece	For attaching a hook
5	Screw	(Jan	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]
- 3. Open the intake grille.
- 4. Please remove the screw of a corner panel and remove a corner panel. (four places)

5. A panel is hooked on two bolts (
mark (
B).





PFA012D621B

# (5) Ceiling suspended type (FDEN)

This manual is for the installation of an indoor unit. For electrical wiring work (Indoor), refer to the electrical wiring work installation manual. For remote control installation, refer to the installation manual attached to a remote control. For wireless kit installation, refer to the installation manual attached to a wireless kit. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to Page 29 to 44.

### SAFETY PRECAUTIONS

- 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, [<u>AWARNING</u>] and <u>(<u>ACAUTION</u>), [<u>AWARNING</u>]: Wrong installation would cause serious consequences such as injuries or death. [<u>ACAUTION</u>]: Wrong installation might cause serious consequences depending on circumstances.</u>
- Both mentions the important items to protect your health and safety so strictly follow them by any means. The meanings of "Marks" used here are as shown as follows: S Never do it under any circumstances. O Aways do it according to the instruction. After completion the installation, do commissioning to confirm there are no abnormalities, and explain to the
- cuter completing the instantation, ou commissioning to comminate are no autointranates, and explain to the customers about "SAFET 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.

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<ul> <li>Pure stalle unit by yousel, it may be solved to</li></ul>	Installation should be performed by the appoint	
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<ul> <li>Internet installation may cause explosion, line, water takage, identic stock, and re.</li> <li>When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage, referred by the formula (accordance with ISO5149).</li> <li>If the density of refigerant exceeds the limit, passe constitution of the ventilation system, otherwise lack of orgen an occur, which can cause serios accidents.</li> <li>Ventilate the working area well in case the refrigerant leaks during installation.</li> <li>If the refigerant contexts the fit, toxic gas is produced.</li> <li>Install the unit in a location that can hold heavy weight.</li> <li>Improver installation may cause serious accidents.</li> <li>Install the unit in a location that can hold heavy weight.</li> <li>Improver installation may cause the unit ball leading to accidents.</li> <li>Io not mix air in the cooling cycle on installation or removal of the air conditioner.</li> <li>If at is mixed in, the presure in the coling cycle on installation or removal of the air conditioner.</li> <li>If at is mixed in the the coling cycle on installation or removal of the air conditioner.</li> <li>If at is mixed in the the coling cycle on installation or removal of the air conditioner.</li> <li>If at is mixed in the presure in the coling cycle will field accidents.</li> <li>Use specified wire of electrical wiring, lastent the wiring to the terminal securely, and hold the cable securely in order not bapply unexpected stress on the terminal.</li> <li>Use specified prine, frace nut, and hold result in abormal heat generation or fine.</li> <li>Arrange the detectrical wiring the specified motion is completed.</li> <li>If the refigerant pass leakage check theory of which reque werench.</li> <li>If the refigerant pass leakage check to shok and relingerant leakage after a lang period.</li> <li>If the refigerant pass leakage check to shok or fine.</li> <li>Obo not put the frainage begined fine tabormal heat and relino.</li> <li>Obo n</li></ul>	Install the system correctly according to these installation manuals	
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# **▲** CAUTION

Perform earth wiring surely. 0 Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth co cause unit failure, electric shock and fire due to a short circuit. • Earth leakage breaker must be installed. a If the earth leakage breaker is not installed, it can cause fire and electric shocks Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect al poles under over current. 0 Using the incorrect 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.  $\bigcirc$ Connecting the circuit by wire or copper wire could cause unit failure and fire Do not install the indoor unit near the location where there is possibility of flammable gas leakag  $\bigcirc$ 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 (sucl 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.  $\mathcal{O}$ Secure a space for installation, inspection and maintenance specified in the manual 0 Insufficient space can result in accident such as personal injury due to falling from the installation place • Do not use the indoor unit at the place where water splashes such as laundry.  $\mathcal{O}$ 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  $\bigcirc$ 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 harmonic  $\mathcal{O}$ Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air conditioner and cause a malfunction and breakdown. Or the air conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause iamming • Do not install the remote control at the direct sunlight.  $\bigcirc$ It could cause breakdown or deformation of the remote cont Do not install the indoor unit at the place listed below. 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 Places where cosmetics or special sprays frequently used. Highly salted area such as beach.  $\frown$ such as sulfide gas, chloride gas, acid, alkali or ammonic atmospheres. Places exposed to oil mist or steam directly. Heavy snow area Places where the system is affected by On vehicles and ships smoke from a chimney. Places where machinery which generates high harmonics is used. · Altitude over 1000m • 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 intel and outlet air of the unit Locations with any obstacles which can prevent intel and outlet air of the unit Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam, (in case of the information with the unit of the strong str  $\bigcirc$ concentration of the formation of the concentration • Do not put any valuables which will break down by getting wet under the air conditioner.  $\mathcal{O}$ n could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it damages user's b • Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use  $\odot$ 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. 0 Install the drain pipe to drain the water surely according to the installation manual. 0 Improper connection of the drain nine may cause dropping water into room and damaging user's belonging Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit. Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficie user's health and safety. ency of oxygen  $\bigcirc$  Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work 0 If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxy occur, which can cause serious accidents. • For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps, 0 and not to make air-bleeding. Check if the drainage is correctly done during commissioning and ensure the space for inspi • Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. 0 Incomplete insulation could cause condensation and it would wet ceiling, floor, and any other valuable • Do not install the outdoor unit where is likely to be a nest for insects and small animals  $\bigcirc$ Insects and small animals could come into the electronic components and cause breakdown and fire. Instruct the use keep the surroundings clean. • Pay extra attention, carrying the unit by hand. 0 Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the by hand. Use protective gloves in order to avoid injury by the aluminum fin. Make sure to dispose of the packaging material. 0 Leaving the materials may cause injury as metals like nail and woods are used in the package Do not operate the system without the air filter.  $\bigcirc$ may cause the brea down of the system due to clogging of the heat exchanger Do not touch any button with wet hands  $\bigcirc$ It could cause electric shock • Do not touch the refrigerant piping with bare hands when in operation.  $\bigcirc$ he pipe during operation would become very hot or cold according to the operating condition, and it could cause a b 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  $\bigcirc$ 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





### 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

- 1. Remove the flare nut and blind flanges on the pipe of the indoor unit.
- Whate 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. When taking out the pipe to rear or top, install it together with the electric wire<sup>®</sup>, passing them through the attached cover.
  - Seal clearances with putty, etc. to shut off dust.
  - We and 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
  - •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 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.

	the outdoor unit.	Strap (Accessory)	Pipe cover (Accessory)
Pipe diameter	Tightening torque N·m		(
ø 6.35	14 to 18	mmA	
ø 9.52	34 to 42		
ø 12.7	49 to 61		
ø 15.88	68 to 82	/ 122	7777777
ø 19.05	100 to 120	The thickness	of insulation should be 20mm or mo



### **O**rain 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 andinflammable 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 bas 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 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.  $\triangle$  Beware of a possible outflow of water that may
- Second of the possible of the possible of the maximum of the possible of the poss % 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 assum-ing 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



PJG012D008

# (6) Duct connected Low/Middle static pressure type (FDUM)

### (a) Indoor unit

This manual is for the installation of an indoor unit. For electrical wiring work (Indoor), refer to the electrical wiring work installation manual. For remote control installation, refer to the installation manual attached to a remote control. For wireless kit installation, refer to the installation manual attached to a wireless kit. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 29 to 44.

SAFETY PRECAUTIONS 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, AWARNING and CAUTION AWARNING: Wrong installation would cause serious consequences such as injuries or death. ACAUTION : 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. The meanings of "Marks" used here are as shown on the right: Never do it under any circumstances. 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. 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. Ø Improper installation may cause explosion, injury, water leakage, electric shock, and fire Check the density refered by the foumula (accordance with ISO5149). If the density exceeds the limit density, please consult the dealer and installate the ventilation system Use the genuine accessories and the specified parts for installation. 0 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. Ø If the refrigerant contacts the fire, toxic gas is produced. Install the unit in a location that can hold heavy weight. Ø 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. A Improper installat ion 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. (n)If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injurie Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. a Power source with insufficient capacity and improper work can cause electric shock and fire. Ouse 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. Ø 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 0 panel property. mproper fitting may cause abnormal heat and fire Check for refrigerant gas leakage after installation is completed. a 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. a 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 Ø If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long period • Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can  $\bigcirc$ Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak. 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 after shutting the service valve 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 미 and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle Only use prescribed optional parts. The installation must be carried out by the qualified installer. a If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, 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. Ø 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.

$\left( \right)$	▲ 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 tailuire and electric shock of the due to a short circuit.  Earth leakage breaker must be installed. If the earth leakane breaker is not installed if could cause electric shocks or fire	0
•	In the card nearly of source of an and nearly receive access and a source of the nearly location of the nearly loc	
•	Using the incorrect 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. Do not install the indoor unit near the location where there is possibility of flammable gas leakages.	<b>X</b>
•	n me gas lears and gamets around me unit, it could cause me. 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. 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. 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	$\mathbb{Z}$
	instrument, preservation of animals, plants, and a work of art. It could cause the damage of the items. Do not incital nor use the success many animenate which concrete electromagnetic wave or bigh barransies.	$\bigcirc$
	Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air conditioner and cause a matfunction and breakdown. Or the air conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming.	$\bigcirc$
•	Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control.	$\bigcirc$
	Do not install the indoor unit at the place listed below.     Places where flammable gas could leak.     Place where atom fiber, metal powder or any powder is floated.     Place where the substances which affect the air conditioner are generated     such as sulfide gas, chickide gas, acid, alkail or ammonic atmospheres.     Places exposed to oil mist or steam directly.     On vehicles and ships	$\odot$
•	Places where machinery which generates high harmonics is used.     Autuoe Wer Houdin     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 the infrared receiver is exposed to the direct sunlight or 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 drainage cannot run off safely.     Receiver the drainage cannot run off safely.     Receiver the drainage cannot run off safely.	$\bigcirc$
•	In currance performance or nunceor and vec Do not put any valuables which will break down by getting wet under the air conditioner. Condensation could drop when the relative humidity is higher than 80% or drain give is doqued, and it damages user's belongings.	$\overline{\bigcirc}$
•	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.	$\bigcirc$
•	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.	0
•	Install the drain pipe to drain the water surely according to the installation manual.	0
•	Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit. Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficiency of oxygen) to user's health and safety.	$\odot$
•	Be sure to perform air tighthess 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.	0
٠	For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps, and not to make air-bleeding.	0
•	Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintenance. 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. Do not install the outdoor unit where is likely to be a nest for insects and small animals.	
	Insects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to keep the surroundings clean.	$\odot$
•	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.	0
•	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.	0
•	uo not operate the system without the air filter. It may cause the breakdown of the system due to clogging of the heat exchanger. Do and how here holden with breakdown	$\underline{\heartsuit}$
	Do not couch any outcon with wet nanos. It could cause electric shock.	$\underline{\heartsuit}$
	up invit outch une reingerant piping with pare names 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. De and eleane which are independent on which we have	$\underline{\heartsuit}$
	uo unu ciesan up ine air cononuoner with Water. It could cause electric shock.	$\bigotimes$
	uo unu unu en pover source minietaiten arter stopping the operation. Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdown.	$\underline{\bigcirc}$
	It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury.	$\bigcirc$

OThis model is middle static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.



### 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 control 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)

Select either of two cases to keep space for installation and services



### **③Preparation before installation**

- If suspension bolt becomes longer, do reinforcement of earthquake resistant. OFor 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.
- Oln 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.











### **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.
- 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).
- Hold each wiring inside the unit and fasten them to terminal block securely.
- 3. Fix the wiring with clamps.
- Install the removed parts back to original place.



### (9) External static pressure setting

You can set External Static Pressure (E.S.P.) by either method of MANUAL SETTING or AUTO-MATIC SETTING by remote control.

Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting (Lo-Uhi)

### 1. MANUAL SETTING

You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.

Select No.1-10 (10Pa-100Pa) from following table according to calculation result.

Refer to technical manual for u	etans	JI all I	IOW CI	aracte	Insuc.						
Setting No.	1	2	3	4	5	6	7	8	9	10	
External Static Pressure (Pa)	10	20	30	40	50	60	70	80	90	100	

When you set No.11-19 by remote control, unit will control fan-speed with setting of No.10 Factory default is at No.5.

### • How to set E.S.P by wired remote control

① Push "◆" marked button(E.S.P button).

(2) Select indoor unit No. by using  $\clubsuit$  button.

③ Select setting No. by using ◆ button and set E.S.P. by ⓒ button. See detailed procedure in technical manual.

E.S.P. button

### Notice You can NOT set E.S.P. by wireless remote control.

Caution

Be sure to set E.S.P. according to actual duct connected. Wrong settings causes excessive air flow volume or water drop blown out.

2. AUTOMATIC SETTING

Indoor unit will recognize E.S.P. by itself automatically and select appropriate fan speed No.1-10.

### How to start automatic setting

- (1), ②Same setting as MANUAL SETTING.
- 3 Select [AUT] by using  $\clubsuit$  button and press  $\bigodot$  button .
- O After setting E.S.P. at "AUT", operate unit in FAN mode with certain fan speed (Lo-Uhi).

# 9 External static pressure setting (continued)

Indoor unit fan will run automatically and recognize E.S.P. by itself.

The operation for automatic E.S.P. recognition will last about 6 minutes, and it will be stopped after recognition is completed.

### Caution

- Be sure to execute AUTOMATIC SETTING by remote control AFTER ducting work is completed. When duct specification is changed after AUTOMATIC SETTING, be sure to execute AUTOMATIC SETTING again after power resetting and turning on again.
- Be sure to execute AUTOMATIC SETTING before trial cooling operation.
- (See ELECTRICAL WIRING WORK INSTRUCTION about trial cooling operation) • Before AUTOMATIC SETTING, be sure to check that return air filter in duct is installed and damper is opened.
- Wrong procedure causes excessive air flow or water drop blown out.

### Notice

- During operation for automatic recognition (the Auto Operation), fan rotates with certain speeds regardless of set fan speed by remote control.
- When duct is set with low static pressure (around 10-50Pa), even if indoor unit operate with higher air flow volume than rated one, but it is not abnormal.
- When you changed operation mode or stop operation with ON/OFF button during Auto Operation, the Auto operation will be canceled.
- In such case, be sure to execute AUTOMATIC SETTING again according to above procedure.

### **(1)** 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	
No 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	
Is setting of E.S.P finished?	Excessive air flow, water drop blow out	

# (b) Replacement procedure of the fan unit

Notes (1) The unit is a heavy item. It must be supported securely and handled with care not to drop when it is necessary toreplace. (2) For the maintenance space, refer to page 134.

(i) Remove the control box and the side panel, and remove the screws marked in the circles (2 places) in the figure.



(ii) Take out the fan unit in the arrow direction.





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## 4. RANGE OF USAGE & LIMITATIONS

## Models SCM40, 45, 50, 60

		Models	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1	SCM60ZJ-S1				
Item										
Indoor intake a	ir temperature	Cooling		Approximate	ly 18 to 32°C					
(Upper, lower li	mits)	Heating		Approximate	ly 15 to 30°C					
Outdoor air terr	nperature	Cooling		Approximate	ly -15 to 43°C					
(Upper, lower li	mits)	Heating		Approximate	ly -15 to 24°C					
Indoor units that can be	Number of con	nected units	2 u	nits	2 to 3	3 units				
used in combination	Total of indoor Un	its (class kW)	4.0~6.0kW	4.0~6.0kW 4.5~7.0kW 5.0~8.5kW 6.0~11.0kW						
Total length for	all rooms		Max. 30m Max. 40m							
Length for one	indoor unit		Max. 25m							
Difference in height between	When indoor un outdoor unit (A)	it is above								
indoor and outdoor units	When indoor un outdoor unit (B)	it is below		Max.	15m					
Difference in he	ight between inde	por units (C)		Max.	25m					
Compressor stop/start	1 cycle time		8 min oi	r more (from stop to	o stop or from start	to start)				
frequency	Stop time			3 min d	or more					
_	Voltage fluctua	tion		Within ±10% d	of rated voltage					
Power source voltage	Voltage drop d	uring start	Within ±15% of rated voltage							
	Interval unbala	ince		Within ±3% o	f rated voltage					
Power cable ler	ngth			32	m <sup>(1)</sup>					

Note(1) The cable specifications are based on the assumption that a metal or plastic conduit is used with no more than three cables contained in a conduit and a voltage drop is 2%. For an installation falling outside of these conditions, please follow the internal cabling regulations. Adapt it to the regulation in effect in each country.



## Models SCM71, 80, 100, 125

		Models	SCM71ZJ-S1	SCM80ZJ-S1	SCM100ZJ-S1	SCM125ZJ-S1				
Item										
Indoor intake a	ir temperature	Cooling		Approximate	ly 18 to 32°C					
(Upper, lower li	mits)	Heating		Approximate	ly 15 to 30°C					
Outdoor air ten	nperature	Cooling		Approximate	ly -15 to 43°C					
(Upper, lower li	mits)	Heating		Approximate	ly -15 to 24°C					
Indoor units that can be	Number of con	nected units	2 to 4	units	4 <sup>(1)</sup> to 5 units	4 <sup>(1)</sup> to 6 units				
used in combination	Total of indoor Ur	nits (class kW)	7.0 <b>~</b> 12.5kW	8.0~13.5kW	10.0~16.0kW	19.5kW				
Total length for	all rooms		Max. 70m Max. 90m							
Length for one	indoor unit		Max. 25m							
Difference in height between	When indoor un outdoor unit (A)	it is above	Max. 20m							
indoor and outdoor units	When indoor un outdoor unit (B)	it is below		Max	. 20m					
Difference in he	ight between ind	oor units (C)		Max	. 25m					
Compressor	1 cycle time		8 min o	r more (from stop to	o stop or from start	to start)				
frequency	Stop time			3 min o	or more					
	Voltage fluctua	ition		Within ±10%	of rated voltage					
Power source voltage	Voltage drop d	uring start	Within ±15% of rated voltage							
	Interval unbala	ince	Within ±3% of rated voltage							
Power cable ler	ngth			32	m <sup>(2)</sup>					

Notes(1) In case of combination with SRK-ZJX-S, SRK71ZK-S, FDEN50VF only, 3 Indoor units can be connectable. In case of SRK71ZK-S+SRK71ZK-S, 2 Indoor units can be connectable.

(2) The cable specifications are based on the assumption that a metal or plastic conduit is used with no more than three cables contained in a conduit and a voltage drop is 2%. For an installation falling outside of these conditions, please follow the internal cabling regulations. Adapt it to the regulation in effect in each country.



## **5. TABLE OF INDOOR UNIT COMBINATIONS**

- The combinations of the indoor units is indicated by numbers. They are read as follows. (Example) SRK20ZJX-S→20 SRK25ZJX-S→25
- The capacity of the indoor units is shown by rooms. If this exceeds the maximum capacity of the outdoor unit, the demand capacity will be proportionally distributed.
- If units are to be combined, use the table below to make the proper selection.

#### Number of connectable indoor units

	SCM40ZJ-S,45ZJ-S	SCM50ZJ-S1,60ZJ-S1	SCM71ZJ-S1,80ZJ-S1	SCM100ZJ-S1	SCM125ZJ-S1
MIN	2	2	2	4 <sup>(1)</sup>	4 <sup>(1)</sup>
MAX	2	3	4	5	6

Note(1) In case of combination with SRK-ZJX-S, SRK71ZK-S, FDEN50VF only, 3 Indoor units can be connectable. In case of SRK71ZK-S+SRK71ZK-S, 2 Indoor units can be connectable.

## (1) Model SCM40ZJ-S

#### (a) Indoor unit SRK \*\* ZJX-S models only

<Cooling>

			Cooli	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard currei	nt (A)
combination	ation	Room capaci	cooling ty (kW)	Tota	al capacity (	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	2.0	-	1.8	2.0	2.8	490	530	880	2.4	2.3	2.2
1 room	25	2.5	-	1.8	2.5	3.4	490	670	1040	3.1	2.9	2.8
	35	3.5 -		1.8	3.5	3.9	490	970	1200	4.5	4.3	4.1
	20 + 20	2.00	2.00	3.0	4.0	5.7	560	840	1750	3.9	3.7	3.5
	20 + 25	2.00	2.50	3.0	4.5	5.9	560	1040	1900	4.8	4.6	4.4
2 room	20 + 35	1.89	3.31	3.0	5.2	5.9	560	1430	1900	6.6	6.3	6.0
	25 + 25	2.50	2.50	3.0	5.0	5.9	560	1280	1900	5.9	5.6	5.4
	25 + 35	2.17	3.03	3.0	5.2	5.9	560	1430	1900	6.6	6.3	6.0

#### <Heating>

			Heati	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard curre	nt (A)
combin	ation	Room capaci	heating ty (kW)	Tota	al capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	3.0	-	1.4	3.0	3.7	470	750	1070	3.4	3.3	3.2
room	25	3.4	-	1.4	3.4	4.2	470	920	1210	4.2	4.0	3.9
1 2 room 3	35	4.5 -		1.4	4.5	5.0	470	1210	1450	5.6	5.3	5.1
	20 + 20	2.25	2.25	2.0	4.5	6.9	530	900	2300	4.1	4.0	3.8
	20 + 25	2.49	3.11	2.0	5.6	6.9	530	1200	2300	5.5	5.3	5.1
2 room	20 + 35	2.11	3.69	2.0	5.8	6.9	530	1290	2300	5.9	5.7	5.4
	25 + 25	2.90	2.90	2.0	5.8	6.9	530	1290	2300	5.9	5.7	5.4
	25 + 35	2.42	3.38	2.0	5.8	6.9	530	1290	2300	5.9	5.7	5.4

#### (b) Indoor unit except SRK\*\*ZJX-S models

			Cooli	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard currei	nt (A)
combin	unit ation	Room capaci	cooling ty (kW)	Tota	al capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	2.0	-	1.8	2.0	2.7	490	560	880	2.6	2.5	2.4
1 room	25	2.5	-	1.8	2.5	3.2	490	710	1040	3.3	3.1	3.0
	35	3.5 -		1.8	3.5	3.7	490	1030	1200	4.7	4.5	4.3
	20 + 20	2.00	2.00	3.0	4.0	5.6	560	880	1750	4.0	3.9	3.7
	20 + 25	2.00	2.50	3.0	4.5	5.8	560	1090	1900	5.0	4.8	4.6
2 room	20 + 35	1.89	3.31	3.0	5.2	5.8	560	1500	1900	6.9	6.6	6.3
	25 + 25	2.50	2.50	3.0	5.0	5.8	560	1340	1900	6.2	5.9	5.6
	25 + 35	2.17	3.03	3.0	5.2	5.8	560	1500	1900	6.9	6.6	6.3

			Heati	ng capacit	y (kW)		Power	consumpti	on (W)	Stan	dard current (A)		
combination	ation	Room capaci	heating ty (kW)	Tota	al capacity (	(kW)	Min.	Standard	Max.	220V	230V	240V	
		Α	В	Min.	Standard	Max.							
	20	3.0	-	1.4	3.0	3.5	470	900	1070	4.1	4.0	3.8	
1 room	25	3.4	-	1.4	3.4	4.0	470	1070	1210	4.9	4.7	4.5	
	35	4.5	-	1.4	4.5	4.8	470	1340	1450	6.2	5.9	5.6	
	20 + 20	2.25	2.25	2.0	4.5	6.7	530	930	2300	4.3	4.1	3.9	
	20 + 25	2.49	3.11	2.0	5.6	6.7	530	1240	2300	5.7	5.4	5.2	
2 room	20 + 35	2.11	3.69	2.0	5.8	6.7	530	1330	2300	6.1	5.8	5.6	
	25 + 25	2.90	2.90	2.0	5.8	6.7	530	1330	2300	6.1	5.8	5.6	
	25 + 35	2.42	3.38	2.0	5.8	6.7	530	1330	2300	6.1	5.8	5.6	

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## (2) Model SCM45ZJ-S

## (a) Indoor unit SRK\*\*ZJX-S models only

<Cooling>

			Cooli	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard curre	nt (A)
combination	ation	Room capaci	cooling ty (kW)	Tota	al capacity (	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	2.0	-	1.8	2.0	2.8	490	530	880	2.4	2.3	2.2
room	25	2.5	-	1.8	2.5	3.4	490	670	1040	3.1	2.9	2.8
room	35	3.5	-	1.8	3.5	3.9	490	970	1200	4.5	4.3	4.1
	20 + 20	2.00	2.00	3.0	4.0	5.7	560	840	1750	3.9	3.7	3.5
	20 + 25	2.00	2.50	3.0	4.5	5.9	560	1040	1900	4.8	4.6	4.4
2	20 + 35	2.00	3.50	3.0	5.5	6.3	560	1490	2110	6.8	6.5	6.3
room	25 + 25	2.50	2.50	3.0	5.0	6.2	560	1280	2050	5.9	5.6	5.4
	25 + 35	2.42	3.38	3.0	5.8	6.4	560	1740	2140	8.0	7.6	7.3
	35 + 35	2.90	2.90	3.0	5.8	6.4	560	1740	2140	8.0	7.6	7.3

			Heati	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	Standard current (A)		
combina	ation	Room capaci	heating ty (kW)	Tota	al capacity (	(kW)	Min.	Standard	Max.	220V	230V	240V	
		Α	В	Min.	Standard	Max.							
	20	3.0	-	1.4	3.0	3.7	470	750	1070	3.4	3.3	3.2	
1 room	25	3.4	-	1.4	3.4	4.2	470	920	1210	4.2	4.0	3.9	
room	35	4.5	-	1.4	4.5	5.0	470	1210	1450	5.6	5.3	5.1	
	20 + 20	2.25	2.25	2.0	4.5	7.4	530	900	2570	4.1	4.0	3.8	
	20 + 25	2.49	3.11	2.0	5.6	7.4	530	1200	2570	5.5	5.3	5.1	
2	20 + 35	2.36	4.14	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3	
room	25 + 25	3.25	3.25	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3	
	25 + 35	2.71	3.79	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3	
	35 + 35	3.25	3.25	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3	

## (b) Indoor unit except SRK\*\*ZJX-S models

## <Cooling>

			Cooli	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard currer	nt (A)
combina	ation	Room capaci	cooling ty (kW)	Tota	al capacity (	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	2.0	-	1.8	2.0	2.7	490	560	880	2.6	2.5	2.4
1 room	25	2.5	-	1.8	2.5	3.2	490	710	1040	3.3	3.1	3.0
room	35	3.5	-	1.8	3.5	3.7	490	1030	1200	4.7	4.5	4.3
	20 + 20	2.00	2.00	3.0	4.0	5.6	560	880	1750	4.0	3.9	3.7
	20 + 25	2.00	2.50	3.0	4.5	5.8	560	1090	1900	5.0	4.8	4.6
2	20 + 35	2.00	3.50	3.0	5.5	6.2	560	1560	2110	7.2	6.9	6.6
room	25 + 25	2.50	2.50	3.0	5.0	6.1	560	1340	2050	6.2	5.9	5.6
	25 + 35	2.42	3.38	3.0	5.8	6.3	560	1820	2140	8.4	8.0	7.7
	35 + 35	2.90	2.90	3.0	5.8	6.3	560	1820	2140	8.4	8.0	7.7

## <Heating>

Indoor unit combination		Heati	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard currer	nt (A)	
combina	ation	Room capaci	heating ty (kW)	Tota	al capacity (	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	3.0	-	1.4	3.0	3.5	470	900	1070	4.1	4.0	3.8
1 room	25	3.4	-	1.4	3.4	4.0	470	1070	1210	4.9	4.7	4.5
room	35	4.5	-	1.4	4.5	4.8	470	1340	1450	6.2	5.9	5.6
	20 + 20	2.25	2.25	2.0	4.5	7.2	530	930	2570	4.3	4.1	3.9
	20 + 25	2.49	3.11	2.0	5.6	7.2	530	1240	2570	5.7	5.4	5.2
2	20 + 35	2.36	4.14	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5
room	25 + 25	3.25	3.25	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5
	25 + 35	2.71	3.79	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5
	35 + 35	3.25	3.25	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5

# (3) Model SCM50ZJ-S1(a) Indoor unit SRK\*\*ZJX-S models only

<Cooling>

Indoor unit combination			C	Cooling ca	pacity (kV	V)		Power	consumpt	ion (W)	Stand	dard curre	nt (A)
combin	ation	Room co	oling capa	acity (kW)	Tota	al capacity	(kW)	Min	Ctondord	Max	2201/	0201/	2401/
		Α	В	С	Min.	Standard	max.	IVIII.	Stanuaru	Max.	2200	2300	2400
	20	2.0	-	-	1.8	2.0	2.8	500	550	900	2.5	2.4	2.3
1	25	2.5	-	-	1.8	2.5	3.4	500	720	1070	3.3	3.2	3.0
room	35	3.5	-	-	1.8	3.5	3.9	500	1080	1230	5.0	4.7	4.5
	50	5.0	-	-	1.8	5.0	5.5	500	1700	2000	7.8	7.5	7.2
	20 + 20	2.00	2.00	-	3.0	4.0	5.7	570	910	1800	4.2	4.0	3.8
	20 + 25	1.91	2.39	-	3.0	4.3	5.9	570	1070	1980	4.9	4.7	4.5
	20 + 35	1.82	3.18	-	3.0	5.0	6.2	570	1430	2070	6.6	6.3	6.0
	20 + 50	1.71	4.29	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
room	25 + 25	2.35	2.35	-	3.0	4.7	6.2	570	1270	2070	5.8	5.6	5.3
100111	25 + 35	2.21	3.09	-	3.0	5.3	6.5	570	1600	2150	7.3	7.0	6.7
	25 + 50	2.00	4.00	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	35 + 35	3.00	3.00	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	35 + 50	2.47	3.53	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	7.1	690	1080	2150	5.0	4.7	4.5
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	7.1	690	1160	2150	5.3	5.1	4.9
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	7.1	690	1330	2150	6.1	5.8	5.6
room	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	7.1	690	1260	2150	5.8	5.5	5.3
100111	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	7.1	690	1430	2150	6.6	6.3	6.0
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	7.1	690	1330	2150	6.1	5.8	5.6
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	7.1	690	1490	2150	6.8	6.5	6.3

## <Heating>

Indoor u	unit		ŀ	leating ca	pacity (kV	V)		Power	consumpt	on (W)	Stan	dard curre	nt (A)
combin	ation	Room he	ating capa	acity (kW)	Tota	al capacity	(kW)	Min	Standard	Mox	2201/	2201/	2401/
		Α	В	С	Min.	Standard	max.		Stanuaru	wax.	2200	2300	2400
	20	3.0	-	-	1.4	3.0	3.7	480	820	1100	3.8	3.6	3.5
1	25	3.4	-	-	1.4	3.4	4.2	480	980	1240	4.5	4.3	4.1
room	35	4.5	-	-	1.4	4.5	5.0	480	1280	1490	5.9	5.6	5.4
	50	5.8	-	-	1.4	5.8	6.2	480	1740	2260	8.0	7.6	7.3
	20 + 20	2.95	2.95	-	2.0	5.9	7.3	540	1480	2580	6.8	6.5	6.2
	20 + 25	2.67	3.33	-	2.0	6.0	7.3	540	1530	2580	7.0	6.7	6.4
	20 + 35	2.29	4.01	-	2.0	6.3	7.3	540	1620	2580	7.4	7.1	6.8
	20 + 50	1.89	4.71	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
2	25 + 25	3.05	3.05	-	2.0	6.1	7.3	540	1560	2580	7.2	6.9	6.6
100111	25 + 35	2.67	3.73	-	2.0	6.4	7.3	540	1650	2580	7.6	7.2	6.9
	25 + 50	2.20	4.40	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	35 + 35	3.30	3.30	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	35 + 50	2.72	3.88	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.5	600	1310	2580	6.0	5.8	5.5
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.5	600	1400	2580	6.4	6.1	5.9
	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.5	600	1560	2580	7.2	6.9	6.6
room	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.5	600	1470	2580	6.7	6.5	6.2
	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.5	600	1620	2580	7.4	7.1	6.8
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.5	600	1560	2580	7.2	6.9	6.6
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.5	600	1690	2580	7.8	7.4	7.1

## (b) Indoor unit except SRK \*\* ZJX-S models only

<Cooling>

Indoor	unit		c	cooling ca	pacity (kV	/)		Power	consumpt	ion (W)	Stand	dard curre	nt (A)
combina	ation	Room co	oling capa	city (kW)	Tota	l capacity	(kW)	Min	Standard	Max	2201/	2201/	2401/
		Α	В	С	Min.	Standard	max.		Stanuaru	wax.	2200	2307	240 V
	20	2.0	-	-	1.8	2.0	2.7	500	580	900	2.7	2.5	2.4
1	25	2.5	-	-	1.8	2.5	3.2	500	760	1070	3.5	3.3	3.2
room	35	3.5	-	-	1.8	3.5	3.7	500	1140	1230	5.2	5.0	4.8
	50	5.0	-	-	1.8	5.0	5.3	500	1790	2000	8.2	7.9	7.5
	20 + 20	2.00	2.00	-	3.0	4.0	5.6	570	950	1800	4.4	4.2	4.0
	20 + 25	1.91	2.39	-	3.0	4.3	5.8	570	1110	1980	5.1	4.9	4.7
	20 + 35	1.82	3.18	-	3.0	5.0	6.1	570	1490	2070	6.8	6.5	6.3
	20 + 50	1.71	4.29	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
2 room	25 + 25	2.35	2.35	-	3.0	4.7	6.1	570	1320	2070	6.1	5.8	5.6
	25 + 35	2.21	3.09	-	3.0	5.3	6.3	570	1660	2150	7.6	7.3	7.0
	25 + 50	2.00	4.00	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
	35 + 35	3.00	3.00	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
	35 + 50	2.47	3.53	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	6.9	690	1120	2150	5.3	5.1	4.9
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	6.9	690	1200	2150	5.7	5.4	5.2
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	6.9	690	1370	2150	6.5	6.2	5.9
room	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	6.9	690	1300	2150	6.2	5.9	5.6
	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	6.9	690	1470	2150	7.0	6.7	6.4
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	6.9	690	1370	2150	6.5	6.2	5.9
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	6.9	690	1540	2150	7.3	7.0	6.7

### <Heating>

Indoor	unit		ŀ	leating cap	oacity (kV	V)		Power	consumpti	ion (W)	Stand	dard curre	nt (A)
combin	ation	Room he	ating capa	city (kW)	Tota	al capacity	(kW)	Min	Standard	Mox	2201/	2201/	2401/
		Α	В	С	Min.	Standard	max.	IVIII.	Stanuaru	Max.	2200	2300	2400
	20	3.0	-	-	1.4	3.0	3.5	480	1020	1100	4.7	4.5	4.3
1	25	3.4	-	-	1.4	3.4	4.0	480	1180	1240	5.4	5.2	5.0
room	35	4.5	-	-	1.4	4.5	4.8	480	1470	1490	6.7	6.5	6.2
	50	5.8	-	-	1.4	5.8	6.0	480	1910	2260	8.8	8.4	8.0
	20 + 20	2.95	2.95	-	2.0	5.9	7.0	540	1510	2580	6.9	6.6	6.4
	20 + 25	2.67	3.33	-	2.0	6.0	7.0	540	1560	2580	7.2	6.9	6.6
	20 + 35	2.29	4.01	-	2.0	6.3	7.0	540	1650	2580	7.6	7.2	6.9
	20 + 50	1.89	4.71	-	2.0	6.6	7.0	540	1740	2580	8.0	7.6	7.3
2 room	25 + 25	3.05	3.05	-	2.0	6.1	7.0	540	1590	2580	7.3	7.0	6.7
	25 + 35	2.67	3.73	-	2.0	6.4	7.0	540	1680	2580	7.7	7.4	7.1
	25 + 50	2.20	4.40	-	2.0	6.6	7.0	540	1740	2580	8.0	7.6	7.3
	35 + 35	3.30	3.30	-	2.0	6.6	7.0	540	1740	2580	8.0	7.6	7.3
	35 + 50	2.72	3.88	-	2.0	6.6	7.0	540	1740	2580	8.0	7.6	7.3
	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.3	600	1340	2580	6.3	6.1	5.8
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.3	600	1430	2580	6.8	6.5	6.2
	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.3	600	1600	2580	7.6	7.2	6.9
room	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.3	600	1510	2580	7.1	6.8	6.6
	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.3	600	1660	2580	7.9	7.5	7.2
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.3	600	1600	2580	7.6	7.2	6.9
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.3	600	1730	2580	8.2	7.8	7.5

ESP-PR-1040 🛦

# (4) Model SCM60ZJ-S1(a) Indoor unit SRK\*\*ZJX-S models only

Indoor	unit		C	Cooling ca	pacity (kV	V)		Power	consumpt	ion (W)	Stan	dard curre	nt (A)
combin	ation	Room co	oling capa	acity (kW)	Tota	al capacity	(kW)						
		Α	В	С	Min.	Standard	Max.	Min.	Standard	Max.	2200	2300	240V
	20	2.0	-	-	1.8	2.0	2.8	500	540	950	2.5	2.4	2.3
	25	2.5	-	-	1.8	2.5	3.4	500	720	1080	3.3	3.2	3.0
1 room	35	3.5	-	-	1.8	3.5	3.9	500	1090	1240	5.0	4.8	4.6
	50	5.0	-	-	1.8	5.0	5.8	500	1780	2100	8.2	7.8	7.5
	60	6.0	-	-	1.8	6.0	6.3	500	2260	2370	10.4	9.9	9.5
	20 + 20	2.00	2.00	-	3.0	4.0	5.7	570	750	1750	3.4	3.3	3.2
	20 + 25	2.00	2.50	-	3.0	4.5	5.9	570	990	1910	4.5	4.3	4.2
	20 + 35	1.93	3.37	-	3.0	5.3	6.2	570	1550	2110	7.1	6.8	6.5
	20 + 50	1.89	4.71	-	3.0	6.6	6.9	570	2280	2390	10.5	10.0	9.6
	20 + 60	1.68	5.03	-	3.0	6.7	6.9	570	2320	2390	10.7	10.2	9.8
	25 + 25	2.45	2.45	-	3.0	4.9	6.2	570	1270	2110	5.8	5.6	5.3
2	25 + 35	2.42	3.38	-	3.0	5.8	6.5	570	1840	2270	8.4	8.1	7.7
room	25 + 50	2.23	4.47	-	3.0	6.7	6.9	570	2320	2390	10.7	10.2	9.8
	25 + 60	1.97	4.73	-	3.0	6.7	6.9	570	2320	2390	10.7	10.2	9.8
	35 + 35	3.30	3.30	-	3.0	6.6	6.9	570	2280	2390	10.5	10.0	9.6
	35 + 50	2.76	3.94	-	3.0	6.7	6.9	570	2320	2390	10.7	10.2	9.8
	35 + 60	2.47	4.23	-	3.0	6.7	6.9	570	2320	2390	10.7	10.2	9.8
	50 + 50	3.35	3.35	-	3.0	6.7	6.9	570	2320	2390	10.7	10.2	9.8
	50 + 60	3.05	3.65	-	3.0	6.7	6.9	570	2320	2390	10.7	10.2	9.8
	20 + 20 + 20	1.90	1.90	1.90	3.6	5.7	7.5	690	1390	2390	6.6	6.3	6.0
	20 + 20 + 25	1.82	1.82	2.27	3.6	5.9	7.5	690	1410	2390	6.7	6.4	6.1
	20 + 20 + 35	1.60	1.60	2.80	3.6	6.0	7.5	690	1430	2390	6.8	6.5	6.2
	20 + 20 + 50	1.40	1.40	3.50	3.6	6.3	7.5	690	1480	2390	7.0	6.7	6.4
	20 + 20 + 60	1.28	1.28	3.84	3.6	6.4	7.5	690	1500	2390	7.1	6.8	6.5
	20 + 25 + 25	1.69	2.11	2.11	3.6	5.9	7.5	690	1410	2390	6.7	6.4	6.1
	20 + 25 + 35	1.53	1.91	2.67	3.6	6.1	7.5	690	1460	2390	6.9	6.6	6.3
	20 + 25 + 50	1.35	1.68	3.37	3.6	6.4	7.5	690	1500	2390	7.1	6.8	6.5
3	20 + 25 + 60	1.26	1.57	3.77	3.6	6.6	7.5	690	1520	2390	7.2	6.9	6.6
room	20 + 35 + 35	1.40	2.45	2.45	3.6	6.3	7.5	690	1480	2390	7.0	6.7	6.4
	20 + 35 + 50	1.26	2.20	3.14	3.6	6.6	7.5	690	1520	2390	7.2	6.9	6.6
	25 + 25 + 25	2.00	2.00	2.00	3.6	6.0	7.5	690	1430	2390	6.8	6.5	6.2
	25 + 25 + 35	1.79	1.79	2.51	3.6	6.1	7.5	690	1460	2390	6.9	6.6	6.3
	25 + 25 + 50	1.60	1.60	3.20	3.6	6.4	7.5	690	1500	2390	7.1	6.8	6.5
	25 + 25 + 60	1.52	1.52	3.65	3.6	6.7	7.5	690	1540	2390	7.3	7.0	6.7
	25 + 35 + 35	1.68	2.36	2.36	3.6	6.4	7.5	690	1500	2390	7.1	6.8	6.5
	25 + 35 + 50	1.52	2.13	3.05	3.6	6.7	7.5	690	1540	2390	7.3	7.0	6.7
	35 + 35 + 35	2.20	2.20	2.20	3.6	6.6	7.5	690	1520	2390	7.2	6.9	6.6

Indooru	unit		ŀ	leating ca	pacity (kV	V)		Power	consumpt	ion (W)	Stan	dard curre	nt (A)
combin	ation	Room he	ating capa	acity (kW)	Tota	al capacity	(kW)	l					
		A	B	C	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20	3.0	-	-	1.5	3.0	3.7	600	780	1330	3.6	3.4	3.3
	25	3.4	-	-	1.5	3.4	4.2	600	950	1510	4.4	4.2	4.0
1 room	35	4.5	-	-	1.5	4.5	5.0	600	1290	1790	5.9	5.7	5.4
100111	50	5.8	-	-	1.5	5.8	6.4	600	1780	2310	8.2	7.8	7.5
	60	6.8	-	-	1.5	6.8	7.3	600	2120	2660	9.7	9.3	8.9
	20 + 20	3.00	3.00	-	2.1	6.0	7.3	630	1490	2100	6.8	6.5	6.3
	20 + 25	2.71	3.39	-	2.1	6.1	7.5	630	1570	2550	7.2	6.9	6.6
	20 + 35	2.36	4.14	-	2.1	6.5	7.6	630	1680	3000	7.7	7.4	7.1
	20 + 50	2.00	5.00	-	2.1	7.0	7.6	630	1900	3000	8.7	8.3	8.0
	20 + 60	1.78	5.33	-	2.1	7.1	7.6	630	1940	3000	8.9	8.5	8.2
	25 + 25	3.15	3.15	-	2.1	6.3	7.6	630	1630	3000	7.5	7.2	6.9
2	25 + 35	2.79	3.91	-	2.1	6.7	7.6	630	1760	3000	8.1	7.7	7.4
room	25 + 50	2.37	4.73	-	2.1	7.1	7.6	630	1940	3000	8.9	8.5	8.2
	25 + 60	2.09	5.01	-	2.1	7.1	7.6	630	1940	3000	8.9	8.5	8.2
	35 + 35	3.50	3.50	-	2.1	7.0	7.6	630	1900	3000	8.7	8.3	8.0
	35 + 50	2.92	4.18	-	2.1	7.1	7.6	630	1940	3000	8.9	8.5	8.2
	35 + 60	2.62	4.48	-	2.1	7.1	7.6	630	1940	3000	8.9	8.5	8.2
	50 + 50	3.55	3.55	-	2.1	7.1	7.6	630	1940	3000	8.9	8.5	8.2
	50 + 60	3.23	3.87	-	2.1	7.1	7.6	630	1940	3000	8.9	8.5	8.2
	20 + 20 + 20	2.20	2.20	2.20	3.2	6.6	7.8	660	1350	3000	6.4	6.1	5.9
	20 + 20 + 25	2.06	2.06	2.58	3.2	6.7	7.8	660	1390	3000	6.6	6.3	6.0
	20 + 20 + 35	1.81	1.81	3.17	3.2	6.8	7.8	660	1510	3000	7.1	6.8	6.6
	20 + 20 + 50	1.56	1.56	3.89	3.2	7.0	7.8	660	1690	3000	8.0	7.7	7.3
	20 + 20 + 60	1.44	1.44	4.32	3.2	7.2	7.8	660	1860	3000	8.8	8.4	8.1
	20 + 25 + 25	1.94	2.43	2.43	3.2	6.8	7.8	660	1510	3000	7.1	6.8	6.6
	20 + 25 + 35	1.73	2.16	3.02	3.2	6.9	7.8	660	1560	3000	7.4	7.1	6.8
	20 + 25 + 50	1.49	1.87	3.74	3.2	7.1	7.8	660	1740	3000	8.2	7.9	7.6
3	20 + 25 + 60	1.37	1.71	4.11	3.2	7.2	7.8	660	1860	3000	8.8	8.4	8.1
room	20 + 35 + 35	1.56	2.72	2.72	3.2	7.0	7.8	660	1690	3000	8.0	7.7	7.3
	20 + 35 + 50	1.37	2.40	3.43	3.2	7.2	7.8	660	1860	3000	8.8	8.4	8.1
	25 + 25 + 25	2.27	2.27	2.27	3.2	6.8	7.8	660	1510	3000	7.1	6.8	6.6
	25 + 25 + 35	2.06	2.06	2.88	3.2	7.0	7.8	660	1690	3000	8.0	7.7	7.3
	25 + 25 + 50	1.80	1.80	3.60	3.2	7.2	7.8	660	1860	3000	8.8	8.4	8.1
	25 + 25 + 60	1.64	1.64	3.93	3.2	7.2	7.8	660	1860	3000	8.8	8.4	8.1
	25 + 35 + 35	1.87	2.62	2.62	3.2	7.1	7.8	660	1740	3000	8.2	7.9	7.6
	25 + 35 + 50	1.64	2.29	3.27	3.2	7.2	7.8	660	1860	3000	8.8	8.4	8.1
	35 + 35 + 35	2.40	2.40	2.40	3.2	7.2	7.8	660	1860	3000	8.8	8.4	8.1

## (b) Indoor unit except SRK \*\* ZJX-S models only

Indoor	unit			Cooling ca	pacity (kV	V)		Power	consumpt	ion (W)	Stand	dard curre	nt (A)
combin	ation	Room co	oling capa	acity (kW)	Tota	al capacity	(kW)		0		0001/	0001/	04014
		A	В	С	Min.	Standard	max.	win.	Standard	Max.	2200	2300	240V
	20	2.0	-	-	1.8	2.0	2.7	500	570	950	2.6	2.5	2.4
	25	2.5	-	-	1.8	2.5	3.2	500	760	1080	3.5	3.3	3.2
1 room	35	3.5	-	-	1.8	3.5	3.7	500	1150	1240	5.3	5.1	4.8
100111	50	5.0	-	-	1.8	5.0	5.6	500	1860	2100	8.5	8.2	7.8
	60	6.0	-	-	1.8	6.0	6.1	500	2350	2370	10.8	10.3	9.9
	20 + 20	2.00	2.00	-	3.0	4.0	5.6	570	800	1750	3.7	3.5	3.4
	20 + 25	2.00	2.50	-	3.0	4.5	5.8	570	1050	1910	4.8	4.6	4.4
	20 + 35	1.93	3.37	-	3.0	5.3	6.1	570	1620	2110	7.4	7.1	6.8
	20 + 50	1.89	4.71	-	3.0	6.6	6.8	570	2330	2390	10.7	10.2	9.8
	20 + 60	1.68	5.03	-	3.0	6.7	6.8	570	2370	2390	10.9	10.4	10.0
	25 + 25	2.45	2.45	-	3.0	4.9	6.1	570	1340	2110	6.2	5.9	5.6
2	25 + 35	2.42	3.38	-	3.0	5.8	6.4	570	1920	2270	8.8	8.4	8.1
room	25 + 50	2.23	4.47	-	3.0	6.7	6.8	570	2370	2390	10.9	10.4	10.0
	25 + 60	1.97	4.73	-	3.0	6.7	6.8	570	2370	2390	10.9	10.4	10.0
	35 + 35	3.30	3.30	-	3.0	6.6	6.8	570	2330	2390	10.7	10.2	9.8
	35 + 50	2.76	3.94	-	3.0	6.7	6.8	570	2370	2390	10.9	10.4	10.0
	35 + 60	2.47	4.23	-	3.0	6.7	6.8	570	2370	2390	10.9	10.4	10.0
	50 + 50	3.35	3.35	-	3.0	6.7	6.8	570	2370	2390	10.9	10.4	10.0
	50 + 60	3.05	3.65	-	3.0	6.7	6.8	570	2370	2390	10.9	10.4	10.0
	20 + 20 + 20	1.90	1.90	1.90	3.6	5.7	7.3	690	1430	2390	6.8	6.5	6.2
	20 + 20 + 25	1.82	1.82	2.27	3.6	5.9	7.3	690	1450	2390	6.9	6.6	6.3
	20 + 20 + 35	1.60	1.60	2.80	3.6	6.0	7.3	690	1470	2390	7.0	6.7	6.4
	20 + 20 + 50	1.40	1.40	3.50	3.6	6.3	7.3	690	1520	2390	7.2	6.9	6.6
	20 + 20 + 60	1.28	1.28	3.84	3.6	6.4	7.3	690	1540	2390	7.3	7.0	6.7
	20 + 25 + 25	1.69	2.11	2.11	3.6	5.9	7.3	690	1450	2390	6.9	6.6	6.3
	20 + 25 + 35	1.53	1.91	2.67	3.6	6.1	7.3	690	1500	2390	7.1	6.8	6.5
	20 + 25 + 50	1.35	1.68	3.37	3.6	6.4	7.3	690	1540	2390	7.3	7.0	6.7
3	20 + 25 + 60	1.26	1.57	3.77	3.6	6.6	7.3	690	1560	2390	7.4	7.1	6.8
room	20 + 35 + 35	1.40	2.45	2.45	3.6	6.3	7.3	690	1520	2390	7.2	6.9	6.6
	20 + 35 + 50	1.26	2.20	3.14	3.6	6.6	7.3	690	1560	2390	7.4	7.1	6.8
	25 + 25 + 25	2.00	2.00	2.00	3.6	6.0	7.3	690	1470	2390	7.0	6.7	6.4
	25 + 25 + 35	1.79	1.79	2.51	3.6	6.1	7.3	690	1500	2390	7.1	6.8	6.5
	25 + 25 + 50	1.60	1.60	3.20	3.6	6.4	7.3	690	1540	2390	7.3	7.0	6.7
	25 + 25 + 60	1.52	1.52	3.65	3.6	6.7	7.3	690	1580	2390	7.5	7.2	6.9
	25 + 35 + 35	1.68	2.36	2.36	3.6	6.4	7.3	690	1540	2390	7.3	7.0	6.7
	25 + 35 + 50	1.52	2.13	3.05	3.6	6.7	7.3	690	1580	2390	7.5	7.2	6.9
	35 + 35 + 35	2.20	2.20	2.20	3.6	6.6	7.3	690	1560	2390	7.4	7.1	6.8

Indoor	unit			leating ca	pacity (kV	V)		Power	consumpt	ion (W)	Stan	dard curre	nt (A)
combin	ation	Room he	ating capa	acity (kW)	Tota	al capacity	(kW)	l					
		Α	B	C	Min.	Standard	max.	Min.	Standard	Max.	220V	230V	240V
	20	3.0	-	-	1.5	3.0	3.5	600	970	1330	4.5	4.3	4.1
	25	3.4	-	-	1.5	3.4	4.0	600	1140	1510	5.2	5.0	4.8
1 room	35	4.5	-	-	1.5	4.5	4.8	600	1480	1790	6.8	6.5	6.2
100111	50	5.8	-	-	1.5	5.8	6.1	600	1960	2310	9.0	8.6	8.2
	60	6.8	-	-	1.5	6.8	7.0	600	2250	2660	10.3	9.9	9.5
	20 + 20	3.00	3.00	-	2.1	6.0	7.0	630	1520	2100	7.0	6.7	6.4
	20 + 25	2.71	3.39	-	2.1	6.1	7.2	630	1600	2550	7.3	7.0	6.7
	20 + 35	2.36	4.14	-	2.1	6.5	7.3	630	1710	3000	7.9	7.5	7.2
	20 + 50	2.00	5.00	-	2.1	7.0	7.3	630	1940	3000	8.9	8.5	8.2
	20 + 60	1.78	5.33	-	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
	25 + 25	3.15	3.15	-	2.1	6.3	7.3	630	1660	3000	7.6	7.3	7.0
2	25 + 35	2.79	3.91	-	2.1	6.7	7.3	630	1790	3000	8.2	7.9	7.5
room	25 + 50	2.37	4.73	-	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
	25 + 60	2.09	5.01	-	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
	35 + 35	3.50	3.50	-	2.1	7.0	7.3	630	1940	3000	8.9	8.5	8.2
	35 + 50	2.92	4.18	-	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
	35 + 60	2.62	4.48	-	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
	50 + 50	3.55	3.55	-	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
	50 + 60	3.23	3.87	-	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
	20 + 20 + 20	2.20	2.20	2.20	3.2	6.6	7.6	660	1380	3000	6.5	6.3	6.0
	20 + 20 + 25	2.06	2.06	2.58	3.2	6.7	7.6	660	1420	3000	6.7	6.4	6.2
	20 + 20 + 35	1.81	1.81	3.17	3.2	6.8	7.6	660	1540	3000	7.3	7.0	6.7
	20 + 20 + 50	1.56	1.56	3.89	3.2	7.0	7.6	660	1730	3000	8.2	7.8	7.5
	20 + 20 + 60	1.44	1.44	4.32	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2
	20 + 25 + 25	1.94	2.43	2.43	3.2	6.8	7.6	660	1540	3000	7.3	7.0	6.7
	20 + 25 + 35	1.73	2.16	3.02	3.2	6.9	7.6	660	1590	3000	7.5	7.2	6.9
	20 + 25 + 50	1.49	1.87	3.74	3.2	7.1	7.6	660	1780	3000	8.4	8.1	7.7
3	20 + 25 + 60	1.37	1.71	4.11	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2
room	20 + 35 + 35	1.56	2.72	2.72	3.2	7.0	7.6	660	1730	3000	8.2	7.8	7.5
	20 + 35 + 50	1.37	2.40	3.43	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2
	25 + 25 + 25	2.27	2.27	2.27	3.2	6.8	7.6	660	1540	3000	7.3	7.0	6.7
	25 + 25 + 35	2.06	2.06	2.88	3.2	7.0	7.6	660	1730	3000	8.2	7.8	7.5
	25 + 25 + 50	1.80	1.80	3.60	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2
	25 + 25 + 60	1.64	1.64	3.93	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2
	25 + 35 + 35	1.87	2.62	2.62	3.2	7.1	7.6	660	1780	3000	8.4	8.1	7.7
	25 + 35 + 50	1.64	2.29	3.27	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2
	35 + 35 + 35	2.40	2.40	2.40	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2

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## (5) Model SCM71ZJ-S1(a) Indoor unit SRK\*\*ZJX-S models only

Indoor	unit			Coolin	ig capacit	y (kW)			Power	consumpt	ion (W)	Stand	ard curre	nt (A)
combin	ation	Roor	n cooling	capacity	(kW)	Tota	I capacity	(kW)		Chan dand		0001/	0001/	0.401/
		Α	В	С	D	Min.	Standard	Max.	iviin.	Standard	wax.	2200	2300	2400
	20	2.0	-	-	-	1.8	2.0	2.8	480	500	950	2.3	2.2	2.1
	25	2.5	-	-	-	1.8	2.5	3.4	480	680	1080	3.1	3.0	2.9
1 room	35	3.5	-	-	-	1.8	3.5	3.9	480	1010	1240	4.6	4.4	4.3
100111	50	5.0	-	-	-	1.8	5.0	6.1	480	1530	2100	7.0	6.7	6.4
	60	6.0	-	-	-	1.8	6.0	7.0	480	1880	2700	8.6	8.3	7.9
	20 + 20	2.00	2.00	-	-	3.0	4.0	6.1	550	850	1910	3.9	3.7	3.6
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.4	550	1070	2060	4.9	4.7	4.5
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.9	550	1470	2320	6.7	6.5	6.2
	20 + 50	1.94	4.86	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	20 + 60	1.70	5.10	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.8	550	1250	2270	5.7	5.5	5.3
	25 + 35	2.46	3.44	-	-	3.0	5.9	7.2	550	1660	2470	7.6	7.3	7.0
2 room	25 + 50	2.27	4.53	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
100111	25 + 60	2.00	4.80	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	35 + 35	3.40	3.40	-	-	3.0	6.8	7.6	550	2030	2680	9.3	8.9	8.5
	35 + 50	2.80	4.00	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	35 + 60	2.51	4.29	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	50 + 50	3.40	3.40	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	50 + 60	3.09	3.71	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	60 + 60	3.40	3.40	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	8.2	670	1380	2750	6.3	6.1	5.8
	20 + 20 + 25	2.00	2.00	2.50	-	3.7	6.5	8.2	670	1560	2750	7.2	6.9	6.6
	20 + 20 + 35	1.84	1.84	3.22	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 20 + 50	1.53	1.53	3.83	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 20 + 60	1.38	1.38	4.14	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	6.8	8.2	670	1740	2750	8.0	7.6	7.3
	20 + 25 + 35	1.73	2.16	3.02	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 25 + 50	1.45	1.82	3.63	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 25 + 60	1.31	1.64	3.94	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 35 + 35	1.53	2.68	2.68	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 35 + 50	1.31	2.30	3.29	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
3 room	20 + 35 + 60	1.20	2.10	3.60	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 50 + 50	1.15	2.88	2.88	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 25 + 25	2.30	2.30	2.30	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 25 + 35	2.03	2.03	2.84	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 25 + 50	1.73	1.73	3.45	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 25 + 60	1.57	1.57	3.76	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 35 + 35	1.82	2.54	2.54	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 35 + 50	1.57	2.20	3.14	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 35 + 60	1.44	2.01	3.45	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 50 + 50	1.38	2.76	2.76	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	35 + 35 + 35	2.30	2.30	2.30	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	35 + 35 + 50	2.01	2.01	2.88	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7

Indoor	unit			Coolin	ig capacit	ty (kW)			Power	consumpt	tion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	n cooling	capacity	(kW)	Tota	I capacity	(kW)	Min	Standard	Max	2201/	2201/	2401/
		Α	В	С	D	Min.	Standard	Max.	· ·····	Stanuaru	wax.	2200	230 V	2400
	20 + 20 + 20 + 20	1.73	1.73	1.73	1.73	4.4	6.9	8.8	890	1700	2750	7.8	7.5	7.2
	20 + 20 + 20 + 25	1.62	1.62	1.62	2.03	4.4	6.9	8.8	890	1700	2750	7.8	7.5	7.2
	20 + 20 + 20 + 35	1.49	1.49	1.49	2.62	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 20 + 50	1.29	1.29	1.29	3.23	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 20 + 60	1.18	1.18	1.18	3.55	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 25 + 25	1.53	1.53	1.92	1.92	4.4	6.9	8.8	890	1700	2750	7.8	7.5	7.2
	20 + 20 + 25 + 35	1.42	1.42	1.78	2.49	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 25 + 50	1.23	1.23	1.54	3.09	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 25 + 60	1.14	1.14	1.42	3.41	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
4	20 + 20 + 35 + 35	1.29	1.29	2.26	2.26	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
room	20 + 20 + 35 + 50	1.14	1.14	1.99	2.84	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 25+ 25 + 25	1.49	1.87	1.87	1.87	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 25 + 25 + 35	1.35	1.69	1.69	2.37	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 25 + 25 + 50	1.18	1.48	1.48	2.96	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 25 + 35 + 35	1.23	1.54	2.16	2.16	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 35 + 35 + 35	1.14	1.99	1.99	1.99	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	25 + 25 + 25 + 25	1.78	1.78	1.78	1.78	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	25 + 25 + 25 + 35	1.61	1.61	1.61	2.26	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	25 + 25 + 25 + 50	1.42	1.42	1.42	2.84	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	25 + 25 + 35 + 35	1.48	1.48	2.07	2.07	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3

Indoor	unit			Heatin	ig capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	n heating	capacity	(kW)	Tota	I capacity	(kW)	Min	Standard	Max	2201/	2201/	2401/
		Α	В	С	D	Min.	Standard	Max.		Stanuaru	wax.	2200	2300	2401
	20	3.0	-	-	-	1.5	3.0	3.7	600	840	1330	3.9	3.7	3.5
	25	3.4	-	-	-	1.5	3.4	4.2	600	1000	1510	4.6	4.4	4.2
1 room	35	4.5	-	-	-	1.5	4.5	5.0	600	1330	1790	6.1	5.8	5.6
100111	50	5.8	-	-	-	1.5	5.8	6.5	600	1780	2310	8.2	7.8	7.5
	60	6.8	-	-	-	1.5	6.8	7.5	600	2100	2660	9.6	9.2	8.8
	20 + 20	2.70	2.70	-	-	2.1	5.4	7.4	630	1340	1870	6.2	5.9	5.6
	20 + 25	2.62	3.28	-	-	2.1	5.9	7.7	630	1530	2130	7.0	6.7	6.4
	20 + 35	2.51	4.39	-	-	2.1	6.9	8.3	630	1910	2650	8.8	8.4	8.0
	20 + 50	2.34	5.86	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	20 + 60	2.05	6.15	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	25 + 25	3.20	3.20	-	-	2.1	6.4	8.1	630	1700	2480	7.8	7.5	7.2
	25 + 35	3.08	4.32	-	-	2.1	7.4	8.6	630	2090	2910	9.6	9.2	8.8
	25 + 50	2.73	5.47	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
100111	25 + 60	2.41	5.79	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	35 + 35	4.10	4.10	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	35 + 50	3.38	4.82	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	35 + 60	3.02	5.18	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	50 + 50	4.10	4.10	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	50 + 60	3.73	4.47	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	60 + 60	4.10	4.10	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2

Indoor	unit			Heatin	g capacit	y (kW)			Power	consumpt	ion (W)	Stand	ard curre	nt (A)
combin	ation	Roor	n heating	capacity	(kW)	Tota	I capacity	(kW)						
		Α	B	C	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 20 + 20	2.57	2.57	2.57	-	3.2	7.7	9.1	660	1830	3350	8.4	8.0	7.7
	20 + 20 + 25	2.46	2.46	3.08	-	3.2	8.0	9.1	660	1930	3350	8.9	8.5	8.1
	20 + 20 + 35	2.24	2.24	3.92	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 20 + 50	1.87	1.87	4.67	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 20 + 60	1.68	1.68	5.04	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 25 + 25	2.34	2.93	2.93	-	3.2	8.2	9.1	660	1990	3350	9.1	8.7	8.4
	20 + 25 + 35	2.10	2.63	3.68	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 25 + 50	1.77	2.21	4.42	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 25 + 60	1.60	2.00	4.80	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 35 + 35	1.87	3.27	3.27	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 35 + 50	1.60	2.80	4.00	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
room	20 + 35 + 60	1.46	2.56	4.38	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 50 + 50	1.40	3.50	3.50	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 25	2.80	2.80	2.80	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 35	2.47	2.47	3.46	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 50	2.10	2.10	4.20	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 60	1.91	1.91	4.58	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 35 + 35	2.21	3.09	3.09	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 35 + 50	1.91	2.67	3.82	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 35 + 60	1.75	2.45	4.20	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 50 + 50	1.68	3.36	3.36	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	35 + 35 + 35	2.80	2.80	2.80	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	35 + 35 + 50	2.45	2.45	3.50	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 20 + 20 + 20	2.10	2.10	2.10	2.10	3.6	8.4	9.4	800	1960	3350	9.0	8.6	8.2
	20 + 20 + 20 + 25	1.98	1.98	1.98	2.47	3.6	8.4	9.4	800	1960	3350	9.0	8.6	8.2
	20 + 20 + 20 + 35	1.79	1.79	1.79	3.13	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	20 + 20 + 20 + 50	1.56	1.56	1.56	3.91	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 20 + 20 + 60	1.43	1.43	1.43	4.30	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 20 + 25 + 25	1.89	1.89	2.36	2.36	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	20 + 20 + 25 + 35	1.70	1.70	2.13	2.98	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	20 + 20 + 25 + 50	1.50	1.50	1.87	3.74	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 20 + 25 + 60	1.38	1.38	1.72	4.13	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
4	20 + 20 + 35 + 35	1.56	1.56	2.74	2.74	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
room	20 + 20 + 35 + 50	1.38	1.38	2.41	3.44	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 25 + 25 + 25	1.79	2.24	2.24	2.24	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	20 + 25 + 25 + 35	1.64	2.05	2.05	2.87	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 25 + 25 + 50	1.43	1.79	1.79	3.58	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 25 + 35 + 35	1.50	1.87	2.62	2.62	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 35 + 35 + 35	1.38	2.41	2.41	2.41	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	25 + 25 + 25 + 25	2.13	2.13	2.13	2.13	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	25 + 25 + 25 + 35	1.95	1.95	1.95	2.74	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	25 + 25 + 25 + 50	1.72	1.72	1.72	3.44	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
1	25 + 25 + 35 + 35	1.79	1.79	2.51	2.51	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4

## (b) Indoor unit except SRK\*\*ZJX-S models only

Indoor	unit			Coolin	ig capacit	y (kW)			Power	consumpt	ion (W)	Stand	ard curre	ent (A)
combin	ation	Roor	n cooling	capacity	(kW)	Tota	I capacity	(kW)	Min	Standard	Max	2201/	2201/	2401/
		Α	В	С	D	Min.	Standard	Max.		Stanuaru	wax.	2200	2307	240 V
	20	2.0	-	-	-	1.8	2.0	2.7	480	530	950	2.4	2.3	2.2
	25	2.5	-	-	-	1.8	2.5	3.2	480	730	1080	3.4	3.2	3.1
1 room	35	3.5	-	-	-	1.8	3.5	3.7	480	1120	1240	5.1	4.9	4.7
100111	50	5.0	-	-	-	1.8	5.0	5.8	480	1710	2100	7.9	7.5	7.2
	60	6.0	-	-	-	1.8	6.0	6.7	480	2140	2700	9.8	9.4	9.0
	20 + 20	2.00	2.00	-	-	3.0	4.0	5.8	550	930	1910	4.3	4.1	3.9
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.1	550	1170	2060	5.4	5.1	4.9
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.6	550	1590	2320	7.3	7.0	6.7
	20 + 50	1.94	4.86	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	20 + 60	1.70	5.10	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.5	550	1360	2270	6.2	6.0	5.7
2	25 + 35	2.46	3.44	-	-	3.0	5.9	6.8	550	1780	2470	8.2	7.8	7.5
room	25 + 50	2.27	4.53	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	25 + 60	2.00	4.80	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	35 + 35	3.40	3.40	-	-	3.0	6.8	7.2	550	2150	2680	9.9	9.4	9.0
	35 + 50	2.80	4.00	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	35 + 60	2.51	4.29	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	50 + 50	3.40	3.40	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	50 + 60	3.09	3.71	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	60 + 60	3.40	3.40	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	7.8	670	1450	2750	6.7	6.4	6.1
	20 + 20 + 25	2.00	2.00	2.50	-	3.7	6.5	7.8	670	1630	2750	7.5	7.2	6.9
	20 + 20 + 35	1.84	1.84	3.22	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 20 + 50	1.53	1.53	3.83	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 20 + 60	1.38	1.38	4.14	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	6.8	7.8	670	1820	2750	8.4	8.0	7.7
	20 + 25 + 35	1.73	2.16	3.02	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 25 + 50	1.45	1.82	3.63	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 25 + 60	1.31	1.64	3.94	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 35 + 35	1.53	2.68	2.68	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
3	20 + 35 + 50	1.31	2.30	3.29	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
room	20 + 35 + 60	1.20	2.10	3.60	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 50 + 50	1.15	2.88	2.88	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 25 + 25	2.30	2.30	2.30	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 25 + 35	2.03	2.03	2.84	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 25 + 50	1.73	1.73	3.45	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 25 + 60	1.57	1.57	3.76	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 35 + 35	1.82	2.54	2.54	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 35 + 50	1.57	2.20	3.14	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 35 + 60	1.44	2.01	3.45	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 50 + 50	1.38	2.76	2.76	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	35 + 35 + 35	2.30	2.30	2.30	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	35 + 35 + 50	2.01	2.01	2.88	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0

Indoor	unit			Coolin	g capacit	ty (kW)			Power	consumpt	tion (W)	Stand	ard curre	ent (A)
combin	ation	Roor	n cooling	capacity	(kW)	Tota	I capacity	(kW)	Min	Standard	Max	2201/	2201/	2401/
		Α	В	С	D	Min.	Standard	Max.		Stanuaru	wax.	2200	2307	2407
	20 + 20 + 20 + 20	1.73	1.73	1.73	1.73	4.4	6.9	8.3	890	1750	2750	8.0	7.7	7.4
	20 + 20 + 20 + 25	1.62	1.62	1.62	2.03	4.4	6.9	8.3	890	1750	2750	8.0	7.7	7.4
	20 + 20 + 20 + 35	1.49	1.49	1.49	2.62	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 20 + 50	1.29	1.29	1.29	3.23	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 20 + 60	1.18	1.18	1.18	3.55	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 25 + 25	1.53	1.53	1.92	1.92	4.4	6.9	8.3	890	1750	2750	8.0	7.7	7.4
2	20 + 20 + 25 + 35	1.42	1.42	1.78	2.49	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 25 + 50	1.23	1.23	1.54	3.09	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 25 + 60	1.14	1.14	1.42	3.41	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
4	20 + 20 + 35 + 35	1.29	1.29	2.26	2.26	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
room	20 + 20 + 35 + 50	1.14	1.14	1.99	2.84	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 25 + 25 + 25	1.49	1.87	1.87	1.87	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 25 + 25 + 35	1.35	1.69	1.69	2.37	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 25 + 25 + 50	1.18	1.48	1.48	2.96	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 25 + 35 + 35	1.23	1.54	2.16	2.16	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 35 + 35 + 35	1.14	1.99	1.99	1.99	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	25 + 25 + 25 + 25	1.78	1.78	1.78	1.78	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	25 + 25 + 25 + 35	1.61	1.61	1.61	2.26	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	25 + 25 + 25 + 50	1.42	1.42	1.42	2.84	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	25 + 25 + 35 + 35	1.48	1.48	2.07	2.07	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5

Indoor	unit			Heatin	g capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	nt (A)
combin	ation	Roor	n heating	capacity	(kW)	Tota	I capacity	(kW)	Min	Stondord	Mox	2201/	2201/	2401/
		Α	В	С	D	Min.	Standard	Max.	WIIII.	Stanuaru	wax.	2200	2307	2401
	20	3.0	-	-	-	1.5	3.0	3.5	600	1060	1330	4.9	4.7	4.5
	25	3.4	-	-	-	1.5	3.4	4.0	600	1220	1510	5.6	5.4	5.1
room	35	4.5	-	-	-	1.5	4.5	4.8	600	1510	1790	6.9	6.6	6.4
	50	5.8	-	-	-	1.5	5.8	6.2	600	1950	2310	9.0	8.6	8.2
	60	6.8	-	-	-	1.5	6.8	7.1	600	2240	2660	10.3	9.8	9.4
	20 + 20	2.70	2.70	-	-	2.1	5.4	7.0	630	1370	1870	6.3	6.0	5.8
2	20 + 25	2.62	3.28	-	-	2.1	5.9	7.3	630	1560	2130	7.2	6.9	6.6
	20 + 35	2.51	4.39	-	-	2.1	6.9	7.9	630	1950	2650	9.0	8.6	8.2
	20 + 50	2.34	5.86	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	20 + 60	2.05	6.15	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	25 + 25	3.20	3.20	-	-	2.1	6.4	7.7	630	1740	2480	8.0	7.6	7.3
	25 + 35	3.08	4.32	-	-	2.1	7.4	8.2	630	2130	2910	9.8	9.4	9.0
2 room	25 + 50	2.73	5.47	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
100111	25 + 60	2.41	5.79	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	35 + 35	4.10	4.10	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	35 + 50	3.38	4.82	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	35 + 60	3.02	5.18	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	50 + 50	4.10	4.10	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	50 + 60	3.73	4.47	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	60 + 60	4.10	4.10	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5

Indoor	unit			Heatin	g capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	n heating	capacity	(kW)	Tota	l capacity	(kW)						
		A	B	C	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 20 + 20	2.57	2.57	2.57	-	3.2	7.7	8.9	660	1870	3350	8.6	8.2	7.9
	20 + 20 + 25	2.46	2.46	3.08	-	3.2	8.0	8.9	660	1970	3350	9.0	8.7	8.3
	20 + 20 + 35	2.24	2.24	3.92	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 20 + 50	1.87	1.87	4.67	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 20 + 60	1.68	1.68	5.04	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 25 + 25	2.34	2.93	2.93	-	3.2	8.2	8.9	660	2030	3350	9.3	8.9	8.5
	20 + 25 + 35	2.10	2.63	3.68	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 25 + 50	1.77	2.21	4.42	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 25 + 60	1.60	2.00	4.80	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 35 + 35	1.87	3.27	3.27	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
2	20 + 35 + 50	1.60	2.80	4.00	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
room	20 + 35 + 60	1.46	2.56	4.38	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 50 + 50	1.40	3.50	3.50	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 25	2.80	2.80	2.80	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
25 25 25 25 25 25	25 + 25 + 35	2.47	2.47	3.46	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 50	2.10	2.10	4.20	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 60	1.91	1.91	4.58	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 35	2.21	3.09	3.09	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 50	1.91	2.67	3.82	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 60	1.75	2.45	4.20	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 50 + 50	1.68	3.36	3.36	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	35 + 35 + 35	2.80	2.80	2.80	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	35 + 35 + 50	2.45	2.45	3.50	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 20 + 20 + 20	2.10	2.10	2.10	2.10	3.6	8.4	9.1	800	2010	3350	9.2	8.8	8.5 0.5
	20 + 20 + 20 + 25	1.90	1.90	1.90	2.47	3.0	0.4	9.1	800	2010	3350	9.2	0.0	0.0
	20 + 20 + 20 + 35	1.79	1.79	1.79	3.13	3.0	0.0 8.6	9.1	800	2030	3350	9.3	0.9	0.0 8.6
	$20 \pm 20 \pm 20 \pm 30$	1.30	1.30	1.30	4 30	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	$20 \pm 20 \pm 20 \pm 25 \pm 25$	1.40	1.40	2.36	2.36	3.6	8.5	9.1	800	2030	3350	9.4	8.0	8.5
	20 + 20 + 25 + 25	1.00	1.00	2.00	2.00	3.6	8.5	9.1	800	2030	3350	93	8.9	8.5
	20 + 20 + 25 + 50	1.70	1.70	1.87	3.74	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 20 + 25 + 60 20 + 20 + 25 + 60	1.38	1.38	1.72	4.13	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
4	20 + 20 + 35 + 35	1.56	1.56	2.74	2.74	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
room	20 + 20 + 35 + 50	1.38	1.38	2.41	3.44	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 25 + 25 + 25	1.79	2.24	2.24	2.24	3.6	8.5	9.1	800	2030	3350	9.3	8.9	8.5
	20 + 25 + 25 + 35	1.64	2.05	2.05	2.87	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 25 + 25 + 50	1.43	1.79	1.79	3.58	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 25 + 35 + 35	1.50	1.87	2.62	2.62	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 35 + 35 + 35	1.38	2.41	2.41	2.41	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	25 + 25 + 25 + 25	2.13	2.13	2.13	2.13	3.6	8.5	9.1	800	2030	3350	9.3	8.9	8.5
	25 + 25 + 25 + 35	1.95	1.95	1.95	2.74	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	25 + 25 + 25 + 50	1.72	1.72	1.72	3.44	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	25 + 25 + 35 + 35	1.79	1.79	2.51	2.51	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6

## (6) Model SCM80ZJ-S1

## (a) Indoor unit SRK\*\*ZJX-S models only

Indoor	unit			Coolin	ng capacit	ty (kW)			Power	consumpt	tion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	n cooling	capacity	(kW)	Tota	I capacity	(kW)				0001/	0001/	0.401/
		Α	В	С	D	Min.	Standard	Max.	win.	Standard	Max.	2200	2300	240V
	20	2.0	-	-	-	1.8	2.0	2.8	480	500	950	2.3	2.2	2.1
	25	2.5	-	-	-	1.8	2.5	3.4	480	680	1080	3.1	3.0	2.9
1	35	3.5	-	-	-	1.8	3.5	3.9	480	1010	1240	4.6	4.4	4.3
10011	50	5.0	-	-	-	1.8	5.0	6.1	480	1530	2100	7.0	6.7	6.4
	60	6.0	-	-	-	1.8	6.0	7.0	480	1880	2700	8.6	8.3	7.9
	20 + 20	2.00	2.00	-	-	3.0	4.0	6.1	550	850	1910	3.9	3.7	3.6
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.4	550	1070	2060	4.9	4.7	4.5
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.9	550	1470	2320	6.7	6.5	6.2
	20 + 50	1.97	4.93	-	-	3.0	6.9	7.9	550	2070	2830	9.5	9.1	8.7
	20 + 60	1.85	5.55	-	-	3.0	7.4	7.9	550	2290	2830	10.5	10.1	9.6
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.8	550	1250	2270	5.7	5.5	5.3
	25 + 35	2.46	3.44	-	-	3.0	5.9	7.2	550	1660	2470	7.6	7.3	7.0
room	25 + 50	2.47	4.93	-	-	3.0	7.4	7.9	550	2290	2830	10.5	10.1	9.6
	25 + 60	2.18	5.22	-	-	3.0	7.4	7.9	550	2290	2830	10.5	10.1	9.6
	35 + 35	3.45	3.45	-	-	3.0	6.9	7.6	550	2070	2680	9.5	9.1	8.7
	35 + 50	3.05	4.35	-	-	3.0	7.4	7.9	550	2290	2830	10.5	10.1	9.6
35 50 50 60	35 + 60	2.73	4.67	-	-	3.0	7.4	7.9	550	2290	2830	10.5	10.1	9.6
	50 + 50	3.70	3.70	-	-	3.0	7.4	7.9	550	2290	2830	10.5	10.1	9.6
	50 + 60	3.36	4.04	-	-	3.0	7.4	7.9	550	2290	2830	10.5	10.1	9.6
	60 + 60	3.70	3.70	-	-	3.0	7.4	7.9	550	2290	2830	10.5	10.1	9.6
	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	8.5	670	1380	2830	6.3	6.1	5.8
	20 + 20 + 25	2.00	2.00	2.50	-	3.7	6.5	8.5	670	1560	2830	7.2	6.9	6.6
	20 + 20 + 35	1.89	1.89	3.31	-	3.7	7.1	8.5	670	1880	2830	8.6	8.3	7.9
	20 + 20 + 50	1.73	1.73	4.33	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	20 + 20 + 60	1.56	1.56	4.68	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	6.8	8.5	670	1740	2830	8.0	7.6	7.3
	20 + 25 + 35	1.88	2.34	3.28	-	3.7	7.5	8.5	670	2050	2830	9.4	9.0	8.6
	20 + 25 + 50	1.64	2.05	4.11	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	20 + 25 + 60	1.49	1.86	4.46	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	20 + 35 + 35	1.73	3.03	3.03	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	20 + 35 + 50	1.49	2.60	3.71	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	20 + 35 + 60	1.36	2.37	4.07	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
3	20 + 50 + 50	1.30	3.25	3.25	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
room	20 + 50 + 60	1.20	3.00	3.60	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	25 + 25 + 25	2.37	2.37	2.37	-	3.7	7.1	8.5	670	1880	2830	8.6	8.3	7.9
	25 + 25 + 35	2.29	2.29	3.21	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	25 + 25 + 50	1.95	1.95	3.90	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	25 + 25 + 60	1.77	1.77	4.25	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	25 + 35 + 35	2.05	2.87	2.87	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	25 + 35 + 50	1.77	2.48	3.55	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	25 + 35 + 60	1.63	2.28	3.90	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	25 + 50 + 50	1.56	3.12	3.12	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	25 + 50 + 60	1.44	2.89	3.47	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	35 + 35 + 35	2.60	2.60	2.60	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	35 + 35 + 50	2.28	2.28	3.25	-	3.7	7.8	8.5	670	2230	2830	10.2	9.8	9.4
	35 + 35 + 60	2.10	2.10	3.60	-	3./	7.8	8.5 9.5	670	2230	2830	10.2	9.8	9.4

Indoor	unit			Coolin	ig capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	n cooling	capacity	(kW)	Tota	I capacity	(kW)	Min	Standard	Max	2201/	2201/	2401/
		Α	В	С	D	Min.	Standard	Max.		Stanuaru	IVIAA.	2200	2300	2400
	20 + 20 + 20 + 20	1.95	1.95	1.95	1.95	4.4	7.8	9.2	890	2120	2830	9.6	9.2	8.8
	20 + 20 + 20 + 25	1.84	1.84	1.84	2.29	4.4	7.8	9.2	890	2120	2830	9.6	9.2	8.8
	20 + 20 + 20 + 35	1.66	1.66	1.66	2.91	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	20 + 20 + 20 + 50	1.44	1.44	1.44	3.59	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	20 + 20 + 20 + 60	1.33	1.33	1.33	4.00	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	20 + 20 + 25 + 25	1.76	1.76	2.19	2.19	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	20 + 20 + 25 + 35	1.58	1.58	1.98	2.77	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	20 + 20 + 25 + 50	1.37	1.37	1.72	3.43	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	20 + 20 + 25 + 60	1.28	1.28	1.60	3.84	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
2	20 + 20 + 35 + 35	1.44	1.44	2.51	2.51	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	20 + 20 + 35 + 50	1.28	1.28	2.24	3.20	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	20 + 20 + 35 + 60	1.19	1.19	2.07	3.56	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
4	20 + 25 + 25 + 25	1.66	2.08	2.08	2.08	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
room	20 + 25 + 25 + 35	1.50	1.88	1.88	2.63	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	20 + 25 + 25 + 50	1.33	1.67	1.67	3.33	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	20 + 25 + 25 + 60	1.23	1.54	1.54	3.69	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	20 + 25 + 35 + 35	1.37	1.72	2.40	2.40	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	20 + 25 + 35 + 50	1.23	1.54	2.15	3.08	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	20 + 35 + 35 + 35	1.28	2.24	2.24	2.24	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	25 + 25 + 25 + 25	1.98	1.98	1.98	1.98	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	25 + 25 + 25 + 35	1.80	1.80	1.80	2.51	4.4	7.9	9.2	890	2140	2830	9.7	9.3	8.9
	25 + 25 + 25 + 50	1.60	1.60	1.60	3.20	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	25 + 25 + 25 + 60	1.48	1.48	1.48	3.56	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	25 + 25 + 35 + 35	1.67	1.67	2.33	2.33	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	25 + 25 + 35 + 50	1.48	1.48	2.07	2.96	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0
	25 + 35 + 35 + 35	1.54	2.15	2.15	2.15	4.4	8.0	9.2	890	2160	2830	9.9	9.4	9.0

Indoor	unit			Heatin	ig capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	m heating	capacity	(kW)	Tota	I capacity	(kW)		0			0001/	0.401/
		Α	В	С	D	Min.	Standard	Max.	win.	Standard	wax.	2200	2300	240V
	20	3.0	-	-	-	1.5	3.0	3.7	600	840	1330	3.9	3.7	3.5
	25	3.4	-	-	-	1.5	3.4	4.2	600	1000	1510	4.6	4.4	4.2
1 room	35	4.5	-	-	-	1.5	4.5	5.0	600	1330	1790	6.1	5.8	5.6
100111	50	5.8	-	-	-	1.5	5.8	6.5	600	1780	2310	8.2	7.8	7.5
	60	6.8	-	-	-	1.5	6.8	7.5	600	2100	2660	9.6	9.2	8.8
	20 + 20	2.70	2.70	-	-	2.1	5.4	7.4	630	1340	1870	6.2	5.9	5.6
	20 + 25	2.62	3.28	-	-	2.1	5.9	7.7	630	1530	2130	7.0	6.7	6.4
	20 + 35	2.51	4.39	-	-	2.1	6.9	8.3	630	1910	2650	8.8	8.4	8.0
	20 + 50	2.37	5.93	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
	20 + 60	2.08	6.23	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
	25 + 25	3.20	3.20	-	-	2.1	6.4	8.1	630	1700	2480	7.8	7.5	7.2
	25 + 35	3.08	4.32	-	-	2.1	7.4	8.6	630	2090	2910	9.6	9.2	8.8
room	25 + 50	2.77	5.53	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
100111	25 + 60	2.44	5.86	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
	35 + 35	4.15	4.15	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
	35 + 50	3.42	4.88	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
	35 + 60	3.06	5.24	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
	50 + 50	4.15	4.15	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
5	50 + 60	3.77	4.53	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
	60 + 60	4.15	4.15	-	-	2.1	8.3	8.8	630	2460	3430	11.3	10.8	10.4
	20 + 20 + 20	2.57	2.57	2.57	-	3.2	7.7	9.3	660	1830	3430	8.4	8.0	7.7
	20 + 20 + 25	2.46	2.46	3.08	-	3.2	8.0	9.3	660	1930	3430	8.9	8.5	8.1
	20 + 20 + 35	2.27	2.27	3.97	-	3.2	8.5	9.3	660	2090	3430	9.6	9.2	8.8
	20 + 20 + 50	2.00	2.00	5.00	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	20 + 20 + 60	1.80	1.80	5.40	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	20 + 25 + 25	2.34	2.93	2.93	-	3.2	8.2	9.3	660	1990	3430	9.1	8.7	8.4
	20 + 25 + 35	2.20	2.75	3.85	-	3.2	8.8	9.3	660	2180	3430	10.0	9.6	9.2
	20 + 25 + 50	1.89	2.37	4.74	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	20 + 25 + 60	1.71	2.14	5.14	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	20 + 35 + 35	2.00	3.50	3.50	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	20 + 35 + 50	1.71	3.00	4.29	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	20 + 35 + 60	1.57	2.74	4.70	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	20 + 50 + 50	1.50	3.75	3.75	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
room	20 + 50 + 60	1.38	3.46	4.15	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	25 + 25 + 25	2.83	2.83	2.83	-	3.2	8.5	9.3	660	2090	3430	9.6	9.2	8.8
	25 + 25 + 35	2.65	2.65	3.71	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	25 + 25 + 50	2.25	2.25	4.50	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	25 + 25 + 60	2.05	2.05	4.91	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	25 + 35 + 35	2.37	3.32	3.32	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	25 + 35 + 50	2.05	2.86	4.09	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	25 + 35 + 60	1.88	2.63	4.50	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	25 + 50 + 50	1.80	3.60	3.60	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	25 + 50 + 60	1.67	3.33	4.00	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	35 + 35 + 35	3.00	3.00	3.00	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	35 + 35 + 50	2.63	2.63	3.75	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	35 + 35 + 60	2.42	2.42	4.15	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5
	35 + 50 + 50	2.33	3.33	3.33	-	3.2	9.0	9.3	660	2250	3430	10.3	9.9	9.5

Indoor	unit			Heatin	g capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	n heating	capacity	(kW)	Tota	l capacity	(kW)	Min	Standard	Mox	2201/	2201/	2401/
		Α	В	С	D	Min.	Standard	max.	IVIII.	Stanuaru	wax.	2200	2300	2400
	20 + 20 + 20 + 20	2.28	2.28	2.28	2.28	3.6	9.1	9.8	800	2220	3430	10.2	9.7	9.3
	20 + 20 + 20 + 25	2.14	2.14	2.14	2.68	3.6	9.1	9.8	800	2220	3430	10.2	9.7	9.3
	20 + 20 + 20 + 35	1.94	1.94	1.94	3.39	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
	20 + 20 + 20 + 50	1.67	1.67	1.67	4.18	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
	20 + 20 + 20 + 60	1.55	1.55	1.55	4.65	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	20 + 20 + 25 + 25	2.04	2.04	2.56	2.56	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
	20 + 20 + 25 + 35	1.84	1.84	2.30	3.22	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
	20 + 20 + 25 + 50	1.62	1.62	2.02	4.04	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	20 + 20 + 25 + 60	1.49	1.49	1.86	4.46	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	20 + 20 + 35 + 35	1.67	1.67	2.93	2.93	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
	20 + 20 + 35 + 50	1.49	1.49	2.60	3.72	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	20 + 20 + 35 + 60	1.38	1.38	2.41	4.13	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
4	20 + 25 + 25 + 25	1.94	2.42	2.42	2.42	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
room	20 + 25 + 25 + 35	1.75	2.19	2.19	3.07	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
	20 + 25 + 25 + 50	1.55	1.94	1.94	3.88	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	20 + 25 + 25 + 60	1.43	1.79	1.79	4.29	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	20 + 25 + 35 + 35	1.62	2.02	2.83	2.83	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	20 + 25 + 35 + 50	1.43	1.79	2.50	3.58	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	20 + 35 + 35 + 35	1.49	2.60	2.60	2.60	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	25 + 25 + 25 + 25	2.30	2.30	2.30	2.30	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
	25 + 25 + 25 + 35	2.09	2.09	2.09	2.93	3.6	9.2	9.8	800	2240	3430	10.3	9.8	9.4
	25 + 25 + 25 + 50	1.86	1.86	1.86	3.72	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	25 + 25 + 25 + 60	1.72	1.72	1.72	4.13	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	25 + 25 + 35 + 35	1.94	1.94	2.71	2.71	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	25 + 25 + 35 + 50	1.72	1.72	2.41	3.44	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5
	25 + 35 + 35 + 35	1.79	2.50	2.50	2.50	3.6	9.3	9.8	800	2260	3430	10.4	10.0	9.5

## (b) Indoor unit except SRK\*\*ZJX-S models only

Indoor	unit			Coolir	ig capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	m cooling	capacity	(kW)	Tota	al capacity	(kW)		0			0001/	0.401/
		Α	В	С	D	Min.	Standard	Max.	win.	Standard	Max.	2200	2300	240V
	20	2.0	-	-	-	1.8	2.0	2.7	480	530	950	2.4	2.3	2.2
	25	2.5	-	-	-	1.8	2.5	3.2	480	730	1080	3.4	3.2	3.1
1	35	3.5	-	-	-	1.8	3.5	3.7	480	1120	1240	5.1	4.9	4.7
room	50	5.0	-	-	-	1.8	5.0	5.8	480	1710	2100	7.9	7.5	7.2
	60	6.0	-	-	-	1.8	6.0	6.7	480	2140	2700	9.8	9.4	9.0
	20 + 20	2.00	2.00	-	-	3.0	4.0	5.8	550	930	1910	4.3	4.1	3.9
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.1	550	1170	2060	5.4	5.1	4.9
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.6	550	1590	2320	7.3	7.0	6.7
	20 + 50	1.97	4.93	-	-	3.0	6.9	7.5	550	2200	2830	10.1	9.7	9.3
	20 + 60	1.85	5.55	-	-	3.0	7.4	7.5	550	2430	2830	11.2	10.7	10.2
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.5	550	1360	2270	6.2	6.0	5.7
	25 + 35	2.46	3.44	-	-	3.0	5.9	6.8	550	1780	2470	8.2	7.8	7.5
room	25 + 50	2.47	4.93	-	-	3.0	7.4	7.5	550	2430	2830	11.2	10.7	10.2
100111	25 + 60	2.18	5.22	-	-	3.0	7.4	7.5	550	2430	2830	11.2	10.7	10.2
	35 + 35	3.45	3.45	-	-	3.0	6.9	7.5	550	2200	2680	10.1	9.7	9.3
	35 + 50	3.05	4.35	-	-	3.0	7.4	7.5	550	2430	2830	11.2	10.7	10.2
	35 + 60	2.73	4.67	-	-	3.0	7.4	7.5	550	2430	2830	11.2	10.7	10.2
	50 + 50	3.70	3.70	-	-	3.0	7.4	7.5	550	2430	2830	11.2	10.7	10.2
5	50 + 60	3.36	4.04	-	-	3.0	7.4	7.5	550	2430	2830	11.2	10.7	10.2
	60 + 60	3.70	3.70	-	-	3.0	7.4	7.5	550	2430	2830	11.2	10.7	10.2
2	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	8.1	670	1450	2830	6.7	6.4	6.1
	20 + 20 + 25	2.00	2.00	2.50	-	3.7	6.5	8.1	670	1630	2830	7.5	7.2	6.9
	20 + 20 + 35	1.89	1.89	3.31	-	3.7	7.1	8.1	670	1950	2830	9.0	8.6	8.2
	20 + 20 + 50	1.73	1.73	4.33	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	20 + 20 + 60	1.56	1.56	4.68	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	6.8	8.1	670	1820	2830	8.4	8.0	7.7
	20 + 25 + 35	1.88	2.34	3.28	-	3.7	7.5	8.1	670	2130	2830	9.8	9.4	9.0
	20 + 25 + 50	1.64	2.05	4.11	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	20 + 25 + 60	1.49	1.86	4.46	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	20 + 35 + 35	1.73	3.03	3.03	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	20 + 35 + 50	1.49	2.60	3.71	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	20 + 35 + 60	1.36	2.37	4.07	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
3	20 + 50 + 50	1.30	3.25	3.25	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
room	20 + 50 + 60	1.20	3.00	3.60	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	25 + 25 + 25	2.37	2.37	2.37	-	3.7	7.1	8.1	670	1950	2830	9.0	8.6	8.2
	25 + 25 + 35	2.29	2.29	3.21	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	25 + 25 + 50	1.95	1.95	3.90	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	25 + 25 + 60	1.77	1.77	4.25	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	25 + 35 + 35	2.05	2.87	2.87	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	25 + 35 + 50	1.77	2.48	3.55	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	25 + 35 + 60	1.63	2.28	3.90	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	25 + 50 + 50	1.56	3.12	3.12	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	25 + 50 + 60	1.44	2.89	3.47	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	35 + 35 + 35	2.60	2.60	2.60	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	35 + 35 + 50	2.28	2.28	3.25	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
	35 + 35 + 60	2.10	2.10	3.60	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8
1	35 + 50 + 50	2.02	2.89	2.89	-	3.7	7.8	8.1	670	2320	2830	10.7	10.2	9.8

Indoor	unit			Coolin	ig capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	n cooling	capacity	(kW)	Tota	l capacity	(kW)	Min	Ctondord	Max	2201/	2201/	2401/
		Α	В	С	D	Min.	Standard	Max.	win.	Standard	wax.	2200	2300	240 V
	20 + 20 + 20 + 20	1.95	1.95	1.95	1.95	4.4	7.8	8.7	890	2180	2830	9.9	9.5	9.1
	20 + 20 + 20 + 25	1.84	1.84	1.84	2.29	4.4	7.8	8.7	890	2180	2830	9.9	9.5	9.1
	20 + 20 + 20 + 35	1.66	1.66	1.66	2.91	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	20 + 20 + 20 + 50	1.44	1.44	1.44	3.59	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	20 + 20 + 20 + 60	1.33	1.33	1.33	4.00	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	20 + 20 + 25 + 25	1.76	1.76	2.19	2.19	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	20 + 20 + 25 + 35	1.58	1.58	1.98	2.77	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	20 + 20 + 25 + 50	1.37	1.37	1.72	3.43	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	20 + 20 + 25 + 60	1.28	1.28	1.60	3.84	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
2	20 + 20 + 35 + 35	1.44	1.44	2.51	2.51	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	20 + 20 + 35 + 50	1.28	1.28	2.24	3.20	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	20 + 20 + 35 + 60	1.19	1.19	2.07	3.56	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
4	20 + 25 + 25 + 25	1.66	2.08	2.08	2.08	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
room	20 + 25 + 25 + 35	1.50	1.88	1.88	2.63	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	20 + 25 + 25 + 50	1.33	1.67	1.67	3.33	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	20 + 25 + 25 + 60	1.23	1.54	1.54	3.69	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	20 + 25 + 35 + 35	1.37	1.72	2.40	2.40	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	20 + 25 + 35 + 50	1.23	1.54	2.15	3.08	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	20 + 35 + 35 + 35	1.28	2.24	2.24	2.24	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	25 + 25 + 25 + 25	1.98	1.98	1.98	1.98	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	25 + 25 + 25 + 35	1.80	1.80	1.80	2.51	4.4	7.9	8.7	890	2200	2830	10.0	9.6	9.2
	25 + 25 + 25 + 50	1.60	1.60	1.60	3.20	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	25 + 25 + 25 + 60	1.48	1.48	1.48	3.56	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	25 + 25 + 35 + 35	1.67	1.67	2.33	2.33	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	25 + 25 + 35 + 50	1.48	1.48	2.07	2.96	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3
	25 + 35 + 35 + 35	1.54	2.15	2.15	2.15	4.4	8.0	8.7	890	2220	2830	10.1	9.7	9.3

Indoor	unit			Heatin	ig capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	m heating	capacity	(kW)	Tota	I capacity	(kW)		0			0001/	0.401/
		Α	В	С	D	Min.	Standard	Max.	win.	Standard	wax.	2200	2300	240V
	20	3.0	-	-	-	1.5	3.0	3.5	600	1060	1330	4.9	4.7	4.5
	25	3.4	-	-	-	1.5	3.4	4.0	600	1220	1510	5.6	5.4	5.1
1 room	35	4.5	-	-	-	1.5	4.5	4.8	600	1510	1790	6.9	6.6	6.4
100111	50	5.8	-	-	-	1.5	5.8	6.2	600	1950	2310	9.0	8.6	8.2
	60	6.8	-	-	-	1.5	6.8	7.1	600	2240	2660	10.3	9.8	9.4
	20 + 20	2.70	2.70	-	-	2.1	5.4	7.0	630	1370	1870	6.3	6.0	5.8
	20 + 25	2.62	3.28	-	-	2.1	5.9	7.3	630	1560	2130	7.2	6.9	6.6
	20 + 35	2.51	4.39	-	-	2.1	6.9	7.9	630	1950	2650	9.0	8.6	8.2
	20 + 50	2.37	5.93	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
	20 + 60	2.08	6.23	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
	25 + 25	3.20	3.20	-	-	2.1	6.4	7.7	630	1740	2480	8.0	7.6	7.3
	25 + 35	3.08	4.32	-	-	2.1	7.4	8.2	630	2130	2910	9.8	9.4	9.0
room	25 + 50	2.77	5.53	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
100111	25 + 60	2.44	5.86	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
	35 + 35	4.15	4.15	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
	35 + 50	3.42	4.88	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
	35 + 60	3.06	5.24	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
	50 + 50	4.15	4.15	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
Ę	50 + 60	3.77	4.53	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
	60 + 60	4.15	4.15	-	-	2.1	8.3	8.4	630	2510	3430	11.5	11.0	10.6
	20 + 20 + 20	2.57	2.57	2.57	-	3.2	7.7	9.1	660	1870	3430	8.6	8.2	7.9
	20 + 20 + 25	2.46	2.46	3.08	-	3.2	8.0	9.1	660	1970	3430	9.0	8.7	8.3
	20 + 20 + 35	2.27	2.27	3.97	-	3.2	8.5	9.1	660	2130	3430	9.8	9.4	9.0
	20 + 20 + 50	2.00	2.00	5.00	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	20 + 20 + 60	1.80	1.80	5.40	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	20 + 25 + 25	2.34	2.93	2.93	-	3.2	8.2	9.1	660	2030	3430	9.3	8.9	8.5
	20 + 25 + 35	2.20	2.75	3.85	-	3.2	8.8	9.1	660	2220	3430	10.2	9.7	9.3
	20 + 25 + 50	1.89	2.37	4.74	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	20 + 25 + 60	1.71	2.14	5.14	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	20 + 35 + 35	2.00	3.50	3.50	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	20 + 35 + 50	1.71	3.00	4.29	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	20 + 35 + 60	1.57	2.74	4.70	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	20 + 50 + 50	1.50	3.75	3.75	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
room	20 + 50 + 60	1.38	3.46	4.15	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	25 + 25 + 25	2.83	2.83	2.83	-	3.2	8.5	9.1	660	2130	3430	9.8	9.4	9.0
	25 + 25 + 35	2.65	2.65	3.71	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	25 + 25 + 50	2.25	2.25	4.50	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	25 + 25 + 60	2.05	2.05	4.91	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	25 + 35 + 35	2.37	3.32	3.32	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	25 + 35 + 50	2.05	2.86	4.09	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	25 + 35 + 60	1.88	2.63	4.50	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	25 + 50 + 50	1.80	3.60	3.60	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	25 + 50 + 60	1.67	3.33	4.00	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	35 + 35 + 35	3.00	3.00	3.00	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	35 + 35 + 50	2.63	2.63	3.75	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	35 + 35 + 60	2.42	2.42	4.15	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7
	35 + 50 + 50	2.33	3.33	3.33	-	3.2	9.0	9.1	660	2300	3430	10.6	10.1	9.7

Indoor	unit			Heatin	g capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
combin	ation	Roor	n heating	capacity	(kW)	Tota	l capacity	(kW)	Min	Standard	Мох	2201/	2201/	2401/
		A	В	С	D	Min.	Standard	Max.	IVIII.	Stanuaru	Wax.	2200	2300	2400
	20 + 20 + 20 + 20	2.28	2.28	2.28	2.28	3.6	9.1	9.5	800	2270	3430	10.4	10.0	9.6
	20 + 20 + 20 + 25	2.14	2.14	2.14	2.68	3.6	9.1	9.5	800	2270	3430	10.4	10.0	9.6
	20 + 20 + 20 + 35	1.94	1.94	1.94	3.39	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
	20 + 20 + 20 + 50	1.67	1.67	1.67	4.18	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
	20 + 20 + 20 + 60	1.55	1.55	1.55	4.65	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	20 + 20 + 25 + 25	2.04	2.04	2.56	2.56	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
	20 + 20 + 25 + 35	1.84	1.84	2.30	3.22	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
	20 + 20 + 25 + 50	1.62	1.62	2.02	4.04	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
:	20 + 20 + 25 + 60	1.49	1.49	1.86	4.46	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	20 + 20 + 35 + 35	1.67	1.67	2.93	2.93	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
	20 + 20 + 35 + 50	1.49	1.49	2.60	3.72	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	20 + 20 + 35 + 60	1.38	1.38	2.41	4.13	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
4	20 + 25 + 25 + 25	1.94	2.42	2.42	2.42	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
room	20 + 25 + 25 + 35	1.75	2.19	2.19	3.07	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
	20 + 25 + 25 + 50	1.55	1.94	1.94	3.88	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	20 + 25 + 25 + 60	1.43	1.79	1.79	4.29	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	20 + 25 + 35 + 35	1.62	2.02	2.83	2.83	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	20 + 25 + 35 + 50	1.43	1.79	2.50	3.58	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	20 + 35 + 35 + 35	1.49	2.60	2.60	2.60	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	25 + 25 + 25 + 25	2.30	2.30	2.30	2.30	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
	25 + 25 + 25 + 35	2.09	2.09	2.09	2.93	3.6	9.2	9.5	800	2290	3430	10.5	10.1	9.6
	25 + 25 + 25 + 50	1.86	1.86	1.86	3.72	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	25 + 25 + 25 + 60	1.72	1.72	1.72	4.13	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	25 + 25 + 35 + 35	1.94	1.94	2.71	2.71	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	25 + 25 + 35 + 50	1.72	1.72	2.41	3.44	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8
	25 + 35 + 35 + 35	1.79	2.50	2.50	2.50	3.6	9.3	9.5	800	2310	3430	10.7	10.2	9.8

# (7) Model SCM100ZJ-S1(a) Indoor unit SRK\*\*ZJX-S models only

Indoor	unit				Coolin	g capaci	ity (kW)				Power	consump	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)	Min	Ctondord	Max	2201/	2201/	2401/
		Α	В	С	D	Е	F	Min.	Standard	Max.	win.	Standard	wax.	2200	2300	240V
	20	2.0	-	-	-	-	-	1.8	2.0	2.8	650	750	1100	3.4	3.3	3.2
	25	2.5	-	-	-	-	-	1.8	2.5	3.4	650	950	1350	4.4	4.2	4.0
1	35	3.5	-	-	-	-	-	1.8	3.5	3.9	650	1400	1600	6.4	6.1	5.9
room	50	5.0	-	-	-	-	-	1.8	5.0	6.1	650	2000	2500	9.2	8.8	8.4
	60	6.0	-	-	-	-	-	1.8	6.0	7.0	650	2450	3000	11.2	10.8	10.3
	20 + 20	2.00	2.00	-	-	-	-	3.0	4.0	5.6	740	910	1460	4.2	4.0	3.8
	20 + 25	2.00	2.50	-	-	-	-	3.0	4.5	6.2	740	1050	1820	4.8	4.6	4.4
	20 + 35	2.00	3.50	-	-	-	-	3.0	5.5	6.7	740	1430	2020	6.6	6.3	6.0
	20 + 50	2.00	5.00	-	-	-	-	3.0	7.0	8.9	740	2180	2820	10.0	9.6	9.2
	20 + 60	2.00	6.00	-	-	-	-	3.0	8.0	9.8	740	2530	3360	11.6	11.1	10.6
	25 + 25	2.50	2.50	-	-	-	-	3.0	5.0	6.8	740	1350	2200	6.2	5.9	5.7
	25 + 35	2.50	3.50	-	-	-	-	3.0	6.0	7.3	740	1720	2320	7.9	7.6	7.2
2 room	25 + 50	2.50	5.00	-	-	-	-	3.0	7.5	9.5	740	2350	3220	10.8	10.3	9.9
100111	25 + 60	2.50	6.00	-	-	-	-	3.0	8.5	9.8	740	2680	3360	12.3	11.8	11.3
	35 + 35	3.50	3.50	-	-	-	-	3.0	7.0	7.8	740	2180	2820	10.0	9.6	9.2
	35 + 50	3.50	5.00	-	-	-	-	3.0	8.5	10.0	740	2680	3620	12.3	11.8	11.3
	35 + 60	3.50	6.00	-	-	-	-	3.0	9.5	10.9	740	3120	3990	14.3	13.7	13.1
	50 + 50	5.00	5.00	-	-	-	-	3.0	10.0	12.0	740	3350	4400	15.4	14.7	14.1
	50 + 60	4.55	5.45	-	-	-	-	3.0	10.0	12.0	740	3350	4400	15.4	14.7	14.1
	60 + 60	5.00	5.00	-	-	-	-	3.0	10.0	12.0	740	3340	4400	15.3	14.7	14.1
	20 + 20 + 20	2.00	2.00	2.00	-	-	-	3.7	6.0	8.4	880	1460	2560	6.7	6.4	6.1
	20 + 20 + 25	2.00	2.00	2.50	-	-	-	3.7	6.5	9.0	880	1650	2700	7.6	7.2	6.9
	20 + 20 + 35	2.00	2.00	3.50	-	-	-	3.7	7.5	9.5	880	1980	3120	9.1	8.7	8.3
	20 + 20 + 50	2.00	2.00	5.00	-	-	-	3.7	9.0	11.7	880	2600	4120	11.9	11.4	10.9
	20 + 20 + 60	2.00	2.00	6.00	-	-	-	3.7	10.0	12.0	880	3120	4250	14.3	13.7	13.1
	20 + 25 + 25	2.00	2.50	2.50	-	-	-	3.7	7.0	9.6	880	1850	3210	8.5	8.1	7.8
	20 + 25 + 35	2.00	2.50	3.50	-	-	-	3.7	8.0	10.1	880	2320	3630	10.7	10.2	9.8
	20 + 25 + 50	2.00	2.50	5.00	-	-	-	3.7	9.5	12.0	880	2980	4250	13.7	13.1	12.5
	20 + 25 + 60	1.90	2.38	5.71	-	-	-	3.7	10.0	12.0	880	3120	4250	14.3	13.7	13.1
	20 + 35 + 35	2.00	3.50	3.50	-	-	-	3.7	9.0	10.6	880	2780	3750	12.8	12.2	11.7
	20 + 35 + 50	1.90	3.33	4.76	-	-	-	3.7	10.0	12.0	880	3120	4250	14.3	13.7	13.1
	20 + 35 + 60	1.74	3.04	5.22	-	-	-	3.7	10.0	12.0	880	3110	4250	14.3	13.7	13.1
	20 + 50 + 50	1.67	4.17	4.17	-	-	-	3.7	10.0	12.0	880	3110	4250	14.3	13.7	13.1
	20 + 50 + 60	1.54	3.85	4.62	-	-	-	3.7	10.0	12.0	880	3110	4250	14.3	13.7	13.1
	20 + 60 + 60	1.43	4.29	4.29	-	-	-	3.7	10.0	12.0	880	3100	4250	14.2	13.6	13.0
	25 + 25 + 25	2.50	2.50	2.50	-	-	-	3.7	7.5	10.2	880	2030	3640	9.3	8.9	8.5
room	25 + 25 + 35	2.50	2.50	3.50	-	-	-	3.7	8.5	10.7	880	2520	3900	11.6	11.1	10.6
	25 + 25 + 50	2.50	2.50	5.00	-	-	-	3.7	10.0	12.0	880	3120	4250	14.3	13.7	13.1
	25 + 25 + 60	2.27	2.27	5.45	-	-	-	3.7	10.0	12.0	880	3120	4250	14.3	13.7	13.1
	25 + 35 + 35	2.50	3.50	3.50	-	-	-	3.7	9.5	11.2	880	2980	3990	13.7	13.1	12.5
	25 + 35 + 50	2.27	3.18	4.55	-	-	-	3.7	10.0	12.0	880	3120	4250	14.3	13.7	13.1
	25 + 35 + 60	2.08	2.92	5.00	-	-	-	3.7	10.0	12.0	880	3110	4250	14.3	13.7	13.1
	25 + 50 + 50	2.00	4.00	4.00	-	-	-	3.7	10.0	12.0	880	3110	4250	14.3	13.7	13.1
	25 + 50 + 60	1.85	3.70	4.44	-	-	-	3.7	10.0	12.0	880	3100	4250	14.2	13.6	13.0
	25 + 60 + 60	1.72	4.14	4.14	-	-	-	3.7	10.0	12.0	880	3100	4250	14.2	13.6	13.0
	35 + 35 + 35	3.33	3.33	3.33	-	-	-	3.7	10.0	11.7	880	3120	4180	14.3	13.7	13.1
	35 + 35 + 50	2.92	2.92	4.17	-	-	-	3.7	10.0	12.0	880	3110	4250	14.3	13.7	13.1
	35 + 35 + 60	2.69	2.69	4.62	-	-	-	3.7	10.0	12.0	880	3110	4250	14.3	13.7	13.1
	35 + 50 + 50	2.59	3.70	3.70	-	-	-	3.7	10.0	12.0	880	3100	4250	14.2	13.6	13.0
	35 + 50 + 60	2.41	3.45	4.14	-	-	-	3.7	10.0	12.0	880	3100	4251	14.2	13.6	13.0
	35 + 60 + 60	2.26	3.87	3.87	-	-	-	3.7	10.0	12.0	880	3090	4251	14.2	13.6	13.0
	50 + 50 + 50	3.33	3.33	3.33	-	-	-	3.7	10.0	12.0	880	3100	4250	14.2	13.6	13.0
	50 + 50 + 60	3.13	3.13	3.75	-	-	-	3.7	10.0	12.0	880	3090	4250	14.2	13.6	13.0

Indoor	unit				Cooling	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	D	E	F	Min.	Standard	Max.						
	20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	-	-	4.4	8.0	11.2	1100	2050	3680	9.3	8.9	8.6
	20 + 20 + 20 + 25	2.00	2.00	2.00	2.50	-	-	4.4	8.5	11.8	1100	2320	3890	10.6	10.1	9.7
	20 + 20 + 20 + 35	2.00	2.00	2.00	3.50	-	-	4.4	9.5	12.0	1100	2820	4050	12.8	12.3	11.8
	20 + 20 + 20 + 50	1.82	1.82	1.82	4.55	-	-	4.4	10.0	12.0	1100	3020	4050	13.7	13.1	12.6
	20 + 20 + 20 + 60	1.67	1.67	1.67	5.00	-	-	4.4	10.0	12.0	1100	3020	4050	13.7	13.1	12.6
	20 + 20 + 25 + 25	2.00	2.00	2.50	2.50	-	-	4.4	9.0	12.0	1100	2520	4050	11.5	11.0	10.5
	20 + 20 + 25 + 35	2.00	2.00	2.50	3.50	-	-	4.4	10.0	12.0	1100	3030	4050	13.8	13.2	12.6
	20 + 20 + 25 + 50	1.74	1.74	2.17	4.35	-	-	4.4	10.0	12.0	1100	3020	4050	13.7	13.1	12.6
	20 + 20 + 25 + 60	1.60	1.60	2.00	4.80	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	20 + 20 + 35 + 35	1.82	1.82	3.18	3.18	-	-	4.4	10.0	12.0	1100	3020	4050	13.7	13.1	12.6
	20 + 20 + 35 + 50	1.60	1.60	2.80	4.00	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	20 + 20 + 35 + 60	1.48	1.48	2.59	4.44	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	20 + 20 + 50 + 50	1.43	1.43	3.57	3.57	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	20 + 20 + 50 + 60	1.33	1.33	3.33	4.00	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	20 + 20 + 60 + 60	1.25	1.25	3.75	3.75	-	-	4.4	10.0	12.0	1100	2990	4050	13.6	13.0	12.5
	20 + 25 + 25 + 25	2.00	2.50	2.50	2.50	-	-	4.4	9.5	12.0	1100	2820	4050	12.8	12.3	11.8
	20 + 25 + 25 + 35	1.90	2.38	2.38	3.33	-	-	4.4	10.0	12.0	1100	3030	4050	13.8	13.2	12.6
	20 + 25 + 25 + 50	1.67	2.08	2.08	4.17	-	-	4.4	10.0	12.0	1100	3020	4050	13.7	13.1	12.6
	20 + 25 + 25 + 60	1.54	1.92	1.92	4.62	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	20 + 25 + 35 + 35	1.74	2.17	3.04	3.04	-	-	4.4	10.0	12.0	1100	3020	4050	13.7	13.1	12.6
	20 + 25 + 35 + 50	1.54	1.92	2.69	3.85	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
4	20 + 25 + 35 + 60	1.43	1.79	2.50	4.29	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
room	20 + 25 + 50 + 50	1.38	1.72	3.45	3.45	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	20 + 25 + 50 + 60	1.29	1.61	3.23	3.87	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	20 + 25 + 60 + 60	1.21	1.52	3.64	3.64	-	-	4.4	10.0	12.0	1100	2990	4050	13.6	13.0	12.5
	20 + 35 + 35 + 35	1.60	2.80	2.80	2.80	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	20 + 35 + 35 + 50	1.43	2.50	2.50	3.57	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	20 + 35 + 35 + 60	1.33	2.33	2.33	4.00	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	20 + 35 + 50 + 50	1.29	2.26	3.23	3.23	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	25 + 25 + 25 + 25	2.50	2.50	2.50	2.50	-	-	4.4	10.0	12.0	1100	3030	4050	13.8	13.2	12.6
	25 + 25 + 25 + 35	2.27	2.27	2.27	3.18	-	-	4.4	10.0	12.0	1100	3020	4050	13.7	13.1	12.6
	25 + 25 + 25 + 50	2.00	2.00	2.00	4.00	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	25 + 25 + 25 + 60	1.85	1.85	1.85	4.44	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	25 + 25 + 35 + 35	2.08	2.08	2.92	2.92	-	-	4.4	10.0	12.0	1100	3020	4050	13.7	13.1	12.6
	25 + 25 + 35 + 50	1.85	1.85	2.59	3.70	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	25 + 25 + 35 + 60	1.72	1.72	2.41	4.14	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	25 + 25 + 50 + 50	1.67	1.67	3.33	3.33	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	25 + 25 + 50 + 60	1.56	1.56	3.13	3.75	-	-	4.4	10.0	12.0	1100	2990	4050	13.6	13.0	12.5
	25 + 35 + 35 + 35	1.92	2.69	2.69	2.69	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	25 + 35 + 35 + 50	1.72	2.41	2.41	3.45	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	25 + 35 + 35 + 60	1.61	2.26	2.26	3.87	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5
	25 + 35 + 50 + 50	1.56	2.19	3.13	3.13	-	-	4.4	10.0	12.0	1100	2990	4050	13.6	13.0	12.5
	35 + 35 + 35 + 35	2.50	2.50	2.50	2.50	-	-	4.4	10.0	12.0	1100	3010	4050	13.7	13.1	12.6
	35 + 35 + 35 + 50	2.26	2.26	2.26	3.23	-	-	4.4	10.0	12.0	1100	3000	4050	13.7	13.1	12.5

Indoor	unit				Cooling	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)		0		0001/	0001/	0.001
		Α	В	С	D	Е	F	Min.	Standard	Max.	Min.	Standard	wax.	2200	2300	2400
	20 + 20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	2.00	-	5.1	10.0	12.0	1210	2860	4030	13.0	12.4	11.9
	20 + 20 + 20 + 20 + 25	1.90	1.90	1.90	1.90	2.38	-	5.1	10.0	12.0	1210	2860	4030	13.0	12.4	11.9
	20 + 20 + 20 + 20 + 35	1.74	1.74	1.74	1.74	3.04	-	5.1	10.0	12.0	1210	2850	4030	13.0	12.4	11.9
	20 + 20 + 20 + 20 + 50	1.54	1.54	1.54	1.54	3.85	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 20 + 20 + 60	1.43	1.43	1.43	1.43	4.29	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 20 + 25 + 25	1.82	1.82	1.82	2.27	2.27	-	5.1	10.0	12.0	1210	2860	4030	13.0	12.4	11.9
	20 + 20 + 20 + 25 + 35	1.67	1.67	1.67	2.08	2.92	-	5.1	10.0	12.0	1210	2850	4030	13.0	12.4	11.9
	20 + 20 + 20 + 25 + 50	1.48	1.48	1.48	1.85	3.70	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 20 + 25 + 60	1.38	1.38	1.38	1.72	4.14	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 20 + 35 + 35	1.54	1.54	1.54	2.69	2.69	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 20 + 35 + 50	1.38	1.38	1.38	2.41	3.45	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 20 + 35 + 60	1.29	1.29	1.29	2.26	3.87	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	20 + 20 + 20 + 50 + 50	1.25	1.25	1.25	3.13	3.13	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	20 + 20 + 25 + 25 + 25	1.74	1.74	2.17	2.17	2.17	-	5.1	10.0	12.0	1210	2850	4030	13.0	12.4	11.9
	20 + 20 + 25 + 25 + 35	1.60	1.60	2.00	2.00	2.80	-	5.1	10.0	12.0	1210	2850	4030	13.0	12.4	11.9
	20 + 20 + 25 + 25 + 50	1.43	1.43	1.79	1.79	3.57	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 25 + 25 + 60	1.33	1.33	1.67	1.67	4.00	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
_	20 + 20 + 25 + 35 + 35	1.48	1.48	1.85	2.59	2.59	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
5 room	20 + 20 + 25 + 35 + 50	1.33	1.33	1.67	2.33	3.33	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 25 + 35 + 60	1.25	1.25	1.56	2.19	3.75	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	20 + 20 + 35 + 35 + 35	1.38	1.38	2.41	2.41	2.41	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 20 + 35 + 35 + 50	1.25	1.25	2.19	2.19	3.13	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	20 + 25 + 25 + 25 + 25	1.67	2.08	2.08	2.08	2.08	-	5.1	10.0	12.0	1210	2850	4030	13.0	12.4	11.9
	20 + 25 + 25 + 25 + 35	1.54	1.92	1.92	1.92	2.69	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 25 + 25 + 25 + 50	1.38	1.72	1.72	1.72	3.45	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 25 + 25 + 25 + 60	1.29	1.61	1.61	1.61	3.87	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	20 + 25 + 25 + 35 + 35	1.43	1.79	1.79	2.50	2.50	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 25 + 25 + 35 + 50	1.29	1.61	1.61	2.26	3.23	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	20 + 25 + 35 + 35 + 35	1.33	1.67	2.33	2.33	2.33	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	20 + 35 + 35 + 35 + 35	1.25	2.19	2.19	2.19	2.19	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	25 + 25 + 25 + 25 + 25	2.00	2.00	2.00	2.00	2.00	-	5.1	10.0	12.0	1210	2850	4030	13.0	12.4	11.9
	25 + 25 + 25 + 25 + 35	1.85	1.85	1.85	1.85	2.59	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	25 + 25 + 25 + 25 + 50	1.67	1.67	1.67	1.67	3.33	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	25 + 25 + 25 + 25 + 60	1.56	1.56	1.56	1.56	3.75	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	25 + 25 + 25 + 35 + 35	1.72	1.72	1.72	2.41	2.41	-	5.1	10.0	12.0	1210	2840	4030	12.9	12.4	11.8
	25 + 25 + 25 + 35 + 50	1.56	1.56	1.56	2.19	3.13	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8
	25 + 25 + 35 + 35 + 35	1.61	1.61	2.26	2.26	2.26	-	5.1	10.0	12.0	1210	2830	4030	12.9	12.3	11.8

Indoor	unit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)						
		Α	В	С	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	2200	230V	240V
	20	3.0	-	-	-	-	-	1.5	3.0	3.7	700	1010	1330	4.6	4.4	4.3
	25	3.4	-	-	-	-	-	1.5	3.4	4.2	700	1150	1540	5.3	5.1	4.8
1 room	35	4.5	-	-	-	-	-	1.5	4.5	5.0	700	1540	1840	7.1	6.8	6.5
100111	50	5.8	-	-	-	-	-	1.5	5.8	6.5	700	2000	2410	9.2	8.8	8.4
	60	6.8	-	-	-	-	-	1.5	6.8	7.5	700	2360	2760	10.8	10.4	9.9
	20 + 20	3.00	3.00	-	-	-	-	2.1	6.0	7.4	750	1510	1460	6.9	6.6	6.4
	20 + 25	2.84	3.56	-	-	-	-	2.1	6.4	7.9	750	1630	2210	7.5	7.2	6.9
	20 + 35	2.73	4.77	-	-	-	-	2.1	7.5	8.7	750	1950	2520	9.0	8.6	8.2
	20 + 50	2.51	6.29	-	-	-	-	2.1	8.8	10.2	750	2380	3220	10.9	10.5	10.0
	20 + 60	2.45	7.35	-	-	-	-	2.1	9.8	11.2	750	2780	3620	12.8	12.2	11.7
	25 + 25	3.40	3.40	-	-	-	-	2.1	6.8	8.4	750	1740	2420	8.0	7.6	7.3
	25 + 35	3.29	4.61	-	-	-	-	2.1	7.9	9.2	750	2100	2820	9.6	9.2	8.8
room	25 + 50	3.07	6.13	-	-	-	-	2.1	9.2	10.7	750	2580	3610	11.8	11.3	10.9
	25 + 60	3.00	7.20	-	-	-	-	2.1	10.2	11.7	750	2980	3790	13.7	13.1	12.5
	35 + 35	4.50	4.50	-	-	-	-	2.1	9.0	10.0	750	2470	3210	11.3	10.8	10.4
	35 + 50	4.24	6.06	-	-	-	-	2.1	10.3	11.5	750	2980	3710	13.7	13.1	12.5
	35 + 60	4.16	7.14	-	-	-	-	2.1	11.3	12.5	750	3430	4100	15.7	15.1	14.4
	50 + 50	5.80	5.80	-	-	-	-	2.1	11.6	13.0	750	3580	4320	16.4	15.7	15.1
	50 + 60	5.45	6.55	-	-	-	-	2.1	12.0	13.5	750	3720	4520	17.1	16.3	15.7
	60 + 60	6.00	6.00	-	-	-	-	2.1	12.0	13.5	750	3720	4520	17.1	16.3	15.7
	20 + 20 + 20	3.00	3.00	3.00	-	-	-	3.2	9.0	11.1	780	2230	3350	10.2	9.8	9.4
	20 + 20 + 25	2.89	2.89	3.62	-	-	-	3.2	9.4	11.6	780	2350	3550	10.8	10.3	9.9
	20 + 20 + 35	2.80	2.80	4.90	-	-	-	3.2	10.5	12.4	780	2710	3820	12.4	11.9	11.4
	20 + 20 + 50	2.62	2.62	6.56	-	-	-	3.2	11.8	13.5	780	3210	4190	14.7	14.1	13.5
	20 + 20 + 60	2.40	2.40	7.20	-	-	-	3.2	12.0	13.5	780	3350	4190	15.4	14.7	14.1
	20 + 25 + 25	2.80	3.50	3.50	-	-	-	3.2	9.8	12.1	780	2510	3720	11.5	11.0	10.6
	20 + 25 + 35	2.73	3.41	4.77	-	-	-	3.2	10.9	12.9	780	2910	3990	13.4	12.8	12.2
	20 + 25 + 50	2.53	3.16	6.32	-	-	-	3.2	12.0	13.5	780	3350	4190	15.4	14.7	14.1
	20 + 25 + 60	2.29	2.86	6.86	-	-	-	3.2	12.0	13.5	780	3350	4190	15.4	14.7	14.1
	20 + 35 + 35	2.67	4.67	4.67	-	-	-	3.2	12.0	13.5	780	3360	4190	15.4	14.8	14.1
	20 + 35 + 50	2.29	4.00	5.71	-	-	-	3.2	12.0	13.5	780	3350	4190	15.4	14.7	14.1
	20 + 35 + 60	2.09	3.65	6.26	-	-	-	3.2	12.0	13.5	780	3340	4190	15.3	14.7	14.1
	20 + 50 + 50	2.00	5.00	5.00	-	-	-	3.2	12.0	13.5	780	3340	4190	15.3	14.7	14.1
	20 + 50 + 60	1.65	4.02	5.54	-	-	-	3.2	12.0	10.5	780	3340	4190	15.3	14.7	14.1
	20 + 00 + 00	2.40	2.40	2.40	-	-	-	3.2	10.0	10.0	700	3330	2000	10.4	14.0	14.0
3	25 + 25 + 25	3.40	3.40	3.40	-	-	-	3.2	11.2	12.0	780	2110	4120	14.2	12.7	10.4
room	25 + 25 + 50	3.32	3.32	4.00	-	-	-	3.2	12.0	12.5	780	3350	4120	14.3	14.7	14.1
	$25 \pm 25 \pm 60$	2.73	2.73	6.55	-		-	3.2	12.0	13.5	780	3350	4190	15.4	14.7	14.1
	25 + 25 + 35	3.16	4.42	4.42	-	-	-	3.2	12.0	13.5	780	3350	4190	15.4	14.7	14.1
	$25 \pm 35 \pm 50$	2.73	3.82	5.45	_			3.2	12.0	13.5	780	3350	4190	15.4	14.7	14.1
	25 + 35 + 60	2.70	3.50	6.00	_	_	_	3.2	12.0	13.5	780	3340	4190	15.3	14.7	14.1
	25 + 50 + 50	2.00	4.80	4.80	-	-	_	3.2	12.0	13.5	780	3340	4190	15.3	14.7	14.1
	25 + 50 + 60	2.70	4.00	5.33	-	-	-	3.2	12.0	13.5	780	3330	4190	15.3	14.7	14.1
	25 + 60 + 60	2 07	4.97	4.97	-	-	-	3.2	12.0	13.5	780	3330	4190	15.3	14.6	14.0
	35 + 35 + 35	4 00	4 00	4 00	-	-	-	32	12.0	13.5	780	3350	4190	15.4	14 7	14.1
	35 + 35 + 50	3.50	3.50	5.00	-	-	-	3.2	12.0	13.5	780	3340	4190	15.3	14.7	14.1
	35 + 35 + 60	3.23	3.23	5.54	-	-	-	3.2	12.0	13.5	780	3340	4190	15.3	14.7	14.1
	35 + 50 + 50	3.11	4.44	4.44	-	-	-	3.2	12.0	13.5	780	3330	4190	15.3	14.6	14.0
	35 + 50 + 60	2.90	4.14	4.97	-	-	-	3.2	12.0	13.5	780	3330	4190	15.3	14.6	14.0
	35 + 60 + 60	2.71	4.65	4.65	-	-	-	3.2	12.0	13.5	780	3320	4190	15.2	14.6	14.0
	50 + 50 + 50	4.00	4.00	4.00	-	-	-	3.2	12.0	13.5	780	3330	4190	15.3	14.6	14.0
	50 + 50 + 60	3 75	3 75	4 50	-	-	-	3.2	12.0	13.5	780	3320	4190	15.2	14.6	14.0

Indoor	unit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curre	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)	Min	Chandard	Max	2201/	2201/	2401/
		Α	В	С	D	Е	F	Min.	Standard	Max.	Min.	Standard	wax.	2200	2300	240 V
	20 + 20 + 20 + 20	3.00	3.00	3.00	3.00	-	-	3.6	12.0	13.5	950	3230	3840	14.7	14.1	13.5
	20 + 20 + 20 + 25	2.82	2.82	2.82	3.53	-	-	3.6	12.0	13.5	950	3230	3840	14.7	14.1	13.5
	20 + 20 + 20 + 35	2.53	2.53	2.53	4.42	-	-	3.6	12.0	13.5	950	3230	3840	14.7	14.1	13.5
	20 + 20 + 20 + 50	2.18	2.18	2.18	5.45	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	20 + 20 + 20 + 60	2.00	2.00	2.00	6.00	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	20 + 20 + 25 + 25	2.67	2.67	3.33	3.33	-	-	3.6	12.0	13.5	950	3230	3840	14.7	14.1	13.5
	20 + 20 + 25 + 35	2.40	2.40	3.00	4.20	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	20 + 20 + 25 + 50	2.09	2.09	2.61	5.22	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	20 + 20 + 25 + 60	1.92	1.92	2.40	5.76	-	-	3.6	12.0	13.5	950	3340	3840	15.2	14.5	13.9
	20 + 20 + 35 + 35	2.18	2.18	3.82	3.82	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	20 + 20 + 35 + 50	1.92	1.92	3.36	4.80	-	-	3.6	12.0	13.5	950	3340	3840	15.2	14.5	13.9
	20 + 20 + 35 + 60	1.78	1.78	3.11	5.33	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	20 + 20 + 50 + 50	1.71	1.71	4.29	4.29	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	20 + 20 + 50 + 60	1.60	1.60	4.00	4.80	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	20 + 20 + 60 + 60	1.50	1.50	4.50	4.50	-	-	3.6	12.0	13.5	950	3200	3840	14.6	13.9	13.3
	20 + 25 + 25 + 25	2.53	3.16	3.16	3.16	-	-	3.6	12.0	13.5	950	3230	3840	14.7	14.1	13.5
	20 + 25 + 25 + 35	2.29	2.86	2.86	4.00	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	20 + 25 + 25 + 50	2.00	2.50	2.50	5.00	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	20 + 25 + 25 + 60	1.85	2.31	2.31	5.54	-	-	3.6	12.0	13.5	950	3340	3840	15.2	14.5	13.9
	20 + 25 + 35 + 35	2.09	2.61	3.65	3.65	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	20 + 25 + 35 + 50	1.85	2.31	3.23	4.62	-	-	3.6	12.0	13.5	950	3340	3840	15.2	14.5	13.9
room	20 + 25 + 35 + 60	1.71	2.14	3.00	5.14	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	20 + 25 + 50 + 50	1.66	2.07	4.14	4.14	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	20 + 25 + 50 + 60	1.55	1.94	3.87	4.65	-	-	3.6	12.0	13.5	950	3200	3840	14.6	13.9	13.3
	20 + 35 + 35 + 35	1.92	3.36	3.36	3.36	-	-	3.6	12.0	13.5	950	3340	3840	15.2	14.5	13.9
	20 + 35 + 35 + 50	1.71	3.00	3.00	4.29	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	20 + 35 + 35 + 60	1.60	2.80	2.80	4.80	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	20 + 35 + 50 + 50	1.55	2.71	3.87	3.87	-	-	3.6	12.0	13.5	950	3200	3840	14.6	13.9	13.3
	25 + 25 + 25 + 25	3.00	3.00	3.00	3.00	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	25 + 25 + 25 + 35	2.73	2.73	2.73	3.82	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	25 + 25 + 25 + 50	2.40	2.40	2.40	4.80	-	-	3.6	12.0	13.5	950	3340	3840	15.2	14.5	13.9
	25 + 25 + 25 + 60	2.22	2.22	2.22	5.33	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	25 + 25 + 35 + 35	2.50	2.50	3.50	3.50	-	-	3.6	12.0	13.5	950	3220	3840	14.7	14.0	13.4
	25 + 25 + 35 + 50	2.22	2.22	3.11	4.44	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	25 + 25 + 35 + 60	2.07	2.07	2.90	4.97	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	25 + 25 + 50 + 50	2.00	2.00	4.00	4.00	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	25 + 25 + 50 + 60	1.88	1.88	3.75	4.50	-	-	3.6	12.0	13.5	950	3200	3840	14.6	13.9	13.3
	25 + 35 + 35 + 35	2.31	3.23	3.23	3.23	-	-	3.6	12.0	13.5	950	3340	3840	15.2	14.5	13.9
	25 + 35 + 35 + 50	2.07	2.90	2.90	4.14	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	25 + 35 + 35 + 60	1.94	2.71	2.71	4.65	-	-	3.6	12.0	13.5	950	3200	3840	14.6	13.9	13.3
	25 + 35 + 50 + 50	1.88	2.63	3.75	3.75	-	-	3.6	12.0	13.5	950	3200	3840	14.6	13.9	13.3
	35 + 35 + 35 + 35	3.00	3.00	3.00	3.00	-	-	3.6	12.0	13.5	950	3210	3840	14.6	14.0	13.4
	35 + 35 + 35 + 50	2.71	2.71	2.71	3.87	-	-	3.6	12.0	13.5	950	3200	3840	14.6	13.9	13.3

Indoor	unit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)	Min	Ohensdeud	Max	0001/	0001/	0401/
		Α	В	С	D	Е	F	Min.	Standard	Max.	i Min.	Standard	wax.	2200	2300	2400
	20 + 20 + 20 + 20 + 20	2.40	2.40	2.40	2.40	2.40	-	4.0	12.0	13.5	1050	2930	3400	13.3	12.8	12.2
	20 + 20 + 20 + 20 + 25	2.29	2.29	2.29	2.29	2.86	-	4.0	12.0	13.5	1050	2920	3400	13.3	12.7	12.2
	20 + 20 + 20 + 20 + 35	2.09	2.09	2.09	2.09	3.65	-	4.0	12.0	13.5	1050	2920	3400	13.3	12.7	12.2
	20 + 20 + 20 + 20 + 50	1.85	1.85	1.85	1.85	4.62	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 20 + 20 + 60	1.71	1.71	1.71	1.71	5.14	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 20 + 25 + 25	2.18	2.18	2.18	2.73	2.73	-	4.0	12.0	13.5	1050	2920	3400	13.3	12.7	12.2
	20 + 20 + 20 + 25 + 35	2.00	2.00	2.00	2.50	3.50	-	4.0	12.0	13.5	1050	2920	3400	13.3	12.7	12.2
	20 + 20 + 20 + 25 + 50	1.78	1.78	1.78	2.22	4.44	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 20 + 25 + 60	1.66	1.66	1.66	2.07	4.97	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 20 + 35 + 35	1.85	1.85	1.85	3.23	3.23	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 20 + 35 + 50	1.66	1.66	1.66	2.90	4.14	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 20 + 35 + 60	1.55	1.55	1.55	2.71	4.65	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	20 + 20 + 20 + 50 + 50	1.50	1.50	1.50	3.75	3.75	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	20 + 20 + 25 + 25 + 25	2.09	2.09	2.61	2.61	2.61	-	4.0	12.0	13.5	1050	2920	3400	13.3	12.7	12.2
	20 + 20 + 25 + 25 + 35	1.92	1.92	2.40	2.40	3.36	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 25 + 25 + 50	1.71	1.71	2.14	2.14	4.29	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 25 + 25 + 60	1.60	1.60	2.00	2.00	4.80	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
_	20 + 20 + 25 + 35 + 35	1.78	1.78	2.22	3.11	3.11	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
room	20 + 20 + 25 + 35 + 50	1.60	1.60	2.00	2.80	4.00	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 25 + 35 + 60	1.50	1.50	1.88	2.63	4.50	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	20 + 20 + 35 + 35 + 35	1.66	1.66	2.90	2.90	2.90	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 20 + 35 + 35 + 50	1.50	1.50	2.63	2.63	3.75	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	20 + 25 + 25 + 25 + 25	2.00	2.50	2.50	2.50	2.50	-	4.0	12.0	13.5	1050	2920	3400	13.3	12.7	12.2
	20 + 25 + 25 + 25 + 35	1.85	2.31	2.31	2.31	3.23	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 25 + 25 + 25 + 50	1.66	2.07	2.07	2.07	4.14	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 25 + 25 + 25 + 60	1.55	1.94	1.94	1.94	4.65	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	20 + 25 + 25 + 35 + 35	1.71	2.14	2.14	3.00	3.00	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 25 + 25 + 35 + 50	1.55	1.94	1.94	2.71	3.87	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	20 + 25 + 35 + 35 + 35	1.60	2.00	2.80	2.80	2.80	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	20 + 35 + 35 + 35 + 35	1.50	2.63	2.63	2.63	2.63	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	25 + 25 + 25 + 25 + 25	2.40	2.40	2.40	2.40	2.40	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	25 + 25 + 25 + 25 + 35	2.22	2.22	2.22	2.22	3.11	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	25 + 25 + 25 + 25 + 50	2.00	2.00	2.00	2.00	4.00	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	25 + 25 + 25 + 25 + 60	1.88	1.88	1.88	1.88	4.50	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	25 + 25 + 25 + 35 + 35	2.07	2.07	2.07	2.90	2.90	-	4.0	12.0	13.5	1050	2910	3400	13.2	12.7	12.1
	25 + 25 + 25 + 35 + 50	1.88	1.88	1.88	2.63	3.75	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1
	25 + 25 + 35 + 35 + 35	1.94	1.94	2.71	2.71	2.71	-	4.0	12.0	13.5	1050	2900	3400	13.2	12.6	12.1

## (b) Indoor unit except SRK\*\*ZJX-S models only

Indoor	unit				Cooling	g capaci	ty (kW)				Power	consump	tion (W)	Stand	ard curr	ent (A)
Indoor unit combination 20 29 1 30 room 50	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)						
		Α	В	С	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	2200	2300	240V
	20	2.0	-	-	-	-	-	1.8	2.0	2.7	650	780	1100	3.6	3.4	3.3
	25	2.5	-	-	-	-	-	1.8	2.5	3.2	650	1000	1350	4.6	4.4	4.2
1	35	3.5	-	-	-	-	-	1.8	3.5	3.7	650	1500	1600	6.9	6.6	6.3
room	50	5.0	-	-	-	-	-	1.8	5.0	5.8	650	2150	2500	9.9	9.4	9.0
	60	6.0	-	-	-	-	-	1.8	6.0	6.7	650	2720	3000	12.5	11.9	11.4
	71	7.1	-	-	-	-	-	1.8	7.1	7.2	650	3250	3080	14.9	14.3	13.7
	20 + 20	2.00	2.00	-	-	-	-	3.0	4.0	5.4	740	960	1460	4.4	4.2	4.0
	20 + 25	2.00	2.50	-	-	-	-	3.0	4.5	5.9	740	1100	1820	5.1	4.8	4.6
	20 + 35	2.00	3.50	-	-	-	-	3.0	5.5	6.4	740	1500	2020	6.9	6.6	6.3
	20 + 50	2.00	5.00	-	-	-	-	3.0	7.0	8.5	740	2290	2820	10.5	10.1	9.6
	20 + 60	2.00	6.00	-	-	-	-	3.0	8.0	9.4	740	2660	3360	12.2	11.7	11.2
	20 + 71	2.00	7.10	-	-	-	-	3.0	9.1	9.9	740	3100	3780	14.1	13.5	12.9
	25 + 25	2.50	2.50	-	-	-	-	3.0	5.0	6.8	740	1420	2200	6.5	6.2	6.0
	25 + 35	2.50	3.50	-	-	-	-	3.0	6.0	6.9	740	1810	2320	8.3	7.9	7.6
	25 + 50	2.50	5.00	-	-	-	-	3.0	7.5	9.0	740	2470	3220	11.3	10.8	10.4
	25 + 60	2.50	6.00	-	-	-	-	3.0	8.5	9.4	740	2810	3360	12.9	12.3	11.8
2	25 + 71	2.53	7.17	-	-	-	-	3.0	9.7	10.4	740	3350	4020	15.4	14.7	14.1
100111	35 + 35	3.50	3.50	-	-	-	-	3.0	7.0	7.4	740	2290	2820	10.5	10.1	9.6
	35 + 50	3.50	5.00	-	-	-	-	3.0	8.5	9.5	740	2810	3620	12.9	12.3	11.8
	35 + 60	3.50	6.00	-	-	-	-	3.0	9.5	10.4	740	3280	3990	15.1	14.4	13.8
	35 + 71	3.30	6.70	-	-	-	-	3.0	10.0	10.9	740	3480	4250	15.8	15.1	14.5
	50 + 50	5.00	5.00	-	-	-	-	3.0	10.0	11.6	740	3480	4350	16.0	15.3	14.6
	50 + 60	4.55	5.45	-	-	-	-	3.0	10.0	11.8	740	3480	4410	16.0	15.3	14.6
	50 + 71	4.13	5.87	-	-	-	-	3.0	10.0	11.8	740	3470	4410	15.8	15.1	14.5
	60 + 60	5.00	5.00	-	-	-	-	3.0	10.0	11.8	740	3470	4410	15.9	15.2	14.6
	60 + 71	4.58	5.42	-	-	-	-	3.0	10.0	11.8	740	3470	4410	15.8	15.1	14.5
	71 + 71	5.00	5.00	-	-	-	-	3.0	10.0	11.8	740	3460	4410	15.6	14.9	14.3
	20 + 20 + 20	2.00	2.00	2.00	-	-	-	3.7	6.0	8.1	880	1530	2490	7.0	6.7	6.4
	20 + 20 + 25	2.00	2.00	2.50	-	-	-	3.7	6.5	8.6	880	1730	2700	7.9	7.6	7.3
	20 + 20 + 35	2.00	2.00	3.50	-	-	-	3.7	7.5	9.1	880	2080	3120	9.6	9.1	8.8
	20 + 20 + 50	2.00	2.00	5.00	-	-	-	3.7	9.0	11.2	880	2730	4000	12.5	12.0	11.5
	20 + 20 + 60	2.00	2.00	6.00	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
	20 + 20 + 71	1.80	1.80	6.40	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
	20 + 25 + 25	2.00	2.50	2.50	-	-	-	3.7	7.0	9.1	880	1940	3210	8.9	8.5	8.2
	20 + 25 + 35	2.00	2.50	3.50	-	-	-	3.7	8.0	9.6	880	2440	3630	11.2	10.7	10.3
	20 + 25 + 50	2.00	2.50	5.00	-	-	-	3.7	9.5	11.5	880	3130	4120	14.4	13.7	13.2
	20 + 25 + 60	1.90	2.38	5.71	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
	20 + 25 + 71	1.72	2.16	6.12	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
	20 + 35 + 35	2.00	3.50	3.50	-	-	-	3.7	9.0	10.1	880	2920	3640	13.4	12.8	12.3
	20 + 35 + 50	1.90	3.33	4.76	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
3	20 + 35 + 60	1.74	3.04	5.22	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
room	20 + 35 + 71	1.59	2.78	5.63	-	-	-	4.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	20 + 50 + 50	1.67	4.17	4.17	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	20 + 50 + 60	1.54	3.85	4.62	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	20 + 50 + 71	1.42	3.55	5.04	-	-	-	3.7	10.0	11.8	881	3260	4250	15.0	14.3	13.7
	20 + 60 + 60	1.43	4.29	4.29	-	-	-	3.7	10.0	11.8	881	3260	4250	15.0	14.3	13.7
	20 + 60 + 71	1.32	3.97	4.70	-	-	-	3.7	10.0	11.8	881	3260	4250	15.0	14.3	13.7
	25 + 25 + 25	2.50	2.50	2.50	-	-	-	3.7	7.5	9.4	880	2130	3340	9.8	9.4	9.0
	25 + 25 + 35	2.50	2.50	3.50	-	-	-	3.7	8.5	9.9	880	2650	3540	12.2	11.6	11.2
	25 + 25 + 50	2.50	2.50	5.00	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
	25 + 25 + 60	2.27	2.27	5.45	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
	25 + 25 + 71	2.07	2.07	5.87	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	25 + 35 + 35	2.50	3.50	3.50	-	-	-	3.7	9.5	10.4	880	3130	3950	14.4	13.7	13.2
	25 + 35 + 50	2.27	3.18	4.55	-	-	-	3.7	10.0	11.8	880	3280	4250	15.1	14.4	13.8
	25 + 35 + 60	2.08	2.92	5.00	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8

Indoor	unit				Cooling	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	25 + 35 + 71	1.91	2.67	5.42	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	25 + 50 + 50	2.00	4.00	4.00	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	25 + 50 + 60	1.85	3.70	4.44	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	25 + 50 + 71	1.71	3.42	4.86	-	-	-	3.7	10.0	11.8	880	3260	4250	21.4	20.5	19.7
	25 + 60 + 60	1.72	4.14	4.14	-	-	-	3.7	10.0	11.8	880	3260	4250	21.4	20.5	19.7
	25 + 60 + 71	1.60	3.85	4.55	-	-	-	3.7	10.0	11.8	880	3260	4250	21.4	20.5	19.7
	35 + 35 + 35	3.33	3.33	3.33	-	-	-	3.7	10.0	10.9	880	3280	4120	15.1	14.4	13.8
3	35 + 35 + 50	2.92	2.92	4.17	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
room	35 + 35 + 60	2.69	2.69	4.62	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	35 + 35 + 71	2.48	2.48	5.04	-	-	-	3.7	10.0	11.8	880	3260	4250	14.8	14.2	13.6
	35 + 50 + 50	2.59	3.70	3.70	-	-	-	3.7	10.0	11.8	880	3270	4250	15.0	14.4	13.8
	35 + 50 + 60	2.41	3.45	4.14	-	-	-	3.7	10.0	11.8	880	3260	4250	15.0	14.3	13.7
	35 + 50 + 71	2.24	3.21	4.55	-	-	-	3.7	10.0	11.8	880	3260	4250	15.0	14.3	13.7
	35 + 60 + 60	2.26	3.87	3.87	-	-	-	3.7	10.0	11.8	880	3260	4250	15.0	14.3	13.7
	50 + 50 + 50	3.33	3.33	3.33	-	-	-	3.7	10.0	11.8	880	3260	4250	15.0	14.3	13.7
	50 + 50 + 60	3.13	3.13	3.75	-	-	-	3.7	10.0	11.8	880	3260	4250	15.0	14.3	13.7
	20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	-	-	4.4	8.0	10.8	1100	2110	3680	9.6	9.2	8.8
	20 + 20 + 20 + 25	2.00	2.00	2.00	2.50	-	-	4.4	8.5	11.1	1100	2390	3890	10.9	10.4	10.0
	20 + 20 + 20 + 35	2.00	2.00	2.00	3.50	-	-	4.4	9.5	11.6	1100	2900	3990	13.2	12.6	12.1
	20 + 20 + 20 + 50	1.82	1.82	1.82	4.55	-	-	4.4	10.0	11.8	1100	3210	4050	14.6	14.0	13.4
	20 + 20 + 20 + 60	1.67	1.67	1.67	5.00	-	-	4.4	10.0	11.8	1100	3210	4050	14.6	14.0	13.4
	20 + 20 + 20 + 71	1.53	1.53	1.53	5.42	-	-	4.4	10.0	11.8	1100	3200	4050	14.4	13.8	13.2
	20 + 20 + 25 + 25	2.00	2.00	2.50	2.50	-	-	4.4	9.0	11.6	1100	2600	3990	11.8	11.3	10.8
	20 + 20 + 25 + 35	2.00	2.00	2.50	3.50	-	-	4.4	10.0	11.8	1100	3220	4050	14.7	14.0	13.4
	20 + 20 + 25 + 50	1.74	1.74	2.17	4.35	-	-	4.4	10.0	11.8	1100	3210	4050	14.6	14.0	13.4
	20 + 20 + 25 + 60	1.60	1.00	2.00	4.60	-	-	4.4	10.0	11.0	1100	3210	4050	14.0	12.0	13.4
	20 + 20 + 25 + 71	1.47	1.47	2.19	2.19	-	-	4.4	10.0	11.0	1100	3200	4050	14.0	14.0	13.3
	20 + 20 + 35 + 50	1.60	1.60	2.80	4.00	-	-	4.4	10.0	11.0	1100	3210	4050	14.0	14.0	12.4
	20 + 20 + 35 + 60	1.00	1.00	2.00	4.00	-	_	4.4	10.0	11.0	1100	3200	4050	14.0	13.0	13.4
	$20 \pm 20 \pm 35 \pm 71$	1.40	1.40	2.03	4.86	-	-	4.4	10.0	11.0	1100	3190	4050	14.5	13.9	13.3
	20 + 20 + 50 + 50	1.07	1.07	3.57	3.57	-	-	4.4	10.0	11.0	1100	3190	4050	14.5	13.9	13.3
	20 + 20 + 50 + 60	1.33	1.33	3.33	4.00	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 20 + 60 + 60	1.25	1.00	3 75	3 75	-	-	4.4	10.0	11.8	1100	3180	4050	14.5	13.8	13.3
	20 + 25 + 25 + 25	2.00	2.50	2.50	2.50	-	-	4.4	9.5	11.8	1100	2900	4050	13.2	12.6	12.1
4	20 + 25 + 25 + 35	1.90	2.38	2.38	3.33	-	-	4.4	10.0	11.8	1100	3220	4050	14.7	14.0	13.4
room	20 + 25 + 25 + 50	1.67	2.08	2.08	4.17	-	-	4.4	10.0	11.8	1100	3210	4050	14.6	14.0	13.4
	20 + 25 + 25 + 60	1.54	1.92	1.92	4.62	-	-	4.4	10.0	11.8	1100	3200	4050	14.6	13.9	13.3
	21 + 26 + 26 + 71	1.46	1.81	1.81	4.93	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 25 + 35 + 35	1.74	2.17	3.04	3.04	-	-	4.4	10.0	11.8	1100	3210	4050	14.6	14.0	13.4
	20 + 25 + 35 + 50	1.54	1.92	2.69	3.85	-	-	4.4	10.0	11.8	1100	3200	4050	14.6	13.9	13.3
	20 + 25 + 35 + 60	1.43	1.79	2.50	4.29	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 25 + 35 + 71	1.32	1.66	2.32	4.70	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 25 + 50 + 50	1.38	1.72	3.45	3.45	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 25 + 50 + 60	1.29	1.61	3.23	3.87	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 35 + 35 + 35	1.60	2.80	2.80	2.80	-	-	4.4	10.0	11.8	1100	3210	4050	14.6	14.0	13.4
	20 + 35 + 35 + 50	1.43	2.50	2.50	3.57	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 35 + 35 + 60	1.33	2.33	2.33	4.00	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 35 + 50 + 50	1.29	2.26	3.23	3.23	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	25 + 25 + 25 + 25	2.50	2.50	2.50	2.50	-	-	4.4	10.0	11.8	1100	3220	4050	14.7	14.0	13.4
	25 + 25 + 25 + 35	2.27	2.27	2.27	3.18	-	-	4.4	10.0	11.8	1100	3210	4050	14.6	14.0	13.4
	25 + 25 + 25 + 50	2.00	2.00	2.00	4.00	-	-	4.4	10.0	11.8	1100	3210	4050	14.6	14.0	13.4
	25 + 25 + 25 + 60	1.85	1.85	1.85	4.44	-	-	4.4	10.0	11.8	1100	3200	4050	14.6	13.9	13.3
	25 + 25 + 25 + 71	1.71	1.71	1.71	4.86	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
1	25 + 25 + 35 + 35	2 08	2.08	2.92	2.92	-	-	44	10.0	11.8	1100	3210	4050	14.6	14.0	13.4

Indoor	unit				Cooling	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	cooling	capacit	ty (kW)		Total	capacity	y (kW)		0		0001/	0001/	0.4014
		Α	В	С	D	E	F	Min.	Standard	Max.	Min.	Standard	wax.	2200	2300	240V
	25 + 25 + 35 + 50	1.85	1.85	2.59	3.70	-	-	4.4	10.0	11.8	1100	3200	4050	14.6	13.9	13.3
	25 + 25 + 35 + 60	1.72	1.72	2.41	4.14	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	25 + 25 + 35 + 71	1.60	1.60	2.24	4.55	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	25 + 25 + 50 + 50	1.67	1.67	3.33	3.33	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	25 + 25 + 50 + 60	1.56	1.56	3.13	3.75	-	-	4.4	10.0	11.8	1100	3180	4050	14.5	13.8	13.3
4 room	25 + 35 + 35 + 35	1.92	2.69	2.69	2.69	-	-	4.4	10.0	11.8	1100	3200	4050	14.6	13.9	13.3
	25 + 35 + 35 + 50	1.72	2.41	2.41	3.45	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	25 + 35 + 35 + 60	1.61	2.26	2.26	3.87	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	25 + 35 + 50 + 50	1.56	2.19	3.13	3.13	-	-	4.4	10.0	11.8	1100	3180	4050	14.5	13.8	13.3
	35 + 35 + 35 + 35	2.50	2.50	2.50	2.50	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	35 + 35 + 35 + 50	2.26	2.26	2.26	3.23	-	-	4.4	10.0	11.8	1100	3190	4050	14.5	13.9	13.3
	20 + 20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	2.00	-	5.1	10.0	11.8	1210	2950	4030	13.4	12.8	12.3
	20 + 20 + 20 + 20 + 25	1.90	1.90	1.90	1.90	2.38	-	5.1	10.0	11.8	1210	2950	4030	13.4	12.8	12.3
	20 + 20 + 20 + 20 + 35	1.74	1.74	1.74	1.74	3.04	-	5.1	10.0	11.8	1210	2950	4030	13.4	12.8	12.3
	20 + 20 + 20 + 20 + 50	1.54	1.54	1.54	1.54	3.85	-	5.1	10.0	11.8	1210	2940	4030	13.4	12.8	12.3
	20 + 20 + 20 + 20 + 60	1.43	1.43	1.43	1.43	4.29	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 20 + 20 + 71	1.32	1.32	1.32	1.32	4.70	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 20 + 25 + 25	1.82	1.82	1.82	2.27	2.27	-	5.1	10.0	11.8	1210	2950	4030	13.4	12.8	12.3
	20 + 20 + 20 + 25 + 35	1.67	1.67	1.67	2.08	2.92	-	5.1	10.0	11.8	1210	2940	4030	13.4	12.8	12.3
	20 + 20 + 20 + 25 + 50	1.48	1.48	1.48	1.85	3.70	-	5.1	10.0	11.8	1210	2940	4030	13.4	12.8	12.3
2	20 + 20 + 20 + 25 + 60	1.38	1.38	1.38	1.72	4.14	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 20 + 25 + 71	1.28	1.28	1.28	1.60	4.55	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 20 + 35 + 35	1.54	1.54	1.54	2.69	2.69	-	5.1	10.0	11.8	1210	2940	4030	13.4	12.8	12.3
	20 + 20 + 20 + 35 + 50	1.38	1.38	1.38	2.41	3.45	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 20 + 35 + 60	1.29	1.29	1.29	2.26	3.87	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 20 + 50 + 50	1.25	1.25	1.25	3.13	3.13	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 25 + 25 + 25	1.74	1.74	2.17	2.17	2.17	-	5.1	10.0	11.8	1210	2950	4030	13.4	12.8	12.3
	20 + 20 + 25 + 25 + 35	1.60	1.60	2.00	2.00	2.80	-	5.1	10.0	11.8	1210	2940	4030	13.4	12.8	12.3
	20 + 20 + 25 + 25 + 50	1.43	1.43	1.79	1.79	3.57	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
5	20 + 20 + 25 + 25 + 60	1.33	1.33	1.67	1.67	4.00	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
room	20 + 20 + 25 + 35 + 35	1.48	1.48	1.85	2.59	2.59	-	5.1	10.0	11.8	1210	2940	4030	13.4	12.8	12.3
	20 + 20 + 25 + 35 + 50	1.33	1.33	1.67	2.33	3.33	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 25 + 35 + 60	1.25	1.25	1.56	2.19	3.75	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 35 + 35 + 35	1.38	1.38	2.41	2.41	2.41	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 20 + 35 + 35 + 50	1.25	1.25	2.19	2.19	3.13	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	20 + 25 + 25 + 25 + 25	1.67	2.08	2.08	2.08	2.08	-	5.1	10.0	11.8	1210	2940	4030	13.4	12.8	12.3
	20 + 25 + 25 + 25 + 35	1.04	1.92	1.92	1.92	2.09	-	5.1	10.0	11.0	1210	2940	4030	13.4	12.0	12.3
	20 + 25 + 25 + 25 + 50	1.30	1.72	1.72	1.72	3.45	-	5.1	10.0	11.0	1010	2930	4030	13.3	12.0	12.2
	20 + 25 + 25 + 25 + 00	1.29	1.01	1.01	1.01	3.67	-	5.1	10.0	11.0	1210	2930	4030	13.3	12.0	12.2
	20 + 25 + 25 + 35 + 35	1.43	1.79	1.79	2.50	2.50	-	5.1	10.0	11.0	1210	2930	4030	13.3	12.0	12.2
	20 + 25 + 25 + 35 + 30	1.29	1.01	0.00	2.20	0.20	-	5.1	10.0	11.0	1210	2930	4030	10.0	10.0	10.0
	20 + 23 + 35 + 35 + 35	1.00	2.10	2.33	2.33	2.33	-	5.1	10.0	11.0	1210	2930	4030	12.3	12.0	12.2
	$20 \pm 00 \pm 00 \pm 00 \pm 00 \pm 00$	2.00	2.19	2.19	2.19	2.19		5.1	10.0	11.0	1210	2930	4030	13.0	12.0	12.2
	$25 \pm 25 \pm 25 \pm 25 \pm 25 \pm 25$	1.85	1.85	1.85	1.85	2.00		5.1	10.0	11.0	1210	2040	4030	13.4	12.0	12.3
	$25 \pm 25 \pm 25 \pm 25 \pm 25 \pm 50$	1.67	1.00	1.00	1.67	2.08		5.1	10.0	11.0	1210	2040	4030	13.4	12.0	12.0
	$25 \pm 25 \pm 25 \pm 25 \pm 50$	1.56	1.56	1.56	1.56	3 75	-	5.1	10.0	11.0	1210	2930	4030	13.3	12.0	12.2
	25 + 25 + 25 + 35 + 35	1 72	1.00	1.00	2 41	2 41	-	5.1	10.0	11.0	1210	2930	4030	13.3	12.0	12.2
	25 + 25 + 25 + 35 + 50	1.56	1.56	1.56	2 19	3 13	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
	25 + 25 + 35 + 35 + 35 + 35	1.61	1.00	2.26	2.26	2.26	-	5.1	10.0	11.8	1210	2930	4030	13.3	12.8	12.2
				20	20	1 2.20			1.0.0		1	2000	1000		0	

			1 Ottania	and our	ent (A)
combination Room heating capacity (kW) Total capacity (kW)					
A B C D E F Min. Standard Max.	Standard	Max.	220V	230V	240V
20 3.0 1.5 3.0 3.6 700	1220	1330	5.6	5.4	5.1
25 3.4 1.5 3.4 4.1 700	1265	1540	5.8	5.6	5.3
1 35 4.5 1.5 4.5 4.9 700	1650	1840	7.6	7.2	6.9
room 50 5.8 1.5 5.8 6.4 700	2120	2410	9.7	9.3	8.9
60 6.8 1.5 6.8 7.4 700	2500	2760	11.5	11.0	10.5
71 8.0 1.5 8.0 8.1 700	3020	3090	13.9	13.3	12.7
20 + 20 3.00 3.00 2.1 6.0 7.2 750	1540	1860	7.1	6.8	6.5
20 + 25 2.84 3.56 2.1 6.4 7.7 750	1660	2210	7.6	7.3	7.0
20 + 35 2.73 4.77 2.1 7.5 8.5 750	1990	2520	9.1	8.7	8.4
20 + 50 2.51 6.29 2.1 8.8 10.0 750	2430	3220	11.2	10.7	10.2
20 + 60 2.45 7.35 2.1 9.8 11.0 750	2840	3620	13.0	12.5	12.0
20 + 71 2.42 8.58 - - - 2.1 11.0 11.6 750	2840	3620	13.0	12.5	12.0
25 + 25 3.40 3.40 - - - 2.1 6.8 8.2 750	1770	2420	8.1	7.8	7.4
25 + 35 3.29 4.61 2.1 7.9 9.0 750	2140	2820	9.8	9.4	9.0
25 + 50 3.07 6.13 - - - 2.1 9.2 10.5 750	2630	3610	12.1	11.6	11.1
25 + 60 3.00 7.20 2.1 10.2 11.5 750	3040	3790	14.0	13.4	12.8
2 25 + 71 2.97 8.43 2.1 11.4 12.1 750	3440	4250	15.8	15.1	14.5
35 + 35 4.50 4.50 2.1 9.0 9.8 750	2520	3210	11.6	11.1	10.6
35 + 50 4.24 6.06 - - - 2.1 10.3 11.3 750	3040	3710	14.0	13.4	12.8
35 + 60 4.16 7.14 2.1 11.3 12.3 750	3420	4320	15.7	15.0	14.4
35 + 71 3.96 8.04 - - - 2.1 12.0 12.9 750	4030	4690	18.5	17.7	17.0
50 + 50 5.80 5.80 2.1 11.6 12.8 750	3660	4620	16.8	16.1	15.4
50 + 60 5.45 6.55 2.1 12.0 13.3 750	4030	4920	18.5	17.7	17.0
50 + 71 4.96 7.04 2.1 12.0 13.3 750	4030	4920	18.5	17.7	17.0
60 + 60 6.00 6.00 - - - 2.1 12.0 13.3 750	4030	4920	18.5	17.7	17.0
60 + 71 5.50 6.50 - - - 2.1 12.0 13.3 750	4030	4920	18.5	17.7	17.0
71 + 71 6.00 6.00 2.1 12.0 13.3 750	4030	4920	18.5	17.7	17.0
20 + 20 + 20 3.00 3.00 3.00 3.2 9.0 10.9 780	2270	3350	10.4	10.0	9.6
20 + 20 + 25 2.89 2.89 3.62 3.2 9.4 11.4 780	2400	3550	11.0	10.5	10.1
	2760	3820	12.7	12.1	11.6
	3270	4290	15.0	14.4	13.8
	3420	4290	15.7	15.0	14.4
	3410	4290	15.7	15.0	14.4
	2560	3720	11.8	11.2	10.8
	2970	3990	15.0	15.0	12.0
	3420	4290	15.7	15.0	14.4
20+25+60 2.29 2.80 0.00 3.2 12.0 13.3 780	3420	4290	15.7	15.0	14.4
20+25+71 2.07 2.59 7.54 5.2 12.0 13.3 780	3410	4290	15.7	15.0	14.4
	3420	4290	15.7	15.0	14.4
3 20+35+60 2.00 2.65 6.26 2.2 12.0 13.3 780	3410	4290	15.7	15.0	14.4
room 20+35+60 2.09 3.05 0.20 3.2 12.0 13.3 780	3410	4290	15.7	15.0	14.4
	3410	4290	15.7	15.0	14.4
	3400	4290	15.7	14.9	14.3
20+50+70 1.00 4.02 0.04 4.2 12.0 13.3 780	3390	4290	15.6	14.9	14.3
	3390	4290	15.6	14.9	14.3
20 + 60 + 71 1 59 4 77 5 64 62 120 133 780	3390	4290	15.6	14.9	14.3
25+25+25 3.40 3.40 3.40 3.2 10.2 12.4 780	2760	3880	12.7	12.1	11.6
25+25+35 332 332 465 32 113 132 780	3170	4120	14.6	13.9	13.3
	3420	4290	15.7	15.0	14.4
25+25+60 273 273 655 32 120 133 780	3410	4290	15.7	15.0	14.4
25+25+71 248 248 7.04 32 120 133 780	3410	4290	15.7	15.0	14.4
25+35+35 316 442 442 32 120 133 780	3420	4290	15.7	15.0	14.4
25 + 35 + 50 2.73 3.82 5.45 3.2 12.0 13.3 780	3410	4290	15.7	15.0	14.4

Indoor	unit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)	Min	Ctondord	Max	2201/	2201/	2401/
		Α	В	С	D	Е	F	Min.	Standard	Max.	win.	Standard	Max.	2200	2300	2400
	25 + 35 + 60	2.50	3.50	6.00	-	-	-	3.2	12.0	13.3	780	3410	4290	15.7	15.0	14.4
	25 + 35 + 71	2.29	3.21	6.50	-	-	-	4.2	12.0	13.3	780	3400	4290	15.6	14.9	14.3
	25 + 50 + 50	2.40	4.80	4.80	-	-	-	3.2	12.0	13.3	780	3410	4290	15.7	15.0	14.4
	25 + 50 + 60	2.22	4.44	5.33	-	-	-	3.2	12.0	13.3	780	3400	4290	15.6	14.9	14.3
	25 + 50 + 71	2.05	4.11	5.84	-	-	-	3.2	12.0	13.3	780	3390	4290	15.6	14.9	14.3
	25 + 60 + 60	2.07	4.97	4.97	-	-	-	3.2	12.0	13.3	780	3390	4290	15.6	14.9	14.3
	25 + 60 + 71	1.92	4.62	5.46	-	-	-	3.2	12.0	13.3	780	3390	4290	15.6	14.9	14.3
3	35 + 35 + 35	4.00	4.00	4.00	-	-	-	3.2	12.0	13.3	780	3420	4290	15.7	15.0	14.4
room	35 + 35 + 50	3.50	3.50	5.00	-	-	-	3.2	12.0	13.3	780	3410	4290	15.7	15.0	14.4
	35 + 35 + 60	3.23	3.23	5.54	-	-	-	3.2	12.0	13.3	780	3400	4290	15.6	14.9	14.3
	35 + 35 + 71	2.98	2.98	6.04	-	-	-	3.2	12.0	13.3	780	3390	4290	15.6	14.9	14.3
	35 + 50 + 50	3.11	4.44	4.44	-	-	-	3.2	12.0	13.3	780	3400	4290	15.6	14.9	14.3
	35 + 50 + 60	2.90	4.14	4.97	-	-	-	3.2	12.0	13.3	780	3390	4290	15.6	14.9	14.3
	35 + 50 + 71	2.69	3.85	5.46	-	-	-	3.2	12.0	13.3	780	3390	4290	15.6	14.9	14.3
	35 + 60 + 60	2.71	4.65	4.65	-	-	-	3.2	12.0	13.3	780	3390	4290	15.6	14.9	14.3
	50 + 50 + 50	4.00	4.00	4.00	-	-	-	3.2	12.0	13.3	780	3390	4290	15.6	14.9	14.3
	50 + 50 + 60	3.75	3.75	4.50	-	-	-	3.2	12.0	13.3	780	3380	4290	15.5	14.8	14.2
	20 + 20 + 20 + 20	3.00	3.00	3.00	3.00	-	-	3.6	12.0	13.3	950	3270	3920	14.9	14.2	13.6
	20 + 20 + 20 + 25	2.82	2.82	2.82	3.53	-	-	3.6	12.0	13.3	950	3270	3920	14.9	14.2	13.6
	20 + 20 + 20 + 35	2.53	2.53	2.53	4.42	-	-	3.6	12.0	13.3	950	3270	3920	14.9	14.2	13.6
	20 + 20 + 20 + 50	2.18	2.18	2.18	5.45	-	-	3.6	12.0	13.3	950	3260	3920	14.8	14.2	13.6
	20 + 20 + 20 + 60	2.00	2.00	2.00	6.00	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	20 + 20 + 20 + 71	1.83	1.83	1.83	6.50	-	-	3.6	12.0	13.3	950	3250	3920	14.6	14.0	13.4
	20 + 20 + 25 + 25	2.67	2.67	3.33	3.33	-	-	3.6	12.0	13.3	950	3270	3920	14.9	14.2	13.6
	20 + 20 + 25 + 35	2.40	2.40	3.00	4.20	-	-	3.6	12.0	13.3	950	3260	3920	14.8	14.2	13.6
	20 + 20 + 25 + 50	2.09	2.09	2.61	5.22	-	-	3.6	12.0	13.3	950	3260	3920	14.8	14.2	13.6
	20 + 20 + 25 + 60	1.92	1.92	2.40	5.76	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	20 + 20 + 25 + 71	1.76	1.76	2.21	6.26	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	20 + 20 + 35 + 35	2.18	2.18	3.82	3.82	-	-	3.6	12.0	13.3	950	3260	3920	14.8	14.2	13.6
	20 + 20 + 35 + 50	1.92	1.92	3.36	4.80	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	20 + 20 + 35 + 60	1.78	1.78	3.11	5.33	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	20 + 20 + 35 + 71	1.64	1.64	2.88	5.84	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 20 + 50 + 50	1.71	1.71	4.29	4.29	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 20 + 50 + 60	1.60	1.60	4.00	4.80	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 20 + 60 + 60	1.50	1.50	4.50	4.50	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
4	20 + 25 + 25 + 25	2.53	3.16	3.16	3.16	-	-	3.6	12.0	13.3	950	3270	3920	14.9	14.2	13.6
room	20 + 25 + 25 + 35	2.29	2.86	2.86	4.00	-	-	3.6	12.0	13.3	950	3260	3920	14.8	14.2	13.6
	20 + 25 + 25 + 50	2.00	2.50	2.50	5.00	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	20 + 25 + 25 + 60	1.85	2.31	2.31	5.54	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	20 + 25 + 25 + 71	1.70	2.13	2.13	6.04	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 25 + 35 + 35	2.09	2.61	3.65	3.65	-	-	3.6	12.0	13.3	950	3260	3920	14.8	14.2	13.6
	20 + 25 + 35 + 50	1.85	2.31	3.23	4.62	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	20 + 25 + 35 + 60	1./1	2.14	3.00	5.14	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 25 + 35 + 71	1.59	1.99	2.78	5.64	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 25 + 50 + 50	1.66	2.07	4.14	4.14	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 25 + 50 + 60	1.55	1.94	3.87	4.65	-	-	3.6	12.0	10.0	950	3240	3920	14./	14.1	13.5
	20 + 35 + 35 + 35	1.92	3.30	3.30	3.30	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.0
	20 + 35 + 35 + 50	1.71	3.00	3.00	4.29	-	-	3.6	12.0	10.0	950	3240	3920	14./	14.1	13.5
	20 + 30 + 30 + 60	1.60	2.80	2.80	4.80	-	-	3.0	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 35 + 50 + 50	1.55	2./1	3.8/	3.8/	-	-	3.6	12.0	10.0	950	3240	3920	14./	14.1	13.5
	23 + 25 + 25 + 25	3.00	3.00	3.00	3.00	-	-	3.0	12.0	13.3	950	3260	3920	14.0	14.2	13.0
	20 + 20 + 20 + 35	2.73	2.73	2.73	3.82	-	-	3.0	12.0	12.3	950	3260	3920	14.0	14.2	13.0
	20 + 20 + 20 + 20 + 50	2.40	2.40	2.40	4.00	-	-	3.0	12.0	10.0	950	3250	3920	14.0	14.1	10.0
	23 + 23 + 25 + 60	2.22	2.22	2.22	5.33	-	-	3.0	12.0	12.3	950	3250	3920	14.8	14.1	13.0
1	20+20+20+71	2.05	2.05	2.05	0.64	-	-	3.0	12.0	13.3	950	3240	3920	14.7	14.1	13.5
Indoor	unit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
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combin	ation		Room	heating	capacit	ty (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	25 + 25 + 35 + 35	2.50	2.50	3.50	3.50	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	25 + 25 + 35 + 50	2.22	2.22	3.11	4.44	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	25 + 25 + 35 + 60	2.07	2.07	2.90	4.97	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	25 + 25 + 35 + 71	1.92	1.92	2.69	5.46	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	25 + 25 + 50 + 50	2.00	2.00	4.00	4.00	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
4	25 + 25 + 50 + 60	1.88	1.88	3.75	4.50	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
room	25 + 35 + 35 + 35	2.31	3.23	3.23	3.23	-	-	3.6	12.0	13.3	950	3250	3920	14.8	14.1	13.6
	25 + 35 + 35 + 50	2.07	2.90	2.90	4.14	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	25 + 35 + 35 + 60	1.94	2.71	2.71	4.65	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	25 + 35 + 50 + 50	1.88	2.63	3.75	3.75	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	35 + 35 + 35 + 35	3.00	3.00	3.00	3.00	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	35 + 35 + 35 + 50	2.71	2.71	2.71	3.87	-	-	3.6	12.0	13.3	950	3240	3920	14.7	14.1	13.5
	20 + 20 + 20 + 20 + 20	2.40	2.40	2.40	2.40	2.40	-	4.0	12.0	13.3	1050	3220	3620	14.7	14.0	13.4
	20 + 20 + 20 + 20 + 25	2.29	2.29	2.29	2.29	2.86	-	4.0	12.0	13.3	1050	3220	3620	14.7	14.0	13.4
	20 + 20 + 20 + 20 + 35	2.09	2.09	2.09	2.09	3.65	-	4.0	12.0	13.3	1050	3210	3620	14.6	14.0	13.4
	20 + 20 + 20 + 20 + 50	1.85	1.85	1.85	1.85	4.62	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 20 + 20 + 20 + 60	1.71	1.71	1.71	1.71	5.14	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 20 + 20 + 20 + 71	1.59	1.59	1.59	1.59	5.64	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 20 + 20 + 25 + 25	2.18	2.18	2.18	2.73	2.73	-	4.0	12.0	13.3	1050	3210	3620	14.6	14.0	13.4
	20 + 20 + 20 + 25 + 35	2.00	2.00	2.00	2.50	3.50	-	4.0	12.0	13.3	1050	3210	3620	14.6	14.0	13.4
	20 + 20 + 20 + 25 + 50	1.78	1.78	1.78	2.22	4.44	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 20 + 20 + 25 + 60	1.66	1.66	1.66	2.07	4.97	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 20 + 20 + 25 + 71	1.54	1.54	1.54	1.92	5.46	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 20 + 20 + 35 + 35	1.85	1.85	1.85	3.23	3.23	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
2 2 2 2 2 2	20 + 20 + 20 + 35 + 50	1.66	1.66	1.66	2.90	4.14	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 20 + 20 + 35 + 60	1.55	1.55	1.55	2.71	4.65	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 20 + 20 + 50 + 50	1.50	1.50	1.50	3.75	3.75	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 20 + 25 + 25 + 25	2.09	2.09	2.61	2.61	2.61	-	4.0	12.0	13.3	1050	3210	3620	14.6	14.0	13.4
	20 + 20 + 25 + 25 + 35	1.92	1.92	2.40	2.40	3.36	-	4.0	12.0	13.3	1050	3210	3620	14.6	14.0	13.4
	20 + 20 + 25 + 25 + 50	1.71	1.71	2.14	2.14	4.29	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 20 + 25 + 25 + 60	1.60	1.60	2.00	2.00	4.80	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
5	20 + 20 + 25 + 35 + 35	1.78	1.78	2.22	3.11	3.11	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
100111	20 + 20 + 25 + 35 + 50	1.60	1.60	2.00	2.80	4.00	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 20 + 25 + 35 + 60	1.50	1.50	1.88	2.63	4.50	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 20 + 35 + 35 + 35	1.66	1.66	2.90	2.90	2.90	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 20 + 35 + 35 + 50	1.50	1.50	2.63	2.63	3.75	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 25 + 25 + 25 + 25	2.00	2.50	2.50	2.50	2.50	-	4.0	12.0	13.3	1050	3210	3620	14.6	14.0	13.4
	20 + 25 + 25 + 25 + 35	1.85	2.31	2.31	2.31	3.23	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 25 + 25 + 25 + 50	1.66	2.07	2.07	2.07	4.14	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 25 + 25 + 25 + 60	1.55	1.94	1.94	1.94	4.65	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 25 + 25 + 35 + 35	1.71	2.14	2.14	3.00	3.00	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	20 + 25 + 25 + 35 + 50	1.55	1.94	1.94	2.71	3.87	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 25 + 35 + 35 + 35	1.60	2.00	2.80	2.80	2.80	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	20 + 35 + 35 + 35 + 35	1.50	2.63	2.63	2.63	2.63	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	25 + 25 + 25 + 25 + 25	2.40	2.40	2.40	2.40	2.40	-	4.0	12.0	13.3	1050	3210	3620	14.6	14.0	13.4
	25 + 25 + 25 + 25 + 35	2.22	2.22	2.22	2.22	3.11	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	25 + 25 + 25 + 25 + 50	2.00	2.00	2.00	2.00	4.00	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	25 + 25 + 25 + 25 + 60	1.88	1.88	1.88	1.88	4.50	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	25 + 25 + 25 + 35 + 35	2.07	2.07	2.07	2.90	2.90	-	4.0	12.0	13.3	1050	3200	3620	14.6	13.9	13.3
	25 + 25 + 25 + 35 + 50	1.88	1.88	1.88	2.63	3.75	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3
	25 + 25 + 35 + 35 + 35	1.94	1.94	2.71	2.71	2.71	-	4.0	12.0	13.3	1050	3190	3620	14.5	13.9	13.3

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# (8) Model SCM125ZJ-S1(a) Indoor unit SRK\*\*ZJX-S models only

Indoor	unit				Coolin	g capaci	ity (kW)				Power	consump	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)						
		A	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
<u> </u>	20	2.0	-	-	-	-	-	1.8	2.0	2.8	650	750	1100	3.4	3.3	3.2
	25	2.5	-	-	-	-	-	1.8	2.5	3.4	650	950	1350	4.4	4.2	4.0
1	35	3.5	-	-	-	-	-	1.8	3.5	3.9	650	1400	1600	6.4	6.1	5.9
room	50	5.0	-	-	-	-	-	1.8	5.0	6.1	650	2000	2500	9.2	8.8	8.4
	60	6.0	-	-	-	-	-	1.8	6.0	7.0	650	2450	3000	11.2	10.8	10.3
	20 + 20	2.00	2.00	-	-	-	-	3.0	4.0	5.6	740	910	1460	4.2	4.0	3.8
	20 + 25	2.00	2.50	-	-	-	-	3.0	4.5	6.2	740	1050	1820	4.8	4.6	4.4
	20 + 35	2.00	3.50	-	-	-	-	3.0	5.5	6.7	740	1430	2020	6.6	6.3	6.0
	20 + 50	2.00	5.00	-	-	-	-	3.0	7.0	8.9	740	2180	2820	10.0	9.6	9.2
	20 + 60	2.00	6.00	-	-	-	-	3.0	8.0	9.8	740	2530	3360	11.6	11.1	10.6
	25 + 25	2.50	2.50	-	-	-	-	3.0	5.0	6.8	740	1350	2200	6.2	5.9	5.7
	25 + 35	2.50	3.50	-	-	-	-	3.0	6.0	7.3	740	1720	2320	7.9	7.6	7.2
2	25 + 50	2.50	5.00	-	-	-	-	3.0	7.5	9.5	740	2350	3220	10.8	10.3	9.9
room	25 + 60	2.50	6.00	-	-	-	-	3.0	8.5	9.8	740	2680	3360	12.3	11.8	11.3
	35 + 35	3.50	3.50	-	-	-	-	3.0	7.0	7.8	740	2180	2820	10.0	9.6	9.2
	35 + 50	3.50	5.00	-	-	-	-	3.0	8.5	10.0	740	2680	3620	12.3	11.8	11.3
	35 + 60	3.50	6.00	-	-	-	-	3.0	9.5	10.9	740	3120	3990	14.3	13.7	13.1
	50 + 50	5.00	5.00	-	-	-	-	3.0	10.0	12.2	740	3350	4450	15.4	14.7	14.1
	50 + 60	5.00	6.00	-	-	-	-	3.0	11.0	12.5	740	3685	4520	16.9	16.2	15.5
	60 + 60	6.00	6.00	-	-	-	-	3.0	12.0	12.5	740	4200	4520	19.3	18.4	17.7
	20 + 20 + 20	2.00	2.00	2.00	-	-	-	3.7	6.0	8.4	880	1460	2560	6.7	6.4	6.1
	20 + 20 + 25	2.00	2.00	2.50	-	-	-	3.7	6.5	9.0	880	1650	2700	7.6	7.2	6.9
	20 + 20 + 35	2.00	2.00	3.50	-	-	-	3.7	7.5	9.5	880	1980	3120	9.1	8.7	8.3
2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 + 20 + 50	2.00	2.00	5.00	-	-	-	3.7	9.0	11.7	880	2600	4120	11.9	11.4	10.9
	20 + 20 + 60	2.00	2.00	6.00	-	-	-	3.7	10.0	12.6	880	3120	4680	14.3	13.7	13.1
	20 + 25 + 25	2.00	2.50	2.50	-	-	-	3.7	7.0	9.6	880	1850	3210	8.5	8.1	7.8
	20 + 25 + 35	2.00	2.50	3.50	-	-	-	3.7	8.0	10.1	880	2320	3630	10.7	10.2	9.8
	20 + 25 + 50	2.00	2.50	5.00	-	-	-	3.7	9.5	12.3	880	2980	4510	13.7	13.1	12.5
	20 + 25 + 60	2.00	2.50	6.00	-	-	-	3.7	10.5	12.8	880	3590	4800	16.5	15.8	15.1
	20 + 35 + 35	2.00	3.50	3.50	-	-	-	3.7	9.0	10.6	880	2780	4120	12.8	12.2	11.7
	20 + 35 + 50	2.00	3.50	5.00	-	-	-	3.7	10.5	12.8	880	3590	4800	16.5	15.8	15.1
	20 + 35 + 60	2.00	3.50	6.00	-	-	-	3.7	11.5	12.8	880	3950	4800	18.1	17.3	16.6
	20 + 50 + 50	2.00	5.00	5.00	-	-	-	3.7	12.0	12.8	880	4230	4800	19.4	18.6	17.8
	20 + 50 + 60	1.92	4.81	5.77	-	-	-	3.7	12.5	12.8	880	4450	4800	20.4	19.5	18.7
	20 + 60 + 60	1.79	5.36	5.36	-	-	-	3.7	12.5	12.8	880	4450	4800	20.4	19.5	18.7
	25 + 25 + 25	2.50	2.50	2.50	-	-	-	3.7	7.5	10.2	880	2030	3640	9.3	8.9	8.5
	25 + 25 + 35	2.50	2.50	3.50	-	-	-	3.7	8.5	10.7	880	2520	3900	11.6	11.1	10.6
3 room	25 + 25 + 50	2.50	2.50	5.00	-	-	-	3.7	10.0	12.8	880	3260	4800	15.0	14.3	13.7
Toom	25 + 25 + 60	2.50	2.50	6.00	-	-	-	3.7	11.0	12.8	880	3720	4800	17.1	16.3	15.7
	25 + 35 + 35	2.50	3.50	3.50	-	-	-	3.7	9.5	11.2	880	2980	4510	13.7	13.1	12.5
	25 + 35 + 50	2.50	3.50	5.00	-	-	-	3.7	11.0	12.8	880	3720	4800	17.1	16.3	15.7
	25 + 35 + 60	2.50	3.50	6.00	-	-	-	3.7	12.0	12.8	880	4230	4800	19.4	18.6	17.8
	25 + 50 + 50	2.50	5.00	5.00	-	-	-	3.7	12.5	12.8	880	4450	4800	20.4	19.5	18.7
	25 + 50 + 60	2.31	4.63	5.56	-	-	-	3.7	12.5	12.8	880	4450	4800	20.4	19.5	18.7
	25 + 60 + 60	2.16	5.17	5.17	-	-	-	3.7	12.5	12.8	880	4450	4800	20.4	19.5	18.7
	35 + 35 + 35	3.50	3.50	3.50	-	-	-	3.7	10.5	11.7	880	3590	4180	16.5	15.8	15.1
	35 + 35 + 50	3.50	3.50	5.00	-	-	-	3.7	12.0	12.8	880	4230	4800	19.4	18.6	17.8
	35 + 35 + 60	3.37	3.37	5.77	-	-	-	3.7	12.5	12.8	880	4450	4800	20.4	19.5	18.7
	35 + 50 + 50	3.24	4.63	4.63	-	-	-	3.7	12.5	12.8	880	4450	4800	20.4	19.5	18.7
	35 + 50 + 60	3.02	4.31	5.17	-	-	-	3.7	12.5	12.8	880	4450	4800	20.2	19.3	18.5
	35 + 60 + 60	2.82	4.84	4.84	-	-	-	3.7	12.5	12.8	880	4450	4800	20.2	19.3	18.5
	50 + 50 + 50	4.17	4.17	4.17	-	-	-	3.7	12.5	12.8	880	4440	4800	20.4	19.5	18.7
	50 + 50 + 60	3.91	3.91	4.69	-	-	-	3.7	12.5	12.8	880	4440	4800	20.4	19.5	18.7
	50 + 60 + 60	3.68	4.41	4.41	-	-	-	3.7	12.5	12.8	880	4430	4800	20.3	19.5	18.6
	60 + 60 + 60	4.17	4.17	4.17	-	-	-	3.7	12.5	12.8	880	4430	4800	20.3	19.5	18.6

Indoor	unit				Coolin	g capaci	ity (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)		0			0001/	0.4014
		Α	В	С	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	2200	2300	240V
	20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	-	-	4.4	8.0	11.2	1100	2050	3680	9.3	8.9	8.6
	20 + 20 + 20 + 25	2.00	2.00	2.00	2.50	-	-	4.4	8.5	11.8	1100	2320	3890	10.6	10.1	9.7
	20 + 20 + 20 + 35	2.00	2.00	2.00	3.50	-	-	4.4	9.5	12.3	1100	2820	4530	12.8	12.3	11.8
	20 + 20 + 20 + 50	2.00	2.00	2.00	5.00	-	-	4.4	11.0	13.0	1100	3480	4800	15.8	15.1	14.5
	20 + 20 + 20 + 60	2.00	2.00	2.00	6.00	-	-	4.4	12.0	13.0	1100	3980	4800	18.1	17.3	16.6
	20 + 20 + 25 + 25	2.00	2.00	2.50	2.50	-	-	4.4	9.0	12.4	1100	2520	4590	11.5	11.0	10.5
	20 + 20 + 25 + 35	2.00	2.00	2.50	3.50	-	-	4.4	10.0	12.9	1100	3120	4780	14.2	13.6	13.0
	20 + 20 + 25 + 50	2.00	2.00	2.50	5.00	-	-	4.4	11.5	13.0	1100	3720	4800	16.9	16.2	15.5
	20 + 20 + 25 + 60	2.00	2.00	2.50	6.00	-	-	4.4	12.5	13.0	1100	4600	4800	20.9	20.0	19.2
	20 + 20 + 35 + 35	2.00	2.00	3.50	3.50	-	-	4.4	11.0	13.0	1100	3480	4800	15.8	15.1	14.5
	20 + 20 + 35 + 50	2.00	2.00	3.50	5.00	-	-	4.4	12.5	13.0	1100	4600	4800	20.9	20.0	19.2
	20 + 20 + 35 + 60	1.85	1.85	3.24	5.56	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	20 + 20 + 50 + 50	1.79	1.79	4.46	4.46	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	20 + 20 + 50 + 60	1.67	1.67	4.17	5.00	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	20 + 20 + 60 + 60	1.56	1.56	4.69	4.69	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	20 + 25 + 25 + 25	2.00	2.50	2.50	2.50	-	-	4.4	9.5	13.0	1100	2820	4800	12.8	12.3	11.8
	20 + 25 + 25 + 35	2.00	2.50	2.50	3.50	-	-	4.4	10.5	13.0	1100	3340	4800	15.2	14.5	13.9
	20 + 25 + 25 + 50	2.00	2.50	2.50	5.00	-	-	4.4	12.0	13.0	1100	3980	4800	18.1	17.3	16.6
	20 + 25 + 25 + 60	1.92	2.40	2.40	5.77	-	-	4.4	12.5	13.0	1100	4600	4800	20.9	20.0	19.2
	20 + 25 + 35 + 35	2.00	2.50	3.50	3.50	-	-	4.4	11.5	13.0	1100	3720	4800	16.9	16.2	15.5
	20 + 25 + 35 + 50	1.92	2.40	3.37	4.81	-	-	4.4	12.5	13.0	1100	4600	4800	20.9	20.0	19.2
	20 + 25 + 35 + 60	1.79	2.23	3.13	5.36	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	20 + 25 + 50 + 50	1.72	2.16	4.31	4.31	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	20 + 25 + 50 + 60	1.61	2.02	4.03	4.84	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	20 + 25 + 60 + 60	1.52	1.89	4.55	4.55	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	20 + 35 + 35 + 35	2.00	3.50	3.50	3.50	-	-	4.4	12.5	13.0	1100	4600	4800	20.9	20.0	19.2
	20 + 35 + 35 + 50	1.79	3.13	3.13	4.46	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
4 room	20 + 35 + 35 + 60	1.67	2.92	2.92	5.00	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
100111	20 + 35 + 50 + 50	1.61	2.82	4.03	4.03	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	20 + 35 + 50 + 60	1.52	2.65	3.79	4.55	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	20 + 35 + 60 + 60	1.43	2.50	4.29	4.29	-	-	5.4	12.5	13.0	1100	4570	4801	20.6	19.7	18.9
	20 + 50 + 50 + 50	1.47	3.68	3.68	3.68	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	20 + 50 + 50 + 60	1.39	3.47	3.47	4.17	-	-	4.4	12.5	13.0	1100	4570	4800	20.8	19.9	19.1
	20 + 50 + 60 + 60	1.32	3.29	3.95	3.95	-	-	4.4	12.5	13.0	1100	4560	4800	20.7	19.8	19.0
	25 + 25 + 25 + 25	2.50	2.50	2.50	2.50	-	-	4.4	10.0	13.0	1100	3120	4800	14.2	13.6	13.0
	25 + 25 + 25 + 35	2.50	2.50	2.50	3.50	-	-	4.4	11.0	13.0	1100	3480	4800	15.8	15.1	14.5
	25 + 25 + 25 + 50	2.50	2.50	2.50	5.00	-	-	4.4	12.5	13.0	1100	4600	4800	20.9	20.0	19.2
	25 + 25 + 25 + 60	2.31	2.31	2.31	5.56	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	25 + 25 + 35 + 35	2.50	2.50	3.50	3.50	-	-	4.4	12.0	13.0	1100	3980	4800	18.1	17.3	16.6
	25 + 25 + 35 + 50	2.31	2.31	3.24	4.63	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	25 + 25 + 35 + 60	2.16	2.16	3.02	5.17	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	25 + 25 + 50 + 50	2.08	2.08	4.17	4.17	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	25 + 25 + 50 + 60	1.95	1.95	3.91	4.69	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	25 + 25 + 60 + 60	1.84	1.84	4.41	4.41	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	25 + 35 + 35 + 35	2.40	3.37	3.37	3.37	-	-	4.4	12.5	13.0	1100	4600	4800	20.9	20.0	19.2
	25 + 35 + 35 + 50	2.16	3.02	3.02	4.31	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
	25 + 35 + 35 + 60	2.02	2.82	2.82	4.84	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	25 + 35 + 50 + 50	1.95	2.73	3.91	3.91	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	25 + 35 + 50 + 60	1.84	2.57	3.68	4.41	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
-	25 + 35 + 60 + 60	1.74	2.43	4.17	4.17	-	-	4.4	12.5	13.0	1100	4570	4800	20.8	19.9	19.1
	25 + 50 + 50 + 50	1.79	3.57	3.57	3.57	-	-	4.4	12.5	13.0	1100	4570	4800	20.8	19.9	19.1
	25 + 50 + 50 + 60	1.69	3.38	3.38	4.05	-	-	4.4	12.5	13.0	1100	4570	4800	20.8	19.9	19.1
	25 + 50 + 60 + 60	1.60	3.21	3.85	3.85	-	-	4.4	12.5	13.0	1100	4560	4800	20.7	19.8	19.0
	35 + 35 + 35 + 35	3.13	3.13	3.13	3.13	-	-	4.4	12.5	13.0	1100	4590	4800	20.9	20.0	19.1
1	35 + 35 + 35 + 50	2.82	2.82	2.82	4.03	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1

Indeer					Cooling	g capaci	ity (kW)				Power	consump	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	coolina	capacit	tv (kW)		Total	capacity	/ (kW)						
		Δ	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	35 + 35 + 35 + 60	2.65	2.65	2.65	4.55	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
	35 + 35 + 50 + 50	2.57	2.57	3.68	3.68	-	-	4.4	12.5	13.0	1100	4580	4800	20.8	19.9	19.1
4	35 + 35 + 50 + 60	2.43	2.43	3.47	4.17	-	-	4.4	12.5	13.0	1100	4570	4800	20.8	19.9	19.1
room	35 + 35 + 60 + 60	2.30	2.30	3.95	3.95	-	-	4.4	12.5	13.0	1100	4560	4800	20.7	19.8	19.0
	35 + 50 + 50 + 50	2.36	3.38	3.38	3.38	-	-	4.4	12.5	13.0	1100	4570	4800	20.8	19.9	19.1
	35 + 50 + 50 + 60	2.24	3.21	3.21	3.85	-	-	4.4	12.5	13.0	1100	4560	4800	20.7	19.8	19.0
	20 + 20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	2.00	-	5.1	10.0	13.5	1210	2880	4800	13.1	12.5	12.0
	20 + 20 + 20 + 20 + 25	2.00	2.00	2.00	2.00	2.50	-	5.1	10.5	13.5	1210	3120	4800	14.2	13.6	13.0
	20 + 20 + 20 + 20 + 35	2.00	2.00	2.00	2.00	3.50	-	5.1	11.5	13.5	1210	3620	4800	16.5	15.8	15.1
	20 + 20 + 20 + 20 + 50	1.92	1.92	1.92	1.92	4.81	-	5.1	12.5	13.5	1210	4320	4800	19.7	18.8	18.0
	20 + 20 + 20 + 20 + 60	1.79	1.79	1.79	1.79	5.36	-	5.1	12.5	13.5	1210	4310	4800	19.6	18.8	18.0
	20 + 20 + 20 + 25 + 25	2.00	2.00	2.00	2.50	2.50	-	5.1	11.0	13.5	1210	3320	4800	15.1	14.4	13.8
	20 + 20 + 20 + 25 + 35	2.00	2.00	2.00	2.50	3.50	-	5.1	12.0	13.5	1210	3990	4800	18.2	17.4	16.6
	20 + 20 + 20 + 25 + 50	1.85	1.85	1.85	2.31	4.63	-	5.1	12.5	13.5	1210	4320	4800	19.7	18.8	18.0
	20 + 20 + 20 + 25 + 60	1.72	1.72	1.72	2.16	5.17	-	5.1	12.5	13.5	1210	4310	4800	19.6	18.8	18.0
	20 + 20 + 20 + 35 + 35	1.92	1.92	1.92	3.37	3.37	-	5.1	12.5	13.5	1210	4320	4800	19.7	18.8	18.0
	20 + 20 + 20 + 35 + 50	1.72	1.72	1.72	3.02	4.31	-	5.1	12.5	13.5	1210	4310	4800	19.6	18.8	18.0
	20 + 20 + 20 + 35 + 60	1.61	1.61	1.61	2.82	4.84	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 20 + 20 + 50 + 50	1.56	1.56	1.56	3.91	3.91	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 20 + 20 + 50 + 60	1.47	1.47	1.47	3.68	4.41	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
	20 + 20 + 20 + 60 + 60	1.39	1.39	1.39	4.17	4.17	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 20 + 25 + 25 + 25	2.00	2.00	2.50	2.50	2.50	-	5.1	11.5	13.5	1210	3620	4800	16.5	15.8	15.1
	20 + 20 + 25 + 25 + 35	2.00	2.00	2.50	2.50	3.50	-	5.1	12.5	13.5	1210	4330	4800	19.7	18.8	18.1
	20 + 20 + 25 + 25 + 50	1.79	1.79	2.23	2.23	4.46	-	5.1	12.5	13.5	1210	4310	4800	19.6	18.8	18.0
	20 + 20 + 25 + 25 + 60	1.67	1.67	2.08	2.08	5.00	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 20 + 25 + 35 + 35	1.85	1.85	2.31	3.24	3.24	-	5.1	12.5	13.5	1210	4320	4800	19.7	18.8	18.0
	20 + 20 + 25 + 35 + 50	1.67	1.67	2.08	2.92	4.17	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 20 + 25 + 35 + 60	1.56	1.56	1.95	2.73	4.69	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 20 + 25 + 50 + 50	1.52	1.52	1.89	3.79	3.79	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
5	20 + 20 + 25 + 50 + 60	1.43	1.43	1.79	3.57	4.29	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
100111	20 + 20 + 25 + 60 + 60	1.35	1.35	1.69	4.05	4.05	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 20 + 35 + 35 + 35	1.72	1.72	3.02	3.02	3.02	-	5.1	12.5	13.5	1210	4310	4800	19.6	18.8	18.0
	20 + 20 + 35 + 35 + 50	1.56	1.56	2.73	2.73	3.91	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 20 + 35 + 35 + 60	1.47	1.47	2.57	2.57	4.41	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
	20 + 20 + 35 + 50 + 50	1.43	1.43	2.50	3.57	3.57	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 20 + 35 + 50 + 60	1.35	1.35	2.36	3.38	4.05	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 20 + 35 + 60 + 60	1.28	1.28	2.24	3.85	3.85	-	5.1	12.5	13.5	1210	4270	4800	19.4	18.6	17.8
	20 + 20 + 50 + 50 + 50	1.32	1.32	3.29	3.29	3.29	-	5.1	12.5	13.5	1210	4270	4800	19.4	18.6	17.8
	20 + 25 + 25 + 25 + 25	2.00	2.50	2.50	2.50	2.50	-	5.1	12.0	13.5	1210	3990	4800	18.2	17.4	16.6
	20 + 25 + 25 + 25 + 35	1.92	2.40	2.40	2.40	3.37	-	5.1	12.5	13.5	1210	4320	4800	19.7	18.8	18.0
	20 + 25 + 25 + 25 + 50	1.72	2.16	2.16	2.16	4.31	-	5.1	12.5	13.5	1210	4310	4800	19.6	18.8	18.0
	20 + 25 + 25 + 25 + 60	1.61	2.02	2.02	2.02	4.84	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 25 + 25 + 35 + 35	1.79	2.23	2.23	3.13	3.13	-	5.1	12.5	13.5	1210	4310	4800	19.6	18.8	18.0
	20 + 25 + 25 + 35 + 50	1.61	2.02	2.02	2.82	4.03	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 25 + 25 + 35 + 60	1.52	1.89	1.89	2.65	4.55	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
	20 + 25 + 25 + 50 + 50	1.47	1.84	1.84	3.68	3.68	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
	20 + 25 + 25 + 50 + 60	1.39	1.74	1.74	3.47	4.17	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 25 + 25 + 60 + 60	1.32	1.64	1.64	3.95	3.95	-	5.1	12.5	13.5	1210	4270	4800	19.4	18.6	17.8
	20 + 25 + 35 + 35 + 35	1.67	2.08	2.92	2.92	2.92	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 25 + 35 + 35 + 50	1.52	1.89	2.65	2.65	3.79	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
	20 + 25 + 35 + 35 + 60	1.43	1.79	2.50	2.50	4.29	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 25 + 35 + 50 + 50	1.39	1.74	2.43	3.47	3.47	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 25 + 35 + 50 + 60	1.32	1.64	2.30	3.29	3.95	-	5.1	12.5	13.5	1210	4270	4800	19.4	18.6	17.8

Indoor	unit				Cooling	g capac	ity (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	cooling	capaci	tv (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
<u> </u>	20 + 25 + 50 + 50 + 50	1.28	1.60	3.21	3.21	3.21	-	5.1	12.5	13.5	1210	4270	4800	19.4	18.6	17.8
	20 + 35 + 35 + 35 + 35	1.56	2.73	2.73	2.73	2.73	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	20 + 35 + 35 + 35 + 50	1.43	2.50	2.50	2.50	3.57	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 35 + 35 + 35 + 60	1.35	2.36	2.36	2.36	4.05	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	20 + 35 + 35 + 50 + 50	1.32	2.30	2.30	3.29	3.29	-	5.1	12.5	13.5	1210	4270	4800	19.4	18.6	17.8
	25 + 25 + 25 + 25 + 25	2.50	2.50	2.50	2.50	2.50	-	5.1	12.5	13.5	1210	4330	4800	19.7	18.8	18.1
	25 + 25 + 25 + 25 + 35	2.31	2.31	2.31	2.31	3.24	-	5.1	12.5	13.5	1210	4320	4800	19.7	18.8	18.0
	25 + 25 + 25 + 25 + 50	2.08	2.08	2.08	2.08	4.17	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	25 + 25 + 25 + 25 + 60	1.95	1.95	1.95	1.95	4.69	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	25 + 25 + 25 + 35 + 35	2.16	2.16	2.16	3.02	3.02	-	5.1	12.5	13.5	1210	4310	4800	19.6	18.8	18.0
	25 + 25 + 25 + 35 + 50	1.95	1.95	1.95	2.73	3.91	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	25 + 25 + 25 + 35 + 60	1.84	1.84	1.84	2.57	4.41	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
5	25 + 25 + 25 + 50 + 50	1.79	1.79	1.79	3.57	3.57	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
room	25 + 25 + 25 + 50 + 60	1.69	1.69	1.69	3.38	4.05	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	25 + 25 + 25 + 60 + 60	1.60	1.60	1.60	3.85	3.85	-	5.1	12.5	13.5	1210	4270	4800	19.4	18.6	17.8
	25 + 25 + 35 + 35 + 35	2.02	2.02	2.82	2.82	2.82	-	5.1	12.5	13.5	1210	4300	4800	19.6	18.7	17.9
	25 + 25 + 35 + 35 + 50	1.84	1.84	2.57	2.57	3.68	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
	25 + 25 + 35 + 35 + 60	1.74	1.74	2.43	2.43	4.17	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	25 + 25 + 35 + 50 + 50	1.69	1.69	2.36	3.38	3.38	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	25 + 25 + 35 + 50 + 60	1.60	1.60	2.24	3.21	3.85	-	5.1	12.5	13.5	1210	4270	4800	19.4	18.6	17.8
	25 + 35 + 35 + 35 + 35	1.89	2.65	2.65	2.65	2.65	-	5.1	12.5	13.5	1210	4290	4800	19.5	18.7	17.9
	25 + 35 + 35 + 35 + 50	1.74	2.43	2.43	2.43	3.47	-	5.1	12.5	13.5	1210	4280	4800	19.5	18.6	17.9
	25 + 35 + 35 + 35 + 60	1.64	2.30	2.30	2.30	3.95	-	5.1	12.5	13.5	1210	4270	4800	19.4	10.0	17.0
	25 + 35 + 35 + 30 + 30	2.50	2.24	2.24	3.21	3.21	-	5.1	12.5	10.0	1210	4270	4000	19.4	10.0	17.0
	35 + 35 + 35 + 35 + 35 + 50	2.00	2.30	2.30	2.30	2.00	-	5.1	12.0	12.5	1210	4200	4800	19.5	10.0	17.9
	20 + 20 + 20 + 20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	2.00	2.00	5.5	12.0	13.8	1280	3660	4620	16.7	15.9	15.3
	20 + 20 + 20 + 20 + 20 + 20 + 25	2.00	2.00	2.00	2.00	2.00	2.50	5.5	12.5	14.0	1280	3900	4800	17.7	17.0	16.3
33 33 20 20 20 20 20 20 20 20 20 20	20 + 20 + 20 + 20 + 20 + 20 + 35	1.85	1.85	1.85	1.85	1.85	3.24	5.5	12.5	14.0	1280	3890	4800	17.7	16.9	16.2
	20 + 20 + 20 + 20 + 20 + 50 20 + 20 + 20 + 20 + 50	1.67	1.67	1.67	1.67	1.67	4.17	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	20 + 20 + 20 + 20 + 20 + 60	1.56	1.56	1.56	1.56	1.56	4.69	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	20 + 20 + 20 + 20 + 25 + 25	1.92	1.92	1.92	1.92	2.40	2.40	5.5	12.5	14.0	1280	3900	4800	17.7	17.0	16.3
	20 + 20 + 20 + 20 + 25 + 35	1.79	1.79	1.79	1.79	2.23	3.13	5.5	12.5	14.0	1280	3880	4800	17.7	16.9	16.2
	20 + 20 + 20 + 20 + 25 + 50	1.61	1.61	1.61	1.61	2.02	4.03	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	20 + 20 + 20 + 20 + 25 + 60	1.52	1.52	1.52	1.52	1.89	4.55	5.5	12.5	14.0	1280	3850	4800	17.5	16.8	16.1
	20 + 20 + 20 + 20 + 35 + 35	1.67	1.67	1.67	1.67	2.92	2.92	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	20 + 20 + 20 + 20 + 35 + 50	1.52	1.52	1.52	1.52	2.65	3.79	5.5	12.5	14.0	1280	3850	4800	17.5	16.8	16.1
	20 + 20 + 20 + 20 + 35 + 60	1.43	1.43	1.43	1.43	2.50	4.29	5.5	12.5	14.0	1280	3830	4800	17.4	16.7	16.0
	20 + 20 + 20 + 20 + 50 + 50	1.39	1.39	1.39	1.39	3.47	3.47	5.5	12.5	14.0	1280	3820	4800	17.4	16.6	15.9
	20 + 20 + 20 + 20 + 50 + 60	1.32	1.32	1.32	1.32	3.29	3.95	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
room	20 + 20 + 20 + 25 + 25 + 25	1.85	1.85	1.85	2.31	2.31	2.31	5.5	12.5	14.0	1280	3890	4800	17.7	16.9	16.2
	20 + 20 + 20 + 25 + 25 + 35	1.72	1.72	1.72	2.16	2.16	3.02	5.5	12.5	14.0	1280	3870	4800	17.6	16.8	16.1
	20 + 20 + 20 + 25 + 25 + 50	1.56	1.56	1.56	1.95	1.95	3.91	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	20 + 20 + 20 + 25 + 25 + 60	1.47	1.47	1.47	1.84	1.84	4.41	5.5	12.5	14.0	1280	3840	4800	17.5	16.7	16.0
	20 + 20 + 20 + 25 + 35 + 35	1.61	1.61	1.61	2.02	2.82	2.82	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	20 + 20 + 20 + 25 + 35 + 50	1.47	1.47	1.47	1.84	2.57	3.68	5.5	12.5	14.0	1280	3840	4800	17.5	16.7	16.0
	20 + 20 + 20 + 25 + 35 + 60	1.39	1.39	1.39	1.74	2.43	4.17	5.5	12.5	14.0	1280	3820	4800	17.4	16.6	15.9
	20 + 20 + 20 + 25 + 50 + 50	1.35	1.35	1.35	1.69	3.38	3.38	5.5	12.5	14.0	1280	3810	4800	17.3	16.6	15.9
	20 + 20 + 20 + 25 + 50 + 60	1.28	1.28	1.28	1.60	3.21	3.85	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 20 + 20 + 35 + 35 + 35	1.52	1.52	1.52	2.65	2.65	2.65	5.5	12.5	14.0	1280	3850	4800	17.5	16.8	16.1
	20 + 20 + 20 + 35 + 35 + 50	1.39	1.39	1.39	2.43	2.43	3.47	5.5	12.5	14.0	1280	3820	4800	17.4	16.6	15.9
	20 + 20 + 20 + 35 + 35 + 60	1.32	1.32	1.32	2.30	2.30	3.95	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 20 + 20 + 35 + 50 + 50	1.28	1.28	1.28	2.24	3.21	3.21	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 20 + 25 + 25 + 25 + 25	1.79	1.79	2.23	2.23	2.23	2.23	5.5	12.5	14.0	1280	3880	4800	17.7	16.9	16.2
1	20 + 20 + 25 + 25 + 25 + 35	1.6/	1.6/	2.08	2.08	2.08	2.92	5.5	1 12.5	14.0	1280	3860	4800	17.6	16.8	16.1

Indoor	unit				Cooling	g capac	ity (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	cooling	capacit	ty (kW)		Total	capacity	/ (kW)		Ohenderd	Max	0001/	0001/	04014
		Α	В	С	D	Е	F	Min.	Standard	Max.	Min.	Standard	wax.	2200	2300	2400
	20 + 20 + 25 + 25 + 25 + 50	1.52	1.52	1.89	1.89	1.89	3.79	5.5	12.5	14.0	1280	3850	4800	17.5	16.8	16.1
	20 + 20 + 25 + 25 + 25 + 60	1.43	1.43	1.79	1.79	1.79	4.29	5.5	12.5	14.0	1280	3830	4800	17.4	16.7	16.0
	20 + 20 + 25 + 25 + 35 + 35	1.56	1.56	1.95	1.95	2.73	2.73	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	20 + 20 + 25 + 25 + 35 + 50	1.43	1.43	1.79	1.79	2.50	3.57	5.5	12.5	14.0	1280	3830	4800	17.4	16.7	16.0
	20 + 20 + 25 + 25 + 35 + 60	1.35	1.35	1.69	1.69	2.36	4.05	5.5	12.5	14.0	1280	3810	4800	17.3	16.6	15.9
	20 + 20 + 25 + 25 + 50 + 50	1.32	1.32	1.64	1.64	3.29	3.29	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 20 + 25 + 35 + 35 + 35	1.47	1.47	1.84	2.57	2.57	2.57	5.5	12.5	14.0	1280	3840	4800	17.5	16.7	16.0
	20 + 20 + 25 + 35 + 35 + 50	1.35	1.35	1.69	2.36	2.36	3.38	5.5	12.5	14.0	1280	3810	4800	17.3	16.6	15.9
	20 + 20 + 25 + 35 + 35 + 60	1.28	1.28	1.60	2.24	2.24	3.85	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 20 + 35 + 35 + 35 + 35	1.39	1.39	2.43	2.43	2.43	2.43	5.5	12.5	14.0	1280	3820	4800	17.4	16.6	15.9
	20 + 20 + 35 + 35 + 35 + 50	1.28	1.28	2.24	2.24	2.24	3.21	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 25 + 25 + 25 + 25 + 25	1.72	2.16	2.16	2.16	2.16	2.16	5.5	12.5	14.0	1280	3870	4800	17.6	16.8	16.1
	20 + 25 + 25 + 25 + 25 + 35	1.61	2.02	2.02	2.02	2.02	2.82	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	20 + 25 + 25 + 25 + 25 + 50	1.47	1.84	1.84	1.84	1.84	3.68	5.5	12.5	14.0	1280	3840	4800	17.5	16.7	16.0
6	20 + 25 + 25 + 25 + 25 + 60	1.39	1.74	1.74	1.74	1.74	4.17	5.5	12.5	14.0	1280	3820	4800	17.4	16.6	15.9
	20 + 25 + 25 + 25 + 35 + 35	1.52	1.89	1.89	1.89	2.65	2.65	5.5	12.5	14.0	1280	3850	4800	17.5	16.8	16.1
6 room	20 + 25 + 25 + 25 + 35 + 50	1.39	1.74	1.74	1.74	2.43	3.47	5.5	12.5	14.0	1280	3820	4800	17.4	16.6	15.9
	20 + 25 + 25 + 25 + 35 + 60	1.32	1.64	1.64	1.64	2.30	3.95	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 25 + 25 + 25 + 50 + 50	1.28	1.60	1.60	1.60	3.21	3.21	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 25 + 25 + 35 + 35 + 35	1.43	1.79	1.79	2.50	2.50	2.50	5.5	12.5	14.0	1280	3830	4800	17.4	16.7	16.0
	20 + 25 + 25 + 35 + 35 + 50	1.32	1.64	1.64	2.30	2.30	3.29	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	20 + 25 + 35 + 35 + 35 + 35	1.35	1.69	2.36	2.36	2.36	2.36	5.5	12.5	14.0	1280	3810	4800	17.3	16.6	15.9
	20 + 35 + 35 + 35 + 35 + 35	1.28	2.24	2.24	2.24	2.24	2.24	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	25 + 25 + 25 + 25 + 25 + 25	2.08	2.08	2.08	2.08	2.08	2.08	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	25 + 25 + 25 + 25 + 25 + 35	1.95	1.95	1.95	1.95	1.95	2.73	5.5	12.5	14.0	1280	3860	4800	17.6	16.8	16.1
	25 + 25 + 25 + 25 + 25 + 50	1.79	1.79	1.79	1.79	1.79	3.57	5.5	12.5	14.0	1280	3830	4800	17.4	16.7	16.0
-	25 + 25 + 25 + 25 + 25 + 60	1.69	1.69	1.69	1.69	1.69	4.05	5.5	12.5	14.0	1280	3810	4800	17.3	16.6	15.9
	25 + 25 + 25 + 25 + 35 + 35	1.84	1.84	1.84	1.84	2.57	2.57	5.5	12.5	14.0	1280	3840	4800	17.5	16.7	16.0
	25 + 25 + 25 + 25 + 35 + 50	1.69	1.69	1.69	1.69	2.36	3.38	5.5	12.5	14.0	1280	3810	4800	17.3	16.6	15.9
	25 + 25 + 25 + 25 + 35 + 60	1.60	1.60	1.60	1.60	2.24	3.85	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	25 + 25 + 25 + 35 + 35 + 35	1.74	1.74	1.74	2.43	2.43	2.43	5.5	12.5	14.0	1280	3820	4800	17.4	16.6	15.9
	25 + 25 + 25 + 35 + 35 + 50	1.60	1.60	1.60	2.24	2.24	3.21	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8
	25 + 25 + 35 + 35 + 35 + 35	1.64	1.64	2.30	2.30	2.30	2.30	5.5	12.5	14.0	1280	3800	4800	17.3	16.5	15.8

Indoor	unit				Heating	g capaci	ty (kW)				Power	consumpt	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)						
		A	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20	3.0	-	-	-	-	-	1.5	3.0	3.7	700	1010	1330	4.6	4.4	4.3
	25	3.4	-	-	-	-	-	1.5	3.4	4.2	700	1150	1540	5.3	5.1	4.8
1 room	35	4.5	-	-	-	-	-	1.5	4.5	5.0	700	1540	1840	7.1	6.8	6.5
100111	50	5.8	-	-	-	-	-	1.5	5.8	6.5	700	2000	2410	9.2	8.8	8.4
	60	6.8	-	-	-	-	-	1.5	6.8	7.5	700	2360	2760	10.8	10.4	9.9
	20 + 20	3.00	3.00	-	-	-	-	2.1	6.0	7.4	750	1510	1460	6.9	6.6	6.4
	20 + 25	2.84	3.56	-	-	-	-	2.1	6.4	7.9	750	1630	2210	7.5	7.2	6.9
	20 + 35	2.73	4.77	-	-	-	-	2.1	7.5	8.7	750	1950	2520	9.0	8.6	8.2
	20 + 50	2.51	6.29	-	-	-	-	2.1	8.8	10.2	750	2380	3220	10.9	10.5	10.0
	20 + 60	2.45	7.35	-	-	-	-	2.1	9.8	11.2	750	2780	3620	12.8	12.2	11.7
	25 + 25	3.40	3.40	-	-	-	-	2.1	6.8	8.4	750	1740	2420	8.0	7.6	7.3
2	25 + 35	3.29	4.01	-	-	-	-	2.1	7.9	9.2	750	2100	2620	9.0	9.2	0.0
room	25 + 50	3.07	7.20	-	-	-	-	2.1	9.2	11.7	750	2080	3010	12.7	12.1	10.9
	$25 \pm 00$	4 50	4.50	-	-	-	-	2.1	9.0	10.0	750	2300	3210	11.3	10.8	10.4
	35 + 50	4 24	6.06	-	-	-	-	21	10.3	11.5	750	2980	3710	13.7	13.1	12.5
	35 + 60	4.16	7.14	-	-	-	-	2.1	11.3	12.5	750	3350	4320	15.4	14.7	14.1
	50 + 50	5.80	5.80	-	-	-	-	2.1	11.6	13.0	750	3590	4620	16.5	15.8	15.1
	50 + 60	5.73	6.87	-	-	-	-	2.1	12.6	14.0	750	4010	5230	18.4	17.6	16.9
	60 + 60	6.75	6.75	-	-	-	-	2.1	13.5	14.0	750	4450	5230	20.4	19.5	18.7
	20 + 20 + 20	3.00	3.00	3.00	-	-	-	3.2	9.0	11.1	780	2230	3350	10.2	9.8	9.4
	20 + 20 + 25	2.89	2.89	3.62	-	-	-	3.2	9.4	11.6	780	2350	3550	10.8	10.3	9.9
	20 + 20 + 35	2.80	2.80	4.90	-	-	-	3.2	10.5	12.4	780	2710	3820	12.4	11.9	11.4
	20 + 20 + 50	2.62	2.62	6.56	-	-	-	3.2	11.8	13.9	780	3210	4290	14.7	14.1	13.5
2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 + 20 + 60	2.56	2.56	7.68	-	-	-	3.2	12.8	14.0	780	3620	4350	16.6	15.9	15.2
	20 + 25 + 25	2.80	3.50	3.50	-	-	-	3.2	9.8	12.1	780	2510	3720	11.5	11.0	10.6
	20 + 25 + 35	2.73	3.41	4.77	-	-	-	3.2	10.9	12.9	780	2910	3990	13.4	12.8	12.2
	20 + 25 + 50	2.57	3.21	6.42	-	-	-	3.2	12.2	14.0	780	3410	4350	15.7	15.0	14.4
	20 + 25 + 60	2.51	3.14	7.54	-	-	-	3.2	13.2	14.0	780	3910	4350	18.0	17.2	16.5
	20 + 35 + 35	2.67	4.67	4.67	-	-	-	3.2	12.0	13.7	780	3390	4220	15.6	14.9	14.3
	20 + 35 + 50	2.53	4.43	6.33	-	-	-	3.2	13.3	14.0	780	3900	4350	17.9	17.1	16.4
	20 + 35 + 60	2.35	4.11	7.04	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	20 + 50 + 50	2.25	5.03	5.03	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.0	17.0
	$20 \pm 60 \pm 60$	1.93	5.79	5.79	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.0	17.0
	20 + 00 + 00 25 + 25 + 25	3.40	3.40	3.40	-	-	_	3.2	10.2	12.6	780	2710	3880	12.4	11.0	11.0
	25 + 25 + 35	3.32	3.32	4 65	-	-	-	3.2	11.3	13.4	780	3110	4120	14.3	13.7	13.1
3	25 + 25 + 50	3.15	3.15	6.30	-	-	-	3.2	12.6	14.0	780	3620	4350	16.6	15.9	15.2
room	25 + 25 + 60	3.07	3.07	7.36	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	25 + 35 + 35	3.26	4.57	4.57	-	-	-	3.2	12.4	14.0	780	3710	4350	17.0	16.3	15.6
	25 + 35 + 50	3.07	4.30	6.14	-	-	-	3.2	13.5	14.0	780	4060	4350	18.6	17.8	17.1
	25 + 35 + 60	2.81	3.94	6.75	-	-	-	3.2	13.5	14.0	780	4060	4350	18.6	17.8	17.1
	25 + 50 + 50	2.70	5.40	5.40	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	25 + 50 + 60	2.50	5.00	6.00	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	25 + 60 + 60	2.33	5.59	5.59	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	35 + 35 + 35	4.50	4.50	4.50	-	-	-	3.2	13.5	14.0	780	4060	4350	18.6	17.8	17.1
	35 + 35 + 50	3.94	3.94	5.63	-	-	-	3.2	13.5	14.0	780	4060	4350	18.6	17.8	17.1
	35 + 35 + 60	3.63	3.63	6.23	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	35 + 50 + 50	3.50	5.00	5.00	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	35 + 50 + 60	3.26	4.66	5.59	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	35 + 60 + 60	3.05	5.23	5.23	-	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0
	50 + 50 + 50	4.50	4.50	4.50	-	-	-	3.2	13.5	14.0	780	4040	4350	10.5	17.7	17.0
	$50 \pm 60 \pm 60$	4.22	4.22	J.00	_	-	_	3.2	13.5	14.0	780	4040	4350	18.5	17.7	17.0
	60 + 60 + 60	4.50	4.50	4.50	-	-	-	3.2	13.5	14.0	780	4030	4350	18.5	17.7	17.0

Indoor	unit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)						
		A	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 20 + 20 + 20	3.00	3.00	3.00	3.00	-	-	3.6	12.0	14.0	950	3210	3920	14.6	14.0	13.4
	20 + 20 + 20 + 25	2.92	2.92	2.92	3.65	-	-	3.6	12.4	14.0	950	3390	3920	15.4	14.8	14.1
	20 + 20 + 20 + 35	2.84	2.84	2.84	4.97	-	-	3.6	13.5	14.0	950	3700	3920	16.8	16.1	15.4
	20 + 20 + 20 + 50	2.45	2.45	2.45	6.14	-	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4
	20 + 20 + 20 + 60	2.25	2.25	2.25	6.75	-	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4
	20 + 20 + 25 + 25	2.84	2.84	3.56	3.56	-	-	3.6	12.8	14.0	950	3440	3920	15.7	15.0	14.3
	20 + 20 + 25 + 35	2.70	2.70	3.38	4.73	-	-	3.6	13.5	14.0	950	3700	3920	16.8	16.1	15.4
	20 + 20 + 25 + 50	2.35	2.35	2.93	5.87	-	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4
	20 + 20 + 25 + 60	2.16	2.16	2.70	6.48	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	20 + 20 + 35 + 35	2.45	2.45	4.30	4.30	-	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4
	20 + 20 + 35 + 50	2.16	2.16	3.78	5.40	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	20 + 20 + 35 + 60	2.00	2.00	3.50	6.00	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	20 + 20 + 50 + 50	1.93	1.93	4.82	4.82	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	20 + 20 + 50 + 60	1.80	1.80	4.50	5.40	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	20 + 20 + 60 + 60	1.69	1.69	5.06	5.06	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	20 + 25 + 25 + 25	2.78	3.47	3.47	3.47	-	-	3.6	13.2	14.0	950	3550	3920	16.2	15.5	14.8
	20 + 25 + 25 + 35	2.57	3.21	3.21	4.50	-	-	3.6	13.5	14.0	950	3700	3920	16.8	16.1	15.4
	20 + 25 + 25 + 50	2.25	2.81	2.81	5.63	-	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4
	20 + 25 + 25 + 60	2.08	2.60	2.60	6.23	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	20 + 25 + 35 + 35	2.35	2.93	4.11	4.11	-	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4
	20 + 25 + 35 + 50	2.08	2.60	3.63	5.19	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	20 + 25 + 35 + 60	1.93	2.41	3.38	5.79	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	20 + 25 + 50 + 50	1.86	2.33	4.66	4.66	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	20 + 25 + 50 + 60	1.74	2.18	4.35	5.23	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	20 + 25 + 60 + 60	1 64	2.05	4.91	4.91	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	20 + 35 + 35 + 35	2 16	3.78	3.78	3.78	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	20 + 35 + 35 + 50	1.93	3.38	3.38	4.82	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 + 35 + 35 + 60	1.80	3.15	3.15	5.40	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
room	20 + 35 + 50 + 50	1.74	3.05	4.35	4.35	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	20 + 35 + 50 + 60	1.64	2.86	4.09	4.91	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	20 + 35 + 60 + 60	1.54	2.70	4.63	4.63	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	20 + 50 + 50 + 50	1.59	3.97	3.97	3.97	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	20 + 50 + 50 + 60	1.50	3.75	3.75	4.50	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	20 + 50 + 60 + 60	1.42	3.55	4.26	4.26	-	-	3.6	13.5	14.0	950	3650	3920	16.6	15.9	15.2
	25 + 25 + 25 + 25	3.38	3.38	3.38	3.38	-	-	3.6	13.5	14.0	950	3700	3920	16.8	16.1	15.4
	25 + 25 + 25 + 35	3.07	3.07	3.07	4.30	-	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4
	25 + 25 + 25 + 50	2.70	2.70	2.70	5.40	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	25 + 25 + 25 + 60	2.50	2.50	2.50	6.00	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	25 + 25 + 35 + 35	2.81	2.81	3.94	3.94	-	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4
	25 + 25 + 35 + 50	2.50	2.50	3.50	5.00	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	25 + 25 + 35 + 60	2.33	2.33	3.26	5.59	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	25 + 25 + 50 + 50	2.25	2.25	4.50	4.50	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	25 + 25 + 50 + 60	2.11	2.11	4.22	5.06	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	25 + 25 + 60 + 60	1.99	1.99	4.76	4.76	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	25 + 35 + 35 + 35	2.60	3.63	3.63	3.63	-	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3
	25 + 35 + 35 + 50	2.33	3.26	3.26	4.66	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
-	25 + 35 + 35 + 60	2.18	3.05	3.05	5.23	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	25 + 35 + 50 + 50	2.11	2.95	4.22	4.22	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	25 + 35 + 50 + 60	1.99	2.78	3.97	4.76	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	25 + 35 + 60 + 60	1.88	2.63	4.50	4.50	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	25 + 50 + 50 + 50	1.93	3.86	3.86	3.86	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	25 + 50 + 50 + 60	1.82	3.65	3.65	4.38	-	-	3.6	13.5	14.0	950	3650	3920	16.6	15.9	15.2
	25 + 50 + 60 + 60	1.73	3.46	4.15	4.15	-	-	3.6	13.5	14.0	950	3650	3920	16.6	15.9	15.2
	35 + 35 + 35 + 35	3.38	3.38	3.38	3.38	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3
	35 + 35 + 35 + 50	3.05	3.05	3.05	4.35	-	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3

Indoor	upit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capacit	ty (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	35 + 35 + 35 + 60	2.86	2.86	2.86	4.91	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
	35 + 35 + 50 + 50	2.78	2.78	3.97	3.97	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
4	35 + 35 + 50 + 60	2.63	2.63	3.75	4.50	-	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3
room	35 + 35 + 60 + 60	2.49	2.49	4.26	4.26	-	-	3.6	13.5	14.0	950	3650	3920	16.6	15.9	15.2
	35 + 50 + 50 + 50	2.55	3.65	3.65	3.65	-	-	3.6	13.5	14.0	950	3650	3920	16.6	15.9	15.2
	35 + 50 + 50 + 60	2.42	3.46	3.46	4.15	-	-	3.6	13.5	14.0	950	3650	3920	16.6	15.9	15.2
	20 + 20 + 20 + 20 + 20	2.70	2.70	2.70	2.70	2.70	-	4.0	13.5	14.0	1050	3380	3470	15.4	14.7	14.1
	20 + 20 + 20 + 20 + 25	2.57	2.57	2.57	2.57	3.21	-	4.0	13.5	14.0	1050	3380	3470	15.4	14.7	14.1
	20 + 20 + 20 + 20 + 35	2.35	2.35	2.35	2.35	4.11	-	4.0	13.5	14.0	1050	3370	3470	15.3	14.7	14.1
	20 + 20 + 20 + 20 + 50	2.08	2.08	2.08	2.08	5.19	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.6	14.0
	20 + 20 + 20 + 20 + 60	1.93	1.93	1.93	1.93	5.79	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.6	14.0
	20 + 20 + 20 + 25 + 25	2.45	2.45	2.45	3.07	3.07	-	4.0	13.5	14.0	1050	3380	3470	15.4	14.7	14.1
	20 + 20 + 20 + 25 + 35	2.25	2.25	2.25	2.81	3.94	-	4.0	13.5	14.0	1050	3370	3470	15.3	14.7	14.1
	20 + 20 + 20 + 20 + 25 + 50	2.00	2.00	2.00	2.50	5.00	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.0	14.0
	20 + 20 + 20 + 20 + 25 + 35	2.08	2.08	2.08	2.00	3.63	-	4.0	13.5	14.0	1050	3360	3470	15.2	14.0	14.0
	$20 \pm 20 \pm 20 \pm 35 \pm 50$	1.86	1.86	1.86	3.26	4.66	-	4.0	13.5	14.0	1050	3350	3470	15.0	14.6	14.0
	20 + 20 + 20 + 35 + 60	1.00	1.00	1.00	3.05	5.23	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	20 + 20 + 20 + 50 + 50	1.69	1.69	1.69	4.22	4.22	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 20 + 20 + 50 + 60	1.59	1.59	1.59	3.97	4.76	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 20 + 20 + 60 + 60	1.50	1.50	1.50	4.50	4.50	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	20 + 20 + 25 + 25 + 25	2.35	2.35	2.93	2.93	2.93	-	4.0	13.5	14.0	1050	3370	3470	15.3	14.7	14.1
	20 + 20 + 25 + 25 + 35	2.16	2.16	2.70	2.70	3.78	-	4.0	13.5	14.0	1050	3370	3470	15.3	14.7	14.1
	20 + 20 + 25 + 25 + 50	1.93	1.93	2.41	2.41	4.82	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.6	14.0
	20 + 20 + 25 + 25 + 60	1.80	1.80	2.25	2.25	5.40	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	20 + 20 + 25 + 35 + 35	2.00	2.00	2.50	3.50	3.50	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.6	14.0
	20 + 20 + 25 + 35 + 50	1.80	1.80	2.25	3.15	4.50	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	20 + 20 + 25 + 35 + 60	1.69	1.69	2.11	2.95	5.06	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 20 + 25 + 50 + 50	1.64	1.64	2.05	4.09	4.09	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
5	20 + 20 + 25 + 50 + 60	1.54	1.54	1.93	3.86	4.63	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
room	20 + 20 + 25 + 60 + 60	1.46	1.46	1.82	4.38	4.38	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	20 + 20 + 35 + 35 + 35	1.86	1.86	3.26	3.26	3.26	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	20 + 20 + 35 + 35 + 50	1.69	1.69	2.95	2.95	4.22	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 20 + 35 + 35 + 60	1.59	1.59	2.78	2.78	4.76	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 20 + 35 + 50 + 50	1.54	1.54	2.70	3.86	3.86	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 20 + 35 + 50 + 60	1.40	1.40	2.55	3.65	4.38	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	20 + 20 + 35 + 60 + 60	1.38	1.38	2.42	4.15	4.15	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	$20 \pm 20 \pm 30 \pm 30 \pm 30$	2.25	2.81	2.81	2.81	2.00	-	4.0	13.5	14.0	1050	3370	3470	15.1	14.4	14.1
	20 + 25 + 25 + 25 + 25 + 35	2.23	2.01	2.01	2.01	3.63	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.6	14.1
	20 + 25 + 25 + 25 + 50	1.86	2.33	2.33	2.33	4 66	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	20 + 25 + 25 + 25 + 60	1.00	2.18	2.00	2.00	5.23	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	20 + 25 + 25 + 35 + 35	1.93	2.41	2.41	3.38	3.38	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.6	14.0
	20 + 25 + 25 + 35 + 50	1.74	2.18	2.18	3.05	4.35	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	20 + 25 + 25 + 35 + 60	1.64	2.05	2.05	2.86	4.91	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 25 + 25 + 50 + 50	1.59	1.99	1.99	3.97	3.97	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 25 + 25 + 50 + 60	1.50	1.88	1.88	3.75	4.50	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	20 + 25 + 25 + 60 + 60	1.42	1.78	1.78	4.26	4.26	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	20 + 25 + 35 + 35 + 35	1.80	2.25	3.15	3.15	3.15	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	20 + 25 + 35 + 35 + 50	1.64	2.05	2.86	2.86	4.09	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 25 + 35 + 35 + 60	1.54	1.93	2.70	2.70	4.63	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 25 + 35 + 50 + 50	1.50	1.88	2.63	3.75	3.75	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	20 + 25 + 35 + 50 + 60	1.42	1.78	2.49	3.55	4.26	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	20 + 25 + 50 + 50 + 50	1.38	1.73	3.46	3.46	3.46	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	20 + 35 + 35 + 35 + 35	1.69	2.95	2.95	2.95	2.95	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9

Indoor	unit				Heating	g capaci	ity (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capaci	ty (kW)		Total	capacity	/ (kW)						
		Α	В	c	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 35 + 35 + 35 + 50	1.54	2.70	2.70	2.70	3.86	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 35 + 35 + 35 + 60	1.46	2.55	2.55	2.55	4.38	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	20 + 35 + 35 + 50 + 50	1.42	2.49	2.49	3.55	3.55	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 25	2.70	2.70	2.70	2.70	2.70	-	4.0	13.5	14.0	1050	3370	3470	15.3	14.7	14.1
	25 + 25 + 25 + 25 + 35	2.50	2.50	2.50	2.50	3.50	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.6	14.0
	25 + 25 + 25 + 25 + 50	2.25	2.25	2.25	2.25	4.50	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	25 + 25 + 25 + 25 + 60	2.11	2.11	2.11	2.11	5.06	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 25 + 25 + 35 + 35	2.33	2.33	2.33	3.26	3.26	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	25 + 25 + 25 + 35 + 50	2.11	2.11	2.11	2.95	4.22	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 25 + 25 + 35 + 60	1.99	1.99	1.99	2.78	4.76	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 25 + 25 + 50 + 50	1.93	1.93	1.93	3.86	3.86	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
5	25 + 25 + 25 + 50 + 60	1.82	1.82	1.82	3.65	4.38	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
room	25 + 25 + 25 + 60 + 60	1.73	1.73	1.73	4.15	4.15	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	25 + 25 + 35 + 35 + 35	2.18	2.18	3.05	3.05	3.05	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	25 + 25 + 35 + 35 + 50	1.99	1.99	2.78	2.78	3.97	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 25 + 35 + 35 + 60	1.88	1.88	2.63	2.63	4.50	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	25 + 25 + 35 + 50 + 50	1.82	1.82	2.55	3.65	3.65	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	25 + 25 + 35 + 50 + 60	1.73	1.73	2.42	3.46	4.15	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	25 + 35 + 35 + 35 + 35	2.05	2.86	2.86	2.86	2.86	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 35 + 35 + 35 + 50	1.88	2.63	2.63	2.63	3.75	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	25 + 35 + 35 + 35 + 60	1.78	2.49	2.49	2.49	4.26	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	23 + 33 + 35 + 50 + 50	1.73	2.42	2.42	3.40	3.40	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.0
	35 + 35 + 35 + 35 + 35	2.70	2.70	2.70	2.70	2.70	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	20 + 20 + 20 + 20 + 20 + 20	2.49	2.49	2.49	2.49	2.00	-	4.0	13.5	14.0	1150	3320	3470	1/ 9	14.4	12.6
	20 + 20 + 20 + 20 + 20 + 20 + 20	2.23	2.25	2.25	2.23	2.23	2.23	4.5	13.5	14.0	1150	3250	3420	14.0	14.2	13.6
3 3 2 2 2 2 2 2 2 2	20 + 20 + 20 + 20 + 20 + 20 + 25	2.10	2.10	2.10	2.10	2.10	3.50	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 20 + 20 + 20 + 20 + 20 + 50	1.80	1.80	1.80	1.80	1.80	4.50	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 20 + 20 + 20 + 20 + 20 + 60	1.69	1.69	1.69	1.69	1.69	5.06	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 20 + 20 + 25 + 25	2.08	2.08	2.08	2.08	2.60	2.60	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 20 + 20 + 20 + 20 + 25 + 35	1.93	1.93	1.93	1.93	2.41	3.38	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 20 + 20 + 20 + 25 + 50	1.74	1.74	1.74	1.74	2.18	4.35	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 20 + 25 + 60	1.64	1.64	1.64	1.64	2.05	4.91	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 20 + 35 + 35	1.80	1.80	1.80	1.80	3.15	3.15	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 20 + 20 + 20 + 35 + 50	1.64	1.64	1.64	1.64	2.86	4.09	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 20 + 35 + 60	1.54	1.54	1.54	1.54	2.70	4.63	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 20 + 20 + 50 + 50	1.50	1.50	1.50	1.50	3.75	3.75	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 20 + 20 + 50 + 60	1.42	1.42	1.42	1.42	3.55	4.26	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 20 + 25 + 25 + 25	2.00	2.00	2.00	2.50	2.50	2.50	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
6 room	20 + 20 + 20 + 25 + 25 + 35	1.86	1.86	1.86	2.33	2.33	3.26	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 20 + 20 + 25 + 25 + 50	1.69	1.69	1.69	2.11	2.11	4.22	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 25 + 25 + 60	1.59	1.59	1.59	1.99	1.99	4.76	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 25 + 35 + 35	1.74	1.74	1.74	2.18	3.05	3.05	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 25 + 35 + 50	1.59	1.59	1.59	1.99	2.78	3.97	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 25 + 35 + 60	1.50	1.50	1.50	1.88	2.63	4.50	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 20 + 25 + 50 + 50	1.46	1.46	1.46	1.82	3.65	3.65	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 20 + 25 + 50 + 60	1.38	1.38	1.38	1.73	3.46	4.15	4.5	13.5	14.0	1150	3220	3420	14.7	14.0	13.4
	20 + 20 + 20 + 35 + 35 + 35	1.64	1.64	1.64	2.86	2.86	2.86	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 20 + 35 + 35 + 50	1.50	1.50	1.50	2.63	2.63	3.75	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 20 + 35 + 35 + 60	1.42	1.42	1.42	2.49	2.49	4.26	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 20 + 35 + 50 + 50	1.38	1.38	1.38	2.42	3.46	3.46	4.5	13.5	14.0	1150	3220	3420	14.7	14.0	13.4
	20 + 20 + 25 + 25 + 25 + 25	1.93	1.93	2.41	2.41	2.41	2.41	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 20 + 25 + 25 + 25 + 35	1.80	1.80	2.25	2.25	2.25	3.15	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 20 + 25 + 25 + 25 + 50	1.64	1.64	2.05	2.05	2.05	4.09	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
1	20 + 20 + 25 + 25 + 25 + 60	1.54	1.54	1.93	1.93	1.93	4.63	4.5	13.5	14.0	11150	3230	3420	14.7	14.1	13.5

Indoor	unit				Heating	g capac	ity (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capaci	ty (kW)		Total	capacity	/ (kW)		0		0001/	0001/	0.4014
		Α	В	С	D	Е	F	Min.	Standard	Max.	win.	Standard	Max.	2200	2300	240V
	20 + 20 + 25 + 25 + 35 + 35	1.69	1.69	2.11	2.11	2.95	2.95	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 25 + 25 + 35 + 50	1.54	1.54	1.93	1.93	2.70	3.86	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 25 + 25 + 35 + 60	1.46	1.46	1.82	1.82	2.55	4.38	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 25 + 25 + 50 + 50	1.42	1.42	1.78	1.78	3.55	3.55	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 25 + 35 + 35 + 35	1.59	1.59	1.99	2.78	2.78	2.78	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 20 + 25 + 35 + 35 + 50	1.46	1.46	1.82	2.55	2.55	3.65	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 25 + 35 + 35 + 60	1.38	1.38	1.73	2.42	2.42	4.15	4.5	13.5	14.0	1150	3220	3420	14.7	14.0	13.4
	20 + 20 + 35 + 35 + 35 + 35	1.50	1.50	2.63	2.63	2.63	2.63	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 20 + 35 + 35 + 35 + 50	1.38	1.38	2.42	2.42	2.42	3.46	4.5	13.5	14.0	1150	3220	3420	14.7	14.0	13.4
	20 + 25 + 25 + 25 + 25 + 25	1.86	2.33	2.33	2.33	2.33	2.33	4.5	13.5	14.0	1150	3250	3420	14.8	14.1	13.6
	20 + 25 + 25 + 25 + 25 + 35	1.74	2.18	2.18	2.18	2.18	3.05	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 25 + 25 + 25 + 25 + 50	1.59	1.99	1.99	1.99	1.99	3.97	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	20 + 25 + 25 + 25 + 25 + 60	1.50	1.88	1.88	1.88	1.88	4.50	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 25 + 25 + 25 + 35 + 35	1.64	2.05	2.05	2.05	2.86	2.86	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
6 room	20 + 25 + 25 + 25 + 35 + 50	1.50	1.88	1.88	1.88	2.63	3.75	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 25 + 25 + 25 + 35 + 60	1.42	1.78	1.78	1.78	2.49	4.26	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
100111	20 + 25 + 25 + 25 + 50 + 50	1.38	1.73	1.73	1.73	3.46	3.46	4.5	13.5	14.0	1150	3220	3420	14.7	14.0	13.4
	20 + 25 + 25 + 35 + 35 + 35	1.54	1.93	1.93	2.70	2.70	2.70	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 25 + 25 + 35 + 35 + 50	1.42	1.78	1.78	2.49	2.49	3.55	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 25 + 35 + 35 + 35 + 35	1.46	1.82	2.55	2.55	2.55	2.55	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	20 + 35 + 35 + 35 + 35 + 35	1.38	2.42	2.42	2.42	2.42	2.42	4.5	13.5	14.0	1150	3220	3420	14.7	14.0	13.4
	25 + 25 + 25 + 25 + 25 + 25	2.25	2.25	2.25	2.25	2.25	2.25	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	25 + 25 + 25 + 25 + 25 + 35	2.11	2.11	2.11	2.11	2.11	2.95	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	25 + 25 + 25 + 25 + 25 + 50	1.93	1.93	1.93	1.93	1.93	3.86	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	25 + 25 + 25 + 25 + 25 + 60	1.82	1.82	1.82	1.82	1.82	4.38	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	25 + 25 + 25 + 25 + 35 + 35	1.99	1.99	1.99	1.99	2.78	2.78	4.5	13.5	14.0	1150	3240	3420	14.7	14.1	13.5
	25 + 25 + 25 + 25 + 35 + 50	1.82	1.82	1.82	1.82	2.55	3.65	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	25 + 25 + 25 + 25 + 35 + 60	1.73	1.73	1.73	1.73	2.42	4.15	4.5	13.5	14.0	1150	3220	3420	14.7	14.0	13.4
	25 + 25 + 25 + 35 + 35 + 35	1.88	1.88	1.88	2.63	2.63	2.63	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5
	25 + 25 + 25 + 35 + 35 + 50	1.73	1.73	1.73	2.42	2.42	3.46	4.5	13.5	14.0	1150	3220	3420	14.7	14.0	13.4
	25 + 25 + 35 + 35 + 35 + 35	1.78	1.78	2.49	2.49	2.49	2.49	4.5	13.5	14.0	1150	3230	3420	14.7	14.1	13.5

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# (b) Indoor unit except SRK\*\*ZJX-S models only

Indoor	unit				Cooling	g capaci	ty (kW)				Power	consump	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)		Otomologia	Marr	0001/	0001/	0.401/
		Α	В	С	D	Е	F	Min.	Standard	Max.	Min.	Standard	wax.	2200	2300	240V
	20	2.0	-	-	-	-	-	1.8	2.0	2.7	650	780	1100	3.6	3.4	3.3
	25	2.5	-	-	-	-	-	1.8	2.5	3.2	650	1000	1350	4.6	4.4	4.2
1	35	3.5	-	-	-	-	-	1.8	3.5	3.7	650	1500	1600	6.9	6.6	6.3
room	50	5.0	-	-	-	-	-	1.8	5.0	5.8	650	2150	2500	9.9	9.4	9.0
	60	6.0	-	-	-	-	-	1.8	6.0	6.7	650	2720	3000	12.5	11.9	11.4
	71	7.1	-	-	-	-	-	1.8	7.1	7.2	650	3250	3080	14.9	14.3	13.7
	20 + 20	2.00	2.00	-	-	-	-	3.0	4.0	5.4	740	960	1460	4.4	4.2	4.0
	20 + 25	2.00	2.50	-	-	-	-	3.0	4.5	5.9	740	1100	1820	5.1	4.8	4.6
	20 + 35	2.00	3.50	-	-	-	-	3.0	5.5	6.4	740	1500	2020	6.9	6.6	6.3
	20 + 50	2.00	5.00	-	-	-	-	3.0	7.0	8.5	740	2290	2820	10.5	10.1	9.6
	20 + 60	2.00	6.00	-	-	-	-	3.0	8.0	9.4	740	2660	3360	12.2	11.7	11.2
	20 + 71	2.00	7.10	-	-	-	-	3.0	9.1	9.9	740	3100	3780	14.1	13.5	12.9
	25 + 25	2.50	2.50	-	-	-	-	3.0	5.0	6.8	740	1420	2200	6.5	6.2	6.0
	25 + 35	2.50	3.50	-	-	-	-	3.0	6.0	6.9	740	1810	2320	8.3	7.9	7.6
	25 + 50	2.50	5.00	-	-	-	-	3.0	7.5	9.0	740	2470	3220	11.3	10.8	10.4
2	25 + 60	2.50	6.00	-	-	-	-	3.0	8.5	9.4	740	2810	3360	12.9	12.3	11.8
room	25 + 71	2.53	7.17	-	-	-	-	3.0	9.7	10.4	740	3350	4020	15.4	14.7	14.1
	35 + 35	3.50	5.00	-	-	-	-	3.0	7.0	7.4	740	2290	2620	10.5	10.1	9.0
	35 + 60	3.50	6.00	-	-	-	-	3.0	0.5	9.J	740	2010	3020	15.1	14.4	12.9
	$35 \pm 71$	3.50	7.10	-	-	-	-	3.0	9.5	10.4	740	3760	4250	17.1	16.3	15.0
	50 + 50	5.00	5.00	-	-	-	-	3.0	10.0	10.8	740	3520	4050	16.2	15.5	14.8
	50 + 60	5.00	6.00	-	-	-	_	3.0	11.0	12.0	740	3870	4410	17.8	17.0	16.3
	50 + 71	4.96	7.04	-	-	-		3.0	12.0	12.0	740	4410	4410	20.0	19.2	18.4
5 5 6 6 7 2 2 2	60 + 60	6.00	6.00	-	-	-	_	3.0	12.0	12.0	740	4410	4410	20.2	19.4	18.6
	60 + 71	5.73	6.77	-	-	-	-	3.0	12.5	12.5	740	4710	4710	21.4	20.5	19.6
	71 + 71	6.25	6.25	-	-	-	-	3.0	12.5	12.5	740	4710	4710	21.2	20.3	19.4
	20 + 20 + 20	2.00	2.00	2.00	-	-	-	3.7	6.0	8.1	880	1530	2560	7.0	6.7	6.4
	20 + 20 + 25	2.00	2.00	2.50	-	-	-	3.7	6.5	8.6	880	1730	2700	7.9	7.6	7.3
	20 + 20 + 35	2.00	2.00	3.50	-	-	-	3.7	7.5	9.1	880	2080	3120	9.6	9.1	8.8
	20 + 20 + 50	2.00	2.00	5.00	-	-	-	3.7	9.0	11.2	880	2730	4120	12.5	12.0	11.5
	20 + 20 + 60	2.00	2.00	6.00	-	-	-	3.7	10.0	12.1	880	3280	4680	15.1	14.4	13.8
	20 + 20 + 71	2.00	2.00	7.10	-	-	-	3.7	11.1	12.6	880	3930	4710	18.0	17.3	16.5
	20 + 25 + 25	2.00	2.50	2.50	-	-	-	3.7	7.0	9.1	880	1940	3210	8.9	8.5	8.2
	20 + 25 + 35	2.00	2.50	3.50	-	-	-	3.7	8.0	9.6	880	2440	3450	11.2	10.7	10.3
	20 + 25 + 50	2.00	2.50	5.00	-	-	-	3.7	9.5	11.7	880	3130	4480	14.4	13.7	13.2
	20 + 25 + 60	2.00	2.50	6.00	-	-	-	3.7	10.5	12.6	880	3770	4800	17.3	16.6	15.9
	20 + 25 + 71	2.00	2.50	7.10	-	-	-	3.7	11.6	12.6	880	4210	4800	19.1	18.3	17.5
	20 + 35 + 35	2.00	3.50	3.50	-	-	-	3.7	9.0	10.1	880	2920	3850	13.4	12.8	12.3
	20 + 35 + 50	2.00	3.50	5.00	-	-	-	3.7	10.5	12.0	880	3770	4450	17.3	16.6	15.9
3 room	20 + 35 + 60	2.00	3.50	6.00	-	-	-	3.7	10.5	12.6	880	4150	4800	19.1	18.2	17.5
100111	20 + 50 + 50	2.00	5.00	5.00	-	-	-	4.7	12.0	12.0	990	4070	4800	21.2	10.5	19.5
	20 + 50 + 50	1.02	4.81	5.00		_		3.7	12.0	12.0	880	4670	4800	20.4	20.5	10.7
	$20 \pm 50 \pm 71$	1.52	4.01	6.29	-			3.7	12.5	12.0	881	4670	4800	21.4	20.5	19.7
	20 + 60 + 60	1 79	5.36	5.36	-	-	-	3.7	12.5	12.0	881	4670	4800	21.4	20.5	19.7
	20 + 60 + 71	1.66	4.97	5.88	-	-	-	3.7	12.5	12.6	881	4670	4800	21.4	20.5	19.7
	20 + 71 + 71	1.54	5.48	5.48	-	-	-	3.7	12.5	12.6	881	4660	4800	21.4	20.5	19.6
	25 + 25 + 25	2.50	2.50	2.50	-	-	-	3.7	7.5	9.6	880	2130	3640	9.8	9.4	9.0
	25 + 25 + 35	2.50	2.50	3.50	-	-	-	3.7	8.5	10.1	880	2650	3900	12.2	11.6	11.2
	25 + 25 + 50	2.50	2.50	5.00	-	-	-	3.7	10.0	12.6	880	3420	4800	15.7	15.0	14.4
	25 + 25 + 60	2.50	2.50	6.00	-	-	-	3.7	11.0	12.6	880	3910	4800	18.0	17.2	16.5
	25 + 25 + 71	2.58	2.58	7.33				3.7	12.5	12.6	880	4670	4800	21.2	20.3	19.5
	25 + 35 + 35	2.50	3.50	3.50	-	-	-	3.7	9.5	10.4	880	3130	3910	14.4	13.7	13.2
	25 + 35 + 50	2.50	3.50	5.00	-	-	-	3.7	11.0	12.6	880	3910	4800	18.0	17.2	16.5

Indooru	unit				Cooling	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combina	ation		Room	coolina	capacit	v (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	25 + 35 + 60	2.50	3.50	6.00	-	-	-	3.7	12.0	12.6	880	4440	4800	20.4	19.5	18.7
	25 + 35 + 71	2.39	3.34	6.77	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
	25 + 50 + 50	2.50	5.00	5.00	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
	25 + 50 + 60	2.31	4.63	5.56	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
	25 + 50 + 71	2.14	4.28	6.08	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
	25 + 60 + 60	2.16	5.17	5.17	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
	25 + 60 + 71	2.00	4.81	5.69	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
	25 + 71 + 71	1.87	5.31	5.31	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
	35 + 35 + 35	3.50	3.50	3.50	-	-	-	3.7	10.5	10.9	880	3770	4180	17.3	16.6	15.9
	35 + 35 + 50	3.50	3.50	5.00	-	-	-	3.7	12.0	12.6	880	4440	4800	20.4	19.5	18.7
	35 + 35 + 60	3.37	3.37	5.77	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
	35 + 35 + 71	3.10	3.10	6.29	-	-	-	3.7	12.5	12.6	880	4660	4800	21.2	20.3	19.4
3	35 + 50 + 50	3.24	4 63	4 63	-	-	-	3.7	12.5	12.6	880	4670	4800	21.4	20.5	19.7
room	35 + 50 + 60	3.02	4.31	5.17	-	-	-	3.7	12.5	12.6	880	4660	4800	21.4	20.5	19.6
	35 + 50 + 71	2.80	4.01	5.69	-	-	-	3.7	12.5	12.6	880	4660	4800	21.4	20.5	19.6
	35 + 60 + 60	2.82	4 84	4 84	-	-	-	3.7	12.5	12.6	880	4660	4800	21.4	20.5	19.6
	35 + 60 + 71	2.64	4.52	5.35	-	-	-	3.7	12.5	12.6	880	4660	4800	21.4	20.5	19.6
	35 + 71 + 71	2 47	5.01	5.01	-	-	-	3.7	12.5	12.6	880	4650	4800	21.3	20.4	19.6
	50 + 50 + 50	4 17	4 17	4 17	-	-	-	37	12.5	12.6	880	4660	4800	21.0	20.5	19.6
	50 + 50 + 60	3.91	3.91	4 69	-	-	-	37	12.5	12.0	880	4660	4800	21.4	20.5	19.6
	50 + 50 + 71	3.65	3.65	5 19	-	-	-	3.7	12.5	12.6	880	4650	4800	21.3	20.4	19.6
	50 + 60 + 60	3.68	4 4 1	4 4 1	-	-	-	3.7	12.5	12.0	880	4650	4800	21.3	20.4	19.6
	50 + 60 + 71	3.45	4 14	4 90	-	-	-	3.7	12.5	12.6	880	4650	4800	21.3	20.4	19.6
	$60 \pm 60 \pm 60$	4 17	4 17	4 17	-		-	3.7	12.5	12.6	880	4650	4800	21.3	20.4	19.6
	$60 \pm 60 \pm 71$	3.93	3.93	4.65	-	-	-	3.7	12.5	12.0	880	4650	4800	21.0	20.4	19.6
	$20 \pm 20 \pm 20 \pm 20$	2.00	2.00	2.00	2.00		-	4.4	8.0	10.8	1100	2110	3680	9.6	9.2	8.8
	20 + 20 + 20 + 20 + 25	2.00	2.00	2.00	2.50	-	-	4.4	8.5	11.3	1100	2390	3890	10.9	10.4	10.0
	20 + 20 + 20 + 20 + 35	2.00	2.00	2.00	3.50		-	4.4	9.5	11.8	1100	2900	4350	13.2	12.6	12.1
	20 + 20 + 20 + 50	2.00	2.00	2.00	5.00	-	-	44	11.0	12.8	1100	3580	4800	16.3	15.6	14.9
	20 + 20 + 20 + 60	2.00	2.00	2.00	6.00	-	-	44	12.0	12.0	1100	4100	4800	18.7	17.8	17.1
	20 + 20 + 20 + 20 + 71	1.00	1.00	1.00	6.77	-	-	4.4	12.5	12.8	1100	4730	4800	21.3	20.4	19.5
	20 + 20 + 25 + 25	2.00	2.00	2 50	2 50		-	4.4	9.0	11.8	1100	2600	4410	11.8	11.3	10.8
	20 + 20 + 25 + 25	2.00	2.00	2.50	3.50	-	-	4.4	10.0	12.3	1100	3210	4780	14.6	14.0	13.4
	20 + 20 + 25 + 50	2.00	2.00	2.50	5.00	-	-	44	11.5	12.0	1100	3830	4800	17.4	16.7	16.0
	20 + 20 + 25 + 60	2.00	2.00	2.50	6.00	-	-	4.4	12.5	12.8	1100	4740	4800	21.6	20.6	19.8
	20 + 20 + 25 + 71	1.84	1.84	2.30	6.53		-	4.4	12.5	12.0	1100	4730	4800	21.5	20.6	19.7
	20 + 20 + 35 + 35	2.00	2.00	3.50	3.50	-	-	44	11.0	12.8	1100	3580	4800	16.3	15.6	14.9
	20 + 20 + 35 + 50	2.00	2.00	3.50	5.00	-	-	44	12.5	12.0	1100	4740	4800	21.6	20.6	19.8
	20 + 20 + 35 + 60	1.85	1.85	3.24	5.56	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
1	20 + 20 + 35 + 71	1 71	1 71	3.00	6.08	-	-	44	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
room	20 + 20 + 50 + 50	1 79	1 79	4 46	4 46	-	-	44	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	20 + 20 + 50 + 60	1.70	1.70	4 17	5.00	-	-	44	12.5	12.0	1100	4730	4800	21.5	20.6	19.7
	20 + 20 + 50 + 71	1.55	1.55	3.88	5.50	-	-	4.4	12.5	12.0	1100	4720	4800	21.5	20.5	19.7
	$20 \pm 20 \pm 60 \pm 60$	1.56	1.56	4.69	4.69		-	4.4	12.5	12.0	1100	4720	4800	21.5	20.5	19.7
	20 + 20 + 60 + 71	1.00	1.00	4 39	5 19	-	-	4.4	12.5	12.0	1100	4720	4800	21.5	20.5	19.7
	$20 \pm 20 \pm 71 \pm 71$	1.40	1.40	4.00	4.88			4.4	12.5	12.0	1100	4720	4800	21.0	20.5	19.7
	$20 \pm 25 \pm 25 \pm 25$	2.00	2.50	2.00	2.00			4.4	9.5	12.0	1100	2000	4800	13.2	12.6	12.1
	$20 \pm 25 \pm 25 \pm 25$	2.00	2.50	2.50	2.50		-	4.4	10.5	12.0	1100	3440	4800	15.2	15.0	14.2
	$20 \pm 25 \pm 25 \pm 50$	2.00	2.50	2.50	5.00	-	-	4.4	12.0	12.0	1100	4100	4800	19.7	17.9	14.3
	$20 \pm 25 \pm 25 \pm 50$	1.00	2.50	2.50	5.00	-	-	4.4	12.0	12.0	1100	4100	4000	21.6	20.6	10.0
	$20 \pm 20 \pm 20 \pm 00$	1.92	2.40	2.40	6.16	-	-	4.4	12.5	12.0	1100	4740	4800	21.0	20.0	10.7
	21 + 20 + 20 + 71	0.00	2.20	2.20	0.10	-	-	4.4	12.0	12.0	1100	4730	4000	17.4	20.0	19.7
	20 + 20 + 30 + 35	2.00	2.50	3.50	3.50	-	-	4.4	10.5	12.0	1100	4740	4000	17.4	10.7	10.0
	20 + 25 + 35 + 50	1.92	2.40	0.0/	4.01	-	-	4.4	12.5	12.0	1100	4740	4000	21.0	20.0	19.8
	20 + 20 + 30 + 60	1.79	2.23	2.13	5.30	-	-	4.4	12.5	12.0	1100	4730	4000	21.5	20.0	19.7
1	20 + 20 + 30 + 71	1.00	2.07	2.90	0.08	-	-	4.4	12.5	12.8	1100	4730	4000	21.5	20.6	19.7

Indooru	unit				Cooling	g capaci	ty (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combina	ation		Room	cooling	capacit	y (kW)		Total	capacity	/ (kW)		0			0001/	0.4014
		Α	В	С	D	Е	F	Min.	Standard	Max.	Min.	Standard	Max.	2200	2300	240V
	20 + 25 + 50 + 50	1.72	2.16	4.31	4.31	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	20 + 25 + 50 + 60	1.61	2.02	4.03	4.84	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 25 + 50 + 71	1.51	1.88	3.77	5.35	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 25 + 60 + 60	1.52	1.89	4.55	4.55	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 25 + 60 + 71	1.42	1.78	4.26	5.04	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 25 + 71 + 71	1.34	1.67	4.75	4.75	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6
	20 + 35 + 35 + 35	2.00	3.50	3.50	3.50	-	-	4.4	12.5	12.8	1100	4740	4800	21.6	20.6	19.8
	20 + 35 + 35 + 50	1.79	3.13	3.13	4.46	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	20 + 35 + 35 + 60	1.67	2.92	2.92	5.00	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	20 + 35 + 35 + 71	1.55	2.72	2.72	5.51	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 35 + 50 + 50	1.61	2.82	4.03	4.03	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 35 + 50 + 60	1.52	2.65	3.79	4.55	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 35 + 50 + 71	1.42	2.49	3.55	5.04	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 35 + 60 + 60	1.43	2.50	4.29	4.29	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	20 + 35 + 60 + 71	1.34	2.35	4.03	4.77	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	20 + 50 + 50 + 50	1.47	3.68	3.68	3.68	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	20 + 50 + 50 + 60	1.39	3.47	3.47	4.17	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	20 + 50 + 50 + 71	1.31	3.27	3.27	4.65	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6
	20 + 50 + 60 + 60	1.32	3.29	3.95	3.95	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6
	25 + 25 + 25 + 25	2.50	2.50	2.50	2.50	-	-	4.4	10.0	12.8	1100	3210	4800	14.6	14.0	13.4
	25 + 25 + 25 + 35	2.50	2.50	2.50	3.50	-	-	4.4	11.0	12.8	1100	3580	4800	16.3	15.6	14.9
	25 + 25 + 25 + 50	2.50	2.50	2.50	5.00	-	-	4.4	12.5	12.8	1100	4740	4800	21.6	20.6	19.8
	25 + 25 + 25 + 60	2.31	2.31	2.31	5.56	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	25 + 25 + 25 + 71	2.14	2.14	2.14	6.08	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	25 + 25 + 35 + 35	2.50	2.50	3.50	3.50	-	-	4.4	12.0	12.8	1100	4100	4800	18.7	17.8	17.1
	25 + 25 + 35 + 50	2.31	2.31	3.24	4.63	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	25 + 25 + 35 + 60	2.16	2.16	3.02	5.17	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
4	25 + 25 + 35 + 71	2.00	2.00	2.80	5.69	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
room	25 + 25 + 50 + 50	2.08	2.08	4.17	4.17	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	25 + 25 + 50 + 60	1.95	1.95	3.91	4.69	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	25 + 25 + 50 + 71	1.83	1.83	3.65	5.19	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	25 + 25 + 60 + 60	1.84	1.84	4.41	4.41	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	25 + 25 + 60 + 71	1.73	1.73	4.14	4.90	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	25 + 25 + 71 + 71	1.63	1.63	4.62	4.62	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6
	25 + 35 + 35 + 35	2.40	3.37	3.37	3.37	-	-	4.4	12.5	12.8	1100	4740	4800	21.6	20.6	19.8
	25 + 35 + 35 + 50	2.16	3.02	3.02	4.31	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	25 + 35 + 35 + 60	2.02	2.82	2.82	4.84	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	25 + 35 + 35 + 71	1.88	2.64	2.64	5.35	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	25 + 35 + 50 + 50	1.95	2.73	3.91	3.91	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	25 + 35 + 50 + 60	1.84	2.57	3.68	4.41	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	25 + 35 + 50 + 71	1.73	2.42	3.45	4.90	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	25 + 35 + 60 + 60	1.74	2.43	4.17	4.17	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	25 + 35 + 60 + 71	1.64	2.29	3.93	4.65	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6
	25 + 50 + 50 + 50	1.79	3.57	3.57	3.57	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	25 + 50 + 50 + 60	1.69	3.38	3.38	4.05	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	25 + 50 + 60 + 60	1.60	3.21	3.85	3.85	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6
	35 + 35 + 35 + 35	3.13	3.13	3.13	3.13	-	-	4.4	12.5	12.8	1100	4730	4800	21.5	20.6	19.7
	35 + 35 + 35 + 50	2.82	2.82	2.82	4.03	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	35 + 35 + 35 + 60	2.65	2.65	2.65	4.55	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	35 + 35 + 35 + 71	2.49	2.49	2.49	5.04	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	35 + 35 + 50 + 50	2.57	2.57	3.68	3.68	-	-	4.4	12.5	12.8	1100	4720	4800	21.5	20.5	19.7
	35 + 35 + 50 + 60	2.43	2.43	3.47	4.17	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	35 + 35 + 50 + 71	2.29	2.29	3.27	4.65	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6
	35 + 35 + 60 + 60	2.30	2.30	3.95	3.95	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6
	35 + 50 + 50 + 50	2.36	3.38	3.38	3.38	-	-	4.4	12.5	12.8	1100	4710	4800	21.4	20.5	19.6
	35 + 50 + 50 + 60	2.24	3.21	3.21	3.85	-	-	4.4	12.5	12.8	1100	4700	4800	21.4	20.5	19.6

Indooru	nit				Cooling	g capaci	ty (kW)				Power of	consump	tion (W)	Standa	ard curr	ent (A)
combina	ition		Room	coolina	capacit	v (kW)		Total	capacity	/ (kW)						
		Δ	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	2.00	-	5.1	10.0	13.3	1210	2950	4800	13.4	12.8	12.3
	20 + 20 + 20 + 20 + 25	2.00	2.00	2.00	2.00	2.50	-	5.1	10.5	13.3	1210	3200	4800	14.6	13.9	13.3
	20 + 20 + 20 + 20 + 35	2.00	2.00	2.00	2.00	3.50	-	5.1	11.5	13.3	1210	3710	4800	16.9	16.1	15.5
	20 + 20 + 20 + 20 + 50	1.92	1.92	1.92	1.92	4.81	-	5.1	12.5	13.3	1210	4430	4800	20.2	19.3	18.5
	20 + 20 + 20 + 20 + 60	1.79	1.79	1.79	1.79	5.36	-	5.1	12.5	13.3	1210	4420	4800	20.1	19.2	18.4
	20 + 20 + 20 + 20 + 71	1.66	1.66	1.66	1.66	5.88	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 20 + 20 + 25 + 25	2.00	2.00	2.00	2.50	2.50	-	5.1	11.0	13.3	1210	3400	4800	15.5	14.8	14.2
	20 + 20 + 20 + 25 + 35	2.00	2.00	2.00	2.50	3.50	-	5.1	12.0	13.3	1210	4090	4800	18.6	17.8	17.1
	20 + 20 + 20 + 25 + 50	1.85	1.85	1.85	2.31	4.63	-	5.1	12.5	13.3	1210	4430	4800	20.2	19.3	18.5
	20 + 20 + 20 + 25 + 60	1.72	1.72	1.72	2.16	5.17	-	5.1	12.5	13.3	1210	4420	4800	20.1	19.2	18.4
	20 + 20 + 20 + 25 + 71	1.60	1.60	1.60	2.00	5.69	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 20 + 20 + 35 + 35	1.92	1.92	1.92	3.37	3.37	-	5.1	12.5	13.3	1210	4430	4800	20.2	19.3	18.5
	20 + 20 + 20 + 35 + 50	1.72	1.72	1.72	3.02	4.31	-	5.1	12.5	13.3	1210	4420	4800	20.1	19.2	18.4
	20 + 20 + 20 + 35 + 60	1.61	1.61	1.61	2.82	4.84	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 20 + 20 + 35 + 71	1.51	1.51	1.51	2.64	5.35	-	5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	20 + 20 + 20 + 50 + 50	1.56	1.56	1.56	3.91	3.91	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 20 + 20 + 50 + 60	1.47	1.47	1.47	3.68	4.41	-	5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	20 + 20 + 20 + 50 + 71	1.38	1.38	1.38	3.45	4.90	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 20 + 20 + 60 + 60	1.39	1.39	1.39	4.17	4.17	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 20 + 20 + 60 + 71	1.31	1.31	1.31	3.93	4.65	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	20 + 20 + 25 + 25 + 25	2.00	2.00	2 50	2 50	2 50	-	5.1	11.5	13.3	1210	3710	4800	16.9	16.1	15.5
	20 + 20 + 25 + 25 + 35	2.00	2.00	2.50	2 50	3 50	-	5.1	12.5	13.3	1210	4440	4800	20.2	19.3	18.5
	20 + 20 + 25 + 25 + 50	1 79	1 79	2.23	2.23	4 46	-	5.1	12.5	13.3	1210	4420	4800	20.1	19.2	18.4
	20 + 20 + 25 + 25 + 60	1.67	1.67	2.08	2.08	5.00	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 20 + 25 + 25 + 71	1.55	1.55	1 94	1.94	5.51		5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 20 + 25 + 35 + 35	1.85	1.85	2.31	3.24	3.24	-	5.1	12.5	13.3	1210	4430	4800	20.2	19.3	18.5
_	20 + 20 + 25 + 35 + 50	1.67	1.67	2.01	2.92	4 17		5.1	12.5	13.3	1210	4410	4800	20.2	19.0	18.4
room	20 + 20 + 25 + 35 + 60	1.56	1.56	1.95	2.73	4 69	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 20 + 25 + 35 + 71	1.00	1.00	1.83	2.56	5 19		5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	$20 \pm 20 \pm 25 \pm 50 \pm 50$	1.40	1.40	1.00	3 79	3.79		5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	$20 \pm 20 \pm 25 \pm 50 \pm 60$	1.02	1.02	1.03	3.57	1 29		5.1	12.5	13.3	1210	4390	4800	20.0	10.1	18.3
	$20 \pm 20 \pm 25 \pm 50 \pm 71$	1.40	1.40	1.73	3.36	4.23	_	5.1	12.5	13.3	1210	4390	4800	20.0	10.1	18.3
	20 + 20 + 25 + 60 + 60	1.04	1.04	1.60	4.05	4.05	-	5.1	12.5	12.2	1210	4300	4800	20.0	10.1	19.3
	20 + 20 + 25 + 35 + 35	1.33	1.33	2.02	4.00	4.03	-	5.1	12.5	12.2	1210	4390	4800	20.0	10.2	19.0
	20 + 20 + 35 + 35 + 55	1.72	1.72	3.02	2.72	3.02	-	5.1	12.5	12.2	1210	4420	4800	20.1	10.2	19.4
	20 + 20 + 35 + 35 + 60	1.30	1.30	2.75	2.73	3.91	-	5.1	12.5	12.2	1210	4410	4800	20.1	10.1	19.4
	20 + 20 + 35 + 35 + 00	1.47	1.47	2.57	2.57	4.41	-	5.1	10.5	10.0	1210	4400	4800	20.0	10.1	10.4
	20 + 20 + 35 + 55 + 71	1.30	1.30	2.42	2.42	4.90	-	5.1	12.0	10.0	1210	4390	4000	20.0	10.1	10.0
	$20 \pm 20 \pm 35 \pm 50 \pm 50$	1.40	1.40	2.00	3.37	1.05	-	5.1	12.5	12.2	1210	4390	4800	20.0	10.1	18.2
	20 + 20 + 35 + 50 + 60	1.00	1.00	2.30	2.30	4.05	-	5.1	12.0	10.0	1210	4390	4000	20.0	10.1	10.0
	20 + 20 + 33 + 60 + 60	1.20	1.20	2.24	0.00	3.65	-	5.1	10.5	10.0	1210	4360	4800	19.9	10.1	10.0
	20 + 20 + 50 + 50 + 50	1.32	1.32	3.29	3.29	3.29	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	20 + 25 + 25 + 25 + 25	2.00	2.50	2.50	2.50	2.50	-	5.1	12.0	13.3	1210	4090	4800	18.6	17.8	17.1
	20 + 25 + 25 + 25 + 35	1.92	2.40	2.40	2.40	3.37	-	5.1	12.5	13.3	1210	4430	4800	20.2	19.3	18.5
	20 + 25 + 25 + 25 + 50	1.72	2.16	2.16	2.16	4.31	-	0.1	12.5	10.0	1210	4420	4800	20.1	19.2	10.4
	20 + 25 + 25 + 25 + 60	1.01	2.02	2.02	2.02	4.84	-	0.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 25 + 25 + 25 + 71	1.51	1.88	1.88	1.88	5.35	-	5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	20 + 25 + 25 + 35 + 35	1.79	2.23	2.23	3.13	3.13	-	5.1	12.5	13.3	1210	4420	4800	20.1	19.2	18.4
	20 + 25 + 25 + 35 + 50	1.61	2.02	2.02	2.82	4.03	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 25 + 25 + 35 + 60	1.52	1.89	1.89	2.65	4.55	-	5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	20 + 25 + 25 + 35 + 71	1.42	1.78	1.78	2.49	5.04	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 25 + 25 + 50 + 50	1.47	1.84	1.84	3.68	3.68	-	5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	20 + 25 + 25 + 50 + 60	1.39	1.74	1.74	3.47	4.17	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 25 + 25 + 50 + 71	1.31	1.64	1.64	3.27	4.65	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	20 + 25 + 25 + 60 + 60	1.32	1.64	1.64	3.95	3.95	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3

Indoor	init				Cooling	g capac	ity (kW)				Power of	consump	tion (W)	Standa	ard curr	ent (A)
combina	ation		Room	cooling	capaci	ty (kW)		Total	capacity	/ (kW)	Min	Ctondard	Max	2201/	2201/	2401/
		Α	В	С	D	E	F	Min.	Standard	Max.	- wiin.	Standard	wax.	2200	2300	2400
	20 + 25 + 35 + 35 + 35	1.67	2.08	2.92	2.92	2.92	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 25 + 35 + 35 + 50	1.52	1.89	2.65	2.65	3.79	-	5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	20 + 25 + 35 + 35 + 60	1.43	1.79	2.50	2.50	4.29	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 25 + 35 + 35 + 71	1.34	1.68	2.35	2.35	4.77	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 25 + 35 + 50 + 50	1.39	1.74	2.43	3.47	3.47	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 25 + 35 + 50 + 60	1.32	1.64	2.30	3.29	3.95	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	20 + 25 + 50 + 50 + 50	1.28	1.60	3.21	3.21	3.21	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	20 + 35 + 35 + 35 + 35	1.56	2.73	2.73	2.73	2.73	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	20 + 35 + 35 + 35 + 50	1.43	2.50	2.50	2.50	3.57	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 35 + 35 + 35 + 60	1.35	2.36	2.36	2.36	4.05	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	20 + 35 + 35 + 50 + 50	1.32	2.30	2.30	3.29	3.29	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	25 + 25 + 25 + 25 + 25	2.50	2.50	2.50	2.50	2.50	-	5.1	12.5	13.3	1210	4440	4800	20.2	19.3	18.5
	25 + 25 + 25 + 25 + 35	2.31	2.31	2.31	2.31	3.24	-	5.1	12.5	13.3	1210	4430	4800	20.2	19.3	18.5
	25 + 25 + 25 + 25 + 50	2.08	2.08	2.08	2.08	4.17	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	25 + 25 + 25 + 25 + 60	1.95	1.95	1.95	1.95	4.69	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	25 + 25 + 25 + 35 + 35	2.16	2.16	2.16	3.02	3.02	-	5.1	12.5	13.3	1210	4420	4800	20.1	19.2	18.4
5	25 + 25 + 25 + 35 + 50	1.95	1.95	1.95	2.73	3.91	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
room	25 + 25 + 25 + 35 + 60	1.84	1.84	1.84	2.57	4.41	-	5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	25 + 25 + 25 + 35 + 71	1.73	1.73	1.73	2.42	4.90	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	25 + 25 + 25 + 50 + 50	1.79	1.79	1.79	3.57	3.57	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	25 + 25 + 25 + 50 + 60	1.69	1.69	1.69	3.38	4.05	-	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	25 + 25 + 25 + 60 + 60	1.60	1.60	1.60	3.85	3.85	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	25 + 25 + 35 + 35 + 35	2.02	2.02	2.82	2.82	2.82	-	5.1	12.5	13.3	1210	4410	4800	20.1	19.2	18.4
	25 + 25 + 35 + 35 + 50	1.84	1.84	2.57	2.57	3.68	-	5.1	12.5	13.3	1210	4400	4800	20.0	19.1	18.4
	25 + 25 + 35 + 35 + 60	1.74	1.74	2.43	2.43	4.17	-	5.1	12.5	13.3	1010	4390	4800	20.0	19.1	10.3
	25 + 25 + 35 + 35 + 71	1.64	1.04	2.29	2.29	4.00	-	5.1	12.5	12.3	1210	4380	4800	19.9	10.1	10.3
	25 + 25 + 35 + 50 + 50	1.09	1.09	2.30	3.30	0.00 0.05	-	5.1	12.0	10.0	1210	4390	4000	10.0	19.1	10.3
	23 + 23 + 35 + 30 + 60	1.00	2.65	2.24	3.21	3.65	-	5.1	12.5	10.0	1210	4360	4000	20.0	10.1	10.3
	25 + 35 + 35 + 35 + 35	1.09	2.00	2.00	2.00	2.00	-	5.1	12.0	12.2	1210	4400	4000	20.0	19.1	10.4
	$25 \pm 35 \pm 35 \pm 35 \pm 60$	1.74	2.43	2.43	2.43	3.47	-	5.1	12.5	13.3	1210	4390	4800	10.0	19.1	18.3
	$25 \pm 35 \pm 35 \pm 50 \pm 50$	1.60	2.00	2.00	3.21	3.21	_	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	25 + 35 + 35 + 35 + 35	2 50	2.50	2.50	2.50	2.50	_	5.1	12.5	13.3	1210	4390	4800	20.0	19.1	18.3
	35 + 35 + 35 + 35 + 50	2.30	2.30	2.30	2.30	3.29	-	5.1	12.5	13.3	1210	4380	4800	19.9	19.1	18.3
	20 + 20 + 20 + 20 + 20 + 20	2.00	2.00	2.00	2.00	2.00	2.00	5.5	12.0	13.6	1280	3750	4620	17.1	16.3	15.6
	20 + 20 + 20 + 20 + 20 + 20 + 25	2.00	2.00	2.00	2.00	2.00	2.50	5.5	12.5	13.3	1280	4010	4800	18.2	17.5	16.7
	20 + 20 + 20 + 20 + 20 + 35	1.85	1.85	1.85	1.85	1.85	3.24	5.5	12.5	13.3	1280	4000	4800	18.2	17.4	16.7
	20 + 20 + 20 + 20 + 20 + 50	1.67	1.67	1.67	1.67	1.67	4.17	5.5	12.5	13.3	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 20 + 20 + 20 + 60	1.56	1.56	1.56	1.56	1.56	4.69	5.5	12.5	13.3	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 20 + 20 + 20 + 71	1.46	1.46	1.46	1.46	1.46	5.19	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 20 + 25 + 25	1.92	1.92	1.92	1.92	2.40	2.40	5.5	12.5	13.8	1280	4000	4800	18.2	17.4	16.7
	20 + 20 + 20 + 20 + 25 + 35	1.79	1.79	1.79	1.79	2.23	3.13	5.5	12.5	13.8	1280	4000	4800	18.2	17.4	16.7
	20 + 20 + 20 + 20 + 25 + 50	1.61	1.61	1.61	1.61	2.02	4.03	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
6	20 + 20 + 20 + 20 + 25 + 60	1.52	1.52	1.52	1.52	1.89	4.55	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
room	20 + 20 + 20 + 20 + 35 + 35	1.67	1.67	1.67	1.67	2.92	2.92	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 20 + 20 + 35 + 50	1.52	1.52	1.52	1.52	2.65	3.79	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 20 + 20 + 35 + 60	1.43	1.43	1.43	1.43	2.50	4.29	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 20 + 35 + 71	1.34	1.34	1.34	1.34	2.35	4.77	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 20 + 50 + 50	1.39	1.39	1.39	1.39	3.47	3.47	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 20 + 50 + 60	1.32	1.32	1.32	1.32	3.29	3.95	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 20 + 20 + 25 + 25 + 25	1.85	1.85	1.85	2.31	2.31	2.31	5.5	12.5	13.8	1280	4000	4800	18.2	17.4	16.7
	20 + 20 + 20 + 25 + 25 + 35	1.72	1.72	1.72	2.16	2.16	3.02	5.5	12.5	13.8	1280	4000	4800	18.2	17.4	16.7
	20 + 20 + 20 + 25 + 25 + 50	1.56	1.56	1.56	1.95	1.95	3.91	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 20 + 25 + 25 + 60	1.47	1.47	1.47	1.84	1.84	4.41	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6

Indoor	unit				Cooling	g capac	ity (kW)				Power of	consump	tion (W)	Standa	ard curr	ent (A)
combina	ation		Room	cooling	capaci	ty (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 20 + 20 + 25 + 25 + 71	1.38	1.38	1.38	1.73	1.73	4.90	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 25 + 35 + 35	1.61	1.61	1.61	2.02	2.82	2.82	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 20 + 25 + 35 + 50	1.47	1.47	1.47	1.84	2.57	3.68	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 25 + 35 + 60	1.39	1.39	1.39	1.74	2.43	4.17	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 25 + 35 + 71	1.31	1.31	1.31	1.64	2.29	4.65	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 20 + 20 + 25 + 50 + 50	1.35	1.35	1.35	1.69	3.38	3.38	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 25 + 50 + 60	1.28	1.28	1.28	1.60	3.21	3.85	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 20 + 20 + 35 + 35 + 35	1.52	1.52	1.52	2.65	2.65	2.65	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 20 + 35 + 35 + 50	1.39	1.39	1.39	2.43	2.43	3.47	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 20 + 35 + 35 + 60	1.32	1.32	1.32	2.30	2.30	3.95	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 20 + 20 + 35 + 50 + 50	1.28	1.28	1.28	2.24	3.21	3.21	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 20 + 25 + 25 + 25 + 25	1.79	1.79	2.23	2.23	2.23	2.23	5.5	12.5	13.8	1280	4000	4800	18.2	17.4	16.7
	20 + 20 + 25 + 25 + 25 + 35	1.67	1.67	2.08	2.08	2.08	2.92	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 25 + 25 + 25 + 50	1.52	1.52	1.89	1.89	1.89	3.79	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 25 + 25 + 25 + 60	1.43	1.43	1.79	1.79	1.79	4.29	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 25 + 25 + 25 + 71	1.34	1.34	1.68	1.68	1.68	4.77	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 25 + 25 + 35 + 35	1.56	1.56	1.95	1.95	2.73	2.73	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 20 + 25 + 25 + 35 + 50	1.43	1.43	1.79	1.79	2.50	3.57	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 25 + 25 + 35 + 60	1.35	1.35	1.69	1.69	2.36	4.05	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 25 + 25 + 50 + 50	1.32	1.32	1.64	1.64	3.29	3.29	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 20 + 25 + 35 + 35 + 35	1.47	1.47	1.84	2.57	2.57	2.57	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 25 + 35 + 35 + 50	1.35	1.35	1.69	2.36	2.36	3.38	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 20 + 25 + 35 + 35 + 60	1.28	1.28	1.60	2.24	2.24	3.85	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
6	20 + 20 + 35 + 35 + 35 + 35	1.39	1.39	2.43	2.43	2.43	2.43	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
room	20 + 20 + 35 + 35 + 35 + 50	1.28	1.28	2.24	2.24	2.24	3.21	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 25 + 25 + 25 + 25 + 25	1.72	2.16	2.16	2.16	2.16	2.16	5.5	12.5	13.8	1280	4000	4800	18.2	17.4	16.7
	20 + 25 + 25 + 25 + 25 + 35	1.61	2.02	2.02	2.02	2.02	2.82	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 25 + 25 + 25 + 25 + 50	1.47	1.84	1.84	1.84	1.84	3.68	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 25 + 25 + 25 + 25 + 60	1.39	1.74	1.74	1.74	1.74	4.17	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 25 + 25 + 25 + 25 + 71	1.31	1.64	1.64	1.64	1.64	4.65	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 25 + 25 + 25 + 35 + 35	1.52	1.89	1.89	1.89	2.65	2.65	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	20 + 25 + 25 + 25 + 35 + 50	1.39	1.74	1.74	1.74	2.43	3.47	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 25 + 25 + 25 + 35 + 60	1.32	1.64	1.64	1.64	2.30	3.95	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 25 + 25 + 25 + 50 + 50	1.28	1.60	1.60	1.60	3.21	3.21	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 25 + 25 + 35 + 35 + 35	1.43	1.79	1.79	2.50	2.50	2.50	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 25 + 25 + 35 + 35 + 50	1.32	1.64	1.64	2.30	2.30	3.29	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	20 + 25 + 35 + 35 + 35 + 35	1.35	1.69	2.36	2.36	2.36	2.36	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	20 + 35 + 35 + 35 + 35 + 35	1.28	2.24	2.24	2.24	2.24	2.24	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	25 + 25 + 25 + 25 + 25 + 25	2.16	2.16	2.16	2.16	2.16	2.16	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	25 + 25 + 25 + 25 + 25 + 35	1.95	1.95	1.95	1.95	1.95	2.73	5.5	12.5	13.8	1280	3990	4800	18.2	17.4	16.6
	25 + 25 + 25 + 25 + 25 + 50	1.79	1.79	1.79	1.79	1.79	3.57	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	25 + 25 + 25 + 25 + 25 + 60	1.69	1.69	1.69	1.69	1.69	4.05	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	25 + 25 + 25 + 25 + 35 + 35	1.84	1.84	1.84	1.84	2.57	2.57	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	25 + 25 + 25 + 25 + 35 + 50	1.69	1.69	1.69	1.69	2.36	3.38	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	25 + 25 + 25 + 25 + 35 + 60	1.60	1.60	1.60	1.60	2.24	3.85	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	25 + 25 + 25 + 35 + 35 + 35	1.74	1.74	1.74	2.43	2.43	2.43	5.5	12.5	13.8	1280	3980	4800	18.1	17.3	16.6
	25 + 25 + 25 + 35 + 35 + 50	1.60	1.60	1.60	2.24	2.24	3.21	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6
	25 + 25 + 35 + 35 + 35 + 35	1.64	1.64	2.30	2.30	2.30	2.30	5.5	12.5	13.8	1280	3970	4800	18.1	17.3	16.6

Indoor	unit				Heating	g capaci	ty (kW)				Power	consumpt	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)		0				0.4014
		Α	В	С	D	Е	F	Min.	Standard	Max.	Min.	Standard	мах.	2200	2300	240V
	20	3.0	-	-	-	-	-	1.5	3.0	3.6	700	1220	1330	5.6	5.4	5.1
	25	3.4	-	-	-	-	-	1.5	3.4	4.1	700	1265	1540	5.8	5.6	5.3
1	35	4.5	-	-	-	-	-	1.5	4.5	4.9	700	1650	1840	7.6	7.2	6.9
room	50	5.8	-	-	-	-	-	1.5	5.8	6.4	700	2120	2410	9.7	9.3	8.9
	60	6.8	-	-	-	-	-	1.5	6.8	7.4	700	2500	2760	11.5	11.0	10.5
	71	8.0	-	-	-	-	-	1.5	8.0	8.1	700	3020	3090	13.9	13.3	12.7
	20 + 20	3.00	3.00	-	-	-	-	2.1	6.0	7.2	750	1540	1860	7.1	6.8	6.5
	20 + 25	2.84	3.56	-	-	-	-	2.1	6.4	7.7	750	1660	2210	7.6	7.3	7.0
	20 + 35	2.73	4.77	-	-	-	-	2.1	7.5	8.5	750	1990	2520	9.1	8.7	8.4
	20 + 50	2.51	6.29	-	-	-	-	2.1	8.8	10.0	750	2430	3220	11.2	10.7	10.2
	20 + 60	2.45	7.35	-	-	-	-	2.1	9.8	11.0	750	2840	3620	13.0	12.5	12.0
	20 + 71	2.42	8.58	-	-	-	-	2.1	11.0	11.6	750	2840	3620	13.0	12.5	12.0
	25 + 25	3.40	3.40	-	-	-	-	2.1	6.8	8.2	750	1770	2420	8.1	7.8	7.4
	25 + 35	3.29	4.61	-	-	-	-	2.1	7.9	9.0	750	2140	2820	9.8	9.4	9.0
	25 + 50	3.07	6.13	-	-	-	-	2.1	9.2	10.5	750	2630	3610	12.1	11.6	11.1
2	25 + 60	3.00	7.20	-	-	-	-	2.1	10.2	11.5	750	3040	3790	14.0	13.4	12.8
room	25 + 71	2.97	8.43	-	-	-	-	2.1	11.4	12.1	750	3440	4250	15.8	15.1	14.5
	35 + 35	4.50	4.50	-	-	-	-	2.1	9.0	9.8	750	2520	3210	11.6	11.1	10.6
	35 + 50	4.24	6.06	-	-	-	-	2.1	10.3	11.3	750	3040	3710	14.0	13.4	12.8
	35 + 60	4.16	7.14	-	-	-	-	2.1	11.3	12.3	750	3420	4320	15.7	15.0	14.4
	35 + 71	4.13	8.37	-	-	-	-	2.1	12.5	12.9	750	4030	4690	18.5	17.7	17.0
	50 + 50	5.80	5.80	-	-	-	-	2.1	11.6	12.8	750	3660	4620	16.8	16.1	15.4
	50 + 60	5.73	6.87	-	-	-	-	2.1	12.6	13.8	750	4090	5230	18.8	18.0	17.2
	50 + 71	5.58	7.92	-	-	-	-	2.1	13.5	13.8	750	4540	5230	20.8	19.9	19.1
	60 + 60	6.75	6.75	-	-	-	-	2.1	13.5	13.8	750	4540	5230	20.8	19.9	19.1
	60 + 71	6.18	7.32	-	-	-	-	2.1	13.5	13.8	750	4540	5230	20.8	19.9	19.1
	/1 + /1	6.75	6.75	-	-	-	-	2.1	13.5	13.8	750	4530	5230	20.8	19.9	19.1
	20 + 20 + 20	3.00	3.00	3.00	-	-	-	3.2	9.0	10.9	780	2270	3350	10.4	10.0	9.6
	20 + 20 + 25	2.89	2.89	3.62	-	-	-	3.2	9.4	11.4	780	2400	3550	11.0	10.5	10.1
	20 + 20 + 35	2.80	2.80	4.90	-	-	-	3.2	10.5	12.2	780	2760	3820	12.7	12.1	11.6
	20 + 20 + 50	2.62	2.62	0.50	-	-	-	3.2	11.8	13.7	780	3270	4290	15.0	14.4	13.8
	20 + 20 + 60	2.56	2.56	7.68	-	-	-	3.2	12.8	13.8	780	3690	4350	16.9	16.2	15.5
	20 + 20 + 71	2.43	2.43	8.64	-	-	-	3.2	13.5	13.8	780	4140	4350	11.0	18.2	17.4
	20 + 25 + 25	2.60	3.50	3.50	-	-	-	3.2	9.0	10.7	780	200	3720	12.6	12.0	10.6
	20 + 25 + 35	2.73	0.01	4.77	-	-	-	3.2	10.9	12.7	700	2970	3990	10.0	15.0	14.0
	20 + 25 + 50	2.57	3.21	0.42	-	-	-	3.2	12.2	13.0	780	3460	4350	10.0	17.5	14.0
	20 + 25 + 00	2.01	2.01	9.26	-	-	-	3.2	13.2	12.0	780	4140	4350	10.3	19.0	17.4
	$20 \pm 25 \pm 71$	2.00	4.67	4.67	-	-	-	3.2	12.0	13.5	780	3460	4330	15.0	15.2	1/.4
	20 + 35 + 50	2.07	4.07	6.33				3.2	12.0	12.9	780	3080	4250	19.3	17.5	16.9
3	$20 \pm 35 \pm 60$	2.35	4.43	7.04	-	-	-	3.2	13.5	13.8	780	4130	4350	10.0	18.1	17.4
room	20 + 35 + 00 20 + 35 + 71	2.00	3.75	7.61	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	20 + 50 + 50	2.14	5.63	5.63	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	$20 \pm 50 \pm 60$	2.08	5.00	6.23		-		3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.1
	20 + 50 + 71	1 91	4 79	6.80	-	-	-	4.2	13.5	13.8	780	4130	4350	18.8	18.0	17.4
	$20 \pm 60 \pm 60$	1.91	5.79	5.79	-	-	-	5.2	13.5	13.8	780	4130	4350	18.6	17.8	17.2
	20 + 60 + 71	1 79	5.36	6.35	-	-	-	6.2	13.5	13.8	780	4120	4350	18.4	17.6	16.8
	20 + 71 + 71	1.67	5.92	5.92	-	-	-	72	13.5	13.8	780	4120	4350	18.2	17.4	16.7
	25 + 25 + 25	3.40	3.40	3.40		-		3.2	10.0	12.4	780	2760	3880	12.7	12.1	11.6
	25 + 25 + 25	3.32	3.32	4.65	-	-	-	3.2	11.3	13.2	780	3170	4120	14.6	13.9	13.3
	25 + 25 + 50	3 15	3 15	6.30	-	-	-	3.2	12.6	13.8	780	3690	4350	16.9	16.2	15.5
	$25 \pm 25 \pm 60$	3.07	3.07	7.36		-		3.2	12.0	13.8	780	4130	4350	10.9	18.1	17.4
	25 + 25 + 00 25 + 25 + 71	2 79	2 79	7.92				3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	25 + 35 + 35	3.26	4.57	4.57	-	-	-	3.2	12.4	13.8	780	3780	4350	17.4	16.6	15.9

Indoor	unit				Heating	g capaci	ty (kW)				Power	consumpt	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	2200	230V	240V
	25 + 35 + 50	3.07	4.30	6.14	-	-	-	3.2	13.5	13.8	780	4140	4350	19.0	18.2	17.4
	25 + 35 + 60	2.81	3.94	6.75	-	-	-	3.2	13.5	13.8	780	4140	4350	19.0	18.2	17.4
	25 + 35 + 71	2.58	3.61	7.32	-	-	-	4.2	13.5	13.8	780	4130	4350	18.8	18.0	17.2
	25 + 50 + 50	2.70	5.40	5.40	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	25 + 50 + 60	2.50	5.00	6.00	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	25 + 50 + 71	2.31	4.62	6.57	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	25 + 60 + 60	2.33	5.59	5.59	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	25 + 60 + 71	2.16	5.19	6.14	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	25 + 71 + 71	2.02	5.74	5.74	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	35 + 35 + 35	4.50	4.50	4.50	-	-	-	3.2	13.5	13.8	780	4140	4350	19.0	18.2	17.4
	35 + 35 + 50	3.94	3.94	5.63	-	-	-	3.2	13.5	13.8	780	4140	4350	19.0	18.2	17.4
	35 + 35 + 60	3.63	3.63	6.23	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
3	35 + 35 + 71	3.35	3.35	6.80	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
room	35 + 50 + 50	3.50	5.00	5.00	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	35 + 50 + 60	3.26	4.66	5.59	-	-	-	3.2	13.5	13.8	780	4130	4350	19.0	18.1	17.4
	35 + 50 + 71	3.03	4.33	6.14	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	35 + 60 + 60	3.05	5.23	5.23	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	35 + 60 + 71	2.85	4.88	5.77	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	35 + 71 + 71	2.67	5.42	5.42	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	50 + 50 + 50	4.50	4.50	4.50	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	50 + 50 + 60	4.22	4.22	5.06	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	50 + 50 + 71	3.95	3.95	5.61	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	50 + 60 + 60	3.97	4.76	4.76	-	-	-	3.2	13.5	13.8	780	4120	4350	18.9	18.1	17.3
	50 + 60 + 71	3.73	4.48	5.30	-	-	-	3.2	13.5	13.8	780	4110	4350	18.9	18.1	17.3
	60 + 60 + 60	4.50	4.50	4.50	-	-	-	3.2	13.5	13.8	780	4110	4350	18.9	18.1	17.3
	60 + 60 + 71	4.24	4.24	5.02	-	-	-	3.2	13.5	13.8	780	4110	4350	18.9	18.1	17.3
	20 + 20 + 20 + 20	3.00	3.00	3.00	3.00	-	-	3.6	12.0	13.8	950	3270	3920	14.9	14.2	13.6
	20 + 20 + 20 + 25	2.92	2.92	2.92	3.65	-	-	3.6	12.4	13.8	950	3460	3920	15.7	15.1	14.4
	20 + 20 + 20 + 35	2.84	2.84	2.84	4.97	-	-	3.6	13.5	13.8	950	3770	3920	17.2	16.4	15.7
	20 + 20 + 20 + 50	2.45	2.45	2.45	6.14	-	-	3.6	13.5	13.8	950	3760	3920	17.1	16.4	15.7
	20 + 20 + 20 + 60	2.25	2.25	2.25	6.75	-	-	3.6	13.5	13.8	950	3760	3920	17.1	16.4	15.7
	20 + 20 + 20 + 71	2.06	2.06	2.06	7.32	-	-	3.6	13.5	13.8	950	3750	3920	16.9	16.2	15.5
	20 + 20 + 25 + 25	2.84	2.84	3.56	3.56	-	-	3.6	12.8	13.8	950	3510	3920	16.0	15.3	14.6
	20 + 20 + 25 + 35	2.70	2.70	3.38	4.73	-	-	3.6	13.5	13.8	950	3770	3920	17.2	16.4	15.7
	20 + 20 + 25 + 50	2.35	2.35	2.93	5.87	-	-	3.6	13.5	13.8	950	3760	3920	17.1	16.4	15.7
	20 + 20 + 25 + 60	2.16	2.16	2.70	6.48	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	20 + 20 + 25 + 71	1.99	1.99	2.48	7.05	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	20 + 20 + 35 + 35	2.45	2.45	4.30	4.30	-	-	3.6	13.5	13.8	950	3760	3920	17.1	16.4	15.7
	20 + 20 + 35 + 50	2.16	2.16	3.78	5.40	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	20 + 20 + 35 + 60	2.00	2.00	3.50	6.00	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
4 room	20 + 20 + 35 + 71	1.85	1.85	3.24	6.57	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 20 + 50 + 50	1.93	1.93	4.82	4.82	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 20 + 50 + 60	1.80	1.80	4.50	5.40	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 20 + 50 + 71	1.68	1.68	4.19	5.95	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 20 + 60 + 60	1.69	1.69	5.06	5.06	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 20 + 60 + 71	1.58	1.58	4.74	5.61	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 20 + 71 + 71	1.48	1.48	5.27	5.27	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 25 + 25 + 25	2.78	3.47	3.47	3.47	-	-	3.6	13.2	13.8	950	3620	3920	16.5	15.8	15.1
	20 + 25 + 25 + 35	2.57	3.21	3.21	4.50	-	-	3.6	13.5	13.8	950	3770	3920	17.2	16.4	15.7
	20 + 25 + 25 + 50	2.25	2.81	2.81	5.63	-	-	3.6	13.5	13.8	950	3760	3920	17.1	16.4	15.7
	20 + 25 + 25 + 60	2.08	2.60	2.60	6.23	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	20 + 25 + 25 + 71	1.91	2.39	2.39	6.80	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 25 + 35 + 35	2.35	2.93	4.11	4.11	-	-	3.6	13.5	13.8	950	3760	3920	17.1	16.4	15.7
	20 + 25 + 35 + 50	2.08	2.60	3.63	5.19	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	20 + 25 + 35 + 60	1.93	2.41	3.38	5.79	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6

Indoor	unit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)						
		A	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
<u> </u>	20 + 25 + 35 + 71	1.79	2.24	3.13	6.35	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 25 + 50 + 50	1.86	2.33	4.66	4.66	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 25 + 50 + 60	1.74	2.18	4.35	5.23	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 25 + 50 + 71	1.63	2.03	4.07	5.77	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 25 + 60 + 60	1.64	2.05	4.91	4.91	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 25 + 60 + 71	1.53	1.92	4.60	5.45	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 25 + 71 + 71	1.44	1.80	5.13	5.13	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	20 + 35 + 35 + 35	2.16	3.78	3.78	3.78	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	20 + 35 + 35 + 50	1.93	3.38	3.38	4.82	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 35 + 35 + 60	1.80	3.15	3.15	5.40	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 35 + 35 + 71	1.68	2.93	2.93	5.95	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 35 + 50 + 50	1.74	3.05	4.35	4.35	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	20 + 35 + 50 + 60	1.64	2.86	4.09	4.91	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 35 + 50 + 71	1.53	2.68	3.84	5.45	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 35 + 60 + 60	1.54	2.70	4.63	4.63	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 35 + 60 + 71	1.45	2.54	4.35	5.15	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	20 + 50 + 50 + 50	1.59	3.97	3.97	3.97	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 50 + 50 + 60	1.50	3.75	3.75	4.50	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	20 + 50 + 50 + 71	1.41	3.53	3.53	5.02	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	20 + 50 + 60 + 60	1.42	3.55	4.26	4.26	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	25 + 25 + 25 + 25	3.38	3.38	3.38	3.38	-	-	3.6	13.5	13.8	950	3770	3920	17.2	16.4	15.7
	25 + 25 + 25 + 35	3.07	3.07	3.07	4.30	-	-	3.6	13.5	13.8	950	3760	3920	17.1	16.4	15.7
	25 + 25 + 25 + 50	2.70	2.70	2.70	5.40	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	25 + 25 + 25 + 60	2.50	2.50	2.50	6.00	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	25 + 25 + 25 + 71	2.31	2.31	2.31	6.57	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	25 + 25 + 35 + 35	2.81	2.81	3.94	3.94	-	-	3.6	13.5	13.8	950	3760	3920	17.1	16.4	15.7
	25 + 25 + 35 + 50	2.50	2.50	3.50	5.00	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	25 + 25 + 35 + 60	2.33	2.33	3.26	5.59	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
4 room	25 + 25 + 35 + 71	2.16	2.16	3.03	6.14	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	25 + 25 + 50 + 50	2.25	2.25	4.50	4.50	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	25 + 25 + 50 + 60	2.11	2.11	4.22	5.06	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	25 + 25 + 50 + 71	1.97	1.97	3.95	5.61	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	25 + 25 + 60 + 60	1.99	1.99	4.76	4.76	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	25 + 25 + 60 + 71	1.86	1.86	4.48	5.30	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	25 + 25 + 71 + 71	1.76	1.76	4.99	4.99	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	25 + 35 + 35 + 35	2.60	3.63	3.63	3.63	-	-	3.6	13.5	13.8	950	3750	3920	17.1	16.3	15.6
	25 + 35 + 35 + 50	2.33	3.26	3.26	4.66	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	25 + 35 + 35 + 60	2.18	3.05	3.05	5.23	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	25 + 35 + 35 + 71	2.03	2.85	2.85	5.77	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	25 + 35 + 50 + 50	2.11	2.95	4.22	4.22	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	25 + 35 + 50 + 60	1.99	2.78	3.97	4.76	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	25 + 35 + 50 + 71	1.86	2.61	3.73	5.30	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	25 + 35 + 60 + 60	1.88	2.63	4.50	4.50	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	25 + 35 + 60 + 71	1.77	2.47	4.24	5.02	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	25 + 50 + 50 + 50	1.93	3.86	3.86	3.86	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	25 + 50 + 50 + 60	1.82	3.65	3.65	4.38	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	25 + 50 + 60 + 60	1.73	3.46	4.15	4.15	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	35 + 35 + 35 + 35	3.38	3.38	3.38	3.38	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	35 + 35 + 35 + 50	3.05	3.05	3.05	4.35	-	-	3.6	13.5	13.8	950	3740	3920	17.0	16.3	15.6
	35 + 35 + 35 + 60	2.86	2.86	2.86	4.91	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	35 + 35 + 35 + 71	2.68	2.68	2.68	5.45	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	35 + 35 + 50 + 50	2.78	2.78	3.97	3.97	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	35 + 35 + 50 + 60	2.63	2.63	3.75	4.50	-	-	3.6	13.5	13.8	950	3730	3920	17.0	16.2	15.6
	35 + 35 + 50 + 71	2.47	2.47	3.53	5.02	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	35 + 35 + 60 + 60	2.49	2.49	4.26	4.26	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	35 + 50 + 50 + 50	2.55	3.65	3.65	3.65	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5
	35 + 50 + 50 + 60	2.42	3.46	3.46	4.15	-	-	3.6	13.5	13.8	950	3720	3920	16.9	16.2	15.5

Indoor	unit				Heating	g capaci	ty (kW)				Power	consump	tion (W)	Stand	ard curr	ent (A)
combin	ation		Room	heating	capacit	y (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 20 + 20 + 20 + 20	2.70	2.70	2.70	2.70	2.70	-	4.0	13.5	13.8	1050	3450	3470	15.7	15.0	14.4
	20 + 20 + 20 + 20 + 25	2.57	2.57	2.57	2.57	3.21	-	4.0	13.5	13.8	1050	3450	3470	15.7	15.0	14.4
	20 + 20 + 20 + 20 + 35	2.35	2.35	2.35	2.35	4.11	-	4.0	13.5	13.8	1050	3440	3470	15.7	15.0	14.3
	20 + 20 + 20 + 20 + 50	2.08	2.08	2.08	2.08	5.19	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	20 + 20 + 20 + 20 + 60	1.93	1.93	1.93	1.93	5.79	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	20 + 20 + 20 + 20 + 71	1.79	1.79	1.79	1.79	6.35	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 20 + 20 + 25 + 25	2.45	2.45	2.45	3.07	3.07	-	4.0	13.5	13.8	1050	3450	3470	15.7	15.0	14.4
	20 + 20 + 20 + 25 + 35	2.25	2.25	2.25	2.81	3.94	-	4.0	13.5	13.8	1050	3440	3470	15.7	15.0	14.3
	20 + 20 + 20 + 25 + 50	2.00	2.00	2.00	2.50	5.00	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	20 + 20 + 20 + 25 + 60	1.86	1.86	1.86	2.33	5.59	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 20 + 20 + 25 + 71	1.73	1.73	1.73	2.16	6.14	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 20 + 20 + 35 + 35	2.08	2.08	2.08	3.63	3.63	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	20 + 20 + 20 + 35 + 50	1.86	1.86	1.86	3.26	4.66	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 20 + 20 + 35 + 60	1.74	1.74	1.74	3.05	5.23	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 20 + 20 + 35 + 71	1.63	1.63	1.63	2.85	5.77	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 20 + 20 + 50 + 50	1.69	1.69	1.69	4.22	4.22	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 20 + 20 + 50 + 60	1.59	1.59	1.59	3.97	4.76	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 20 + 20 + 60 + 60	1.50	1.50	1.50	4.50	4.50	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	20 + 20 + 20 + 60 + 71	1.41	1.41	1.41	4.24	5.02	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	20 + 20 + 25 + 25 + 25	2.35	2.35	2.93	2.93	2.93	•	4.0	13.5	13.8	1050	3440	3470	15.7	15.0	14.3
	20 + 20 + 25 + 25 + 35	2.16	2.16	2.70	2.70	3.78	-	4.0	13.5	13.8	1050	3440	3470	15.7	15.0	14.3
	20 + 20 + 25 + 25 + 50	1.93	1.93	2.41	2.41	4.82	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	20 + 20 + 25 + 25 + 60	1.80	1.80	2.25	2.25	5.40	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 20 + 25 + 25 + 71	1.68	1.68	2.10	2.10	5.95	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 20 + 25 + 35 + 35	2.00	2.00	2.50	3.50	3.50	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	20 + 20 + 25 + 35 + 50	1.80	1.80	2.25	3.15	4.50	•	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
5 room	20 + 20 + 25 + 35 + 60	1.69	1.69	2.11	2.95	5.06	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
100111	20 + 20 + 25 + 35 + 71	1.58	1.58	1.97	2.76	5.01	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 20 + 25 + 50 + 50	1.04	1.04	2.05	4.09	4.09	-	4.0	13.5	12.0	1050	3410	3470	15.5	14.0	14.2
	20 + 20 + 25 + 50 + 60	1.04	1.04	1.93	3.60	5 15	-	4.0	12.5	12.0	1050	3410	3470	15.5	14.0	14.2
	20 + 20 + 25 + 60 + 60	1.45	1.45	1.01	1.29	1 29	-	4.0	12.5	12.0	1050	3400	3470	15.5	14.0	14.2
	$20 \pm 20 \pm 35 \pm 35 \pm 35$	1.40	1.40	3.26	3.26	3.26	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.0	14.3
	$20 \pm 20 \pm 35 \pm 35 \pm 50$	1.60	1.60	2.95	2.95	4 22		4.0	13.5	13.8	1050	3410	3470	15.5	14.3	14.0
	20 + 20 + 35 + 35 + 60	1.59	1.59	2.78	2.78	4 76	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 20 + 35 + 35 + 71	1 49	1 49	2.61	2.61	5.30	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	20 + 20 + 35 + 50 + 50	1.54	1.54	2.70	3.86	3.86	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 20 + 35 + 50 + 60	1.46	1.46	2.55	3.65	4.38	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	20 + 20 + 35 + 60 + 60	1.38	1.38	2.42	4.15	4.15	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	20 + 20 + 50 + 50 + 50	1.42	1.42	3.55	3.55	3.55	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	20 + 25 + 25 + 25 + 25	2.25	2.81	2.81	2.81	2.81	-	4.0	13.5	13.8	1050	3440	3470	15.7	15.0	14.3
	20 + 25 + 25 + 25 + 35	2.08	2.60	2.60	2.60	3.63	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	20 + 25 + 25 + 25 + 50	1.86	2.33	2.33	2.33	4.66	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 25 + 25 + 25 + 60	1.74	2.18	2.18	2.18	5.23	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 25 + 25 + 25 + 71	1.63	2.03	2.03	2.03	5.77	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 25 + 25 + 35 + 35	1.93	2.41	2.41	3.38	3.38	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	20 + 25 + 25 + 35 + 50	1.74	2.18	2.18	3.05	4.35	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	20 + 25 + 25 + 35 + 60	1.64	2.05	2.05	2.86	4.91	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 25 + 25 + 35 + 71	1.53	1.92	1.92	2.68	5.45	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 25 + 25 + 50 + 50	1.59	1.99	1.99	3.97	3.97	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 25 + 25 + 50 + 60	1.50	1.88	1.88	3.75	4.50	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	20 + 25 + 25 + 50 + 71	1.41	1.77	1.77	3.53	5.02	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	20 + 25 + 25 + 60 + 60	1.42	1.78	1.78	4.26	4.26	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	20 + 25 + 35 + 35 + 35	1.80	2.25	3.15	3.15	3.15	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3

Indoor	unit				Heating	g capac	ity (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capaci	ty (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 25 + 35 + 35 + 50	1.64	2.05	2.86	2.86	4.09	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 25 + 35 + 35 + 60	1.54	1.93	2.70	2.70	4.63	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 25 + 35 + 35 + 71	1.45	1.81	2.54	2.54	5.15	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	20 + 25 + 35 + 50 + 50	1.50	1.88	2.63	3.75	3.75	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	20 + 25 + 35 + 50 + 60	1.42	1.78	2.49	3.55	4.26	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	20 + 25 + 50 + 50 + 50	1.38	1.73	3.46	3.46	3.46	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	20 + 35 + 35 + 35 + 35	1.69	2.95	2.95	2.95	2.95	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 35 + 35 + 35 + 50	1.54	2.70	2.70	2.70	3.86	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	20 + 35 + 35 + 35 + 60	1.46	2.55	2.55	2.55	4.38	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	20 + 35 + 35 + 50 + 50	1.42	2.49	2.49	3.55	3.55	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	25 + 25 + 25 + 25 + 25	2.70	2.70	2.70	2.70	2.70	-	4.0	13.5	13.8	1050	3440	3470	15.7	15.0	14.3
	25 + 25 + 25 + 25 + 35	2.50	2.50	2.50	2.50	3.50	-	4.0	13.5	13.8	1050	3430	3470	15.6	14.9	14.3
	25 + 25 + 25 + 25 + 50	2.25	2.25	2.25	2.25	4.50	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	25 + 25 + 25 + 25 + 60	2.11	2.11	2.11	2.11	5.06	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	25 + 25 + 25 + 25 + 71	1.97	1.97	1.97	1.97	5.61	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	25 + 25 + 25 + 35 + 35	2.33	2.33	2.33	3.26	3.26	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
5	25 + 25 + 25 + 35 + 50	2.11	2.11	2.11	2.95	4.22	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
room	25 + 25 + 25 + 35 + 60	1.99	1.99	1.99	2.78	4.76	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	25 + 25 + 25 + 35 + 71	1.86	1.86	1.86	2.61	5.30	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	25 + 25 + 25 + 50 + 50	1.93	1.93	1.93	3.86	3.86	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	25 + 25 + 25 + 50 + 60	1.82	1.82	1.82	3.65	4.38	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	25 + 25 + 25 + 60 + 60	1.73	1.73	1.73	4.15	4.15	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	25 + 25 + 35 + 35 + 35	2.18	2.18	3.05	3.05	3.05	-	4.0	13.5	13.8	1050	3420	3470	15.6	14.9	14.3
	25 + 25 + 35 + 35 + 50	1.99	1.99	2.78	2.78	3.97	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	25 + 25 + 35 + 35 + 60	1.88	1.88	2.63	2.63	4.50	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	25 + 25 + 35 + 35 + 71	1.77	1.77	2.47	2.47	5.02	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	25 + 25 + 35 + 50 + 50	1.82	1.82	2.55	3.65	3.65	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	25 + 25 + 35 + 50 + 60	1.73	1.73	2.42	3.46	4.15	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	25 + 35 + 35 + 35 + 35	2.05	2.86	2.86	2.86	2.86	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	25 + 35 + 35 + 35 + 50	1.88	2.63	2.63	2.63	3.75	-	4.0	13.5	13.8	1050	3400	3470	15.5	14.8	14.2
	25 + 35 + 35 + 35 + 60	1.78	2.49	2.49	2.49	4.26	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	25 + 35 + 35 + 50 + 50	1.73	2.42	2.42	3.46	3.46	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	35 + 35 + 35 + 35 + 35	2.70	2.70	2.70	2.70	2.70	-	4.0	13.5	13.8	1050	3410	3470	15.5	14.8	14.2
	35 + 35 + 35 + 35 + 50	2.49	2.49	2.49	2.49	3.55	-	4.0	13.5	13.8	1050	3390	3470	15.4	14.8	14.1
	20 + 20 + 20 + 20 + 20 + 20	2.25	2.25	2.25	2.25	2.25	2.25	4.5	13.5	13.8	1150	3330	3420	15.2	14.5	13.9
	20 + 20 + 20 + 20 + 20 + 25	2.16	2.16	2.16	2.16	2.16	2.70	4.5	13.5	13.8	1150	3330	3420	15.2	14.5	13.9
	20 + 20 + 20 + 20 + 20 + 35	2.00	2.00	2.00	2.00	2.00	3.50	4.5	13.5	13.8	1150	3330	3420	15.2	14.5	13.9
	20 + 20 + 20 + 20 + 20 + 50	1.80	1.80	1.80	1.80	1.80	4.50	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 20 + 60	1.69	1.69	1.69	1.69	1.69	5.06	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 20 + 71	1.58	1.58	1.58	1.58	1.58	5.61	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 25 + 25	2.08	2.08	2.08	2.08	2.60	2.60	4.5	13.5	13.8	1150	3330	3420	15.2	14.5	13.9
	20 + 20 + 20 + 20 + 25 + 35	1.93	1.93	1.93	1.93	2.41	3.38	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 25 + 50	1.74	1.74	1.74	1.74	2.18	4.35	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
6	20 + 20 + 20 + 20 + 25 + 60	1.64	1.64	1.64	1.64	2.05	4.91	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
room	20 + 20 + 20 + 20 + 25 + 71	1.53	1.53	1.53	1.53	1.92	5.45	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 35 + 35	1.80	1.80	1.80	1.80	3.15	3.15	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 35 + 50	1.64	1.64	1.64	1.64	2.86	4.09	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 35 + 60	1.54	1.54	1.54	1.54	2.70	4.63	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 35 + 71	1.45	1.45	1.45	1.45	2.54	5.15	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 50 + 50	1.50	1.50	1.50	1.50	3.75	3.75	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 20 + 50 + 60	1.42	1.42	1.42	1.42	3.55	4.26	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 25 + 25 + 25	2.00	2.00	2.00	2.50	2.50	2.50	4.5	13.5	13.8	1150	3330	3420	15.2	14.5	13.9
	20 + 20 + 20 + 25 + 25 + 35	1.86	1.86	1.86	2.33	2.33	3.26	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 20 + 25 + 25 + 50	1.69	1.69	1.69	2.11	2.11	4.22	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
1	20 + 20 + 20 + 25 + 25 + 60	1.59	1.59	1.59	1.99	1.99	4.76	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8

Indoor	unit				Heating	g capac	ity (kW)				Power	consump	tion (W)	Standa	ard curr	ent (A)
combin	ation		Room	heating	capaci	ty (kW)		Total	capacity	/ (kW)						
		Α	В	C	D	E	F	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20 + 20 + 20 + 25 + 25 + 71	1.49	1.49	1.49	1.86	1.86	5.30	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 25 + 35 + 35	1.74	1.74	1.74	2.18	3.05	3.05	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 20 + 25 + 35 + 50	1.59	1.59	1.59	1.99	2.78	3.97	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 25 + 35 + 60	1.50	1.50	1.50	1.88	2.63	4.50	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 25 + 50 + 50	1.46	1.46	1.46	1.82	3.65	3.65	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 25 + 50 + 60	1.38	1.38	1.38	1.73	3.46	4.15	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 35 + 35 + 35	1.64	1.64	1.64	2.86	2.86	2.86	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 20 + 35 + 35 + 50	1.50	1.50	1.50	2.63	2.63	3.75	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 35 + 35 + 60	1.42	1.42	1.42	2.49	2.49	4.26	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 20 + 35 + 50 + 50	1.38	1.38	1.38	2.42	3.46	3.46	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 25 + 25	1.93	1.93	2.41	2.41	2.41	2.41	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 25 + 35	1.80	1.80	2.25	2.25	2.25	3.15	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 25 + 50	1.64	1.64	2.05	2.05	2.05	4.09	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 25 + 60	1.54	1.54	1.93	1.93	1.93	4.63	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 25 + 71	1.45	1.45	1.81	1.81	1.81	5.15	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 35 + 35	1.69	1.69	2.11	2.11	2.95	2.95	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 35 + 50	1.54	1.54	1.93	1.93	2.70	3.86	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 35 + 60	1.46	1.46	1.82	1.82	2.55	4.38	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 25 + 25 + 50 + 50	1.42	1.42	1.78	1.78	3.55	3.55	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 25 + 35 + 35 + 35	1.59	1.59	1.99	2.78	2.78	2.78	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 25 + 35 + 35 + 50	1.46	1.46	1.82	2.55	2.55	3.65	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 25 + 35 + 35 + 60	1.38	1.38	1.73	2.42	2.42	4.15	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 20 + 35 + 35 + 35 + 35	1.50	1.50	2.63	2.63	2.63	2.63	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
6 room	20 + 20 + 35 + 35 + 35 + 50	1.38	1.38	2.42	2.42	2.42	3.46	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
100111	20 + 25 + 25 + 25 + 25 + 25	1.86	2.33	2.33	2.33	2.33	2.33	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 25 + 25 + 25 + 25 + 35	1.74	2.18	2.18	2.18	2.18	3.05	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 25 + 25 + 25 + 25 + 50	1.59	1.99	1.99	1.99	1.99	3.97	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 25 + 25 + 25 + 25 + 60	1.50	1.88	1.88	1.88	1.88	4.50	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 25 + 25 + 25 + 25 + 71	1.41	1.77	1.77	1.77	1.77	5.02	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 25 + 25 + 25 + 35 + 35	1.64	2.05	2.05	2.05	2.86	2.86	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	20 + 25 + 25 + 25 + 35 + 50	1.50	1.88	1.88	1.88	2.63	3.75	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 25 + 25 + 25 + 35 + 60	1.42	1.78	1.78	1.78	2.49	4.26	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 25 + 25 + 25 + 50 + 50	1.38	1.73	1.73	1.73	3.46	3.46	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 25 + 25 + 35 + 35 + 35	1.54	1.93	1.93	2.70	2.70	2.70	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 25 + 25 + 35 + 35 + 50	1.42	1.78	1.78	2.49	2.49	3.55	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 25 + 35 + 35 + 35 + 35	1.46	1.82	2.55	2.55	2.55	2.55	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	20 + 35 + 35 + 35 + 35 + 35	1.38	2.42	2.42	2.42	2.42	2.42	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 25 + 25	2.33	2.33	2.33	2.33	2.33	2.33	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 25 + 35	2.11	2.11	2.11	2.11	2.11	2.95	4.5	13.5	13.8	1150	3320	3420	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 25 + 50	1.93	1.93	1.93	1.93	1.93	3.86	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 25 + 60	1.82	1.82	1.82	1.82	1.82	4.38	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 35 + 35	1.99	1.99	1.99	1.99	2.78	2.78	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 35 + 50	1.82	1.82	1.82	1.82	2.55	3.65	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 35 + 60	1.73	1.73	1.73	1.73	2.42	4.15	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	25 + 25 + 25 + 35 + 35 + 35	1.88	1.88	1.88	2.63	2.63	2.63	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	25 + 25 + 25 + 35 + 35 + 50	1.73	1.73	1.73	2.42	2.42	3.46	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8
	25 + 25 + 35 + 35 + 35 + 35	1.78	1.78	2.49	2.49	2.49	2.49	4.5	13.5	13.8	1150	3310	3420	15.1	14.4	13.8

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# 6. SELECTION CHARTS

Correct the cooling and heating capacity in accordance with the conditions as follows. The net cooling and heating capacity can be obtained in the following way.

Net capacity = Capacity shown on specification × Correction factors as follows.

(1) Coefficient of cooling and heating capacity in relation to temperatures





Piping length [m]	7	10	15	20	25
Cooling	1.0	0.99	0.975	0.965	0.95
Heating	1.0	1.0	1.0	1.0	1.0

# (3) Correction relative to frosting on outdoor heat exchanger during heating

In additions to the foregoing corrections (1), (2) the heating capacity needs to be adjusted also with respect to the frosting on the outdoor heat exchanger.

Air inlet temperature of outdoor unit in °CWB	-15	-10	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.95	0.95	0.94	0.93	0.91	0.88	0.86	0.87	0.92	1.00

# How to obtain the cooling and heating capacity

Example : The net cooling capacity of the model SCM80ZJ-S1 (SRK25ZJX-S : 4 units) with the piping length of 10m, indoor wet-bulb temperature at  $19.0^{\circ}$ C and outdoor dry-bulb temperature  $35^{\circ}$ C is Net cooling capacity =



# 7. OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

#### 7.1 SRK, SRF and SRR series (1) Operation control function by remote control (a) SRK series Models SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2 **Remote control** Operation section FAN SPEED button **OPERATION MODE** select button Each time the button is pressed, the Each time the button pressed, the display is switched over in turn. display is switched over in turn. **HI POWER/ECONO button ON/OFF** (luminous) button 88:86 This button changes the HIGH POWER/ Press to start operation, press again to 30 411 ECONOMY mode stop ON/OFF FAN SPEED AIR FLOW (UP/DOWN) button This button changes the air flow (up/down) **TEMPERATURE** button Con HI POWER direction These buttons sets the indoor temperature. ECONO TEM AIR FLOW (These buttons are used for setting the AIR FLOW (LEFT/RIGHT) button current time and timer function as well.) This button changes the air flow (left/right) direction. **ON TIMER** button ON <u>3D</u> TIMEF This button selects ON TIMER operation. **3D AUTO button** ALLERGEN SLEEP CANCE This button sets 3D AUTO operation. CLEAN 🔶 ACL SLEEP button **OFF TIMER** button This button selects SLEEP operation. This button selects OFF TIMER operation ACL switch **CLEAN** switch This switch is for resetting microcomputer This switch changes the CLEAN mode. and setting time. (1)(2)The above illustration shows all controls, but in practice **CANCEL** button only the relevant parts are shown ALLERGEN CLEAR button This button cancels the ON timer, OFF timer and SLEEP operation Notes (1) In case of SCM multi system, Allergen Clear Control function is invalid. (2) In case of SCM multi system, if [ALLERGEN CLEAR] button is pressed by mistake, the outdoor unit stops to be [All stop indoor units] mode. RUN (HOT KEEP) light (green/blue) Unit display section Illuminates during operation green : except ECONO operation Unit ON/OFF button blue : ECONO operation 1 • Blinks when airflow stops due to the 'HOT KEEP', 'CLEAN operation' and 'operation This button can be used for turning on/off the unit when remote control is not available. mode invalid'. 1.5 sec ON HOT KEEP ON/OFF Remote control signal receiver OFF 0.5 sec 3 sec RUN ON CLEAN operation TIMER 🕘 OFF sec HI POWER 0.5 sec. ON Operation mode 3D AUTO 🕀 invalid OFF 000 0.5 sec 3D AUTO light (green)

Illuminates during 3D AUTO operation.
(HI POWER light (green)

TIMER light (yellow)

Illuminates during TIMER operation.







#### (c) SRR series



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# (2) Unit ON/OFF button

When the remote control batteries become weak, or if the remote control is lost or malfunctioning, this button may be used to turn the unit on and off.

#### (a) Operation

Push the button once to place the unit in the automatic mode. Push it once more to turn the unit off.

# (b) Details of operation

The unit will go into the automatic mode in which it automatically determines, from indoor temperature (as detected by sensor), whether to go into the cooling, thermal dry or heating modes.

Function operation mode	Indoor temperature setting	Fan speed	Flap/Louver	Timer Switch
COOL	About 24°C			
DRY	About 25°C	About 25°C Auto		Continuous
HEAT	About 26°C			

#### · Model SRK20, 25, 35ZJX-S, 50ZJX-1, 60ZJX-S2 · Model SRK20, 25, 35, 50ZJ-S





· Model SRK71ZK-S



Unit ON/OFF button

· Model SRF25, 35ZJX-S, 50ZJX-S1



· Model SRR25, 35, 50ZJ-S, 60ZJ-S1



#### (3) Auto restart function

(a) Auto restart function records the operational status of the air-conditioner immediately prior to be switched off by a power cut, and then automatically resumes operations after the power has been restored.

- (b) The following settings will be cancelled:
  - (i) Timer settings
  - (ii) HIGH POWER operations
- Notes (1) Auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off.
  - (2) When power failure ocurrs, the timer setting is cancelled. Once power is resumed, reset the timer.
  - (3) If the jumper wire (J170 or JA1) "AUTO RESTART" is cut, auto restart is disabled. (See next page)

# Model SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2 Model SRK20, 25, 35, 50ZJ-S 71ZK-S SRF25, 35ZJX-S, 50ZJX-S1 SRR25, 35, 50ZJ-S, 60ZJ-S1



# (4) Custom cord switching procedure

If two wireless remote control are installed in one room, in order to prevent wrong operation due to mixed signals, please modify the printed circuit board in the indoor unit's control box and the remote control using the following procedure. Be sure to modify both boards. If only one board is modified, receiving (and operation) cannot be done.

# (a) Modifying the indoor printed circuit board

Take out the printed circuit board from the control box and cut off jumper wire (J171 or JA2) using wire cutters.

After cutting of the jumper wire, take measures to prevent contact with the other the lead wires, etc.

#### Model SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2 Model SRK20, 25, 35, 50ZJ-S 71ZK-S SRF25, 35ZJX-S, 50ZJX-S1 SRR25, 35, 50ZJ-S, 60ZJ-S1

Jumper wire (J171)



(b) Modifying the wireless remote control

- (i) Remove the battery.
- (ii) Cut the jumper wire shown in the figure at right.

# Q

Jumper wire (JA2)





- (5) Selection of the annual cooling function
- (a) The annual cooling function can be enabled or disabled by means of the jumper wire (J172 or JA3) on the indoor unit PCB and the dip switch (SW2-4) on the interface kit (optional) PCB.

Jumper wire (J172 or JA3)	Interface kit (SC-BIKN-E) SW2-4	Function
Shorted	ON	Enabled
Shorted	OFF	Disabled
Open	ON	Disabled
Open	OFF	Disabled

Note: (1) Default states of the jumper wire (J172 or JA3) and the interface kit at the shipping from factory -On the PCB, the dip switch (SW2-4) is set to enable the annual cooling function.

(2) To cancel the annual cooling setting, consult your dealer.

#### • Model SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2 • Model SRK20, 25, 35, 50ZJ-S 71ZK-S SRF25, 35ZJX-S, 50ZJX-S1



### (b) Content of control

(i) If the outdoor air temperature sensor (Th2) detects below 5°C, the indoor unit — speed is switched to 9th step. (It is not possible to change.)

(ii) If the outdoor air temperature sensor (Th2) detects higher than A°C, the indoor unit speed is changed to the normal control speed.



nıı	Model	А
oor	SRK20, 25, 35ZJX-S, 50ZJX-1, 60ZJX-S2 SRR25, 35, 50ZJ-S, 60ZJ-S1	17
	SRK71ZK-S SRF25, 35ZJX-S, 50ZJX-S1	7
	SRK20, 25, 35, 50ZJ-S	10

#### (6) High power operation

Pressing the HI POWER/ECONO button intensifies the operating power and initiates powerful cooling and heating operation for 15 minutes continuously. The remote control displays and the FAN SPEED display disappears.

- (a) During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling and heating, press the HI POWER/ECONO button again to cancel the HIGH POWER operation.
- (b) HIGH POWER operation is not available during the DRY and the program timer operations.
- (c) When HIGH POWER operation is set after ON TIMER operation, HIGH POWER operation will start from the set time.
- (d) When the following operation are set, HIGH POWER operation will be canceled.
  - ① When the HI POWER/ECONO button is pressed again.
  - ② When the operation mode is changed.
  - ③ When it has been 15 minutes since HIGH POWER operation has started.
- (e) Not operable while the air conditioner is OFF.
- (f) After HIGH POWER operation, the sound of refrigerant flowing may be heard.

# (7) Economy operation

Pressing the HI POWER/ECONO button initiate a soft operation with the power suppressed in order to avoid an excessive cooling or heating. The unit operate  $1.5^{\circ}$ C higher than the setting temperature during cooling or  $2.5^{\circ}$ C lower than that during heating. The remote control displays ECONO mark and the FAN SPEED display disappears.

Note (1) The figure below shows the SRK71ZK-S only.

50

Humidity (%)

60

Heating

+0.5

0

-0.5

45

50

Humidity (%)

55

- (a) It will go into ECONOMY operation at the next time the air conditioner runs in the following cases.
  - 1 When the air-conditioner is stopped by ON/OFF button during ECONOMY operation.
  - ② When the air-conditioner is stopped in SLEEP or OFF TIMER operation during ECONOMY operation.

Cooling

+0.5

0

-0.5

- ③ When the operation is retrieved from CLEAN or ALLERGEN CLEAR operation.
- (b) When the following operation are set, ECONOMY operation will be canceled.
  - 1 When the HI POWER/ECONO button is pressed again.
  - (2) When the operation mode is changed DRY to FAN.
- (c) Not operable while the air-conditioner is OFF.
- (d) The setting temperature is adjusted according to the following table.

Item	Cooling	Heating
T	①+0.5	①-1.0
adjustment	2+1.0	2-2.0
adjustment	$3+1.5^{(1)}$	$3-2.5^{(1)}$

① at the start of operation.

② one hour after the start of operation.

3 two hours after the start of operation.



# SRK series

Control the flap and louver by AIRFLOW  $\clubsuit$  (UP/DOWN) and  $\clubsuit$  (LEFT/RIGHT) button on the wireless remote control.

40

# (a) Flap

Each time when you press the AIRFLOW  $\blacklozenge$  (UP/DOWN) button the mode changes as follows.



• Angle of Flap from Horizontal

Model SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2

Remote control display	-7	<b>_</b>	Ţ	۲,	$\mathbf{\bar{z}}$
COOL , DRY, FAN	Approx. 5°	Approx. 20°	Approx. 35°	Approx. 45°	Approx. 60°
HEAT	Approx. 20°	Approx. 35°	Approx. 45°	Approx. 60°	Approx. 75°

Model SRK20, 25, 35, 50ZJ-S

Remote control display	-7	<b>_</b>	Ţ	۲,	$\begin{bmatrix} 1 \\ \bullet \end{bmatrix}$
COOL , DRY, FAN	Approx. 10°	Approx. 25°	Approx. 40°	Approx. 50°	Approx. 60°
HEAT	Approx. 25°	Approx. 40°	Approx. 50°	Approx. 60°	Approx. 70°

# Model SRK71ZK-S

Remote control display	-5	٦_	ŗ	Ŋ	Ŋ
COOL , DRY, FAN	Approx. 5°	Approx. 25°	Approx. 35°	Approx. 55°	Approx. 80°
HEAT	Approx. 25°	Approx. 40°	Approx. 50°	Approx. 60°	Approx. 80°

# (b) Louver

#### Model SRK20, 25, 35ZJX-S, 50ZJX-S1, 60ZJX-S2, 20, 25, 35, 50ZJ-S

Each time when you press the AIRFLOW (LEFT/RIGHT) button the mode changes as follows.



### (d) Memory flap (Flap or Louver stopped)

When you press the AIRFLOW (UP/DOWN or LEFT/RIGHT) button once while the flap or louver is operating, it stops swinging at the position. Since this angle is memorized in the microcomputer, the flap or louver will automatically be set at this angle when the next operation is started.

#### (e) When not operating

The flap returns to the position of air flow directly below, when operation has stopped.

# (e) Multi-directional Air Flow (up/down air scroll and left/right air scroll) [SRK71ZK-S only]

Activating both up/down air swing and left/right air swing at the same time results in a multi-directional air flow.



Thick line \_\_\_\_\_: moves quickly Thin line \_\_\_\_\_: moves slowly

# SRF series

Control the flap by AIRFLOW  $\blacklozenge$  (UP/DOWN) button on the wireless remote control.

### (a) Flap

Each time when you press the AIRFLOW  $\blacklozenge$  (UP/DOWN) button the mode changes as follows.



• Angle of Flap from Horizontal

Remote control display	ď	Ď	Ĩ	٦ <sup>°</sup>	<u></u>
COOL , DRY, FAN	Approx. 60°	Approx. 50°	Approx. 38°	Approx. 21.5°	Approx. 12°
HEAT	Approx. 44°	Approx. 32°	Approx. 21.5°	Approx. 12°	Approx. 5°

### (b) Swing

(i) Swing flap

Flap moves in upward and downward directions continuously.



# (c) Memory flap (Flap stopped)

When you press the AIRFLOW button once while the flap is operating, it stops swinging at the position. Since this angle is memorized in the microcomputer, the flap will automatically be set at this angle when the next operation is started.

# (d) When not operating

The flap returns to the position of air flow directly below, when operation has stopped.

# (9) Air outlet selection (SRF series only)

- (a) AIR SELECTION button can switch between the combination of upper and lower air outlets and upper air outlet. Not operable while the air conditioner is OFF.
  - (i) Each time the AIR SELECTION button is pressed. The combination of the upper and lower air outlets and the upper air outlet can be switched.
  - (ii) When the upper air outlet is selected, AIR OUTLET SELECTION light on the unit display area will light green.

Upper and lower air outlets —	→ Upper air outlet —
AIR OUTLET SELECTION	AIR OUTLET SELECTION
light : OFF	light : ON



# (b) Auto air outlet selection

# (i) COOL, DRY operation

- In case both lower and upper outlets operation is selected in COOL or DRY operation, both outlets will be kept for sixty minutes after the start or until indoor temperature is below the setting point. And then the air outlet will change to the upper outlet. That state will be maintained until switch is turned off.
- 2) In case both outlets operation with Auto fan speed mode is selected, the upper outlet will be kept for ten minutes after the start or until indoor temperature is close to reaching the setting point. And then the air outlet will change to both outlets in order to spread comfort air to every corner.



# (ii) HEAT operation

- In case both lower and upper outlets operation with Auto fan speed mode is selected, the lower outlet will be kept for twenty minutes after the start or until indoor temperature is close to reaching the setting point. And then the air outlet will change to both outlets. That state will be maintained until the switch is turned off.
- 2) Automatic adjustment of lower air outlet direction prevents stirring up of warm air and keeps optimum comfort at floor level.

# (10) 3D auto operation (SRK series only)

# (Except SRK71ZK-S model)

Control the flap and louver by 3D AUTO button on the wireless remote control.

Air flow selection and air flow direction are automatically controlled, allowing the entire indoor to efficiently conditioned.

- (a) During Cooling and Heating (Including auto cooling and heating)
  - (i) Air flow selection is determined according to indoor temperature and setting temperature.

Operation mode	Air flow selection							
Operation mode	AL	ТО	HI	MED	LO			
Cooling	Indoor temp. – Setting temp. >5°C	Indoor temp. – Setting temp. $\leq 5^{\circ}C$						
cooling	HIGH POWER	AUTO	111	MED	IO			
Heating	Setting temp. – Indoor temp. >5°C	Setting temp. – Indoor temp. $\leq 5^{\circ}$ C		MED	LO			
neating	HIGH POWER	AUTO						
- (ii) Air flow direction is controlled according to the indoor temperature and setting temperature.
  - 1) When 3D auto operation starts

	Cooling Heating				
Flap	Up/down Swing				
Louver	Wide (fixed)   Center (fixed)				

2) When Indoor temp. – Setting temp. is ≤ 5°C during cooling and when Setting temp. – Indoor temp. is ≤ 5°C during heating, the system switches to the following air flow direction control. After the louver swings left and right symmetrically for 3 cycles, control is switched to the control in 3).

	Cooling Heating				
Flap	Horizontal blowing (Fixed)	Slant forwardl blowing (Fixed)			
Louver	Left/right Swing				

3) After the flap swings for 5 cycles, control is switched to the control in 4).

	Cooling Heating				
Flap	Up/down Swing				
Louver	Center (Fixed)				

4) For 5 minutes, the following air flow direction control is carried out.

	Cooling Heating			
Flap	Horizontal blowing (Fixed)	Slant forwardl blowing (Fixed)		
Louver	Wide (Fixed)			

5) After 5 minutes have passed, the air flow direction is determined according to the indoor temperature and setting temperature.

Operation mode	Air flow direction contorol					
Cooling	Indoor temp. – Setting temp. $\leq 2^{\circ}C$	$2^{\circ}C < Indoor temp Setting temp. \leq 5^{\circ}C$	Indoor temp. – Setting temp. $> 5^{\circ}C$			
cooling	The control in 4) continues.	Control returns to the control in 2).	Control returns to the control in 1).			
Heating	Setting temp. – Indoor temp. $\leq 2^{\circ}C$	$2^{\circ}C < Setting temp Indoor temp. \leq 5^{\circ}C$	Setting temp. – Indoor temp. $> 5^{\circ}C$			
Heating	The control in 4) continues.	Control returns to the control in 2).	Control returns to the control in 1).			

#### (b) During DRY Operation (including auto DRY operation)

Flap	Horizontal blowing (Fixed)
Louver	Wide (Fixed)

#### (11) Timer operation

#### (a) Comfortable timer setting (ON timer)

If the timer is set at ON when the operation select switch is set at the cooling or heating, or the cooling or heating in auto mode operation is selected, the comfortable timer starts and determines the starting time of next operation based on the initial value of 15 minutes and the relationship between the indoor temperature at the setting time (temperature of room temperature sensor) and the setting temperature.

#### (b) Sleep timer operation

Pressing the SLEEP button causes the temperature to be controlled with respect to the set temperature.

#### (c) OFF timer operation

The OFF timer can be set at a specific time (in 10-minute units) within a 24-hour period.

## (12) Installation location setting (SRK series only)

## (Except SRK71ZK-S model)

or more.

When the indoor unit is installed at the end of a room, control the air flow direction so that it is not toward the side walls. If you set the remote control installation position, keep it so that the air flow is within the range shown in the following figure.

## (a) Setting

(i) If the air conditioning unit is running, press the ON/OFF button to stop. The installation location setting cannot be made while the unit is running.

## 

The installation location display illuminates.

#### (iii) Setting the air-conditioning installation location.

Press the AIR FLOW (LEFT/RIGHT) button and adjust to the desired location.

Each time the AIR FLOW (LEFT/RIGHT) button is pressed, the

indicator is switched in the order of:



#### ALTO MED IO FAN SPEED ON/OFF MODE FAN SPEED ON/OFF MODE (i), (iv) (ii) (iii) (iii) ON TEMP ALTO SLEEP CANCEL OF ALLERGEN CLEAN 55<sup>6</sup> ACL

#### (iv) Press the ON/OFF button.

The air-conditioner's installation location is set.

Press within 60 seconds of setting the installation location (while the installation location setting display illuminates).



## (13) Determining the operating mode

#### The cooling and heating operating modes are the remote control mode that have been previously determined.

If a mode differing from these is selected after this, the selected mode will appear in the display of the remote control, but only the fan will operate.

Frankla	First operation			5	NI-4		
Example	Selected Mode	Remote Control Display	Operation	Selected Mode	Remote Control Display	Operation	Notes
1	Cooling	COOL	COOL	Heating	HEAT	FAN (1)	Different mode is
2	Heating	HEAT	HEAT	Cooling	COOL	FAN	only fan operation.

Note (1) If the display shows heating and the operation is fan, Hot Keep will operate. **Example of operating pattern** 



## (14) Drain motor (DM) control (SRR series only)

(a) Drain motor (DM) is operated during the cooling or dehumidifying mode operations and simultaneously wity the compressor ON. The DM continues to operate for 5 minutes after the operation stop, anomalous stop, thermostat stop or when it was switched from the COOL and DRY operations to the fan or HEAT operation.

Indoor unit operation mode								
	Stop <sup>(1)</sup>	COOL	DRY	FAN <sup>(2)</sup>	HEAT	Note	(1) Including the stop from the cooling, dehumidityin	g, fan
Compressor ON			Control A			1	<ul><li>(2) Including the "FAN" operation according to the incruction of a constraint and according to the incruction of a constraint and according to the incruction of a constraint and according to the incruction of a constraint and according to the incruction of a constraint and according to the incruction of a constraint and according to the incruction of a constraint and according to the incruction of a constraint and incruction /li></ul>	
Compressor OFF	F Control B			-		mismatch of operation modes		

#### (i) Control A

- 1) If the float switch detects any anomalous draining condition, the unit stops with the anomalous stop and the drain pump starts. After detecting the anomalous condition, the drain motor comtinues to be ON.
- 2) It keeps operating while the float switch is detecting the anomalous condition.

#### (ii) Control B

If the float switch detects any anomalous drain condition, the drain motor is turned ON for 5 minutes, and at 10 seconds after the drain motor OFF it checks the float switch. If it is normal, the unit is stopped under the normal mode or, if there is any anomalous condition, displayed by the flashing of display lights and the drain motor is turned ON. (The ON condition is maintained during the drain detection.)

# 7.2 FDTC, FDEN and FDUM series

## (1) Remote control (Option parts)

## (a) Wired remote control (RC-E5)

The figure below shows the remote control with the cover opened. Note that all the items that may be displayed in the liquid crystal display area are shown in the figure for the sake of explanation

Characters displayed with dots in the liquid crystal display area are abbreviated.

The figure below shows the remote control with the cover opened.



\* All displays are described in the liguid crystal display for explanation.

#### (b) Wireless remote control



\* All displays are described in the liquid crystal display for explanation

## (2) Operation control function by the wired remote control

(a) Switching sequence of the operation mode switches of remote control



## (b) [CPU reset]

This functions when "CHECK" and "GRILL" buttons on the remote control are pressed simultaneously. Operation is same as that of the power supply reset.

#### (c) [Power failure compensation function]...Electric power supply failure

- This becomes effective if "Power failure compensation effective" is selected with the setting of remote control function.
- Since it memorizes always the condition of remote control, it starts operation according to the contents of memory no sooner than normal state is recovered after the power failure. Although the auto swing stop position and the timer mode are cancelled, the weekly timer setting is restored with the holiday setting for all weekdays.

After recovering from the power failure, it readjusts the clock and resets the holiday setting for each weekday so that the setting of weekly timer becomes effective.

• Content memorized with the power failure compensation are as follows.

Note (1) Items<sup>®</sup>, <sup>(7)</sup> and <sup>®</sup> are memorized regardless whether the power failure compensation is effective or not while the setting of silent mode is cancelled regardless whether the power failure compensation is effective or not.

① At power failure – Operating/stopped

If it had been operating under the off timer mode, sleep timer mode, the state of stop is memorized. (Although the timer mode is cancelled at the recovery from power failure, the setting of weekly timer is changed to the holiday setting for all weekdays.)

- Operation mode
- ③ Airflow volume mode
- ④ Room temperature setting
- ⑤ Louver auto swing/stop

However, the stop position (4-position) is cancelled so that it returns to Position (1).

- (6) "Remote control function items" which have been set with the remote control function setting ("Indoor function items" are saved in the memory of indoor unit.)
- ⑦ Upper limit value and lower limit value which have been set with the temperature setting control
- <sup>®</sup> Sleep timer and weekly timer settings (Other timer settings are not memorized.)

#### [Parts layout on remote control PCB]



A maximum of two remote controls	can be connected to	one indoor u	init (or one group of indoor units.)
	Switch	Setting	Contents
Indoor units	S/M/1	М	Master remote control
	3001	S	Slave remote control
Remote Control Remote control SW1 'Master' SW1 'Ski	ntrol	SV	Master Islave V1
Note: The setting "Remote com remote control in the pos The air conditioner opera the master / slave setting	trol thermistor enab ition where you wa tion follows the last of it.	oled" is only nt to check t operation	selectable with the master room temperature. of the remote control regardless
Caution			
When using multiple re	emote controls, the	following o	lispiays or settings
cannot be done with th	ne slave remote co	ntrol. It is a	vailable only with
the master remote cor	itrol.	wor limit of	owinging range)
<ol> <li>Setting indoor unit fr</li> </ol>	unctions		swinging range)
3Setting temperature	range		
	lay		
④Operation data disp			
<ul> <li>④Operation data disp</li> <li>⑤Error data display</li> </ul>			
<ul> <li>④Operation data disp</li> <li>⑤Error data display</li> <li>⑥Silent mode setting</li> </ul>			
Operation data disp SError data display Silent mode setting OTest operation of drawners	ain pump		

## (3) Operation control function by the indoor control

## (a) Auto operation

If "Auto" mode is selected by the remote control, the heating and the cooling are automatically switched according to the difference between outdoor air temperature and setting temperature and the difference between setting temperature and return air temperature. (When the switching of cooling mode  $\leftrightarrow$  heating mode takes place within 3 minutes, the compressor does not operate for 3 minutes by the control of 3-minute timer.) This will facilitate the cooling/heating switching operation in intermediate seasons and the adaptation to unmanned operation at stores, etc (ATM corner of bank).



Room temperature (detected with ThI-A) [deg]

Note (1) Room temperature control during auto cooling/auto heating is performed according to the room temperature setting temperature. (DIFF: ±1 deg)

#### (b) Operations of functional items during cooling/heating

Operation	со	OL			HEAT		
Functional item	Thermostat ON	Thermostat OFF	FAN	Thermostat ON	Thermostat OFF	Hot start (Defrost)	DRY
Compressor	0	×	×	0	×	0	O/X
4-way valve	×	×	×	0	0	$\bigcirc$ (×)	×
Outdoor unit fan	0	×	×	0	×	⊖(×)	O/X
Indoor unit fan	0	0	0	O/×	O/×	O/×	O/X
Louver motor		O/×		O/×	O/x	O/×	O/X
Drain pump <sup>(3)</sup>	0	× <sup>(2)</sup>	× <sup>(2)</sup>		$O/\times^{(2)}$		Thermostat ON: O Thermostat OFF: X <sup>(2)</sup>

Note (1) O: Operation  $\times$ : Stop O/ $\times$ : Turned ON/OFF by the control other than the room temperature control.

(2) ON during the drain motor delay control.

(3) Drain pump ON setting may be selected with the indoor unit function setting of the wired remote control.

#### (c) Dehumidifying operation

Return air temperature thermistor [ThI-A (by the remote control when the remote control thermistor is enabled)] controls the indoor temperature environment simultaneously.

- (i) Operation is started in the cooling mode. When the difference between the return air temperature and the setting temperature is 2°C or less, the indoor unit fan tap is brought down by one tap. That tap is retained for 3 minutes after changing the indoor unit fan tap.
- (ii) If the return air temperature exceeds the setting temperature by 3°C during defrosting operation, the indoor unit fan tap is raised. That tap is retained for 3 minutes after changing the indoor unit fan tap.
- (iii) If the thermostat OFF is established during the above control, the indoor unit fan tap at the thermostat ON is retained so far as the thermostat is turned OFF.
- (iv) After stopping the cooling operation, the indoor unit continues to run at Lo for 15 seconds.

## (d) Timer operation

#### (i) Sleep timer

Set the duration of time from the present to the time to turn off the air-conditioner.

It can be selected from 10 steps in the range from "OFF 1 hour later" to "OFF 10 hours later". After the sleep timer setting, the remaining time is displayed with progress of time in the unit of hour.

(ii) OFF timer

Time to turn OFF the air-conditioner can be set in the unit of 10 minutes.

(iii) ON timer

Time to turn ON the air-conditioner can be set. Indoor temperature can be set simultaneously.

(iv) Weekly timer

Timer operation (ON timer, OFF timer) can be set up to 4 times a day for each weekday.

(v) Timer operations which can be set in combination

Item	Sleep timer	OFF timer	ON timer	Weekly timer
Sleep timer		×	0	×
OFF timer	×		0	×
ON timer	0	0		×
Weekly timer	×	×	×	

Note (1)  $\bigcirc$ : Allowed  $\times$  : Not

(2) Since the ON timer, sleep timer and OFF timer are set in parallel, when the times to turn ON and OFF the airconditioner are duplicated, the setting of the OFF timer has priority.

## (e) Remote control display during the operation stop

When the operation is stopped (the power supply is turned ON), it displays preferentially the "Room temperature", "Center/ Remote", "Filter sign", "Inspection" and "Timer operation".

## (f) Hot start (Cold draft prevention at heating)

## (i) Operating conditions

When either one of following conditions is met, the hot start control is performed.

- 1) From stop to heating operation
- 2) From cooling to heating operation
- 3) Form heating thermostat OFF to ON
- 4) After completing the defrost control (only on units with thermostat ON)

#### (ii) Contents of operation

- 1) Indoor fan motor control at hot start
  - a) Within 7 minutes after starting heating operation, the fan mode is determined depending on the condition of thermostat (fan control with heating thermostat OFF).
    - i) Thermostat OFF
    - ① Operates according to the fan control setting at heating thermostat OFF.
    - (2) Even if it changes from thermostat OFF to ON, the fan continues to operate with the fan control at thermostat OFF till the heat exchanger thermistor (ThI-R1 or R2, whichever higher) detects 35°C or higher.
    - ③ When the heat exchanger thermistor (ThI-R1 or R2, whichever higher) detects 35°C or higher, the fan operates with the set airflow volume.
    - ii) Thermostat ON
      - ① When the heat exchanger thermistor (ThI-R1 or R2, whichever higher) detects 25°C or lower, the fan is turned OFF and does not operate.
      - ② When the heat exchanger thermistor (ThI-R1 or R2, whichever higher) detects 25°C or higher, the fan operates with the fan control at heating thermostat OFF.
      - ③ When the heat exchanger thermistor (ThI-R1 or R2, whichever higher) detects 35°C or higher, the fan operates with the set airflow volume.
  - iii) If the fan control at heating thermostat OFF is set at the "Set airflow volume" (from the remote control), the fan operates with the set airflow volume regardless of the thermostat ON/OFF.
  - b) Once the fan motor is changed from OFF to ON during the thermostat ON, the indoor fan motor is not turned OFF even if the heat exchanger thermistor detects lower than 25°C.

Note (1) When the defrost control signal is received, it complies with the fan control during defrosting.

- c) Once the hot start is completed, it will not restart even if the temperature on the heat exchanger thermistor drops.
- 2) During the hot start, the louver horizontal control signal is transmitted.
- 3) When the fan motor is turned OFF for 7 minutes continuously after defrosting, the fan motor is turned ON regardless of the temperatures detected with the indoor heat exchanger thermistors (ThI-R1, R2).

## (iii) Ending condition

- 1) If one of following conditions is met during the hot start control, this control is terminated, and the fan is operated with the set airflow volume.
  - a) Heat exchanger thermistor (ThI-R1 or R2, whichever higher) detects 35°C or higher.
  - b) It has elapsed 7 minutes after starting the hot start control.

## (g) Hot keep

Hot keep control is performed at the start of the defrost control.

- (i) Control
  - 1) When the indoor heat exchanger temperature (detected with ThI-R1 or R2) drops to 35°C or lower, the speed of indoor fan is changed to the lower tap at each setting.
  - 2) During the hot keep, the louver horizontal control signal is transmitted.
- (ii) Ending condition

When the indoor fan is at the lower tap at each setting, it returns to the set airflow volume as the indoor heat exchanger temperature rises to 45°C or higher.

## (h) Thermostat operation

## (i) Cooling

- 1) Thermostat is operated with the room temperature control.
- 2) Thermostat is turned ON or OFF relative to the set room temperature as shown below.



3) Thermostat is turned ON when the room temperature is in the range of -1 < Set point < +1 at the start of cooling operation (including from heating to cooling).

## (ii) Heating

- 1) Thermostat is operated with the room temperature control.
- 2) Thermostat is turned ON or OFF relative to the set room temperature as shown below.



3) Thermostat is turned ON when the room temperature is in the range of -1 < Set point < +1 at the start of cooling operation (including from cooling to heating).

## (iii) Fan control during heating thermostat OFF

- 1) Following fan controls during the heating thermostat OFF can be selected with the indoor function setting of the wired remote control.
  - (1) Low fan speed (Factory default), (2) Set fan speed, (3) Intermittence, (4) Fan OFF
- 2) When the "Low fan speed (Factory default)" is selected, the following taps are used for the indoor fans.
  - For AC motor : Lo tap
  - For DC motor : ULo tap
- 3) When the "Set fan speed" is selected, it is operated with the set fan speed also in the thermostat OFF condition.

- 4) If the "Intermittence" is selected, following controls are performed:
  - a) If the thermostat is turned OFF during the heating operation, the indoor unit moves to the hot control and turns OFF the indoor fan if the heat exchanger thermistors (both ThI-R1 and R2) detect 25°C or lower.
  - b) Indoor fan OFF is fixed for 5 minutes. After the 5 minutes, the indoor fan is operated at Lo (AC motor) or ULo (DC motor) for 2 minutes. In the meantime the louver is controlled at level.
  - c) After operating at Lo (AC motor) or ULo (DC motor) for 2 minutes, the indoor fan moves to the state of a) above.
  - d) If the thermostat is turned ON, it moves to the hot start control.
  - e) When the heating thermostat is turned OFF, the remote control displays the temperature detected at the fan stop and revises the temperature later when the indoor fan changes from Lo (AC motor) or ULo (DC motor) to stop. The remote control uses the operation data display function to display temperatures and updates values of temperature even when the indoor fan is turned OFF.
  - f) When the defrosting starts while the heating thermostat is turned OFF or the thermostat is turned OFF during defrosting, the indoor fan is turned OFF. (Hot keep or hot start control takes priority.) However, the suction temperature is updated at every 7-minute.
  - g) When the heating thermostat is turned ON or the operation is changed to another mode (including stop), this control is stopped immediately, and the operating condition is restored.
- 5) When the "Fan OFF" is selected, the fan on the indoor unit of which the thermostat has been turned OFF, is turned OFF.

#### (i) Filter sign

As the operation time (Total ON time of ON/OFF switch) accumulates to 180 hours (1), "FILTER CLEANING" is displayed on the remote control. (This is displayed when the unit is in trouble and under the centralized control, regardless of ON/OFF) Note (1) Time setting for the filter sign can be made as shown below using the indoor function of wired remote control "FILTER SIGN SET". (It is set at 1 at the shipping from factory.)

Filter sign setting	Function
TYPE 1	Setting time: 180 hrs (Factory default)
TYPE 2	Setting time: 600 hrs
TYPE 3	Setting time: 1,000 hrs
TYPE 4	Setting time: 1,000 hrs (Unit stop) <sup>(2)</sup>

(2) After the setting time has elapsed, the "FILTER CLEANING" is displayed and, after operating for 24 hours further (counted also during the stop), the unit stops.

## (j) Auto swing control [Applicable model: FDTC and FDEN]

#### (i) Louver control

- 1) Press the "LOUVER" button to operate the swing louver when the air conditioner is operating. "SWING = "is displayed for 3 seconds and then the swing louver moves up and down continuously.
- 2) To fix the swing louver at a position, press one time the "LOUVER" button while the swing louver is moving so that four stop positions are displayed one after another per second.

When a desired stop position is displayed, press the "LOUVER" button again. The display stops, changes to show the "STOP 1 – – " for 5 seconds and then the swing louver stops.

3) Louver operation at the power on with a unit having the louver 4-position control function

The louver swings one time automatically (without operating the remote control) at the power on.

This allows inputting the louver motor (LM) position, which is necessary for the microcomputer to recognize the louver position.

(ii) Automatic louver level setting during heating

At the hot start with the heating thermostat OFF, regardless whether the auto swing switch is operated or not (auto swing or louver stop), the louver takes the level position (In order to prevent the cold start). The louver position display LCD continues to show the display which has been shown before entering this control.

(iii) Louver-free stop control

When the louver-free stop has been selected with the indoor function of wired remote control " $=_{71}$  POSITION", the louver motor stops when it receives the stop signal from the remote control. If the auto swing signal is received from the remote control, the auto swing will start from the position where it was before the stop.

Note (1) When the indoor function of wired remote control " $=_{71}$  POSITION" has been switched, switch also the remote control function " $=_{71}$  POSITION" in the same way.

#### (k) Compressor inching prevention control

#### (i) 3-minute timer

When the compressor has been stopped by the thermostat, remote control operation switch or anomalous condition, its restart will be inhibited for 3 minutes. However, the 3-minute timer is invalidated at the power on the electric power source for the unit.

- (ii) 3-minute forced operation timer
  - Compressor will not stop for 3 minutes after the compressor ON. However, it stops immediately when the unit is stopped by means of the ON/OFF switch or by when the thermister turned OFF the change of operation mode.
  - If the thermostat is turned OFF during the forced operation control of heating compressor, the louver position (with the auto swing) is returned to the level position.

Note (1) The compressor stops when it has entered the protective control.

#### (I) Drain pump control [Applicable models:FDTC and FDUM]

- (i) This control is operated when the inverter frequency is other than 0 Hz during the cooling operation and automatic cooling and dehumidifying operations.
- (ii) Drain pump ON condition continues for 5 minutes even when it enters the OFF range according to (i) above after turning the drain pump ON, and then stops. The 5-minute delay continues also in the event of anomalous stop.
- (iii) The drain pump is operated with the 5-minute delay operation when the compressor is changed from ON to OFF.
- (iv) Even in conditions other than the above (such as heating, fan, stop, cooling thermostat OFF), the drain pump control is performed by the drain detection.
- (v) Following settings can be made using the indoor function setting of the wired remote control.
  - 1)  $\& \diamond$ : Drain pump is run during cooling and dry.
  - 2) 恭合部0帧: Drain pump is run during cooling, dry and heating.
  - 3) 恭合部(D英部(D琶:Drain pump is run during cooling, dry, heating and fan.
  - 4) 《合部D笔: Drain pump is run during cooling, dry and fan.

#### (m) Drain motor (DM) control [Applicable model: FDTC and FDUM]

(i) Drain detection switch is turned ON or OFF with the float switch (FS) and the timer.

#### Drain detection switch ON



[\*1] Drain detection switch is turned "ON" when the float switch "Open" is detected for 3 seconds continuously in the drain detectable space.

[\*2] Drain detection switch is turned "OFF" when the float switch "Close" is detected for 10 seconds continuously.

- 1) It detects always from 30 seconds after turning the power ON.
  - a) There is no detection of anomalous draining for 10 seconds after turning the drain pump OFF.
  - b) Turning the drain detection switch "ON" causes to turn ON the drain pump forcibly.
  - c) Turning the drain detection switch "OFF" releases the forced drain pump ON condition.

(ii) Indoor unit performs the control A or B depending on each operating condition.

	l	ndoor unit ope	ration mode			
	Stop (1)	COOL	DRY	FAN (2)	HEAT	Note (1) Including the stop from the cooling, dehumidifyi
Compressor ON			Cont	trol A		(2) Including the "FAN" operation according to the
Compressor OFF		Cont	rol B		]	mismatch of operation modes

1) Control A

- a) If the float switch detects any anomalous draining condition, the unit stops with the anomalous stop (displays E9) and the drain pump starts. After detecting the anomalous condition, the drain motor continues to be ON.
- b) It keeps operating while the float switch is detecting the anomalous condition.

#### Control B 2)

If the float switch detects any anomalous drain condition, the drain motor is turned ON for 5 minutes, and at 10 seconds after the drain motor OFF it checks the float switch. If it is normal, the unit is stopped under the normal mode or, if there is any anomalous condition, E9 is displayed and the drain motor is turned ON. (The ON condition is maintained during the drain detection.)

#### (n) Operation check/drain pump test run operation mode

- (i) If the power is turned on by the dip switch (SW7-1) on the indoor PCB when electric power source is supplied, it enters the mode of operation check/drain pump test run. It is ineffective (prohibited) to change the switch after turning power on.
- (ii) When the communication with the remote control has been established within 60 seconds after turning power on by the dip switch (SW7-1) ON, it enters the operation check mode. Unless the remote control communication is established, it enters the drain pump test run mode.

Note (1) To select the drain pump test run mode, disconnect the remote control connector (CNB) on the indoor PCB to shut down the remote control communication.

(iii) Operation check mode

There is no communication with the outdoor unit but it allows performing operation in respective modes by operating the remote control.

(iv) Drain pump test run mode

As the drain pump test run is established, the drain pump only operates and during the operation protective functions by the microcomputer of indoor unit become ineffective.

#### Cooling, dehumidifying frost protection **(**0**)**

(i) To prevent frosting during cooling mode or dehumidifying mode operation, the of compressor speed is reduced if the indoor heat exchanger temperature (detected with ThI-R) drops to 1.0 °C or lower at 4 minutes after the start of compressor operation. If the indoor unit heat exchanger temperature is 1.0 °C or lower after 1 minutes, the compressor speed is reduced further. If it becomes 2.5 °C or higher, the control terminates. When the indoor heat exchanger temperature has become as show below after reducing the compressor speed, it is switched to the fan operation. For the selection of indoor fan speed, refer to item (ii).



(ii) Selection of indoor fan speed

If it enters the frost prevention control during cooling operation (excluding dehumidifying), the indoor unit fan speed is switched

- 1) In cases of FDEN
  - a) When the indoor unit return air temperature (detected with ThI-A) is 23°C or lower, this control is invalidated and, as 2 hours elapse after starting the frost prevention control, it is terminated.
  - b) If it is detected again within 15 minutes from the start of frost prevention control, the indoor fan speed is raised by 1 tap to increase the indoor unit fan speed. If it is detected within further 15 minutes, the indoor unit fan speed is raised by 1 tap more.

Note (1) Indoor unit fan speed can be increased by up to 2 taps.

c) "FAN SPEED SW VALID/INVALID" of this control is selectable with the function setting of remote control.

- 2) In the case of FDTC and FDUM
  - a) When the indoor return air detection temperature (detected with ThI-A) is 23°C or higher and the indoor heat exchanger temperature (detected with ThI-R) detects the compressor frequency drop start temperature A°C+1°C, of indoor unit fan speed is increased by 20rpm.
  - b) If the phenomenon of a) above is detected again after the acceleration of indoor unit fan, indoor unit fan speed is increased further by 20rpm.

Note (1) Indoor unit fan speed can be increased by up to 2 taps.

<ul> <li>Compressor</li> </ul>	frequency	drop start	temperature
--------------------------------	-----------	------------	-------------

Item	А
Temperature - Low (Factory default)	1.0
Temperature - High	2.5

Note (1) Frost prevention temperature setting can be selected with the indoor unit function setting of the wired remote control.

#### (p) Heating overload protection

(i) If the indoor heat exchanger temperature (detected with ThI-R) at 63°C or higher is detected for 2 seconds continuously, the compressor stops. When the compressor is restarted after a 3-minute delay, if a temperature at 63°C or higher is detected for 2 seconds continuously within 60 minutes after initial detection and if this is detected 5 times consecutively, the compressor stops with the anomalous stop (E8). Anomalous stop occurs also when the indoor heat exchanger temperature at 63°C or higher is detected for 6 minutes continuously.



#### (ii) Indoor unit fan speed selection

If, after second detection of heating overload protection up to fourth, the indoor fan is set at Me and Lo taps when the compressor is turned ON, the indoor fan speed is increased by 1 tap.

#### (q) Anomalous fan motor [In case of FDTC and FDUM]

- (i) After starting the fan motor, if the fan motor speed is 200rpm or less is detected for 30 seconds continuously and 4 times within 60 minutes, then fan motor stops with the anomalous stop (E16).
- (ii) If the fan motor fails to reach at -50 rpm less than the required speed, it stops with the anomalous stop (E20).

#### (r) Plural unit control – Control of 16 units group by one remote control

#### (i) Function

One remote control switch can control a group of multiple number of unit (Max. 16 indoor units). "Operation mode" which is set by the remote control switch can operate or stop all units in the group one after another in the order of unit No.<sup>(1)</sup>. Thermostat and protective function of each unit function independently.

Note (1) Unit No. is set by SW2 on the indoor unit control PCB. Unit No. setting by SW2 is necessary for the indoor unit only.

SW2 : For setting of 0 - 9, A - F



(2) Unit No. may be set at random unless duplicated, it should be better to set orderly like 0, 1, 2..., F to avoid mistake.

- (ii) Display to the remote control
  - 1) Center or each remote control basis, heating preparation: the youngest unit No. among the operating units in the remote mode (or the center mode unless the remote mode is available) is displayed.
  - 2) Inspection display, filter sign: Any of unit that starts initially is displayed.
  - 3) Confirmation of connected units

Pressing "AIR CON No." button on the remote control displays the indoor unit address. If " $\blacktriangle$ " " $\blacktriangledown$ " button is pressed at the next, it is displayed orderly starting from the unit of youngest No.

- 4) In case of anomaly
  - a) If any anomaly occurs on a unit in a group (a protective function operates), that unit stops with the anomalous stop but any other normal units continue to run as they are.
  - b) Signal wiring procedure

Signal wiring between indoor and outdoor units should be made on each unit same as the normal wiring. For the group control, lay connect with sires wiring between rooms using terminal blocks (X, Y) of remote control. Connect the remote control communication wire separately from the power supply wire or wires of other electric devices (AC220V or higher).

#### (s) High ceiling control

In the case of indoor unit installed in a higher ceiling room, the airflow volume mode control can be changed with the wired remote control indoor unit function "FAN SPEED SET".

Fan tap		Indoor unit airflow setting					
		8ad <b>i -</b> 8adi - 8adi - 8adi	\$2461 - \$2460 - \$2460	8ad - 8ad	Stati - Stati		
EAN ODEED OFT	STANDARD	PHi - Hi - Me - Lo	Hi - Me - Lo	Hi - Lo	Hi - Me		
FAN SFEED SEI	HIGH SPEED1, 2	PHi - PHi - Hi - Me	PHi - Hi - Me	PHi - Me	PHi - Hi		

Note (1) Factory default is Standard.

(2) At the hot-start and heating thermostat OFF, or other, the indoor unit fan is operated at the low speed tap of each setting.(3) This function is not able to be set with wireless remote controls or simple remote control (RCH-E3)

#### (t) Abnormal temperature thermistor (return air/indoor heat exchanger) wire/short-circuit detection

#### (i) Broken wire detection

When the return air temperature thermistor detects -20°C or lower or the heat exchanger temperature thermistor detect -40°C or lower for 5 seconds continuously, the compressor stops. After a 3-minute delay, the compressor restarts but, if it is detected again within 60 minutes after the initial detection for 6 minutes continuously, stops again (the return air temperature thermistor: E7, the heat exchanger temperature thermistor: E6).

#### (ii) Short-circuit detection

If the heat exchanger temperature thermistor detects 70°C or higher for 5 seconds continuously at 2 minutes and 20 seconds after the compressor ON during cooling operation, the compressor stops (E6).

#### (u) Operation permission/prohibition

## (In case of adopting card key switches or commercially available timers)

When the indoor function setting of wired remote control for "Operation permission/prohibition" is changed from "Invalid (Factory default)" to "Valid", following control becomes effective.



	Normal of (Factory	operation default)	Operation permission/prohibition mode "Valid" (Local setting)		
	ON	OFF	ON	OFF	
CnT-6	Operation	Stop	Operation permission*1	Operation prohibition (Unit stops)	

\*1 **Only the "LEVEL INPUT" is acceptable for external input**, however when the indoor function setting of "Level input (Factory default)" or "Pulse input" is selected by the function for "External input" of the wired remote control, operation status will be changed as follows.

In case of "Level input" setting	In case of "Pulse input" setting
Unit operation from the wired remote control becomes available*(1)	Unit starts operation *(2)

- \*(1) In case that "Operation permission/prohibition mode" setting is "Valid" and "External input" setting is "Level input (Factory default)";
  - ① When card key switch is ON (CnT-6 ON: Operation permission), start/stop operation of the unit from the wired remote control becomes available.
  - 2 When card key switch is OFF (CnT-6 OFF: Operation prohibition), the unit stops operation in conjunction with OFF signal, and start/stop operation of the unit from the wired remote control becomes not available.
- \*(2) In case that "Operation permission/prohibition mode" setting is "Valid" and "External input" setting is "Pulse input (Local setting)";
  - ① When card key switch is ON (Operation permission), the unit starts operation in conjunction with ON signal. and also start/stop operation of the unit from the wired remote control becomes available.
  - 2 When card key switch is OFF (Operation prohibition), the unit stops operation in conjunction with OFF signal, and start/stop operation of the unit from the wired remote control becomes not available.
  - This function is invalid only at "Center mode" setting done by central control.

## (v) External input/output control (CnT)

(3)

Be sure to connect the wired remote control to the indoor unit. Without wired remote control remote operation by CnT is not possible to perform.

[	1 Optional	①Operation output	(CnT-2: XR1)
	2-(XR1)+	<sup>(2)</sup> Heating output	(CnT-3: XR2)
CnT Blue	3 (XR2) •	③Thermostat ON output	(CnT-4: XR3)
12V	4-(XR3)•	④Error output	(CnT-5: XR4)
	6	(5)Remote operation input	(CnT-6: No-voltage contactor)
l	XR5		

## (i) Output for external control (remote display)

Following output connectors (CnT) are provided on the indoor control PCB for monitoring operation status.

- ① **Operation output:** Outputs DC12V signal for driving relay during operation
- (2) Heating output: Outputs DC12V signal for driving relay during heating operation
- 3 Thermostat ON output: Outputs DC12V signal for driving relay when compressor is operating.
- (4) **Error output:** Outputs DC12V signal for driving relay when anomalous condition occurs.

## (ii) Remote operation input

Remote operation input connector (CnT-6) is provided on the indoor control PCB.

However remote operation by CnT-6 is not effective, when "Center mode" is selected by center control.

In case of plural unit (twin, triple, double twin), remote operation input to CnT-6 on the slave indoor unit is invalid.

**Only the "LEVEL INPUT" is acceptable for external input**, however when the indoor function setting of "Level input (Factory default)" or "Pulse input" is selected by the function for "External input" of the wired remote control, operation status will be changed as follows.



Note: The latest operation has priority

It is available to operate/stop by remote control or center control

#### 2) In case of "Pulse input" setting (Local setting)

It is effective only when the input signal to CnT-6 is changed OFF $\rightarrow$ ON, and at that time unit operation [ON/OFF] is inverted.



## (iii) Remote operation

## 1) In case of multiple units (Max. 16 indoor units group) are connected to one wired remote control

When the indoor function setting of wired remote control for "External control set" is changed from "Individual (Factory default)" to "For all units", all units connected in one wired remote control system can be controlled by external operation input.



Ex. Indoor units =  $0+1+2+3+4+5 \cdot \cdot \cdot \cdot C+0+E+E \leq 16$  units

	Individual operation	on (Factory default)	All units operation	on (Local setting)
	ON	OFF	ON	OFF
CnT-6	Only the unit directly connected to the remote control can be operated.	Only the unit directly connected to the remote control can be stopped opeartion.	All units in one remote control system can be operated.	All units in one remote control system can be stopped operation.
	Unit (1) only	Unit (1) only	Units 🛈 – 🕞	Units ① – ④

When more than one indoor unit (Max. 16 indoor units) are connected in one wired remote control system:

- (1) With the factory default, external input to CnT-6 is effective for only the unit (0).
- (2) When setting "For all unit" (Local setting), all units in one remote control system can be controlled by external input to CnT-6 on the indoor unit (1).
- (3) External input to CnT-6 on the other indoor unit than the unit (1) is not effective.

## (w) Fan control at heating startup (Applicable model: FDTC and FDUM)

(i) Start conditions

At the start of heating operation, if the difference of setting temperature and return air temperature is 5°C or higher after the end of hot start control, this control is performed.

- (ii) Contents of control
  - Sampling is made at each minute and, when the indoor unit heat exchanger temperature (detected with ThI-R) is 37°C or higher, present number of revolutions of indoor unit fan speed is increased by 10min<sup>-1</sup>.
  - If the indoor unit heat exchanger temperature drops below 37°C at next sampling, present number of revolutions of indoor unit fan speed is reduced by 10min<sup>-1</sup>.
- (iii) End conditions

Indoor fan speed is reduced to the setting airflow volume when the compressor OFF is established and at 30 minutes after the start of heating operation.

## (x) Room temperature detection temperature compensation during heating

With the standard specification, the compressor is turned ON/OFF with the thermostat setting temperature. When the thermostat is likely to turn OFF earlier because the unit is installed at the ceiling where warm air tends to accumulate, the setting can be changed with the wired remote control indoor unit function " $\Re$  \$P OFFSET". The compressor and the heater are turned ON/OFF at one of the setting temperature +3, +2 or +1°C in order to improve the feeling of heating. The setting temperature, however, has the upper limit of 30°C.



#### (y) Return air temperature compensation

This is the function to compensate the deviation between the detection temperature by the return air temperature thermistor and the measured temperature after installing the unit.

(i) It is adjustable in the unit of 0.5°C with the wired remote control indoor unit function "RETURN AIR TEMP".

(ii) Compensated temperature is transmitted to the remote control and the compressor to control them. Note (1) The detection temperature compensation is effective on the indoor unit thermistor only.

# 7.3 Outline of heating operation

## (1) Summary

#### (a) Capacity control

#### (i) Indoor unit SRK \*\* ZJX models only

Model	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1
Capacity	1.4 - 6.9 kW	1.4 – 7.4 kW	1.4 – 7.5 kW	1.5 – 7.8 kW	1.5 – 9.4 kW	1.5 – 9.8 kW
Model	SCM100ZJ-S1	SCM125ZJ-S1				
Capacity	1.5 – 13.5 kW	1.5 – 14.0 kW				

## (ii) Indoor unit except SRK \*\* ZJX models

Model	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1
Capacity	1.4 – 6.7 kW	1.4 – 7.2 kW	1.4 – 7.3 kW	1.5 – 7.6 kW	1.5 – 9.1 kW	1.5 – 9.5 kW
Model	SCM100ZJ-S1	SCM125ZJ-S1	_			
Capacity	1.5 - 13.3 kW	1.5 – 13.8 kW	-			

Capacity control is within the range shown above. If demand capacity of the indoor units exceeds the maximum capacity of

the outdoor unit, the demand capacity will be proportionally distributed.

#### (b) Outdoor compressor speed control

Indoor compressor command total speed value	Decision speed
0 rps	0 rps
A rps or less	A rps
More than A rps, but B rps or less	A rps to B rps
More than B rps	B rps

• Values of A, B

Item	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1
Α	30 rps	30 rps	30 rps
В	100 rps	120 rps	120 rps

Item	Model	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1	
•	Two connection		40 rps		
А	More than three connection	30 rps			
в	One connection	90 rps			
в	More than two connection	120 rps			

Item	Model	SCM100ZJ-S1	SCM125ZJ-S1	
•	Three connection	31 rps		
A	More than fore connection	31 rps		
B	One connection	80 rps		
В	More than two connection	105 rps	110 rps	

#### (2) Operation of major functional components in heating mode

Functional components		Heating	Thermostat OFF (All indoor units)	Thermostat OFF (Some of indoor units)	Fan, stop, abnormal stop (Some of indoor units)	Failure (Outdoor unit)
Command speed		Multi-operation rpm calculated based on the rpm required for each indoor unit	0 (All indoor units)	0 (Thermostat off units)	0 (Fan, stop, abnormal stop units)	0 (All units)
Indoor	Fixed	According to mode switching	Hot Keep	According to mode switching		Hot Keep
unit fan	Automatic	According to command speed	Hot Keep	According to command speed		Hot Keep
Outdoor	unit fan	According to outdoor unit speed	OFF	According to outdoor unit speed		OFF
Electronic expansion valve		According to decision speed	According to stop mode	According to heating stop unit control (Thermostat off units)	According to heating stop unit control (Fan, stop, abnormal stop units)	According to stop mode
Compres	ssor	ON	OFF	ON	ON	OFF

#### (3) Hot keep operation

If the hot keep operation is selected during the heating operation, the indoor fan is controlled based on the temperature of the indoor unit heat exchanger (Th2) to prevent blowing of cool wind.

However, if the fan speed setting is HI and room temperature is 19°C or higher, this control is not executed.

Note (1) Refer to the FDTC, FDEN and FDUM series by 224 page.

#### (4) Defrosting operation

- (a) Starting conditions (Defrosting operation can be started only when all of the following conditions are met.)
  - (i) After start of heating operationWhen it elapsed 40 minutes. (Accumulated compressor operation time)
  - (ii) After end of defrosting operation

When it elapsed 40 minutes. (Accumulated compressor operation time)

- (iii) Outdoor heat exchanger temperature (Tho-R)When the temperature has been below -2°C for 3 minutes continuously.
- (iv) The condition of outdoor air temperature (Tho-A) and the outdoor heat exchanger temperature (Tho-R)

(Tho-A)−(Tho-R) ≧ 0.44 × (Tho-A) + A		
Tho-A	A	
—2 °C ≦ Tho-A	4(6.5)	
—15 °C ≦ Tho-A < —2 °C	6(10.0)	
Tho-A < −15 °C	6(10.0)	

Note (1) Values in ( ) are for the model SCM100, 125



(v) During continuous compressor operation

In addition, when the speed command from the indoor controller of the indoor unit during heating operation has counted 0 rps 10 times or more and all conditions of (i), (ii), (iii) and (v) above and the outdoor air temperature is 3°C or less are satisfied (note that when the temperature for outdoor heat exchanger sensor (Tho-R) is  $-2^{\circ}$ C or less: 62 rps or more,  $-2^{\circ}$ C or less: less than 62 rps), defrost operation is started.

- (b) Ending conditions (Operation returns to the heating cycle when either one of the following is met.)
  - (i) Outdoor heat exchanger sensor (Tho-R) temperature: 20°C or higher
  - (ii) Outdoor heat exchanger sensor (Tho-R) temperature: 2 min. as for 10°C (model SCM71, 80, 100, 125: 1 min. as for 18°C)
  - (iii) Continued operation time of defrosting  $\rightarrow$  For more than 12 minutes and 50 seconds



X Depends on an operation condition, the time can be longer than 7 minutes.

(c) Switching to defrost operation for snowing regions (SCM100, 125 only)

Open the jumper wire (J15) on the outdoor unit control PCB. The control is changed to the defrosting operation suitable to snowing regions. (The jumper wire is short-circuited at the shipment from factory.)

# 7.4 Outline of cooling operation

## (1) Summary

## (a) Capacity control

## (i) Indoor unit SRK \*\* ZJX models only

Model	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1
Capacity	1.8 - 5.9 kW	1.8 – 6.4 kW	1.8 – 7.1 kW	1.8 – 7.5 kW	1.8 – 8.8 kW	1.8 – 9.2 kW
Model	SCM100ZJ-S1	SCM125ZJ-S1				
Capacity	1.8 – 12.0 kW	1.8 – 14.0 kW	-			

#### (ii) Indoor unit except SRK \*\* ZJX models

Model	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1
Capacity	1.8 – 5.8 kW	1.8 – 6.3 kW	1.8 – 6.9 kW	1.8 – 7.3 kW	1.8 – 8.3 kW	1.8 – 8.7 kW
Madal	CCM10071 C1	COM10E7 L C1				

Model	SCM100ZJ-S1	SCM125ZJ-S1
Capacity	1.8 – 11.8 kW	1.8 – 13.8 kW

Capacity control is within the range shown above. If demand capacity of the indoor units exceeds the maximum capacity of

the outdoor unit, the demand capacity will be proportionally distributed.

## (b) Outdoor compressor speed control

Indoor compressor command total speed value	Decision speed
0 rps	0 rps
A rps or less	A rps
More than A rps, but B rps or less	A rps to B rps
More than B rps	B rps

#### • Values of A, B

Model	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1
Α	30 rps	30 rps	30 rps	20 rps	20 rps	20 rps
В	100 rps	120 rps	120 rps	120 rps	120 rps	120 rps

Model	SCM100ZJ-S1	SCM125ZJ-S1
Α	20-40 rps	20-45 rps
В	110 rps	110 rps

#### (2) Operation of major functional components in cooling mode

Functional components		Cooling	Thermostat OFF (All indoor units)	Thermostat OFF (Some of indoor units)	Fan, stop, abnormal stop (Some of indoor units)	Failure (Outdoor unit)	
Command speed		Multi-operation rpm calculated based on the rpm required for each indoor unit	0 (All indoor units)	0 (Thermostat off units)	0 (Fan, stop, abnormal stop units)	0 (All units)	
Indoor	Fixed	According to mode switching					
unit fan	Automatic	According to command speed	According to mode switching	According to command speed			
Outdoor	unit fan	According to outdoor unit speed	OFF	According to outdoor unit speed OFF			
Electronic expansion valve         According to decision speed         According to stop mode         All closed (Thermostat off units)		All closed (Fan, stop, abnormal stop units)	According to stop mode				
Compressor ON OFF ON ON		ON	OFF				

Unit : °C

# 7.5 Outline of automatic operation

## (1) Determination of operation mode

## (a) SRK20, 25, 35, 50, 60ZJX, SRF and SRR series

The unit checks the indoor air temperature and the outdoor air temperature after operating the indoor and outdoor blowers for 20 seconds, determines the operation mode and the indoor air temperature setting correction value, and then enters in the automatic operation.



- (i) The unit checks the temperature every hour after the start of operation and, if the result of check is not same as the previous operation mode, changes the operation mode.
- (ii) When the unit is started again within one hour after the stop of automatic operation or when the automatic operation is selected during heating, cooling or dehumidifying operation, the unit is operated in the previous operation mode.
- (iii) Setting temperature can be adjusted within the following range. There is the relationship as shown below between the signals of the wireless remote control and the setting temperature.

٠	SRF	series
$\mathbf{v}$	JUL	301103

▼ Shr selles													I	Unit : °C
Signals of wireless remote control (Display)														
		-6	-5	-4	-3	-2	-1	±0	+1	+2	+3	+4	+5	+6
Setting	Cooling	18	19	20	21	22	23	24	25	26	27	28	29	30
temperature	Dehumidifying	18	19	20	21	22	23	24	25	26	27	28	29	30
-	Heating	20	21	22	23	24	25	26	27	28	29	30	31	32

#### SRK, SRR series

				Sigr	nals of v	vireless	remote	control	(Display	r)				
		-6	-5	-4	-3	-2	-1	±0	+1	+2	+3	+4	+5	+6
Setting	Cooling	18	19	20	21	22	23	24	25	26	27	28	29	30
temperature	Dehumidifying	19	20	21	22	23	24	25	26	27	28	28	30	31
-	Heating	20	21	22	23	24	25	26	27	28	29	30	31	32

(iv) When the unit is operated automatically with the wired remote control connected, the cooling operation is controlled according to the display temperatures while the setting temperature is compensated by +1°C during dehumidifying or by +2°C during heating.

## (b) SRK20, 25, 35, 50ZJ-S, 71ZK-S series

The unit checks the indoor air temperature and setting temperature and the outdoor air temperature, determines the operation mode, and then begins in the automatic operation.



- (i) The unit checks the temperature every hour after the start of operation and, if the result of check is not same as the previous operation mode, changes the operation mode.
- 1) If the setting temperature is changed with the remote control, the operation mode is judged immediately.
- 2) When both the indoor and the outdoor air temperatures are in the range "A", cooling or heating is switched depending on the difference between the setting temperature and the indoor air temperature.
- 3) When the operation mode has been judged following the change of setting temperature with the remote control, the hourly judgment of operation mode is cancelled.
- (ii) When the unit is started again within one hour after the stop of automatic operation or when the automatic operation is selected during heating, cooling or dehumidifying operation, the unit is operated in the previous operation mode.
- (iii) Setting temperature can be adjusted within the following range. There is the relationship as shown below between the signals of the wireless remote control and the setting temperature.

Unit : °	C
----------	---

		Signals of wireless remote control (Display)												
		-6	-5	-4	-3	-2	-1	±0	+1	+2	+3	+4	+5	+6
Setting temperature	Cooling	18	19	20	21	22	23	24	25	26	27	28	29	30
	Dehumidifying	19	20	21	22	23	24	25	26	27	28	29	30	31
	Heating	20	21	22	23	24	25	26	27	28	29	30	31	32

(iv) When the unit is operated automatically with the wired remote control connected, the cooling operation is controlled according to the display temperatures while the setting temperature is compensated by +1°C during dehumidifying or by +2°C during heating.

## (c) FDTC, FDEN and FDUM series

Refer to page 222.

## 7.6 Operation permission/prohibition control

#### (Refer to the FDTC, FDEN and FDUM series by 230 page)

The air conditioner operation is controlled by releasing the jumper wire (J3) on the indoor PCB and inputting the external signal into the CnT.

Note (1) Please install the separately-sold Interface kit (SC-BIK-E). Remove the jumper wire (J1 or J3) from the Interface kit circuit board.

#### (1) The operation mode is switched over between permission and prohibition by releasing the jumper wire (J3)

#### on the indoor PCB.

When the jumper wire (J3) is short circuited	When the jumper wire (J3) is released
Normal operation is enable (when shipping)	Permission / Prohibition mode
When CnT input is set to ON, the operation starts	When Cnt input is set to ON, the operation mode is
and if the input is set to OFF, the operation stops.	changed to permission and if input is set to OFF the
For the CnT and remote control inputs, the input	operation is prohibited.
which is activated later has priority and can start and	
stop the operation.	

#### (2) In the case of CnT input ON (Operation permission)

(a) The air conditioner can be operated or stopped by the remote control signal.

(When the "CENTER" mode is set, the operation can be controlled only by the center input.)

(b) When the CnT input is changed from OFF to ON, the air conditioner operation mode is changed depending on the status of the jumper wire (J1) on the indoor control board.

When the jumper wire (J1) is short circuited	When the jumper wire (J1) is released
The signal (1) above starts the air conditioner.	When the CnT input is set to ON, the air conditioner
(Shipping status)	starts operation. After that, the operation of the air
	conditioner depends on (a) above. (Local status)

#### (3) In the case of CnT input OFF (Operation prohibition)

- (a) Air-conditioner is unable to control the operation/stop, ect. in accordance with signals from the remote control signal wire.
- (b) Air-conditioner stops as it changes CnT input  $ON \rightarrow OFF$ .

# 7.7 External control (remote display) /control of input signal

## (Refer to the FDTC, FDEN and FDUM series by 230 page)

## (1) External control (remote display) output

Following output connectors (CNT) are provided on the printed circuit board of indoor unit.

Note (1) Please install the separately-sold Interface kit (SC-BIK-E). The output connector (CNT) is located on the circuit board of the Interface kit.

- Operation output: Power to engage DC 12V relay (provided by the customer) is outputted during operation.
- Heating output: Power to engage DC 12V relay (provided by the customer) is outputted during the heating operation.
- **Compressor OPERATION output:** Power to engage DC 12V relay (provided by the customer) is outputted while the compressor is operating.
- MALFUNCTION output: When any error occurs, the power to engage DC 12V relay (provided by the customer) is outputted.

## (2) Control of input signal

Control of input signal (switch input, timer input) connectors (CNT) are provided on the printed circuit board of indoor unit. However, when the operation of air conditioner is under the Center Mode, the remote control by CnT is invalid.

#### (a) Level input

If the factory settings (Jumper wire J1 EXTERNAL INPUT on the PCB of indoor unit) are set, or "LEVEL INPUT" is selected in the wired remote control's indoor unit settings.

- (i) Input signal to CnT OFF  $\rightarrow$  ON --- Air conditioner ON
- (ii) Input signal to CnT ON  $\rightarrow$  OFF - - Air conditioner OFF



Note (1) The ON with the \* mark indicates an ON operation using the remote control, etc.

## (b) Pulse input

When Jumper wire J1 on the PCB of indoor unit is cut at the field or "PULSE INPUT" is selected in the wired remote control's indoor unit settings.

Input signal to CnT becomes valid at OFF  $\rightarrow$  ON only and the motion of air conditioner [ON/OFF] is inverted.



# 7.8 Protective control function

(1) Frost prevention control (During cooling or dehumidifying)

## (a) Operating conditions

- (i) Indoor heat exchanger temperature (Th2) is lower than 2.5°C.
- (ii) 8 minutes after reaching the compressor command speed except 0 rps.

## (b) Detail of anti-frost operation

Operation mode	Protective control	Reset
Compressor operation	Forced outage	Operation instruction
Indoor fan	Depends on operation mode	Depends on operation mode



temperature (°C)

(c) Reset conditions: The indoor heat exchanger temperature (Th2) is 8°C or higher.

#### (2) Cooling overload protective control

(a) **Operating conditions:** When the outdoor air temperature (Tho-A) has become continuously for 30 seconds at 41°C or

SCM100, 125ZJ-S1

more, or 47°C or more with the compressor running, the lower limit speed of compressor is brought up. ON2

Model	SCM40, 45ZJ-S, 5	0, 60, 71, 80ZJ-S1
Outdoor air temperature	41°C or more	47°C or more
Lower limit speed	30 rps	40 rps



Item		
Outdoor air temperature	41°C or more	47°C or more
Lower limit speed	25 rps	31 rps

Model

## (b) Detail of operation

The lower limit of compressor command speed is set to 30 (25) or 40 (31) rps and even if the calculated result becomes lower than that after fuzzy calculation, the speed is kept to 30 (25) or 40 (31) rps. However, when the thermo OFF, the speed is reduced to 0 rps.

Note (1) Values in ( ) are for the model SCM100, 125ZJ-S1.

- (c) **Reset conditions:** When either of the following condition is satisfied.
  - (i) The outdoor air temperature is lower than 40°C.
  - (ii) The compressor command speed is 0 rps.

#### (3) Cooling high pressure control

#### ♦Model SCM40, 45, 50, 60, 71, 80

- (a) **Purpose:** Prevents anomalous high pressure operation during cooling.
- (b) **Detector:** Outdoor heat exchanger sensor (Tho-R)
- (c) Detail of operation:



- Notes (1) When the outdoor heat exchanger temperature is in the range of 58-60°C, the compressor command speed is reduced by 8 rps at each 20 seconds.
  - (2) When the temperature is 60°C or higher, the compressor is stopped.
    - (3) When the outdoor heat exchanger temperature is in the range of 53-58°C, if the compressor command speed is been maintained and the operation has continued for more than 30 seconds at the same speed, it returns to the normal cooling operation.

#### ♦Model SCM100, 125

- (a) Start condition: When the high pressure sensor (HPS) has risen to a specified pressure while the compressor is turned on.
- (b) Compressor command speed is controlled according to the zones of high pressure sensor as shown by the following table.

		HPS	< P2	P2	≦ HPS < P3	P3 ≦ HPS	P4 ≦ HPS
Protection control speed	d (NP)	Nor	Normal		Retention	NP-8rps	Orps
Sampling time (s	5)	Nor	mal	30		20	Normal
					Pa		
NP		P2	P3		P4		
20 ≦ NP < 30	2.9	4 - 3.45	3.07 - 3	3.85	3.15 - 4.05		
30 ≦ NP < 90		3.45	3.85		4.05	_	
90 ≦ NP < 100	3.4	5 - 3.25	3.85 - 3	8.60	4.05 - 3.81		
100 ≦ NP < 110	3.2	5 – 3.07	3.60 - 3	3.33	3.81 - 3.53	_	
110 ≦ NP		3.07	3.33		3.53		

#### (4) Cooling low outdoor temperature protective control

(a) **Operating conditions:** When the outdoor air temperature (Tho-A) is 22°C or lower continues for 20 seconds while compressor command speed is other than 0 rps.

## (b) Detail of operation:

- (i) The lower limit of compressor command speed is set to B or D rps and even if the speed becomes lower than B or D rps, the speed is kept to B or D rps. However, when the thermo becomes OFF, the speed is reduced to 0 rps.
- (ii) The upper limit of compressor command speed is set to A or C rps, the speed is kept to A or C rps.



• Values of  $A \sim D$ 

Model	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1
А	75 rps	75 rps	75 rps	75 rps	75 rps	75 rps
В	35 rps	35 rps	35 rps	30 rps	30 rps	30 rps
С	60 rps	60 rps	60 rps	60 rps	60 rps	60 rps
D	45 rps	45 rps	45 rps	40 rps	40 rps	40 rps

Model	SCM100ZJ-S1	SCM125ZJ-S1
А	75 rps	75 rps
В	20 rps	20 rps
С	60 rps	60 rps
D	31 rps	31 rps

(c) Reset conditions: When the either of the following condition is satisfied

(i) When the outdoor air temperature (Tho-R) becomes 25°C or higher.

(ii) When the compressor command speed is 0rps.

#### (5) Heating high pressure control

#### (a) Indoor unit side

- (i) Start condition: When the indoor heat exchanger temperature (Th2) has become higher than the start temperature for 1 minute continuously.
- (ii) Contents of control: Compressor stop

Indoor air temp.(Th1)	Release temperature	Start temperature
Th1 ≦ 24°C	48.5°C	62°C
24°C < Th1≦27°C	47.5°C (–)	61°C
27°C < Th1	46.5°C (-)	60°C

Note (1) Values in ( ) are for the model SRK71ZK-S.

(iii) Release condition: When the indoor heat exchanger temperature (Th2) has become lower than the release tem-

perature.

#### (b) Outdoor unit side

## ♦Model SCM40, 45, 50, 60, 71, 80

- (i) Start condition: When the indoor heat exchanger temperature (Th2) has risen to a specified temperature while the compressor is turned on.
- (ii) Compressor command speed is controlled according to the zones of indoor heat exchanger temperature as shown by the following table.

	Th2 < P1	P1 ≦ Th2 < P2	P2 ≦ Th2 < P3	P3 ≦ Th2	
Protection control speed (NP)	Normal	Retention	NP-4rps	NP-8rps	
Sampling time (s)	Normal	20	20	20	

#### • Model SCM40, 45, 50

• Model SCM40, 45, 50 Unit: °C					
NP Th2	P1	P2	P3		
10 ≦ NP < 115	45	52	57.5		
115 ≦ NP < 120	45 - 43	52 - 50	57.5 - 55		
120 ≦ NP	43	50	55		

• Model SCM60, 71, 80 Unit: °C						
NP Th2	P1	P2	P3			
10 ≦ NP < 90	45	52	57			
90 ≦ NP < 100	45 - 44.5	52-49.5	57 – 54			
100 ≦ NP < 110	44.5 – 44	49.5 - 47.5	54 - 51			
110 ≦ NP < 120	44 - 43	47.5 – 45	51 - 48			
120 ≦ NP	43	45	48			

#### ♦Model SCM100, 125

- (i) Start condition: When the high pressure sensor (HPS) has risen to a specified pressure while the compressor is turned on.
- (ii) Compressor command speed is controlled according to the zones of high pressure sensor as shown by the following table.

	HPS < P1	P1 ≦ HPS < P2	P2 ≦ HPS < P3	P3 ≦ HPS < P4	P4 ≦ HPS
Protection control speed (NP)	Normal	Retention	NP-3rps	NP-6rps	Orps
Sampling time (s)	Normal	20	20	20	Normal

				Unit: MPa
NP	P1	P2	P3	P4
20 ≦ NP < 30	2.81 - 2.94	2.94 - 3.45	3.07 - 3.85	3.15 - 4.05
30 ≦ NP < 90	2.94	3.45	3.85	4.05
90 ≦ NP < 100	2.94 - 2.88	3.45 - 3.25	3.85 - 3.60	4.05 - 3.81
100 ≦ NP < 110	2.88 - 2.81	3.25 - 3.07	3.60 - 3.33	3.81 - 3.53
110 ≦ NP	2.81	3.07	3.33	3.53

#### (6) Heating overload protective control

- (a) Indoor unit side
  - (i) Operating conditions : When the outdoor air temperature (Tho-A) is 17°C or higher continues for 30 seconds while the compressor command speed other than 0 rps.
  - (ii) Detail of operation : The indoor fan is stepped up by 1 speed step. [Upper limit 8th (SRK71ZK-S:10th, SRF, SRR:9th) speed]
  - (iii) **Reset conditions :** The outdoor air temperature (Tho-A) is lower than 16°C.

Note (1) FDTC, FDEN and FDUM serise:Refer to page 228.

#### (b) Outdoor unit side

(i) **Operating conditions :** When the outdoor air temperature (Tho-A) is 13°C (model SCM40, 45:10°C) or higher continues for 30 seconds while the compressor command speed other than 0 rps.

#### (ii) Detail of operation

- 1) Taking the upper limit of compressor command speed range at A or C, if the output speed obtained with the fuzzy calculation exceeds the upper limit, the upper limit value is maintained.
- 2) The lower limit of compressor command speed is set to B or D and even if the calculated result becomes lower than that after fuzzy calculation, the speed is kept to B or D. However, when the thermo becomes OFF, the speed is reduced to 0 prs.
- 3) Inching prevention control is activated and inching prevention control is carried out with the minimum speed set at B or D.

## (iii) Reset conditions: The outdoor air temperature (Tho-A) is lower than 11°C (model SMC40, 45:8°C).



Note(1) Values in ( ) are for the model SCM40, 45.

#### (7) Heating low outdoor temperature protective control

- (a) **Operating conditions:** When the outdoor air temperature (Tho-A) is lower than 4°C or higher continues for 30 seconds while the compressor command speed is other than 0 rps.
- (b) Detail of operation: The lower limit compressor command speed is change as shown in the figure below.



- (c) **Reset conditions:** When either of the following condition is satisfied.
  - (i) The outdoor air temperature (Tho-A) becomes 6°C.
  - (ii) The compressor command speed is 0 rps.

#### (8) Freezing cycle system protective control

- (a) Starting condition: This control starts when the following conditions are met.
  - (i) When it has elapsed 30 minutes after the compressor was changed from OFF to ON in the cooling operation mode for more than 5 minutes.
  - (ii) When the compressor command speed has met the following conditions.
  - (iii) When the indoor air temperature of running indoor unit (Th1) and the indoor heat exchanger temperature (Th2) have met the following condition even on one unit.

Unit	Compressor command speed	Indoor air temperature (Th1, ℃ )	Indoor air temperature (Th1) and indoor heat exchanger temperature (Th2)	Duration
1	40 (60) rps		Th 1 - 4 < Th 2	
2	50 (70) rps		1111 - 4 < 1112	
3	60 (80) rps	$10 \le T \le 1 \le 40$	Th1 - 3 < Th2	5 minuto
4	70 rps	$10 \equiv 1111 \equiv 40$		5 minute
5	5 80 rps	Th1 - 2 < Th2		
6	90 rps	ps		

Note (1) Values in ( ) are for the model SCM40, 45, 50.

#### (b) Contents of control

(i) Stop the compressor and delay the start, and then restarts.

(ii) Compressor stops by the abnormal stop when the compressor stop has occurred 3 times in one hour.

## (9) Crankcase heater

(a) Operating conditions (When all the conditions below are satisfied)

(i) After the operation mode is changed to stop and the compressor command speed becomes 0 rps continuously for 30 minutes.

(ii) When the temperature detected by the outdoor air temperature (Tho-A) is  $-2^{\circ}C$  or lower after the compressor stops.

#### (b) Detail of operation

The crankcase heater operates, warming up the compressor, then refrigerant begins circulating smoothly when the cooler starts its heating operation, and heating begins.

#### (c) Restoration conditions

When the temperature detected by the outdoor air temperature (Tho-A) reaches 0°C or higher, or the operation mode changes from stop to cooling or heating.

#### (10) Inching prevention

When the compressor becomes to the thermo operation within 5 minutes since operation start or becomes dehumidifying operation, the operation is continued with the compressor command speed of minimum rps forcibly.

#### (11) Compressor overheat protection

(a) **Purpose:** It is designed to prevent deterioration of oil, burnout of motor coil and other trouble resulting from the compressor overheat.

#### (b) Detail of operation

(i) Speeds are controlled with temperature detected by the sensor (Tho-D) mounted on the discharge pipe.





- Notes (1) When the discharge pipe temperature is in the range of 105-115°C, the speed is reduced by 4 rps.
  - (2) When the discharge pipe temperature is raised and continues operation for 20 seconds without changing, then the speed is reduced again by 4 rps.
  - (3) If the discharge pipe temperature is in the range of 95–105°C even when the compressor command speed is maintained for 3 minutes when the temperature is in the range of 95–105°C, the speed is raised by 1 rps and kept at that speed for 3 minutes. This process is repeated until the command speed is reached.

(4) Lower limit speed

Model	Item	Cooling	Heating
	SCM40, 45, 50	32 rps	32 rps
Lower limit speed	SCM60, 71, 80	25 rps	32 rps
	SCM100, 125	20 rps	22 rps

(ii) If the temperature of 115°C is detected by the sensor on the discharge pipe, then the compressor will stop immediately. When the discharge pipe temperature drops and the time delay of 3 minutes is over, the unit starts again within 1 hour but there is no start at the third time.

#### (12) Current safe

## ♦Model SCM40, 45, 50, 60, 71, 80

- (a) **Purpose:** Current is controlled not to exceed the upper limit of the setting operation current.
- (b) Detail of operation: Input current to the converter is monitored with the current sensor fixed on the printed circuit board of the outdoor unit and, if the operation current value reaches the limiting current value, the compressor command speed is reduced.

If the mechanism is actuated when the compressor command speed is less than 30 rps, the compressor is stopped immediately. Operation starts again after a delay time of 3 minutes.

# (c) Current safe control value: Set this using the jumper wire (J1 or J2) on the outdoor PCB. Control starts when it exceeds the control value.

## (i) Switching with jumper wire

		Jumper wire (J2)		
		Short-circuit (At shipping from factory)	Short-circuit	
lumpor wiro ( 11)	Short-circuit (At shipping from factory)	Current safe ①	Current safe (2)	
Jumper wire (JT)	Open	Current safe ③	Current safe ③	

## (ii) Control value

						Unit: A
Model	Current safe ①		Current safe 2		Current safe ③	
	Cooling	Heating	Cooling	Heating	Cooling	Heating
SCM40, 45ZJ-S, 50ZJ - S1	10.0	12.0	10.0	10.0	7.5	7.5
SCM60ZJ - S1	11.0	14.0	10.0	10.0	7.5	7.5
SCM71, 80ZJ - S1	13.0	16.0	10.0	10.0	7.5	7.5

#### ♦Model SCM100, 125

Detecting the outdoor unit inverter input (primary) current and the output (secondary) current, if the current values exceed setting values, the compressor speed (frequency) is controlled to protect the inverter.



(Fig. C) The control value "A" and the reset value vary depending on the compressor speed.



	Coc	ling	Heating		
	Control value A	Reset value B	Control value A	Reset value B	
Primary current side	21	20	23	20	
Secandary current side	Fig.C	Fig.C	Fig.C	Fig.C	

## (13) Current cut

- (a) **Purpose:** Inverter is protected from overcurrent.
- (b) **Detail of operation:** Output current from the inverter is monitored with a shunt resistor and, if the current exceeds the setting value, the compressor is stopped immediately. Operation starts again after a delay time of

3 minutes.

#### (14) Outdoor unit failure

This is a function for determining when there is trouble with the outdoor unit during air conditioning.

The compressor is stopped if any one of the following in item (a), (b) is satisfied. Once the unit is stopped by this function, it is not restarted.

- (a) When the input current is measured at 1 A or less for 3 continuous minutes or more. (Model SCM40, 45, 50, 60, 71, 80 only)
- (b) If the compressor command sends a 0 rps signal to the indoor unit 3 times or more within 20 minutes of the power being turned on.

#### (15) Indoor fan motor protection (Refer to the FDTC and FDUM series by 228 page)

When the air conditioner is operating and the indoor fan motor is turned ON, if the indoor fan motor has operated at 300 (SRF:150) rpm or under for more than 30 seconds, the unit enters first in the stop mode and then stops the entire system.

#### (16) Discharge pipe sensor disconnection protection control

- (a) When the compressor command speed is other than 0 rps.
  - (i) Tho-D(10)–Tho-D(0) < 8 °C, and Tho-D(10)–Tho-A(10) < 5 °C

The compressor command speed is set on A rps for 5 minutes. After 5 minutes, the compressor command speed is set on B rps for 5 minutes.

(ii) Tho-D(20)–Tho-D(15) < 5 °C :

The compressor command speed is set on 0 rps.

- Notes (1) Tho-D(X): After compressor operation, the discharge pipe sensor temperature after X minutes.(2) Tho-A(X): After compressor operation, the outdoor air sensor temperature after X minutes.
- (b) Once the unit is stopped by this function, it is not restarted.

#### • Values of A, B

Model	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S1	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1	SCM100ZJ-S1	SCM125ZJ-S1
Α	30 rps	30 rps	30 rps	20 rps	20 rps	20 rps	20 rps	20 rps
В	60 rps	60 rps	60 rps	60 rps	60 rps	60 rps	60 rps	60 rps

Notes (1) In case of SCM71, 80, 100 or 125, when the jumper wire (J32) on the outdoor unit sub-PCB is short-circuited (factory default), this control is performed only at initial operation after turning the power supply on. If the jumper wire (J32) is open, this control is not performed.

#### (17) Regulation of outdoor air flow

(a) The fan operates as follows according to the compressor command speed. (Except during defrost.)

#### ◆Model SCM40, 45, 50, 60

	Cod	oling	Heating		
	Model SCM40: Less than 40	Model SCM40: 40 or more	Model SCM40: Less than 56	Model SCM40: 56 or more	
	Model SCM45: Less than 40	Model SCM45: 40 or more	Model SCM45: Less than 56	Model SCM45: 56 or more	
Compressor speed (rps)	Model SCM50: Less than 48	Model SCM50: 48 or more	Model SCM50: Less than 61	Model SCM50: 61 or more	
	Model SCM60: Less than 48	Model SCM60: 48or more	Model SCM60: Less than 61	Model SCM60: 61 or more	
Outdoor fan speed	5th speed	6th speed	5th speed	6th speed	

#### ♦Model SCM71, 80

		Co	oling		Heating			
Compressor speed (rps)	Less than 31	More than 31 but 46 or less	More than 46 but 66 or less	66 or more	Less than 31	More than 31 but 66 or less	More than 66 but 85 or less	85 or more
Outdoor fan speed	3rd speed	4th speed	5th speed	6th speed	3rd speed	4th speed	5th speed	6th speed

## ♦Model SCM100, 125

-	Cooling					Heating			
Compressor speed (rps)	Less than 31	More than 31 but 46 or less	More than 46 but 64 or less	64 or more	Less than 31	More than 31 but 66 or less	More than 66 but 85 or less	More than 85 but 96 or less	96 or more
Outdoor fan speed	4th speed	5th speed	6th speed	7th speed	4th speed	5th speed	6th speed	7th speed	8th speed

(b) If the outdoor unit's fan speed drops, the outdoor fan is run for 1 minute at that speed.

#### (18) Serial signal transmission error protection

- (a) **Purpose:** Prevents malfunction resulting from error on the indoor  $\leftrightarrow$  outdoor signals.
- (b) Detail of operation: If the compressor is operating and a serial signal cannot be received from the indoor control with

outdoor control having serial signals continues for 7 minute and 35 seconds, the compressor is stopped.

After the compressor has been stopped, it will be restarted after the compressor start delay if a serial signal can be received again from the indoor control.

## (19) Rotor lock (Model SCM40, 45, 50, 60, 71, 80 only)

If the motor for the compressor does not turn after it has been started, it is determined that a compressor lock has occurred and the compressor is stopped.

#### (20) Outdoor fan motor protection

If the outdoor fan motor has operated at 75 rpm or under for more than 30 seconds, the compressor and fan motor are stopped.

#### (21) Outdoor fan control at low outdoor temperature

#### (a) Cooling

- Model SCM40, 45, 50, 60, 71, 80
- (i) **Operating conditions:** When the outdoor air temperature (Tho-A) is 22°C or lower continues for 30 seconds while the compressor command speed is other than 0 rps.
- (ii) Detail of operation: After the outdoor fan operates at A speed for 60 seconds; the corresponding outdoor heat

exchanger temperature shall implement the following controls.

• Value of A

	Outdoor fan
Outdoor air temperature > 10°C	2nd speed
Outdoor air temperature ≦ 10°C	1st speed

1) Outdoor heat exchanger temperature (Tho-R)  $\leq 22^{\circ}$ C

After the outdoor fan speed drops (down) to 1 speed for 60 seconds; if the outdoor heat exchanger temperature is lower than 22°C, gradually reduce the outdoor fan speed by 1 speed.

lower limit speed

	Lower limit speed
Outdoor air temperature > 16°C	2nd speed
Outdoor air temperature ≦ 16°C	1st speed

22°C < Outdoor heat exchanger temperature (Tho-R) ≤ 40°C</li>
 After the outdoor fan speed maintains at A speed for 20 seconds; if the outdoor heat exchanger temperature is 22°C~

40°C, maintain outdoor fan speed.

- 3) Outdoor heat exchanger tempeature (Tho-R) > 40°C After the outdoor fan speed rises (up) to 1 speed for 60 seconds; if the outdoor heat exchanger temperature is higher than 40°C, gradually increase outdoor fan speed by 1 speed. (Upper limit 4th (model SCM 71,80:3rd) speed)
- (iii) Reset conditions: When either of the following conditions is satisfied
  - 1) The outdoor air temperature (Tho-A) is 24°C or higher.
  - 2) The compressor command speed is 0 rps.
- Model SCM100, 125
- (i) **Operating conditions:** When the outdoor air temperature (Tho-A) is 22°C or lower continues for 30 seconds while the

compressor command speed is other than 0 rps.

(ii) **Detail of operation:** After the outdoor fan operates at A speed for 60 seconds; the corresponding outdoor heat

exchanger temperature shall implement the following controls.

•	Value of A

	Outdoor fan
Outdoor air temperature > 10°C	3rd speed
Outdoor air temperature ≦ 10°C	1st speed

1) High pressure sensor (HPS)  $\leq 1.50$ MPa

After the outdoor fan speed drops (down) to 1 speed for 60 seconds; if the high pressure sensor is lower than 1.50 MPa, gradually reduce the outdoor fan speed by 1 speed.

• lower mint speed	
	Lower limit speed
Outdoor air temperature > 16°C	3rd speed
Outdoor air temperature ≦ 16°C	1st speed

2) 1.50MPa < High pressure sensor (HPS)  $\leq 2.72$ MPa

• lower limit speed

After the outdoor fan speed maintains at A speed for 20 seconds; if the high pressure sensor 1.50MPa  $\sim 2.72$ MPa, maintain outdoor fan speed.

- 3) High pressure sensor (HPS) > 2.72MPa After the outdoor fan speed rises (up) to 1 speed for 60 seconds; if the high pressure sensor is higher than 2.72MPa, gradually increase outdoor fan speed by 1 speed. (Upper limit 4th speed)
- (iii) Reset conditions: When either of the following conditions is satisfied
  - 1) The high pressure sensor (HPS) is 2.72MPa or higher.
  - 2) The compressor command speed is 0 rps.

#### (b) Heating

- (i) **Operating conditions:** When the outdoor air temperature (Tho-A) is 3°C or lower continues for 30 seconds while the compressor command speed is other than 0 rps.
- (ii) Detail of operation: The outdoor fan is stepped up by 1 speed. [Upper limit 7th (SCM100, 125:8th) speed]
- (iii) Reset conditions: When either of the following conditions is satisfied
  - 1) The outdoor air temperature (Tho-A) is 5°C or higher.
  - 2) The compressor command speed is 0 rps.

#### (22) Outdoor unit fan control at overload

- (a) Cooling
- (i) Start condition: When the outdoor air temperature (Tho-A) has risen higher than 41°C for 30 seconds continuously while the compressor is operating.



#### Outdoor air temperature(°C)

- (ii) Contents of control: The outdoor unit fan is stepped up by 3 speed. [Upper limit 6th (SCM100, 125:7th) speed]
- (iii) **Release condition:** When the compressor is turned off or the outdoor heat exchanger temperature (Tho-R) has dropped lower than 40°C.
- (b) Heating
- (i) Start condition: When the outdoor air temperature (Tho-A) has risen higher than 13°C for 30 seconds continuously while the compressor is operating.



#### Outdoor heat exchanger temperature(°C)

- (ii) Contents of control: The outdoor unit fan is stepped down by 3 speed. (Lower limit is 2nd speed)
- (iii) **Release condition:** When the compressor is turned off or the outdoor heat exchanger temperature (Tho-R) has dropped lower than 10°C.

#### (23) Anomalous power transistor (SCM100, 125 only)

When anomalous rise of the power transistor temperture is detected for 15 minutes continuosly.

#### (24) Power transistor overheat protection (SCM100, 125 only)

(a) Purpose: Prevention of malfunction, deterioration, breakage, etc. of the control

#### (b) Contents of restriction

Restricts the speed of compressor when the temperature of power transistor (Tho-AF) rises higher than 90°C.

	Tho-AF < 80°C	80°C ≦ Tho-AF < 90°C	90°C ≦ Tho-AF < 110°C	90°C ≦ Tho-AF < 110°C	Tho-AF ≦ 110°C
Protection control speed (NP)	Normal	Retention	NP-2rps	NP-4rps	Orps
Sampling time (s)	Normal	20	20	20	-

#### (c) Resetting condition

When the power transistor temperature is lower than 90°C or when the compressor has stopped.

#### (d) Anomalous stop

It stops anomalously if it occurs 2 times within 60 minutes or it has elapsed 60 minutes after the first establishment of the condition.

## (25) Control of the flowing noise of refrigerant during cooling operation (SCM100, 125 only)

In order to suppress the flowing noise of refrigerant when operating 1 unit of indoor unit, the compressor is operated at the Max speed of 40 rps if the jumper wire (J31) on the outdoor sub-PCB is set to open.

# 8. MAINTENANCE DATA

# 8.1 SRK, SRF and SRR series

## (1) Cautions

- (a) If you are disassembling and checking an air conditioner, be sure to turn off the power before beginning. When working on indoor units, let the unit sit for about 1 minute after turning off the power before you begin work. When working on an outdoor unit, there may be an electrical charge applied to the main circuit (electrolytic condenser), so begin work only after discharging this electrical charge (to DC 10 V or lower).
- (b) When taking out printed circuit boards, be sure to do so without exerting force on the circuit boards or package components.
- (c) When disconnecting and connectors, take hold of the connector housing and do not pull on the lead wires.

## (2) Items to check before troubleshooting

- (a) Have you thoroughly investigated the details of the trouble which the customer is complaining about?
- (b) Is the air conditioner running? Is it displaying any self-diagnosis information?
- (c) Is a power supply with the correct voltage connected?
- (d) Are the control lines connecting the indoor and outdoor units wired correctly and connected securely?
- (e) Is the outdoor unit's service valve open?

## (3) Troubleshooting procedure (If the air conditioner does not run at all)

If the air conditioner does not run at all, diagnose the trouble using the following troubleshooting procedure. If the air conditioner is running but breaks down, proceed to troubleshooting step (4).

**Important** When all the following conditions are met, we say that the air conditioner will not run at all.

- (a) The RUN light does not light up.
- (b) The flaps do not open.
- (c) The indoor unit fan motors do not run.
- (d) The self-diagnosis display does not function.



## (4) Troubleshooting procedure (If the air conditioner runs)



Note (1) Even in cases where only intermittent stop data are generated, the air conditioning system is normal. However, if the same protective operation recurs repeatedly (3 or more times), it will lead to customer complaints. Judge the conditions in comparison with the contents of the complaints.

## (5) Self-diagnosis table

When this air conditioner performs an emergency stop, the reason why the emergency stop occurred is displayed by the flashing of display lights. If the air conditioner is operated using the remote control 3 minutes or more after the emergency stop, the trouble display stops and the air conditioner resumes operation.  $^{\left( l\right) }$ 

Indoor unit d	lisplay panel	Outdoor	Dutdoor Wired <sup>(2)</sup> Description		0	Display (flashing) condition		
RUN light	TIMER light	Red LED	control display	of trouble	Cause	Display (flashing) condition		
1-time flash	ON	Stays OFF	-	Heat exchanger sensor 1 error	<ul> <li>Broken heat exchanger sensor 1 wire, poor connector connection</li> <li>Indoor PCB is faulty</li> </ul>	When a heat exchanger sensor 1 wire disconnection is detected while operation is stopped. (If a temperature of $-28^{\circ}$ C or lower is detected for 15 seconds, it is judged that the wire is disconnected.) (Not displayed during operation.)		
2-time flash	ON	Stays OFF	-	Room temperature sensor error	<ul> <li>Broken room temperature sensor wire, poor connector connection</li> <li>Indoor PCB is faulty</li> </ul>	When a room temperature sensor wire disconnection is detected while operation is stopped. (If a temperature of -45°C or lower is detected for 15 seconds, it is judged that the wire is disconnected.) (Not displayed during operation.)		
3-time flash	ON	Stays OFF	-	Heat exchanger sensor 2 error	<ul> <li>Broken heat exchanger sensor 2 wire, poor connector connection</li> <li>Indoor PCB is faulty</li> </ul>	When a heat exchanger sensor 2 wire disconnection is detected while operation is stopped. (If a temperature of $-28^{\circ}$ C or lower is detected for 15 seconds, it is judged that the wire is disconnected.) (Not displayed during operation.)		
4-time flash	ON	Stays OFF	E 9	Drain <sup>(3)</sup> trouble	<ul> <li>Defective drain pump (DM), broken drain pump wire</li> <li>Anomalous float switch operation</li> <li>Defective indoor PCB faulty</li> </ul>	If the float switch OPEN is defected for 3 seconds continuously or if float switch connector or wire is disconnected.		
6-time flash	ON	Stays OFF	E 16	Indoor fan motor error	Defective fan motor, poor connector connection	When conditions for turning the indoor unit's fan motor on exist during air conditioner operation, an indoor unit fan motor speed of 300 (SRF : 150) rpm or lower is measured for 30 seconds or longer. (The air conditioner stops.)		
Keeps flashing	1-time flash	8-time flash	E 38	Outdoor air temperature sensor error	<ul> <li>Broken outdoor air temp. sensor wire, poor connector connection</li> <li>Outdoor main PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or -55°C or higher is detected for within 20 seconds after power ON. (The compressor is stopped.)		
Keeps flashing	2-time flash	8-time flash	E 37	Outdoor heat exchanger sensor error	<ul> <li>Broken heat exchanger sensor wire, poor connector connection</li> <li>Outdoor main PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or -55°C or higher is detected for within 20 seconds after power ON. (The compressor is stopped.)		
Keeps flashing	4-time flash	8-time flash	E 39	Discharge pipe sensor error	<ul> <li>Broken discharge pipe sensor wire, poor connector connection</li> <li>Outdoor main PCB is faulty</li> </ul>	-25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. (The compressor is stopped.)		
Keeps flashing	5-time flash	8-time flash	E 53	Outdoor suction pipe sensor error	<ul> <li>Broken suction pipe sensor wire, poor connector connection</li> <li>Outdoor sub PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or -55°C or higher is detected for within 20 seconds after power ON. (The compressor is stopped)		
ON	1-time flash	1-time flash	E 42	Current cut	<ul> <li>Compressor locking, open phase on compressor output, short circuit on power transistor, service valve is closed</li> </ul>	The compressor output current exceeds the set value during compressor start. (The air conditioner stops.)		
ON	2-time flash	2-time flash	E 59	Trouble of outdoor unit	Broken compressor wire     Compressor blockage	When there is an emergency stop caused by trouble in the outdoor unit, or the input current value is found to be lower than the set value. (The air conditioner stops.)		
ON	3-time flash	3-time flash	E 58	Current safe stop	Overload operation     Overcharge     Compressor locking	When the compressor command speed is lower than the set value and the current safe has operated. (the compressor stops)		
ON	4-time flash	1-time flash	E 51	Power transistor error	Broken power transistor	When the power transistor is judged breakdown while compressor starts. (The compressor is stopped.)		
ON	5-time flash	5-time flash	E 36	Over heat of compressor	Gas shortage, defective discharge pipe sensor, service valve is closed	When the value of the discharge pipe sensor exceeds the set value. (The air conditioner stops.)		
ON	6-time flash	6-time flash	E 5	Error of signal transmission	• Defective power supply, Broken signal wire, defective indoor/outdoor sub PCB	When there is no signal between the indoor PCB and outdoor PCB for 10 seconds or longer (when the power is turned on), or when there is no signal for 7 minute 35 seconds or longer (during operation)(the compressor is stopped).		
ON	7-time flash	ON	E 48	Outdoor fan motor error	Defective fan motor, poor connector connection	When the outdoor unit's fan motor speed continues for 30 seconds or longer at 75 rpm or lower. (3 times) (The air conditioner stops.)		
ON	Keeps flashing	2-time flash	E 35	Cooling high pressure protection	<ul> <li>Overload operation, overcharge</li> <li>Broken outdoor heat exchange sensor wire</li> <li>Service valve is closed</li> </ul>	When the value of the outdoor heat exchanger sensor exceeds the set value.		
2-time flash	2-time flash	7-time flash	E 60	Rotor lock	<ul> <li>Defective compressor</li> <li>Open phase on compressor</li> <li>Defective outdoor PCB</li> </ul>	If the compressor motor's magnetic pole positions cannot be correctly detected when the compressor starts. (The air conditioner stops.)		
5-time flash	ON	2-time flash	E 47	Active filter voltage error	Defective active filter	When the wrong voltage connected for the power supply. When the outdoor main PCB is faulty		
7-time flash	ON	2-time flash	E 57	Refrigeration cycle system protective control	<ul><li>Service valve is closed.</li><li>Refrigerant is insufficient</li></ul>	When refrigeration cycle system protective control operates.		
_	-	4-time flash	E 45	Outdoor sub PCB communication error	<ul> <li>Outdoor sub PCB fauly</li> <li>Poor connection of wire between outdoor sub PCB – main PCB</li> </ul>	Communication error for 15 minutes: Detected more than 15 seconds 4 times		
_	_	Stays OFF	E 1	Error of wired remote control wiring	Broken wired remote control wire, defective indoor PCB	The wired remote control wire Y is open. The wired remote control wires X and Y are reversely connected. Noise is penetrating the wired remote control lines. The wired remote control or indoor PCB is faulty. (The communications circuit is faulty.)		
Stays OFF	Keeps flashing	_	-	Limit switch error	<ul> <li>Defective limit switch</li> <li>Defective suction panel set</li> <li>Defective indoor control PCB</li> </ul>	Actuation of limit switch		

(a) SCM40, 45, 50, 60, 71, 80

Notes (1)The air conditioner cannot be restarted using the remote control for 3 minutes after operation stops.

(2) The wired remote control is option parts.(3) SRR series only.
## (b) SCM100,125

Indoor unit display panel		Outdoor	loor Wired (2)	Description	Causo	Display (flacking) condition	
RUN light	TIMER light	Red LED	control display	of trouble	Cause	Display (flashing) condition	
1-time flash	ON	Stays OFF	_	Heat exchanger sensor 1 error	<ul> <li>Broken heat exchanger sensor 1 wire, poor connector connection</li> <li>Indoor PCB is faulty</li> </ul>	When a heat exchanger sensor 1 wire disconnection is detected while operation is stopped. (If a temperature of $-28^{\circ}$ C or lower is detected for 15 seconds, it is judged that the wire is disconnected.) (Not displayed during operation.)	
2-time flash	ON	Stays OFF	_	Room temperature sensor error	<ul> <li>Broken room temperature sensor wire, poor connector connection</li> <li>Indoor PCB is faulty</li> </ul>	When a room temperature sensor wire disconnection is detected while operation is stopped. (If a temperature of $-45^{\circ}$ C or lower is detected for 15 seconds, it is judged that the wire is disconnected.) (Not displayed during operation.)	
3-time flash	ON	Stays OFF	_	Heat exchanger sensor 2 error	<ul> <li>Broken heat exchanger sensor 2 wire, poor connector connection</li> <li>Indoor PCB is faulty</li> </ul>	When a heat exchanger sensor 2 wire disconnection is detected while operation is stopped. (If a temperature of $-28^{\circ}$ C or lower is detected for 15 seconds, it is judged that the wire is disconnected.) (Not displayed during operation.)	
4-time flash	ON	Stays OFF	E 9	Drain <sup>(3)</sup> trouble	<ul> <li>Defective drain pump (DM), broken drain pump wire</li> <li>Anomalousfloat s witchoperation</li> <li>Defective indoor PCB faulty</li> </ul>	If the float switch OPEN is defected for 3 seconds continuously or if float switch connector or wire is disconnected.	
6-time flash	ON	Stays OFF	E 16	Indoor fan motor error	Defective fan motor, poor connector connection	When conditions for turning the indoor unit's fan motor on exist during air conditioner operation, an indoor unit fan motor speed of 300 (SRF : 150) rpm or lower is measured for30 seconds or longer. (The air conditioner stops.)	
Keeps flashing	1-time flash	8-time flash	E 38	Outdoor air temperature sensor error	<ul> <li>Broken outdoor air temp. sensor wire, poor connector connection</li> <li>Outdoor main PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or -55°C or higher is detected for within 20 seconds after power ON. (The compressor is stopped.)	
Keeps flashing	2-time flash	8-time flash	E 37	Outdoor heat exchanger sensor error	<ul> <li>Broken heat exchanger sensor wire, poor connector connection</li> <li>Outdoor main PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or -55°C or higher is detected for within 20 seconds after power ON. (The compressor is stopped.)	
Keeps flashing	4-time flash	8-time flash	E 39	Discharge pipe sensor error	<ul> <li>Broken discharge pipe sensor wire, poor connector connection</li> <li>Outdoor main PCB is faulty</li> </ul>	-25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. (The compressor is stopped.)	
Keeps flashing	5-time flash	8-time flash	E 53	Outdoor suction pipe sensor error	<ul> <li>Broken suction pipe sensor wire, poor connector connection</li> <li>Outdoor sub PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or -55°C or higher is detected for within 20 seconds after power ON. (The compressor is stopped)	
ON	1-time flash	1-time flash	E 42	Current cut	<ul> <li>Compressor locking, open phase on compressor output, short circuit on power transistor, service valve is closed</li> </ul>	The compressor output current exceeds the set value during compressor start. (The air conditioner stops.)	
ON	2-time flash	2-time flash	E 59	Trouble of outdoor unit	Broken compressor wire     Compressor blockage	When there is an emergency stop caused by trouble in the outdoor unit, or the input current value is found to be lower than the set value. (The air conditioner stops.)	
ON	4-time flash	1-time flash	E 51	Inverter and fan motor anomaly	<ul> <li>Outdoor inverter PCB is faulty</li> <li>Outdoor controol PCB is faulty</li> <li>Outdoor fan motor is faulty</li> </ul>	When power transistor anomaly is detected for 15 minutes continuosly (The compressor is stopped.)	
ON	5-time flash	5-time flash	E 36	Over heat of compressor	Gas shortage, defective discharge pipe sensor, service valve is closed	When the value of the discharge pipe sensor exceeds the set value. (The air conditioner stops.)	
ON	6-time flash	6-time flash	E 5	Error of signal transmission	• Defective power supply, Broken signal wire, defective indoor/outdoor sub PCB	When there is no signal between the indoor PCB and outdoor PCB for 10 seconds or longer (when the power is turned on), or when there is no signal for 7 minute 35 seconds or longer (during operation)(the compressor is stopped).	
ON	7-time flash	ON	E 48	Outdoor fan motor error	Defective fan motor, poor connector connection	When the outdoor unit's fan motor speed continues for 30 seconds or longer at 75 rpm or lower. (3 times) (The air conditioner stops.)	
ON	Keeps flashing	2-time flash	E 35	Cooling high pressure protection	<ul> <li>Overload operation, overcharge</li> <li>Broken high pressure sensor wire</li> <li>Service valve is closed</li> </ul>	When anomalous rise of the high pressure sensor is detected 5 times within 1 hour. When high pressure sensor anomaly is detected for 10 minutes continuously.	
7-time flash	ON	2-time flash	E 57	Refrigeration cycle system protective control	<ul><li>Service valve is closed.</li><li>Refrigerant is insufficient</li></ul>	When refrigeration cycle system protective control operates.	
_	_	1-time flash	E 41	Power transistor error	Power transistor overheat	When anomalous rise of the power transistor temperature is detected 2 times within 1 hour.	
_	_	2-time flash	E 40	Heating high pressure protection	<ul> <li>Overload operation, overcharge</li> <li>Broken high pressure sensor wire</li> <li>Service valve is closed</li> </ul>	When anomalous rise of the high pressure sensor is detected 5 times within 1 hour. When high pressure sensor anomaly is detected for 10 minutes continuously.	
_	_	4-time flash	E 45	Outdoor sub PCB communication error	<ul> <li>Outdoor sub PCB fauly</li> <li>Poor connection of wire between outdoor sub PCB – main PCB</li> </ul>	Communication error for 15 minutes: Detected more than 15 seconds 4 times.	
_	—	8-time flash	E 54	High pressure sensor error	Broken high pressure sensor wire	If the detected for 5 second continuously within 2 minutes to 2 minutes and 20 seconds after the compressor ON, the compressor stops.	
_	—	Stays OFF	E 1	Error of wired remote control wiring	Broken wired remote control wire, defective indoor PCB	The wired remote control wire Y is open. The wired remote control wires X and Y are reversely connected. Noise is penetrating the wired remote control lines. The wired remote control or indoor PCB is faulty. (The communications circuit is faulty.)	
Stays OFF	Keeps flashing	_	_	Limit switch error	<ul> <li>Defective limit switch</li> <li>Defective suction panel set</li> <li>Defective indoor control PCB</li> </ul>	Actuation limit switch	

Notes (1) The air conditioner cannot be restarted using the remote control for 3 minutes after operation stops. (2) The wired remote control is option parts. (3) SRR series only.

## (6) Service mode (Trouble mode access function)

This air conditioner is capable of recording error displays and protective stops (service data) which have occurred in the past. If self-diagnosis displays cannot be confirmed, it is possible to get a grasp of the conditions at the time trouble occurred by checking these service data.

Term	Explanation			
Service mode	The service mode is the mode where service data are displayed by flashing of the display lights when the operations in item (b) below are performed with the indoor control.			
Service data	These are the contents of error displays and protective stops which occurred in the past in the air conditioner system. Error display contents and protective stop data from past anomalous operations of the air conditioner system are saved in the indoor unit control's non-volatile memory (memory which is not erased when the power goes off). There are two types of data, self-diagnosis data and stop data, described below.			
Self-diagnosis data	These are the data which display the reason why a stop occurred when an error display(self- diagnosis display) occurred in an indoor unit. Data are recorded for up to 5 previous occurrences. Data which are older than the 5th previous occurrence are erased. In addition, data on the temperature of each sensor (room temperature, indoor heat exchanger, outdoor heat exchanger, outdoor air temperature, discharge pipe), remote control information (operation switching, fan speed switching) are recorded when trouble occurs, so more detailed information can be checked.			
Stop data	These are the data which display the reason by a stop occurred when the air conditioning system performed protective stops, etc. in the past. Even if stop data alone are generated, the system restarts automatically. (After executing the stop mode while the display is normal, the system restarts automatically.) Data for up to 10 previous occasions are stored. Data older than the 10th previous occasion are erased. (Important) In cases where transient stop data only are generated, the air conditioner system may still be normal. However, if the same protective stop occurs frequently (3 or more times), it could lead to customer complaints.			

### (a) Explanation of terms

### (b) Service mode display procedure



\*3: To count the number of flashes in the service mode, count the number of flashes after the light lights up for 1.5 second initially (start signal). (The time that the light lights up for 1.5 second (start signal) is not counted in the number of flashes.)



\*4: When in the service mode, when the remote control settings (operation switching, fan speed switching, temperature setting) are set as shown in the following table and sent to the air conditioner unit, the unit switches to display of service data.

## (i) Self-diagnosis data

What are Self-......These are control data (reasons for stops, temperature at each sensor, remote control information)

diagnosis Data? from the time when there were error displays (abnormal stops) in the indoor unit in the past.

Data from up to 5 previous occasions are stored in memory. Data older than the 5th previous occasion are erased. The temperature setting indicates how many occasions previous to the present setting the error display data are and the operation switching and fan speed switching data show the type of data.

Remote co	ntrol setting	Contents of output data		
Operation switching	Fan speed switching			
	MED	Displays the reason for stopping display in the past (error code).		
Cooling	HI	Displays the room temperature sensor temperature at the time the error code was displayed in the past.		
	AUTO	Displays the indoor heat exchanger sensor temperature at the time the error code was displayed in the past.		
	LO	Displays the remote control information at the time the error code was displayed in the past.		
Heating	MED	Displays the outdoor air temperature sensor temperature at the time the error code was displayed in the past.		
Heating	HI	Displays the outdoor heat exchanger sensor temperature at the time the error code was displayed in the past.		
	AUTO	Displays the discharge pipe sensor temperature at the time the error code was displayed in the past.		

Remote control setting	Indicates the number of
Temperature setting	the error display data are from.
21°C	1 time previous (previous time)
22°C	2 times previous
23°C	3 times previous
24°C	4 times previous
25°C	5 times previous

#### Only for indoor heat exchanger sensor 2

Remote control setting	Indicates the number of occasions previous to the present the error display data are from.	
Temperature setting		
26°C	1 time previous (previous time)	
27°C	2 times previous	
28°C	3 times previous	
29°C	4 times previous	
30°C	5 times previous	

# (Example)

Rem	ote control se	etting		
Operation switching	Operation switching Fan speed switching Switching		Displayed data	
		21°C	Displays the reason for the stop (error code) the previous time an error was displayed.	
		22°C	Displays the reason for the stop (error code) 2 times previous when an error was displayed.	
Cooling	MED	23°C	Displays the reason for the stop (error code) 3 times previous when an error was displayed.	
		24°C	Displays the reason for the stop (error code) 4 times previous when an error was displayed.	
		25°C	Displays the reason for the stop (error code) 5 times previous when an error was displayed.	

# (ii) Stop data

Rem	ote control se	etting		
Operation switching	Fan speed switching	Temperature setting	Displayed data	
		21°C	Displays the reason for the stop (stop code) the previous time when the air conditioner was stopped by protective stop control.	
		22°C	Displays the reason for the stop (stop code) 2 times previous when the air conditioner was stopped by protective stop control.	
	LO		23°C	Displays the reason for the stop (stop code) 3 times previous when the air conditioner was stopped by protective stop control.
		24°C	Displays the reason for the stop (stop code) 4 times previous when the air conditioner was stopped by protective stop control.	
Cooling		25°C	Displays the reason for the stop (stop code) 5 times previous when the air conditioner was stopped by protective stop control.	
Cooling		26°C	Displays the reason for the stop (stop code) 6 times previous when the air conditioner was stopped by protective stop control.	
		27°C	Displays the reason for the stop (stop code) 7 times previous when the air conditioner was stopped by protective stop control.	
		28°C	Displays the reason for the stop (stop code) 8 times previous when the air conditioner was stopped by protective stop control.	
		29°C	Displays the reason for the stop (stop code) 9 times previous when the air conditioner was stopped by protective stop control.	
		30°C	Displays the reason for the stop (stop code) 10 times previous when the air conditioner was stopped by protective stop control.	

(c) Error code, stop code table (Assignment of error codes and stop codes is done in common for all models.)
(i) Model SCM40, 45, 50, 60, 71, 80

Number of flashes when in							
RUN light (10's digit)	TIMER light (1's digit)	Stop coad or Error coad	Error content	Cause	Occurrence conditions	Error display	Auto recovery
	OFF	0	Normal	_	—	—	—
OFF	5-time flash	05	Can not receive signals for 35 seconds (if communications have recovered)	Power supply is faulty. Power supply cables and signal lines are improperly wired. Indoor or outdoor sub PCB are faulty	When 35 seconds passes without communications signals from either the outdoor unit or the indoor unit being detected correctly.	0	_
3-time flash	5-time flash	35	Cooling high pressure control	Cooling overload operation. Outdoor unit fan speed drops. Outdoor heat exchanger sensor is short circuit.	When the outdoor heat exchanger sensor's value exceeds the set value.	(5 times)	0
	6-time flash	36	Compressor overheat 115°C	Refrigerant is insufficient. Discharge pipe sensor is faulty. Service valve is closed.	When the discharge pipe sensor's value exceeds the set value.	(2 times)	0
	7-time flash	37	Outdoor heat exchanger sensor is abnormal	Outdoor heat exchanger sensor wire is disconnected. Connector connections are poor. Outdoor main PCB is faulty	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or-55°C higher is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	0
	8-time flash	38	Outdoor air temperature sensor is abnormal	Outdoor air temperature sensor wire is disconnected. Connector connections are poor. Outdoor main PCB is faulty	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or-55°C higher is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	0
	9-time flash	39	Discharge pipe sensor is abnormal (anomalous stop)	Discharge pipe sensor wire is disconnected. Connector connections are poor. Outdoor main PCB is faulty	-25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature.	(3 times)	0
	2-time flash	42	Current cut	Compressor lock. Compressor wiring short circuit. Compressor output is open phase. Outdoor main PCB is faulty Service valve is closed. Electronic expansion valve is faulty. Compressor is faulty.	Compressor start fails 42 times in succession and the reason for the final failure is current cut.	(2 times)	0
4-time flash	5-time flash	45	Anomalous outdoor sub PCB commuication	Outdoor sub PCB fauly. Poor connection of wire between outdoor sub PCB-main PCB.	between CB. Communication error for 15 minutes: Detected more than 15 seconds 4 times.		0
	7-time flash	47	Active filter voltage error	Defective active filter.	When the wrong voltage connected for the power supply. When the outdoor main PCB is faulty.	0	—
	8-time flash	48	Outdoor unit's fan motor is abnormal	Outdoor fan motor is faulty. Connector connections are poor. Outdoor main PCB is faulty.	When a fan speed of 75 rpm or lower continues for 30 seconds or longer.	(3 times)	0
	1-time flash	51	Short circuit in the power transistor (high side) Current cut circuit breakdown	Outdoor main PCB is faulty Power transistor is damaged.	When it is judged that the power transistor was damaged at the time the compressor started.	0	_
	3-time 53 flash		Suction pipe sensor is abnormal	Suction pipe sensor wire is disconnected. Connector connections are poor. Outdoor sub PCB is faulty.	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or-55°C higher is detected for 5 seconds continuously within 20 seconds after compressor ON.		0
5-time flash	7-time flash	57	Refrigeration cycle system protective control	Service valve is closed. Refrigerant is insufficient.	When refrigeration cycle system protective control operates.		0
	8-time flash	58	Current safe	Refrigerant is overcharge. Compressor lock. Overload operation.	When there is a current safe stop during operation.		0
	9-time flash	59	Compressor wiring is unconnection Voltage drop	Compressor wiring is disconnected. Power transistor is damaged. Power supply construction is defective. Outdoor main PCB is faulty. Compressor is faulty.	When the current is 1A or less at the time the compressor started. When the power supply voltage drops during operation.	0	0
	OFF	60	Rotor lock	k Compressor is faulty. Compressor output is open phase. Electronic expansion valve is faulty. Overload operation. Outdoor main PCB is faulty.		(2 times)	0
6-time flash	1-time flash	61	Connection lines between the indoor and outdoor units are faulty	Connection lines are faulty. Indoor or outdoor sub PCB are faulty.	When 10 seconds passes after the power is turned on without communications signals from the indoor or outdoor unit being detected correctly.	0	-
	2-time flash	62	Serial transmission error	Indoor or outdoor sub PCB are faulty. Noise is causing faulty operation.	When 7 minute 35 seconds passes without communications signals from either the outdoor unit or the indoor unit being detected correctly.	0	_
	OFF	80	Indoor unit's fan motor is abnormal	Indoor fan motor is faulty. Connector connections are poor. Indoor PCB is faulty.	When the indoor unit's fan motor is detected to be running at 300 (SRF : 150) rpm or lower speed with the fan motor in the ON condition while the air conditioner is running.	0	_
	2-time flash	82	Indoor heat exchanger sensor is abnormal (anomalous stop)	Indoor heat exchanger sensor wire is disconnected. Connector connections are poor	When a temperature of -28°C or lower is sensed continuously for 40 minutes during heating operation. (the compressor stops).		_
8-time flash	4-time flash	84	Anti-condensation control	High humidity condition. Humidity sensor is faulty.	Anti-condensation prevention control is operating.	_	0
	5-time flash	85	Anti-frost control	Indoor unit fan speed drops. Indoor heat exchanger sensor is broken wire.	When the anti-frost control operates and the compressor stops during cooling operation.	_	0
	6-time flash	86	Heating high pressure control	Heating overload operation. Indoor unit fan speed drops. Indoor heat exchanger sensor is short circuit.	When high pressure control operates during heating operation and the compressor stops.	_	0

## (ii) SCM100,125

Number of flashes when in							
RUN	e mode TIMER	Stop coad or	Error content	Cause	Occurrence conditions	Error	Auto
light (10's digit)	light (1's digit)	Error coad				uispiay	recovery
(100 alg.t)	OFF	0	Normal	_	_	_	-
OFF	5-time flash	05	Can not receive signals for 35 seconds (if communications have recovered)	Power supply is faulty. Power supply cables and signal lines are improperly wired. Indoor or outdoor PCB are faulty.	When 35 seconds passes without communications signals from either the outdoor unit or the indoor unit being detected correctly.	0	-
	5-time flash	35	Cooling high pressure control	Cooling overload operation. Outdoor unit fan speed drops. Outdoor high pressure sensor is short circuit.	When the outdoor high pressure sensor's value exceeds the set value.	(5 times)	0
	6-time flash	36	Compressor overheat 115°C	Refrigerant is insufficient. Discharge pipe sensor is faulty. Service valve is closed.	When the discharge pipe sensor's value exceeds the set value.	(2 times)	0
3-time flash	7-time flash	37	Outdoor eatexchanger sensor is abnormal	Outdoor heat exchanger sensor wire is disconnected. Connector connections are poor. Outdoor control PCB is faulty.	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or-55°C higher is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	0
	8-time flash	38	Outdoor air temperature sensor is abnormal	Outdoor air temperature sensor wire is disconnected. Connector connections are poor. Outdoor control PCB is faulty.	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or-55°C higher is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	0
	9-time flash	39	Discharge pipe sensor is abnormal (anomalous stop)	Discharge pipe sensor wire is disconnected. Connector connections are poor. Outdoor control PCB is faulty.	-25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after intial detection of this anomalous temperature.	(3 times)	0
	OFF	40	Heating high pressure control	Heating overload operation. Outdoor unit fan speed drops. Outdoor high pressure sensor is short circuit.	When the outdoor high pressure sensor's value exceeds the set value.	(5 times)	0
	1-time flash	41	Power transistor error	Power transistor overheat. Power transistor sensor is short circuit.	When anomalous rise of the power transistor temperature is detected 2 times within 1 hour.	(2 times)	0
4-time flash	2-time flash	42	Current cut	Compressor lock. Compressor wiring short circuit. Compressor output is open phase. Outdoor inverter PCB is faulty. Service valve is closed. Electronic expansion valve is faulty. Compressor is faulty.	Compressor start fails 42 times in succession and the reason for the final failure is current cut.	(2 times)	0
	5-time flash	45	Anomalous outdoor sub PCB commuication	Outdoor sub PCB fauly.         Communication error for 15 minutes: Detected more than 15 seconds 4 times.		0	0
	8-time flash	48	Outdoor unit's fan motor is abnormal	Outdoor fan motor is faulty. Connector connections are poor. Outdoor control PCB is faulty.	When a fan speed of 75 rpm or lower continues for 30 seconds or longer.		0
	1-time flash	51	Inverter and fan motor anomaly	Outdoor inverter PCB is faulty. Outdoor control PCB is faulty. Outdoor fan motor is faulty.	When power transistor anomaly is detected for 15 minutes continuosly.		-
	3-time flash	3-time 53 Suction pipe sensor is abnormal		Suction pipe sensor wire is disconnected. Connector connections are poor. Outdoor control PCB is faulty.	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or-55°C higher is detected for 5 seconds continuously within 20 seconds after compressor ON.	(3 times)	0
5-time flash	4-time flash	time lash54High pressure sensor is abnormalHigh pressure sensor wire is disconnected. Connector connections are poor. Outdoor control PCB is faulty.If the detected for 5 second continuously within 2 min to 2 minutes and 20 seconds after the compressor ON, compressor stops.		If the detected for 5 second continuously within 2 minutes to 2 minutes and 20 seconds after the compressor ON, the compressor stops.	(3 times)	0	
	7-time flash	57	Refrigeration cycle system protective control	Service valve is closed. Refrigerant is insufficient.	When refrigeration cycle system protective control operates.	(3 times)	0
	9-time flash	59	Compressor wiring is unconnection Voltage drop	Compressor wiring is disconnected. Power transistor is damaged. Power supply construction is defective. Outdoor inverter PCB is faulty. Compressor is faulty.	When the current is 1A or less at the time the compressor started. When the power supply voltage drops during operation.	0	0
6-time	1-time flash	61	Connection lines between the indoor and outdoor units are faulty	Connection lines are faulty. Indoor or outdoor sub PCB are faulty.	When 10 seconds passes after the power is turned on without communications signals from the indoor or outdoor unit being detected correctly.	0	_
nasn	2-time flash	62	Serial transmission error	Indoor or outdoor sub PCB are faulty. Noise is causing faulty operation.	When 7 minute 35 seconds passes without communications signals from either the outdoor unit or the indoor unit being detected correctly.	0	-

Number of flashes when in service mode		Stop coad				Error	Auto
RUN light (10's digit)	TIMER light (1's digit)	or Error coad	Error content	Cause	Occurrence conditions		recovery
	OFF	80	Indoor unit's fan motor is abnormal	Indoor fan motor is faulty. Connector connections are poor. Indoor PCB is faulty.	When the indoor unit's fan motor is detected to be running at 300 (SRF : 150) rpm or lower speed with the fan motor in the ON condition while the air conditioner is running.	0	
8-time flash	2-time flash	82	Indoor heat exchanger sensor is abnormal (anomalous stop)	Indoor heat exchanger sensor wire is disconnected. Connector connections are poor.	When a temperature of $-28^{\circ}$ C or lower is sensed continuously for 40 minutes during heating operation. (the compressor stops).	0	_
	4-time flash	84	Anti-condensation control	High humidity condition. Humidity sensor is faulty.	Anti-condensation prevention control is operating.	_	0
	5-time flash	85	Anti-frost control	Indoor unit fan speed drops. Indoor heat exchanger sensor is broken wire.	When the anti-frost control operates and the compressor stops during cooling operation.	_	0
	6-time flash	86	Heating high pressure control	Heating overload operation. Indoor unit fan speed drops. Indoor heat exchanger sensor is short circuit.	When high pressure control operates during heating operation and the compressor stops.	_	0

Note (1) The number of flashes when in the Service Mode do not include the 1.5 second period when the lights light up at first (start signal). (See the example shown below.)



 $\bigcirc$  Displayed. ) displayed, the error display shows the number of times that an auto recovery occurred for the same reason has If there is a ( reached the number of times in ( ). If no ( ) is displayed, the error display shows that the trouble has occurred once. (3) Auto Recovery: - Does not occur  $\bigcirc$  Auto recovery occurs.

#### (d) Remote control information tables

(i) Operation switching

(ii)	Fan	speed	swite	hing
(11)	1 411	opeeu	011100	

Display pattern when in service mode	Operation switching		Display pattern when in service mode	Fan speed switching when
RUN light (Operation switching)	when there is an abnormal stop		TIMER light (Fan speed switching)	there is an abnormal stop
0	AUTO		0	AUTO
1	DRY		2	HI
2	COOL		3	MED
3	FAN		4	LO
4	HEAT		6	HI POWER
		΄ Γ	7	ECONO

\* If no data are recorded (error code is normal), the information display in the remote control becomes as follows.

Remote control setting	Display when error code is normal.
<b>Operation switching</b>	AUTO
Fan speed switching	AUTO

(Example): Operation switching, fan speed switching, cooling HI



										Ur	nits: °C
RUN lig (10's di Buzzer sound	TIMER light (1's digit) Jht git)	0	1	2	3	4	5	6	7	8	9
	6	-60	-61	-62	-63	-64					
	5	-50	-51	-52	-53	-54	-55	-56	-57	-58	-59
	4	-40	-41	-42	-43	-44	-45	-46	-47	-48	-49
Yes (sounds for 0.1 second)	3	-30	-31	-32	-33	-34	-35	-36	-37	-38	-39
	2	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29
	1	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19
	0		-1	-2	-3	-4	-5	-6	-7	-8	-9
	0	0	1	2	3	4	5	6	7	8	9
	1	10	11	12	13	14	15	16	17	18	19
	2	20	21	22	23	24	25	26	27	28	29
	3	30	31	32	33	34	35	36	37	38	39
No	4	40	41	42	43	44	45	46	47	48	49
(does not sound)	5	50	51	52	53	54	55	56	57	58	59
	6	60	61	62	63	64	65	66	67	68	69
	7	70	71	72	73	74	75	76	77	78	79
	8	80	81	82	83	84	85	86	87	88	89
	9	90	91	92	93	94	95	96	97	98	99

(e) Room temperature sensor, indoor heat exchanger sensor, outdoor air temperature sensor, outdoor heat exchanger sensor , suction pipe sensor table

\* If no data are recorded (error code is normal), the display for each sensor becomes as shown below.

Sensor name	Sensor value displayed when the error code is normal
Room temperature sensor	-64°C
Indoor heat exchanger sensor	-64°C
Outdoor air temperature sensor	-64°C
Outdoor heat exchanger sensor	-64°C
Outdoor suction pipe sensor	-64°C

(Example) Room temperature, indoor heat exchanger, outdoor air temperature, outdoor heat exchanger, outdoor suction pipe : "-9°C"



## (f) Discharge pipe sensor table

										Uni	ts: °C
	TIMER light (1's digit)										
RUN light (10's digit) Buzzer sound			1	2	3	4	5	6	7	8	9
	3	-60	-62	-64							
Yes	2	-40	-42	-44	-46	-48	-50	-52	-54	-56	-58
(sounds for 0.1 second)	1	-20	-22	-24	-26	-28	-30	-32	-34	-36	-38
	0		-2	-4	-6	-8	-10	-12	-14	-16	-18
	0	0	2	4	6	8	10	12	14	16	18
	1	20	22	24	26	28	30	32	34	36	38
	2	40	42	44	46	48	50	52	54	56	58
No	3	60	62	64	66	68	70	72	74	76	78
(does not sound)	4	80	82	84	86	88	90	92	94	96	98
	5	100	102	104	106	108	110	112	114	116	118
	6	120	122	124	126	128	130	132	134	136	138
	7	140	142	144	146	148	150				

\* If no data are recorded (error code is normal), the display for each sensor becomes as shown below.

Sensor name	Sensor value displayed when the error code is normal
Discharge pipe sensor	-64°C

(Example) Discharge pipe temperature: "122°C"

\* In the case of discharge pipe data, multiply the reading value by 2. (Below,  $61 \times 2 = (122^{\circ}C)$ )



#### Service data record form

Customer				Model				
Date of inv	estigation							
Machine na	ime							
Content of	complaint							
Remo	te control set	tings						
Temperature setting	Operation switching	Fan speed switching	Content of displayed da	ata	Buzzer (Yes/No.)	RUN light (Times)	TIMER light (Times)	Display content
1 0	1 0	MED	Error code on previous occasion.					
	Cooling	HI	Room temperature sensor on previous occasi	on.				
		AUTO	Indoor heat exchanger sensor 1 on previous o	ccasion.				
21		LO	Remote control information on previous occas	sion.				
		MED	Outdoor air temperature sensor on previous o	ccasion.				
	Heating	HI	Outdoor heat exchanger sensor on previous of	ccasion.				
		AUTO	Discharge pipe sensor on previous occasion.					
26	Cooling	AUTO	Indoor heat exchanger sensor 2 on previous o	ccasion.				
		MED	Error code on second previous occasion.					
	Cooling	НІ	Room temperature sensor on second previous	occasion				
		AUTO	Indoor heat exchanger sensor 1 on second previous	ous occasion.				
22		10	Remote control information on second previo	us occasion				
		MFD	Outdoor air temperature sensor on second previo	vious occasion				
	Heating	HI	Outdoor heat exchanger sensor on second pre	vious occasion				
		AUTO	Discharge nine sensor on second previous occ	vious occasion.				
27	Cooling		Indoor heat exchanger sensor 2 on second occ	rasion.				
27	Cooling	MED	Error code on third previous occasion					
	Cooling	HI	Boom temperature sensor on third previous of	casion				
	coomig		Indoor heat exchanger sensor 1 on third previous of	ous occasion				
23		LO	Remote control information on third previous					
25	Heating	MED	Nutdoor on temperature concor on third previous					
			Outdoor an temperature sensor on third previo	ous occasion.				
			Discharge pipe sensor on third previous economy	ion				
28	Cooling	AUTO	Indoor best exchanger concer 2 on third coord	ion.				
20	cooning	MED	Error and an fourth provides accession					
	Cooling		Promitication and the second of the second s	agazion				
	Cooling		Indeer best exchanger concer 1 on fourth previous	views conscien				
24		LO	Remote control information on fourth maximu					
24		MED	Quitdoor air temperature senser on fourth previou	is occasion.				
	Heating	MED	Outdoor air temperature sensor on fourth prev	ious occasion.				
			Discharge sing control of fourth previous					
20	Cooling	AUTO	Discharge pipe sensor on fourth previous occa	48100.				
2)	Cooling	MED	Indoor heat exchanger sensor 2 on fourn occa	sion.				
	Cooling	MED	Error code off fifth previous occasion.					
	Cooling	HI	Room temperature sensor on fifth previous oc	casion.				
25		AUIO	Indoor heat exchanger sensor 1 on fifth previo	bus occasion.				
2.5			Cutdoon on temporation on fifth previous	occasion.				
	Heating	MED	Outdoor air temperature sensor on fifth previo	· ·				
		HI	Discharger sensor on fifth previo	bus occasion.				
20	Castina	AUTO	Discharge pipe sensor on fifth previous occas					
30	Cooling	AUIO	Indoor heat exchanger sensor 2 on fifth occas	101.				
21			Stop code on previous occasion.					
22			Stop code on second previous occasion.					
2.5			Stop code on third previous occasion.					
24			Stop code on fourth previous occasion.					
25	Cooling	LO	Stop code on fifth previous occasion.					
20		Stop code on sixth previous occasion.						
2/			Stop code on seventh previous occasion.					
28			Stop code on eighth previous occasion.					
29			Stop code on ninth previous occasion.					
Judam			Stop code on tenth previous occasion.					Examinar
Domonic								LAAIIIIIICI
Kennarks								

Note (1) In the case of indoor heat exchanger sensor 2, match from 26 to 30 the temperature setting of remote control. (Refor to page 254)

#### (7) Inspection procedures corresponding to detail of trouble









# Outdoor fan motor error







# Drain abnormality (SRR only)

[Drain piping defective,pump defect, float switch, indoor PCB]



### (8) Phenomenon observed after shortcircuit, wire breakage on sensor

#### (a) Indoor unit

Sanoor	Operation	Phenomenon					
Selisor	mode	Shortcircuit	Disconnected wire				
Room temperature	Cooling	Release of continuous compressor operation command.	Continuous compressor operation command is not released				
sensor	Heating	Continuous compressor operation command is not released.	Release of continuous compressor operation command.				
Heat exchanger	Cooling	System can be operated normally.	Continuous compressor operation command is not released. (Anti-frosting)				
0011001	Heating	High pressure control mode (Compressor stop command)	Hot keep (Indoor fan stop)				
	Cooling	Refer to the table below.	Refer to the table below.				
Humidity sensor	Heating	Normal system operation is possible.					

Note (1) SRK35, 50ZJ, 50, 60ZJX, 71ZK-S,SRF25, 35, 50 only

#### Humidity sensor operation

Failu	ure mode	Control input circuit resding	Air conditioning system operation		
cted	1 Disconnected wire				
Disconne	<li>② Disconnected wire</li>	Humidity reading is 0%	Anti-condensation control is not done.		
	12 Disconnected wire				
Short Circuit	1) and 2) are shot circuited	Humidity reading is 100%	Anti-condensation control keep doing.		



Remark: Do not perform a continuity check of the humidity sensor with a tester. If DC current is applied, it could damage the sensor.

#### (b) Outdoor unit

0	Operation	Phenomenon				
Sensor	mode	Shortcircuit	Disconnected wire			
Heat exchanger	Cooling	System can be operated normally.	Compressor stop.			
sensor	Heating	Defrosting is not performed.	Defrosting is performed for 10 minutes at approx. 40 minutes.			
Ourdoor air	Cooling	System can be operated normally.	Compressor stop.			
temperature sensor	Heating	Defrosting is not operated.	Defrosting is performed for 10 minutes at approx. 40 minutes.			
Discharge pipe sensor	All modes	Compressor overload protection is disabled. (Can be operated.)	Compressor stop			

#### (9) Checking the indoor electrical equipment

#### (a) Indoor PCB check procedure



#### (b) Indoor unit fan motor check procedure

This is a diagnostic procedure for determining if the indoor unit's fan motor or the indoor PCB is broken down.

#### (i) Indoor PCB output check

- 1) Turn off the power.
- 2) Remove the front panel, then disconnect the fan motor lead wire connector.
- 3) Turn on the power. If the unit operates when the ON/OFF button is pressed, if trouble is detected after the voltages in the following figure are output for approximately 30 seconds, it means that the indoor PCB is normal and the fan motor is broken down.

If the voltages in the following figure are not output at connector pins No. (1), (4) and (5), the indoor PCB has failed and the fan motor is normal.



## (ii) Fan motor resistance check

Measuring point	Resistance when normal
① - ③ (Red - Black)	20 M $\Omega$ or higher
④ - ③ (White - Black)	$20 \mathrm{k}\Omega$ or higher

- Notes (1) Remove the fan motor and measure it without power connected to it. (2) If the measured value is below the value when the motor is normal, it means
  - (2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

#### (C) Power transistor inspection procedure

[Use a tester with a needle indicator for the inspection. (Do not use a digital tester. Check in the AC 300 volt range.)]

(1) If there is a self-diagnosis display, inspect the compressor system (burns, wiring mistakes, etc.) If no problems are found, check the output of the power transistor.

#### (2) Output inspection procedure

Disconnect the terminals for the compresseor.

If an output such as the one shown in the figure on the below can be measured, the power transistor and the circuit board for the outdoor unit are normal.



#### (10) How to make sure of wireless remote control





High voltage is produced in the control box. Don't touch electrical parts in the control box for 5 minutes after the unit is stopped.



See page 275.

1

High voltage is produced in the control box. Don't touch electrical parts in the control box for 5 minutes after the unit is stopped.



expansion valve

See page 275.

See the section of sensor characteristics on page 263.

High voltage is produced in the control box. Don't touch electrical parts in the control box for 5 minutes after the unit is stopped.



'13 • SCM-T-136

High voltage is produced in the control box. Don't touch electrical parts in the control box for 5 minutes after the unit is stopped.

#### Color Marks



1

High voltage is produced in the control box. Don't touch electrical parts in the control box for 5 minutes after the unit is stopped.

#### **Color Marks** Mark Color ΒK Black POWER SOURCE AC220/230/240V BL Blue Circuit breaker BR Brown 50Hz GN Green arth leakage breaker OR Orange $\overline{\mathbf{m}}$ Fi PK Pink TB NACT1 RD Red PWB5 PWB3 $\stackrel{\sim}{_{ m AC}}$ DS NOISE FILTER NOISE FILTER WH White TB6 YE Yellow A/F TB7 TB8 TB7 MODULE Y/G Yellow/Green D/A ۵<u>۲</u> N2 PWB2 INV PWB HV L-IN CNW (BK) N-IN UNIT A CNA1 (WH) CNTR (WH) LED1 疝 UNIT B CNTR( (WH) CNA2 (GN) LED2 LED3 UNIT C *•i*本 CNS2 (BK) CNS1 (BK) *4*4 PWB4 PWB1 CNI1 (WH) CNI2 SUB PWB CONTROL PWB CNX2 (YE) CNX1 (YE) UNIT D WH CNI3 (WH) CNI4 CHECKER PC CNV Y/G UNIT E IPM ÷ 30A 600V CN EEV3 ---UNIT F CNEEV1 CNFAN1 (WH) EEV4 CNL1 CNR1 (WH) CNN e Ä Ē H٣ Ę \$ 5555 Tho-AF [ HPS CH ◆Power source and serial 20S Tho-R Tho-D [ho−A M EEV-H M EEV E EEV F (M FM signal inspection (1) to (2): AC 220/230/240V 2 to 3: Normal if the voltage oscillates between DC 0 and approx. 20V ◆Inspection of electronic ◆Inspection of resistance value of sensor ♦Inspection of outdoor ◆Inspection power transistor expansion valve Remove the connector and check the fan motor Remove the fasten terminal and test See page 275. resistance value. See page 275. output voltage See the section of sensor characteristics

on page 263.

#### (a) Inspection of electronic expansion valve

Electronic expansion valve operates for approx. 10 seconds after the power on, in order to determine its aperture. Check the operating sound and voltage during the period of time. (Voltage cannot be checked during operation in which only the aperture change occurs.)

(i) If it is heard the sound of operating electronic expansion valve, it is almost normal.

(ii) If the operating sound is not heard, check the output voltage.



(iii) If voltage is detected, the outdoor sub PCB is normal.

(iv) If the expansion valve does not operate (no operating sound) while voltage is detected, the expansion valve is defective.

#### • Inspection of electronic expansion valve as a separate unit

Measure the resistance between terminals with an analog tester.

Measuring point	Resistance when normal
1-6	
1-4	$46 \pm 4\Omega$
1-3	(at 20°C)
1-5	

#### (b) Outdoor unit fan motor check procedure

• When the outdoor unit fan motor error is detected, diagnose which of the outdoor unit fan motor or outdoor main PCB is defective.

• Diagnose this only after confirming that the indoor unit is normal.

(i) Outdoor main PCB output check

1) Turn off the power.

2) Disconnect the outdoor unit fan motor connector CNFAN.

3) When the outdoor unit is operated by inserting the power supply plug and pressing (ON) the backup switch for more than 5 seconds, if the voltage of pin No. ② (SCM100,125: ⑥) in the following figure is output for 30 seconds at 20 seconds after turning "ON" the backup switch, the outdoor main PCB is normal but the fan motor is defective.

If the voltage is not detected, the outdoor main PCB is defective but the fan motor is normal.

Note (1) The voltage is output 3 times repeatedly. If it is not detected, the indoor unit displays the error message.



Notes(1) Remove the fan motor and measure it without power cnnected to it.

(2) If the measured value is below the value when the motor is normal, it means that the fan motor is fauly.

# 8.2 FDTC, FDEN and FDUM series

# 8.2.1 Diagnosing of microcomputer circuit

## (1) Selfdiagnosis function

## (a) Check indicator table

Whether a failure exists or not on the indoor unit and outdoor unit can be know by the contents of remote control error code, indoor/outdoor unit green LED (power pilot lamp and microcomputer normality pilot lamp) or red LED (check pilot lamp). (i) Indoor unit

Remote	control	Indoor co	ntrol PCB	Outdoor main PCB				Reference
Error code	Red LED	Red LED	Green LED (1)	Red LED	Location of trouble	Description of trouble	Repair method	page
		Stays OFF	Keeps flashing	Stays OFF	_	Normal operation	_	_
No-indication	Stays OFF	Stays OFF	Stays OFF	Stays OFF	Indoor unit power supply	Power OFF, broken wire/blown fuse, broken transformer wire	Repair	297
		*	Keeps		Remote control wires	Poor connection, breakage of remote control wire * For wire breaking at power ON, the LED is OFF.	Repair	
		3-time flash	flashing	Stays OFF	Remote control	Defective remote control PCB	Replacement of remote control	298
@WAI	「色 or	Stays OFF	Keeps	Stays OFF	Indoor-outdoor units connection wire	Poor connection, breakage of indoor-outdoor units connection wire		299~303
INSPEC	.11/0	-	nasning		Remote control	Improper setting of master and slave by remote control		
			* Keens		Remote control wires (Noise)	Poor connection of remote control signal wire (White)     * For wire breaking at power ON, the LED is OFF     Intrusion of noise in remote control wire	Repair	
		Stays OFF	flashing	Stays OFF	Remote control indoor control PCB	*• Defective remote control or indoor control PCB (defective communication circuit)?	Replacement of remote control or PCB	304
		2-time flash	Keeps flashing	6-time flash	Indoor-outdoor units connection wire	Poor connection of wire between indoor-outdoor units during operation (disconnection, loose connection)     Anomalous communication between indoor-outdoor units by noise, etc.	Repair	
		2-time	Keens	6-time	(Noise)	CPU-runaway on outdoor control PCB	Power reset or Repair	
		flash	flashing	flash	Outdoor control PCB	*• Occurrence of defective outdoor control PCB on the way of power supply (defective communication circuit)?	Replacement of PCB	305
		2-time	Keeps	6-time	Outdoor control PCB	Defective outdoor control PCB on the way of power supply	Renlacement	
		flash	flashing	flash	Fuse	• Blown fuse	replacement	
ЕБ		1-time	Keeps	Stays OFF	Indoor heat exchanger tempera- ture thermistor	Defective indoor heat exchanger temperature thermistor (defective element, broken wire, short-circuit)     Poor contact of temperature thermistor connector	Replacement, repair of temper- ature thermistor	306
		flash	flashing		Indoor control PCB	*• Defective indoor control PCB (Defective temperature thermistor input circuit)?	Replacement of PCB	
E 7		1-time flash	Keeps	Stays OFF	Indoor return air temperature thermistor	Defective indoor return air temperature thermistor (defective element, broken wire, short- circuit)     Poor contact of temperature thermistor connector	Replacement, repair of temper- ature thermistor	307
	Keeps	intoir .	intoining		Indoor control PCB	*• Defective indoor control PCB (Defective temperature thermistor input circuit)?	Replacement of PCB	
	flashing				Installation or operating condi- tion	Heating over-load (Anomalously high indoor heat exchanger temperature)	Repair	
83		1-time flash	Keeps flashing	Stays OFF	Indoor heat exchanger tempera- ture thermistor	Defective indoor heat exchanger temperature thermistor (short-circuit)	Replacement of temperature thermistor	308
					Indoor control PCB	*• Defective indoor control PCB (Defective temperature thermistor input circuit)?	Replacement of PCB	
					Drain trouble	Defective drain pump (DM), broken drain pump wire, disconnected connector	Replacement, repair of DM	
E g		1-time	Keeps	Stave OFF	Float switch	Anomalous float switch operation (malfunction)     (In case of FDTC_FDUM)	Repair	300
		flash	flashing	Stays Of 1	Indoor control PCB	*• Defective indoor control PCB (Defective float switch input circuit) *• Defective indoor control PCB (Defective DM drive output circuit)?	Replacement of PCB	507
					Option	Defective optional parts (At optional anomalous input setting)	Repair	
<u>E 10</u>		Stays OFF	Keeps flashing	Stays OFF	Number of connected indoor units	When multi-unit control by remote control is performed, the number of units is over	Repair	310
ב וב		1-time	Keeps	Stays OFF	Fan motor	Defective fan motor	Replacement, repair	311
םי ב		flash	flashing	54,5011	Indoor control PCB	Defective indoor control PCB		
E 13		1-time flash	Keeps flashing	Stays OFF	Indoor control PCB	Improper operation mode setting	Repair	312
הכפ		1-time	Keeps	Stays OFF	Fan motor	Indoor fan motor rotation speed anomaly     (In case of FDTC_FDUM)	Replacement, repair	313
		flash	flashing		Indoor power PCB	Defective indoor power PCB	Replacement	
E28		Stays OFF	Keeps flashing	Stays OFF	Remote control temperature thermistor	Broken wire of remote control temperature thermistor	Repair	315

Note (1) Normal indicator lamp (Indoor unit: Green) extinguishes (or lights continuously) only when CPU is anomalous. It keeps flashing in any trouble other than anomalous CPU.

(2) \* mark in the Description of trouble means that, in ordinary diagnosis, it cannot identify the cause definitely, and, if the trouble is repaired by replacing the part, it is judged consequently that the replaced part was defective.

## (ii) Outdoor unit

## 1) Model SCM40, 45, 50, 60, 71, 80

Remote control		Indoor co	ntrol PCB	Outdoor main PCB				Reference
Error code	Red LED	Red LED	Green LED	Red LED	Location of trouble	Description of trouble	Repair method	page
					Installation, operation status	Higher outdoor heat exchanger temperature	Repair	
E35	Stays OFF Keeps 2-time flashing flash Outdoor heat exchanger temperature sensor • Defective outdoor heat exc		Defective outdoor heat exchanger temperature sensor	Replacement, repair of temperature sensor	315			
					Outdoor main PCB	*• Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
					Installation, operation status	Higher discharge temperature	Repair	
E36		Stays OFF	Keeps flashing	5-time flash	Discharge pipe temperature sensor	Defective discharge pipe temperature sensor	Replacement, repair of temperature sensor	317
					Outdoor main PCB	*• Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
ЕЗЛ		Stays OFF	Keeps	8-time	Outdoor heat exchanger temperature sensor	Defective outdoor heat exchanger temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	318
			nasning	nasn	Outdoor main PCB	*• Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
F 78		Stays OFF	Keeps	8-time	Outdoor air temperature sensor	Defective outdoor air temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	319
			flashing	flash	Outdoor main PCB	*• Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
F39		Stave OFF Keeps		8-time	Discharge pipe temperature sensor	Defective discharge pipe temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	320
	Keeps		flashing	flash	Outdoor main PCB	*• Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
ЕЧ2	flashing	Stays OFF	Keeps	1-time	Outdoor main PCB, compressor	Current cut (Anomalous compressor over-current)	Replacement of PCB	323 • 324
			flashing flash Ins		Installation, operation status	Service valve closing operation	Repair	
Ęųς		Stay OFF	Keeps	4-time	Outdoor main PCB	Anomalous outdoor main PCB commuication	Replacement of	325
		Stay OFF	flashing	flash	Outdoor sub PCB	Anomalous outdoor sub PCB commuication	PCB	525
ЕЧЛ		Stays OFF	Keeps flashing	2-time flash	Outdoor sub PCB	Defective active filter	Repair PCB replacement	326
cuo		Staria OEE	Keeps	ON	Fan motor	Defective fan motor	Donlocomont	227
		Stays OF F	flashing	UN	Outdoor main PCB	Defective outdoor main PCB	Replacement	527
ES 1		Stays OFF	Keeps flashing	1-time flash	Power transistor error (outdoor main PCB)	Power transistor error	Replacement of PCB	328
E5 3		Stays OFF     Keeps flashing     8-time flash     Outdoor suction pipe sensor     • I c       Outdoor sub PCB     • I		Outdoor suction pipe sensor	Defective suction pipe temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	330	
				Outdoor sub PCB	Defective outdoor sub PCB (Defective temperature sensor input circuit)?	Replacement of PCB		
			Kaana	2 timo	Operation status	Shortage in refrigerant quantity	Repair	
251		Stays OFF	flashing	flash	Installation status	Service valve closing operation	Service valve opening check	332
E 58		Stays OFF	Keeps flashing	3-time flash	Overload operation     Overcharge     Compressor locking	Current safe stop	Replacement	333
E59		Stays OFF	Keeps flashing	2-time flash	Compressor, outdoor main PCB	Anomalous compressor startup	Replacement	334
E60		Stays OFF	Keeps flashing	7-time flash	Compressor	Anomalous compressor rotor lock	Replacement	335

Note (1) \* mark in the Description of trouble means that, in ordinary diagnosis, it cannot identify the cause definitely, and, if the trouble is repaired by replacing the part, it is judged consequently that the replaced part was defective.

## 2) Model SCM100, 125

Remote	Remote control		ntrol PCB	Outdoor				Reference
Error code	Red LED	Red LED	Green LED	Red LED	Location of trouble	Description of trouble	Repair method	page
					Installation, cooling operation status	Higher outdoor high pressure	Repair	
E35		Stays OFF	Keeps flashing	2-time flash	High pressure sensor	Defective high pressure sensor	Replacement, repair of temperature sensor	316
					Outdoor control PCB	*• Defective outdoor control PCB (Defective high pressure sensor input circuit)?	Replacement of PCB	
					Installation, operation status	Higher discharge temperature	Repair	
E 36		Stays OFF	Keeps flashing	5-time flash	Discharge pipe temperature sensor	Defective discharge pipe temperature sensor	Replacement, repair of temperature sensor	317
					Outdoor control PCB	*• Defective outdoor control PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
ЕЗТ		Stays OFF	Keeps	8-time flash	Outdoor heat exchanger temperature sensor	Defective outdoor heat exchanger temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	318
			incoming	111011	Outdoor control PCB	*• Defective outdoor control PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
E 38		Stays OFF	Keeps	8-time	Outdoor air temperature sensor	Defective outdoor air temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	319
			nusning	intustr	Outdoor control PCB	*• Defective outdoor control PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
E 3 9		Stays OFF	Stays OFF Recht Bach		Defective discharge pipe temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	320	
			nusning	ilusii	Outdoor control PCB	*• Defective outdoor control PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
					Installation, Heating operation status	Higher outdoor high pressure	Repair	
ЕЧО	Keeps flashing	Stays OFF	Keeps flashing	2-time flash	High pressure sensor	nsor • Defective high pressure sensor		321
					Outdoor control PCB	Defective outdoor control PCB (Defective high pressure sensor input circuit)?	Replacement of PCB	
E4 1		Stays OFF	Keeps flashing	1-time flash	Power transistor	Power transistor overheat	Replacement of PCB or Repair	322
E42		Stays OFF	Keeps	1-time	Outdoor main PCB, compressor	Current cut (Anomalous compressor over-current)	Replacement of PCB	323•324
			masning	masn	Installation, operation status	Service valve closing operation	Repair	
EYS		Stay OFF	Keeps	4-time	Outdoor control PCB	Anomalous outdoor control PCB commuication	Replacement of	325
			flashing	flash	Outdoor sub PCB	Anomalous outdoor sub PCB commutation	PCB	
E48		Stays OFF	flashing	ON	Outdoor control PCB	Defective number control PCB	Replacement	327
E5 1		Stays OFF	Keeps	1-time flash	Power transistor error (Inverter PCB)	Inverter and fan motor anomaly	Replacement of PCB	329
E5 7		Hashing         Hashing <t< td=""><td>Defective suction pipe temperature sensor, broken wire or poor connector connection</td><td>Replacement, repair of temperature sensor</td><td>330</td></t<>		Defective suction pipe temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	330		
			flashing	flash	Outdoor control PCB	Defective outdoor control PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
EGU		Stave OFF	Keeps	8-time	High pressure sensor	Defective high pressure sensor	Replacement of sensor	331
		JuyJOIT	flashing	flash	Outdoor control PCB	Defective outdoor control PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
			Keeps	2-time	Operation status	Shortage in refrigerant quantity	Repair	
651		Stays OFF	flashing	flash	Installation status	Service valve closing operation	Service valve opening check	332
E59		Stays OFF	Keeps flashing	2-time flash	Compressor, outdoor main PCB	Anomalous compressor startup	Replacement	334

Note (1) \* mark in the Description of trouble means that, in ordinary diagnosis, it cannot identify the cause definitely, and, if the trouble is repaired by replacing the part, it is judged consequently that the replaced part was defective.

## (iii) Display sequence of error codes or inspection indicator lamps

## Occurrence of one kind of error

Displays are shown respectively according to errors.

Section	Category of display
Error code on remote control	• Displays the error of higher priority (When plural errors are persisting)
Red LED on indoor control PCB	Е І Е 5 ·····Е 10 ×Е 3 >····ЕЬО
Red LED on outdoor main (control) PCB	• Displays the present errors. (When a new error has occurred after the former error was reset.)

## Error detecting timing

Section	Error description	Error code	Error detecting timing			
	Drain trouble (Float switch activated)	69	Whenever float switch is activated after 30 second had past since power ON.			
	Communication error at initial operation	"ውwaitው"	No communication between indoor and outdoor units is established at initial operation.			
	Remote control communication circuit error	EI	Communication between indoor unit and remote control is interrupted for mote than 2 minutes continuously after initial communication was established.			
Indoor	Communication error during operation	ES	Communication between indoor and outdoor units is interrupted for mote than 2 minutes continuously after initial communication was established.			
	Excessive number of connected indoor units by controlling with one remote control	E 10	Whenever excessively connected indoor units is detected after power ON.			
	Return air temperature thermistor anomaly	Eη	-20°C or lower is detected for 5 seconds continuously within 60 minutes after initial detection of this anomalous temperature.			
	Indoor heat exchanger temperature thermistor anomaly	66	-40°C or lower is detected for 5 seconds continuously within 60 minutes after initial detection of this anomalous temperature. Or 70°C or higher is detected for 5 seconds continuously.			
	Outdoor air temperature sensor anomaly	E 38	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous sensor. Or -55°C or higher is detected for 5 seconds continuously within 20 seconds after power ON.			
Outdoor	Outdoor heat exchanger temperature sensor anomaly	E 37	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous sensor Or -55°C or lower is detected for 5 seconds continuously within 20 seconds after power ON.			
	Discharge pipe temperature sensor anomaly		-25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous sensor.			
	Suction pipe temperature sensor anomaly	853	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous sensor. Or -55°C or higher is detected for 5 seconds continuously within 20 seconds after power ON.			

### Error log and reset

Error indicator	Memorized error log	Reset
Remote control display	Higher priority error is memorized.	• Stop the unit by pressing the ON/OFF
Red LED on indoor control PCB	• Not memorized.	• If the unit has recovered from anomaly, it
Red LED on outdoor main (control) PCB	<ul> <li>Memorizes a mode of higher priority.</li> </ul>	can be operated.

#### Resetting the error log

• Resetting the memorized error log in the remote control

Holding down "CHECK" button, press "TIMER" button to reset the error log memorized in the remote control.

· Resetting the memorized error log

The remote control transmits error log erase command to the indoor unit when "VENTI" button is pressed while holding down "CHECK" button.

Receiving the command, the indoor unit erase the log and answer the status of no error.

#### (2) Troubleshooting procedure

When any trouble has occurred, inspect as follows. Details of respective inspection method will be described on later pages.



#### (3) Troubleshooting at the indoor unit

With the troubleshooting, find out any defective part by checking the voltage (AC, DC), resistance, etc. at respective connectors at around the indoor PCB, according to the inspection display or operation status of unit (the compressor does not run, fan does not run, the 4-way valve does not switch, etc.), and replace or repair in the unit of following part.

#### (a) Replacement part related to indoor PCB's

Control PCB, power supply PCB, temperature thermistor (return air, indoor heat exchanger), remote control and fuse Note (1) With regard to parts of high voltage circuits and refrigeration cycle, judge it according to ordinary inspection methods.

#### (b) Instruction of how to replace indoor control PCB

Development of the second se
Read the "SAFETY PRECAUTIONS" carefully first or all and then strictly follow it during the replacement in order to protect yourself.
<ul> <li>The precautionary items mentioned below are distinguished into two levels, WARNING and CAUTION.</li> </ul>
Both mentions the important items to protect your health and safety so strictly follow them by any means.
WRNING Wrong installation would cause serious consequences such as injuries or death.
△ CAUTION Wrong installation might cause serious consequences depending on circumstances.
<ul> <li>After completing the replacement, do commissioning to confirm there are no anomaly.</li> </ul>
<u>∧</u> WARNING
Replacement should be performed by the specialist.
If you replace the PCB by yourself, it may lead to serious trouble such as electric shock or fire.
Replace the PCB correctly according to these instructions.
Improper replacement may cause electric shock or fire.
Shut off the power before electrical wiring work.
Replacement during the applying the current would cause the electric shock, unit failure or improper running.
It would cause the damage of connected equipment such as fan motor.etc.
• Fasten the wiring to the terminal securely, and hold the cable securely so as not to apply unexpected stress on the terminal.
Loose connections or hold could result in abnormal heat generation or fire.
Check the connection of wiring to PCB correctly before turning on the power, after replacement.
Defectiveness of replacement may cause electric shock or fire.
In connecting connector onto the PCB, connect not to deform the PCB. It may cause breakage or malfunction.
Insert connecter securely, and hook stopper. It may cause fire or improper running.
Bundle the cables together so as not to be pinched or be tensioned. It may cause malfunction or electric shock for disconnection or deformation.

## (i) FDTC series

## 1) Control PCB

Replace and set up the PCB according to this instruction.

Set to an appropriate address and function using switch on PCB. Select the same setting with the removed PCB.

item	switch	Content of control				
Address	SW2	or units control by 1 remote control				
Teet run	CW7 1	_	Normal			
TestTull	5007-1	0	Operation check/drain motor test run			
O'ON -OFF						

② Set to an appropriate capacity using the model selector switch(SW6).

Select the same capacity with the PCB removed from the unit.

SW6	-1	-2	-3	-4	SW6
25VF	0	—	_	_	ON
35VF	—	0	_	-	
50VF	0	—	0	-	
60VF	0	0	0	_	1 2



③ Replace the PCB

1. Fix the PCB so as not to pitch the cords.

2. Connect connectors to the PCB. Connect a cable connector with the PCB connector of the same color.

3. Do not pass CPU surrounding about wirings.

#### ④ Control PCB

Parts mounting are different by the kind of PCB.



# PSB012D976B PSB012D976C

## 2) Power PCB

This PCB is a general PCB. Replace the PCB according to this instruction.

- ① Replace the PCB (refer to right dwg.)
  - 1. Unscrew terminal of the wiring(yellow/green) soldered to PCB from the box.
  - 2. Cut the band that binds the wiring (red and blue) from connector CNW1 and CNW2, and the wiring (yellow/green) from PCB (T2/T3). (Note 1) (However, do not cut the band that binds only the red and blue wirings.)
  - 3. Replace the PCB only after all the wirings connected to the connector are removed.
  - 4. Fix the board such that it will not pinch any of the wires.
  - 5. Reconnect the wirings to the PCB. Wiring connector color should match with the color of connector of the PCB. (Note 2)
  - 6. Let the wiring (red and blue) pass beneath the (yellow/green) wiring and bind together with band.
  - 7. Screw back the terminal of wiring (yellow/green) from PCB(T1, T2/T3), that was removed in 1.
    - In that case, do not place the crimping part of the wiring under the PCB.
    - (Note 1): It might not be applicable on some models.
    - (Note 2): After replacing PCB, connection between capacitor assy and connector CNP is no longer needed.





PSB012D953A

CNW0(White)

Terminal block

250VL3.15A 250V 5A

Ž

L200

Ĭ

L201

Z201

SA20

ļ F200

200 -N-

C304

-11-

CAUTION HIGH VOLTAGE

C322

250V 250V

C307

15A/250

T250VL3.

-11-

C30

C306 Ŧ

C301

CNR(White)

Drain motor

T250VL0. 250V0.2

CNR

F203

F20

PSB012D974C

## (ii) FDEN series

① Set to an appropriate address and function using switch on PCB.

- 1. There is a unit having plural applicable PCB depending on a model.
- $\ensuremath{\text{2.Set}}$  the function setting corresponding the spare PCB and the applicable model.

item	switch	Content of control			
Address	SW2	Plural indoor units control by 1 remote cont			
Tost run	SW7 1	—	Normal		
restruit	3///-1	0	Operation check/drain motor test run		
0:0N —:0FF					

② Set to an appropriate capacity using the model selector switch(SW6). Select the same capacity with the PCB removed from the unit.



#### ③ Replace the PCB

1. Fix the PCB so as not to pitch the cords.

2. Connect connectors to the PCB. Connect a cable connector with the PCB connector of the same color.

 $\ensuremath{\mathsf{3.Do}}$  not pass CPU surrounding about wirings.

#### ④ Control PCB

Parts mounting are different by the kind of PCB.



## (iii) FDUM series

### 1) Control PCB

Replace and set up the PCB according to this instruction.

1 Set to an appropriate address and function using switch on PCB.

Select the same setting with the removed PCB.

item	switch	Content of control			
Address	SW2	Plural indoor units control by 1 remote control			
Tost run	SW7 1	_	Normal		
restruit	3007-1	0	Operation check/drain motor test run		
O:ON -:OFF					

(2) Set to an appropriate capacity using the model selector switch(SW6).





③ Replace the PCB

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50V

- 1. Exchange PCB after detaching all connectors connected with the PCB.
- 2. Fix the PCB so as not to pitch the wiring.
- 3. Connect connectors to the PCB. Match the wiring connector to the connector color on the PCB and connect it.
- ④ Control PCB

Parts mounting are different by the kind of PCB.



PSB012D990B

PSB012D992

## 2) Power PCB

This PCB is a general PCB. Replace the PCB according to this instruction.

#### 1 Replace the PCB

- 1. Unscrew terminal of the wiring(yellow/green) connected to Terminal block (CNWO) from the box.
- 2. Replace the PCB only after all the wirings connected to the connector are removed.
- 3. Fix the board such that it will not pinch any of the wires.
- 4. Reconnect the wirings to the PCB. Wiring connector color should match with the color of connector of the PCB.
- 5. Screw back the terminal of wiring, that was removed in 1.

## 2 Power PCB

Parts mounting are different by the kind of PCB.



# •DIP switch setting list

Switches	Descriptio	D	efault setting	Remarks	
SW2	Address No. setting at plural indoor u	units control by 1 R/C	0		0-F
SW6-1					
SW6-2	Model selection		As par r	nodel	See table 1
SW6-3	Woder selection		As per model		See table 1
SW6-4					
SW7-1	Test run, Drain motor Normal*/Test run		OFF	Normal	
SW7-2	Reserved		OFF		keep OFF
SW7-3	Powerful mode	Valid*/Invalid	ON	Valid	
SW7-4	Reserved		OFF		keep OFF
SW8-1	Reserved				keep OFF
SW8-2	Reserved				keep OFF
SW8-3	Reserved				keep OFF
SW8-4	Reserved				keep OFF
JSL1	Superlink terminal spare	Normal*/switch to spare	With		

\* Default setting

Table 1: Indoor unit model selection with SW6-1-SW6-4

	0: OFF	1:ON		
	25VF	35VF	50VF	60VF
SW6-1	1	0	1	1
SW6-2	0	1	0	1
SW6-3	0	0	1	1
SW6-4	0	0	0	0

(4) Check of anomalous operation data with the remote control

Operation data can be checked with remote control unit operation.

- Press the CHECK button.
   The display change " (PER DATA
- ② Press the  $\bigcirc$  (SET) button while "  $\bigcirc$  PER  $\bigcirc$  T is displayed.
- ③ When only one indoor unit is connected to remote control, "DATALDADING" 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) → " I/U000 ▲ " blinking.

- Select the indoor unit number you would like to have data displayed with the button.
- ⑥ Determine the indoor unit number with the O (SET) button.

(The indoor unit number changes from blinking indication to continuous indication)

" I/U000 " (The address of selected indoor unit is blinking for 2 seconds.)

↓

"DATA LDADING" (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 above table.

\*Depending on models, the items that do not have corresponding data are not displayed.

- ③ 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.

 $\odot$ If two (2) remote controls are connected to one (1) inside unit, only the master control is available for trial operation and confirmation of operation data. (The slave remote control is not available.)

Number		Data Item
01	** **	(Operation Mode)
02	SET TEMPి	(Set Temperature)
03	RETURN AIRర	(Return Air Temperature)
04	🖻 SENSOR``c	(Remote Control Thermistor Tempeature)
05	THI-R1c	(Indoor Heat Exchanger Thermistor / U Bend)
06	THI-R2ზ	(Indoor Heat Exchanger Thermistor /Capillary)
07	THI-R3ზ	(Indoor Heat Exchanger Thermistor /Gas Header)
08	I/U FANSPEED	(Indoor Unit Fan Speed)
09	DEMANDHz	(Frequency Requirements)
10	ANSWERHz	(Response Frequency)
11	I/UEEVP	(Pulse of Indoor Unit Expansion Value)
12	TOTAL I/U RUN	H (Total Running Hours of The Indoor Unit)
21	OUTDOORර්	(Outdoor Air Temperature)
22	THO-R1්	(Outdoor Heat Exchanger Thermistor)
23	ТНО-R2°	(Outdoor Heat Exchanger Thermistor)
24	COMPHz	(Compressor Frequency)
25	HPMPa	(High Pressure)
26	LPMPa	(Low Pressure)
27	ٽbT	(Discharge Pipe Temperature)
28	COMP BOTTOMc	(Comp Bottom Temperature)
29	CTAMP	(Current)
30	TARGET SH°c	(Target Super Heat)
31	SHඊ	(Super Heat)
32	TDSHt	(Discharge Pipe Super Heat)
33	PROTECTION No	(Protection State No. of The Compressor)
34	0/UFANSPEED	(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	0/UEEV1P	(Pulse of The Outdoor Unit Expansion Valve EEVC)
39	0/UEEV2P	(Pulse of The Outdoor Unit Expansion Valve EEVH)
## (5) Inverter checker for diagnosis of inverter output

### Checking method

- (a) Setup procedure of checker.
  - (i) Power OFF (Turn off the breaker).
  - (ii) Remove the terminal cover of compressor and disconnect the wires (U, V, W) from compressor.
  - (iii) Connect the wires U (Red), V (White) and W (Black) of the checker to the terminal of disconnected wires (U, V, W) from compressor respectively.
- (b) Operation for judgment.
  - (i) Power ON and start check operation on cooling or heating mode.
  - (ii) Check ON/OFF status of 6 LED's on the checker.
  - (iii) Judge the PCB by ON/OFF status of 6 LED's on the checker.

ON/O status of	FF LED	If all of LED are ON/OFF according to following pattern	If all of LED stay OFF or some of LED are ON/OFF		
Outdoor PCE	Outdoor main PCB Normal		Anomalous		
Po	wer Ol	N 3 min.	During this period, ON/OFF s repeated cyclically according	tatus of LED is to following pattern	
S	Start ch	eck operation Sto	op check operation		
(iv) Sto	p checl	k operation within about 2minutes	s after starting check operation.		
<inverter c<="" td=""><td>hecke</td><td></td><td>LED ON/OFF pattern</td><td>)</td><td></td></inverter>	hecke		LED ON/OFF pattern	)	
			LED1 LED2 LED3 LED4 LED5 LED4 LED5 LED6 LED6 LED6 LED6 LED6 LED6 LED6 LED6	$\begin{array}{c} D1\\ D \\ D \\ D \\ D \\ D \\ D \\ D \\ D \\ D \\$	.ED2 .ED4 .ED6
	Fasto	Red White U V Black		Cyclically O	ON OFF

Faston terminal Faston termina

#### (6) Outdoor unit inspection points

•See page 270 to 274

# 8.2.2 Troubleshooting flow (1) List of troubles

Remote control display	Description of trouble	Reference page
None	Operates but does not cool.	290
None	Operates but does not heat.	291
None	Earth leakage breaker activated	292
None	Excessive noise/vibration (1/3)	293
None	Excessive noise/vibration (2/3)	294
None	Excessive noise/vibration (3/3)	295
None	Louver motor failure (FDTC and FDEM only)	296
None	Power supply system error (Power supply to indoor control PCB)	297
None	Power supply system error (Power supply to remote control)	298
INSPECT I/U	INSPECT I/U (When 1 or 2 remote controls are connected)	299
INSPECT I/U	INSPECT I/U (Connection of 3 units or more remote controls)	300
௹WAIT௹	Communication error at initial operation	301~303
E1	Remote control communication circuit error	304
E5	Communication error during operation	305
E6	Indoor heat exchanger temperature thermistor anomaly	306
E7	Return air temperature thermistor anomaly	307
E8	Heating overload operation	308
E9	Drain trouble (FDTC and FDUM only)	309
E10	Excessive number of connected indoor units (more than 17 units) by controlling with one remote control	310
E16	Indoor fan motor anomaly (FDTC and FDUM only)	311
E19	Indoor unit operation check, drain motor check setting error	312
E20	Indoor fan motor rotation speed anomaly (FDTC and FDUM only)	313
E28	Remote control temperature thermistor anomaly	314
E35	Cooling high pressure operation	315, 316
E36	Discharge pipe temperature error	317
E37	Outdoor heat exchanger temperature sensor anomaly	318
E38	Outdoor air temperature sensor anomaly	319
E39	Discharge pipe temperature sensor anomaly	320
E40	Heating high pressure operation (SCM100, 125 only)	321
E41	Power transistor overheat (SCM100, 125 only)	322
E42	Current cut	323, 324
E45	Outdoor sub PCB communication error	325
E47	Active filter voltage error (SCM40, 45, 50, 60, 71, 80 only)	326
E48	Outdoor fan motor anomaly	327
E51	Power transistor anomaly (SCM40, 45, 50, 60, 71, 80 only)	328
E51	Inverter and fan motor anomaly (SCM100, 125 only)	329
E53	Suction pipe temperature error	330
E54	High pressure sensor anomly (SCM100, 125 only)	331
E57	Insufficient refrigerant amount or detection of service valve closure	332
E58	Current safe stop (SCM40, 45, 50, 60, 71, 80 only)	333
E59	Compressor startup failure	334
E60	Anomalous compressor rotor lock (SCM40, 45, 50, 60, 71, 80 only)	335

# (2) Troubleshooting





















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β	Error code	LED	Green	Red	Content	
	Remote control: None	Indoor	-	-	Excessive noise/vibration (3/3)	
		Outdoor	-	_		



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(	Error code	LED	Green	Red	Content
	Remote control: None	Indoor	Keeps flashing	Stays OFF	Louver motor failure
		Outdoor	_	Stays OFF	(FDTC and FDEN series)



					G
β	Error code	LED	Green	Red	Content Power supply system error
	Remote control: None	Indoor	Stays OFF	Stays OFF	(Dower supply to indeer control DCD)
		Outdoor	_	Stays OFF	(rower suppry to indoor control PCB)



					P
F	Error code	LED	Green	Red	Content Dower supply system error
	Remote control: None	Indoor	Keeps flashing	Stays OFF	(Power supply to remote control)
		Outdoor –	_	Stays OFF	(rower suppry to remote control)
l					



					G
F	Error code	LED	Green	Red	Content
	Remote control: INSPECT I/U	Indoor	Keeps flashing	Stays OFF	INSPECT I/U
		Outdoor	_	Stays OFF	(When 1 or 2 remote controls are connected)



Note: If any error is detected 30 minutes after displaying "WAIT" on the remote control, the display changes to "INSPECT I/U".

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μ	Error code	LED	Green	Red	Content
	Remote control: INSPECT I/U	Indoor	Keeps flashing	Stays OFF	INSPECT I/U
		Outdoor	-	Stays OFF	(Connection of 3 units or more remote control)



Note: If any error is detected 30 minutes after displaying ""WAIT"" on the remote control, the display changes to "INSPECT I/U".





matters related to connection) When the power supply is reset after the occurrence of E5, the LED will display " @WAIT @" if the anomaly continues. If the breaker ON/OFF is repeated in a short period of time (within 1 minute), " @WAIT @" may be displayed. In such occasion, turn the breaker off and wait for 3 minutes.

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ρ	Error code	LED	Green	Red	Content Content in the second second
	Remote control: "WAIT"	Indoor	Keeps flashing	Stays OFF	Communication error at
		Outdoor	_	Stays OFF	initial operation $(2/3)$









Note: If the indoor unit cannot communicate normally with the remote control for 180 seconds, the indoor contnrol PCB starts to reset automatically.

















Note: During heating operation; After starting compressor, compressor rotation speed is decreased by detecting indoor heat exchanger temperature (ThI-R) in order to control high pressure.





Note: When this error occurred at power ON, disconnection of wire or connector of the float switch is suspected. Check and correct it (or replace it, if necessary).

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F	Error code	LED	Green	Red	Content Excessive number of connected
	Remote control: E10	Indoor	Keeps flashing	Stays OFF	indoor units (more than 17 units)
		Outdoor	-	Stays OFF	by controlling with one remoto control
l	<u></u>				



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β	Error code	LED	Green	Red	Content	
	Remote control: E16	Indoor	Keeps flashing	1-time flash	Indoor fan motor anomaly	
		Outdoor	-	Stays OFF	(FDTC and FDUM series)	



_					G
β	Error code	LED	Green	Red	Content Indeer unit expertion sheet
	Remote control: E19	Indoor	Keeps flashing	1-time flash	—— muoor unit operation check,
		Outdoor	_	Stave OFF	drain motor check setting error
		Outdoor	-	Stays OFF	







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$\overline{C}$					
μ	Error code	LED	Green	Red	Content
	Remote control: E28	Indoor	Keeps flashing	Stays OFF	Remote control
		Outdoor	-	Stays OFF	temperature thermistor anomaly
U					



Note: After 10 seconds has passed since remote control thermistor was switched from valid to invalid, E28 will not be displayed even if the thermistor harness is disconnected. At same time the thermistor, which is effective, is switched from remote control thermistor to indoor return air temperature thermistor. Even though the remote control thermistor is set to be Effective, the return air temperature displayed on remote control for checking still shows the value detected by indoor return air temperature thermistor, not by remote control temperature thermistor.

_					G
ρ	Error code	LED	Green	Red	Content
	Remote control: E35	Indoor	Keeps flashing	Stays OFF	Cooling high pressure operation
		Outdoor	_	2-time flash	(Model SCM40, 45, 50, 60, 71, 80)



_					G
ρ	Error code	LED	Green	Red	Content
	Remote control: E35	Indoor	Keeps flashing	Stays OFF	Cooling high pressure operation
		Outdoor	-	2-time flash	(Model SCM100, 125)
U					















_						<u> </u>
ρ	Error code	LED	Green	Red	Content	
	Remote control: E40	Indoor	Keeps flashing	Stays OFF	Heating high pressure operation	
		Outdoor	_	2-time flash	(Model SCM100, 125)	



	_					
F	9	Error code	LED	Green	Red	Content
		Remote control: E41	Indoor	Keeps flashing	Stays OFF	Power transistor overheat
			Outdoor	_	1-time flash	(Model SCM100, 125)
l	J					












					G
β	Error code	LED	Green	Red	Content
	Remote control: E47	Indoor	Keeps flashing	Stays OFF	Active filter voltage error
		Outdoor	-	2-time flash	(Model SCM40, 45, 50, 60, 71, 80)
l	<u></u>				







Note: When E48 error occurs, in almost cases F3 (SCM100, 125: F4) fuse on the outdoor main (control) PCB is blown. There are a lot of cases that fuse is blown and E48 occurs due to defective fan motor. And even though only the outdoor main (control) PCB ( or fuse) is replaced,, another trouble could occur. Therefore when fuse is blown, check whether the fan motor is OK or not. After confirming the fan motor normal, check by power ON. (Don't power ON without confirming the fan motor normal.)

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F	Error code	LED	Green	Red	Content	
	Remote control: E51	Indoor	Keeps flashing	Stays OFF	Power transistor anomaly	
		Outdoor	_	1-time flash	(Model SCM40, 45, 50, 60, 71, 80)	
l	<u></u>					



						<u> </u>
ρ	Error code	LED	Green	Red	Content	
	Remote control: E51	Indoor	Keeps flashing	Stays OFF	Inverter and fan motor anomaly	
		Outdoor	_	1-time flash	(Model SCM100, 125)	















_					Q
β	Error code	LED	Green	Red	Content
	Remote control: E58	Indoor	Keeps flashing	Stays OFF	Current safe stop
		Outdoor	-	3-time flash	(Model SCM40, 45, 50, 60, 71, 80)







Insulation resistance  $\Gamma$  is the for long period without power supply or soon after installation, migrated liquid refrigerant may dissolve in the refrigerant oil in the compressor. In such case insulation resistance decreases up to several M $\Omega$  or lower. If the electric leakage breaker is activated due to low insulation resistance, check followings

Check whether the electric leakage breake conforms to high-hermonic specifications (As units has inverter, in order to prevent from improper operation, be sure to use high-hermonic one.)

_						G
β	Error code	LED	Green	Red	Content	
	Remote control: E60	Indoor	Keeps flashing	Stays OFF	Compressor rotor lock error	
		Outdoor	_	7-time flash	(Model SCM40, 45, 50, 60, 71, 80)	
	<u></u>					_



Note: Insulation resistance

The unit is left for long period without power supply or soon after installation, migrated liquid refrigerant may dissolve in the refrigerant oil in the compressor. In such case insulation resistance decreases upto several M $\Omega$  or lower. If the electric leakage breaker is activated due to low insulation resistance, check followings.

① Check whether the electric leakage breake conforms to high-hermonic specifications (As units has inverter, in order to prevent from improper operation, be sure to use high-hermonic one.)

# 9. TABLE OF FUNCTIONS CONNECTED WIRED REMOTE CONTROL (RC-E5)

If wired remote control (option part) is connected to the following indoor units, some of the functions cannot be used. Please see following table for details.

- Wall mounted type : SRK \* \* ZJX-S, ZJ-S, ZK-S
- Floor standing type : SRF\*\*ZJX-S
- Ceiling concealed type : SRR \* \* ZJ-S

 $O: OK, \Delta: Conditionally OK, \times: N/A$ 

					O : 0K	$\Delta$ : Conditionally OK, $\times$ : N/A
NO.	Functions	SRK	SRR	SRF	Outline of function	Remarks
1	Several remote controls for 1unit	0	0	0	Indoor unit can be connected max. 2 remote controls.	
2	Control of several indoor units	0	0	0	One remote control can be connected toa max. of 16 indoor unit.	
3	Plural Control	Δ	×	×	One outdoor unit can be connected to a max. of 4indoor units.	Only SRK50ZJX-S1,60ZJX-S2
4	Central control	0	0	0	Signal of center mode from Center conslole can be restricted to operation of remote control.	
5	Run/Stop	0	0	0		
6	Change operation mode	0	0	0	Display of operation mode range is automatically decided from the indoor unit's imformation.	
7	Adjust fan speed	0	0	0	Display of airflow range is automatically decided from the indoor unit's imformation.	
8	Auto swing of flap	0	×	0	Display of airflow direction ON/OFF is automatically decided from the indoor unit's imformation.	Flap control only. Louver cannot be controlled.
9	Setting of air flow direction	×	×	×	Setting of air flow direction for indoor unit that can be changed airflow direction.	
10	Setting of temperture	Δ	Δ	Δ		Temperture range can be set from 18 degree to $30$ degree. Carving $0.5^{\circ}$ C is rounded up.
11	Timer operation	0	0	0	Sleep timer mode, Off timer mode, On timer mode, Weekly timer mode.	Worm up timer and sleep control of on timer mode is impossible.
12	Ventilation control	×	×	×	Air infiltration can be controlled by the indoor unit that has this function.	RAC unit does not have this function.
13	Display of unit number	0	0	0	Display address number of remote control.	Address setted by SC-BIKN-E for RAC
14	Service switch-1: Display of error data	Δ	Δ	Δ	Display and memorize the error code data that is checked finally.	Only error code is used in the RAC unit.
15	Service switch -2 display of operation data	Δ	Δ	Δ	Display operation data.	RAC unit can be displayed some data.
16	Trial run	0	0	0	Cooling operation signal is sent to the indoor unit.	
17	Forced operation of drain pump	×	Δ	×	Forced operation of drain pump is sent to the indoor unit.	Option parts for SRR
18	Setting of compressor frequency	0	0	0	Fixing compressor frequency.	
19	Quiet mode	×	×	×	On timer in order to start quiet mode.	RAC unit does not have this function.
20	Auto address change from remote control	×	×	×	Auto address can be changed from remote control.	RAC unit does not have this function.
21	Indoor unit's address set of master	×	×	×	Adapt controller for 3 pipe system.	RAC unit does not have this function.
22	Filter reset	×	×	×	Turning off signal display of filter sign and sending reset signal of operating time.	RAC unit does not have this function.
23	Clear memory of error code in remote control	0	0	0	Reset memory that remote control has the error code.	
24	Clear memory of error code in the indoor unit	0	0	0	Reset memory of error for the indoor unit.	
25	Clear address in indoor unit	×	×	×	Reset memory of address for the indoor unit.	RAC unit does not have this function.
26	Reset CPU	0	0	0	Reset outdoor or indoor CPU.	
27	Function setting	Δ	Δ	Δ	It is possible to set the function of remote control and indoor unit.	RAC unit can be set a part of function.
28	Setting of temperature range	Δ	Δ	Δ	Set Max and Min temperature.	For RAC models, only the range from $18^{\circ}$ C to $30^{\circ}$ C is available.
29	External input	0	0	0	External input from CNT terminal can be switched between all unit operation and individual operation.	
30	Auto adjustment of static pressure	×	×	×	Change auto adjustment of static pressure.	RAC unit does not have this function.
31	Setting of static pressure	×	×	×	Displayed part blinks on and off when it recives a signal about auto adjustment of static pressure mode.	RAC unit does not have this function.
32	Filter sign	×	×	×	Displays filter sign via signal from indoor unit when counting time achieves target time.	RAC unit does not have this function.

NO.	Functions	SRK	SRR	SRF	Outline of function	Remarks
33	Preparation of display of heating opration	0	0	0	Display of preparative heating opration from indoor unit.	Starting time of heating, thermo operation
34	Display of defrost operation	0	0	0	Display of defrost operation from indoor unit.	Defrost operation
35	Display of compressor protection operation	×	×	×	Display of compressor protection operation from outdoor unit during compressor soft starting.	RAC unit does not have this function.
36	Missmatch operation mode	×	×	×	Display it when Cooling only outdoor unit is received signal of heating operation.	RAC unit does not have this function. (RAC unit operates by fan mode.)
37	Periodic check	×	×	×	Displays when Periodic check signal is received.	RAC unit does not have this function.
38	Display of check	0	0	0	Display of checking in case of signal of error code address from remote control.	RAC unit does not have this function.
39	Display of auto cleaning operation	×	×	×	Displays it when it is received auto cleaning singnal from indoor unit.	RAC unit does not have this function.
40	Display of room temperature	0	0	0	Display room temperature.	
41	Display of demand control operation	×	×	×	Display of demand operation from indoor unit.	RAC unit does not have this function.
42	Display of operation on auto adjusting static pressure	×	×	×	Display checking when it receives signal of auto adjusting static pressure operation.	RAC unit does not have this function.
43	External static pressure setting	×	×	×	It is available to select manual setting or automatic setting for setting external static pressure by remote control.	RAC unit does not have this function.

# **10. COMPONENT REPLACEMENT**

## 10.1 Models SCM71ZJ-S1, 80ZJ-S1



## Fan and fan motor (FMo)

- 7. Detach the clamps.
- 8. Pull out the cable.
- 9. Loose 4 nuts.
- 10. Remove the fan motor (FMo).



# Compressor (CM) 1. Loosen screws and remove the service panel and top panel. Terminal cover 2. Loosen screws and remove the cover and the terminal Screws [After removed terminal cover] Cover cover. 3. Loosen screws and disconnect all power cables locally installed Caution Be sure to do above work after turning the power OFF $\Box$ by breaker. TB1 (for power) Side panel





## Compressor (CM)

- 10. Loosen a nut and remove the terminal cover.
- 11. Disconnect the faston connectors from compressor.U: Red cableV: White cable
  - W : Black cable
- Note : Be sure to do above work after elapsing 3 minutes from power OFF.

12. Disconnect the pipes for suction and discharge by brazing. (It is available to cut suction and discharger pipes to remove the compressor)



When brazing, do not forget to disconnect suction pipe temperature sensor (Tho-S) and discharge pipe temperature sensor (Tho-D) from sockets. Without disconnecting sensors, sensors may have damage by the heat during brazing.







### Sub PCB (PWB2) on the lower layer

- 1.After removing the Main PCB, disconnect all connectors on Sub PCB.
  - ①Disconnect the connector of CNEEV1. (for EEVA & EEVB)
  - ②Disconnect the connector of CNEEV2. (for EEVC & EEVD)
  - ③Disconnect the connector of CNTH. (for suction pipe temp.)
  - ④Disconnect the connector of CNMAIN. (Going to Main PCB)
  - ⑤Disconnect the connector of CNHEAT. (for crankcase heater)
  - ⑥Disconnect the connector of CN20S. (for 4-way valve)
  - ⑦Disconnect the connector of CN20V. (Going to Main PCB)
- ⑧Disconnect the connectors of CNA, CNB, CNC and CND.
- 2.Loosen screws and disconnect the grounding cables.
- 3.Disconnect the fasten connector of the black cable.
- Note : Be sure to do above work after elapsing 3 minutes from power OFF.
- 4.Loosen a screw and pull up the right side of the upper TB to unlatch from the left side square hole.
- 5. Loosen the screw of N-terminal and disconnect the white cable.





## **EEV coils**

1. Remove the faulty EEV coil and disconnect the connector.

- When disconnecting the connector, be sure to check the color marked on the top of coil and the color of the connector.
- 2) When replace to a new coil, be sure to insert the socket attached to the coil to the pipe correctly.



## 4-way valve coil

- 1. Disconnect the connector.
- 2. Loosen a screw and remove the coil.



## 10.2 Models SCM100ZJ-S1, 125ZJ-S1





## Compressor (CM)

1. Loosen screws and remove the service panel and top panel.

- 2. Loosen screws and remove the cover and the terminal cover.
- 3. Loosen screws and disconnect all cables locally installed.

Caution Be sure to do above work after turning the power OFF by breaker.









#### Compressor (CM) [Front view] [Rear view] Crankcase heater 13. Loosen 3 nuts of compressor fixing bolts. 14. Remove the crankcase ۲ heater. Nut of compressor Nut of compressor fixing bolts fixing bolts [Side view] 15. Disconnect the pipes for Discharge pipe suction and discharge by brazing. Suction pipe (It is available to cut suction and discharger pipes to remove the compressor) Discharge pipe Suction pipe 16. Remove the compressor. 17. Replace to new compressor. Note: Before placing the new compressor, be sure Positions to be to mount the crankcase disconnected heater onto the new compressor properly. [Top view]







Sub PCB (PWB4) on the 1st layer								
1. Disconnect all connectors from Sub PCB.	[Before disconnecting connectors]	[After disconnecting connectors]						
Note: Be sure to do this work after elapsing 3 minutes from power OFF.	PK OR YE BL BR RD	CNEEV4 CNEEV2 CNEEV3 CNEEV1 CNS2 CNZ2 CNDRM CNDRM CNDRM CNDRM CNDRM CNDRM CNDRM CNDRM CNDRM CNDRM CNDRM CNDRM CNDR CNDR CNDR CND CND CND CND CND CND CND CND CND CND						



### Inverter PCB (PWB2) on the 2nd layer

- 1. Dismount the 1st layer according to the procedure for control PCB (PWB1) and Sub PCB (PWB4).
- 2. Loosen 3 screws and disconnect the cables for compressor.
- Note: Be sure to do this work after elapsing 3 minutes from power OFF.
- 3. Loosen 6 screws and disconnect the cables of P1, P2, P3 and N1, N2, N3.
- 4. Disconnect 3 connectors of CNI2, CNI4 and CNACT1.
- 5. Loosen 2 screws for fixing IPM and radiation fin.
- 6. Pinch the head of locking supports (8 pieces) and remove the Inverter PCB (PWB2).



### Noise filter PCB (PWB3 & PWB5) on the back side of the 1st layer

Layout




### Noise filter PCB (PWB5) on the back side upper of the 1st layer

- 1. Dismount the 1st layer according to the procedure for control PCB (PWB1) and Sub PCB (PWB4).
- 2. Loosen 5 screws and disconnect the cables of TB3 TB7.
- Pinch the head of locking supports (4 pieces) and remove the N/F PCB (PWB5).
- Note: Be sure to do this work after elapsing 3 minutes from power OFF.





### **EEV** coils

1. Remove the faulty EEV coil and disconnect the connector.

### Note:

- 1) When disconnecting the connector, be sure to check the color marked on the top of coil and the color of the connector.
- 2) When replace to a new coil, be sure to insert the socket attached to the coil to the pipe correctly.



# **11. CHECKING PROCEDURE**

# 11.1 Models SCM71ZJ-S1, 80ZJ-S1





### <Sensor>



Suction pipe temp. sensor (Tho-S)

> Outdoor air temp. sensor-(Tho-A)

Discharge pipe temp. sensor (Tho-D)



Heat exchanger sensor (Tho-R)

Namo	Oalar	Resistance(k Ω)		
iname	Color	25°C	90°C	
Tho-R	Black	5.0		
Tho-A	Black	5.0		
Tho-D	Black		4.6	
Tho-S	Black	5.0		





AC300V

Compressor

Compressor

Compressor

U

V

U



## 11.2 Models SCM100ZJ-S1, 125ZJ-S1



<thermis< th=""><th>tor&gt;</th><th></th><th></th><th></th><th>Outdoor air temp. thermistor (Tho-A)</th></thermis<>	tor>				Outdoor air temp. thermistor (Tho-A)
/	/			thermistor (The	er p-R)
	Discharge p temp. therm	pipe histor (Tho-D)	Suction pip temp. there	powe therm mistor (Tho-S)	r transistor iistor (Tho-AF)
Non-	Color		Resista	nce(kΩ)	
Name	Color	0°C	25°C	50°C 90°C	
Tho-R	Black	16.4	5.0	1.8	
Tho-D	Black		54.8	5.0	
Tho-S	Black	16.4	5.0	1.8	
Tho-A	Yellow	32.8	10.0		
< Compre	ssor>	0.293 Ω		U (RD) W (BL) V (WH)	
<diode st<br="">③ 〜</diode>	ack>	F			Check a diode stack (DS) by a mutimeter set on diode mode.
æ <		20			



	CNEEV1
Х	CNE

CNTH

% CNV For Mente PC Note(1) % used only at our factory.

Thermistor

For RAM checker

EEVH

Tho-R, Tho-D, Tho-S, Tho-A

For RAM checker

For Mente PC





### 12. OPTION PARTS 12.1 Wired remote control (RC-E5)

Read together with indoor unit's installation manual.

#### 

Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected structures. terminal. Loose connection or hold will cause abnormal heat generation or fire.	ress on the
Make sure the power supply is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.	0

### 

DO NOT install the re	mote control at the fo	llowing places in order to avoid malfunction.	
(1) Places exposed to	o direct sunlight	(4) Hot surface or cold surface enough to generate conde	nsation
(2) Places near heat	devices	(5) Places exposed to oil mist or steam directly	$\bigcirc$
(3) High humidity place	ces	(6) Uneven surface	$\bigcirc$
DO NOT leave the re	mote control without t	he upper case.	
In case the upper cac order to keep it away	e needs to be detach from water and dust.	ed, protect the remote control with a packaging box or bag in	$\bigcirc$
Accessories	Remote control,	wood screw (ø3.5×16) 2 pieces	
Prepare on site	Remote control of	cord (2 cores) the insulation thickness in 1mm or more.	
	[In case of	embedding cord] Erectrical box, M4 screw (2 pieces)	

[In case of exposing cord] Cord clamp (if needed)

#### Installation procedure

2

 Open the cover of remote control, and remove the screw under the buttons without fail.

Insert a flat-blade screwdriver into the dented part of the upper part

③ Embed the erectrical box and remote control cord beforehand.

Remove the upper case of remote control.

of the remote control, and wrench slightly.

[In case of embedding cord]



Prepare two M4 screws (recommended length is 12-16mm) on site, and install the lower case to erectrical box. Choose either of the following two positions in fixing it with screws.





- S Connect the remote control cord to the terminal block. Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)
- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.

#### [In case of exposing cord]

- ③ You can pull out the remote control cord from left upper part or center upper part. Cut off the upper thin part of remote control 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.



(4)

 Connect the remote control cord to the terminal block.
 Connect the terminal of remote control (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 control case should be within 0.3mm<sup>2</sup> (recommended) to 0.5mm<sup>2</sup>. The sheath should be peeled off inside the remote control 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	The peeling-off length
Y wiring : 195mm	Y wiring : 190mm	of sheath

- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.
- In case of exposing cord, fix the cord on the wall with cord clamp so as not to slack.

#### Installation and wiring of remote control

- ① Wiring of remote control should use 0.3mm<sup>2</sup> × 2 core wires or cables. (on-site configuration)
- 2 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 control case should be under 0.5mm<sup>2</sup>. 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 ······	$\cdots 0.5$ mm <sup>2</sup> $\times$ 2 cores
Under 300m	······0.75mm <sup>2</sup> × 2 cores
Under 400m	······1.25mm <sup>2</sup> × 2 cores
Under 600m	$\dots 2.0$ mm <sup>2</sup> $\times$ 2 cores

#### Master/ slave setting when more than one remote controls are used

A maximum of two remote controls can be connected to one indoor unit (or one group of indoor units.)



Set SW1 to "Slave" for the slave remote control. It was factory set to "Master" for shipment. Note: The setting "Remote control thermistor enabled" is only selectable with the master remote control in

the position where you want to check room temperature.

The air conditioner operation follows the last operation of the remote control 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 control until the communication between the remote control and indoor unit settled.



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 control, not an error cord.



When remote control 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 control.

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.

1. When (2) TEMP RANGE SET, remote control 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.

2. When ② TEMP RANGE SET, remote control 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

1. Stop the air-conditioner, and press O (SET) and C (MODE) button at the same time for over three seconds .

The indication changes to "FUNCTION SET ▼".

- 2. Press 👿 button once, and change to the "TEMP RANGE 🔺 " indication.
- 3. Press O (SET) button, and enter the temperature range setting mode.
- 4. Select "UPPER LIMIT ▼" or "LOWER LIMIT ▲" by using ▲ ▼ button.
- 5. Press <u>(SET)</u> button to fix.
- 6. When "UPPER LIMIT ▼ " is selected (valid during heating)
  - ① Indication: "  $\textcircled{} \vee \land SET UP" \rightarrow "UPPER 30°C \lor$ "
    - O Select the upper limit value with temperature setting button  $\bigtriangledown$  . Indication example: "UPPER 26°C  $\lor \land$ " (blinking)
    - ③ Press O(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 V".
- 7. When "LOWER LIMIT **A**" is selected (valid during cooling, dry, fan, automatic)
  - ① Indication: " $\bigcirc \lor \land$  SET UP"  $\rightarrow$  "LOWER 18°C  $\land$ "
  - O Select the lower limit value with temperature setting button  $\fbox{O}$ . Indication example: "LOWER 24°C  $\lor$   $\land$ " (blinking)
  - ③ Press <u>○</u>(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 ▼".
- 8. Press ON/OFF button to finish.



To next page

#### The functional setting

The initial function setting for typical using is performed automatically by the indoor unit connected, when remote control 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]	1		1	Г
Start	: Stop air-conditioner and press "O (SET) and "(SET)" (MODE) buttons at the same time for over	d er three seconds.	Record a	and keep the etting	
Finalize	: Press "O," (SET) button.				
Reset	: Press " (RESET) button.				_
Select	: Press 🔺 💌 button.	0 11 11			
End	: Press ON/OFF button.	Consult the	e technical dat	a etc. for each co	ontrol details
It is pose	sible to finish above setting on the way,				
and unfii "○": Ir " ※ ": A	nished change of setting is unavailable. nitial settings utomatic criterion	Stop air-conditioner and Stop air-conditioner and Stop air-conditioner and (MODE at the same time for over three	oress ) buttons e seconds.		
		FUNCTION SET V			

#### ■ FUNCTION ▼ (Remote control function) Function setting 01 JUMAI ESE Validate setting of ESP:External Static Pressure Invalidate setting of ESP USTA ESP INVALI 02 | AUTO RUN SE AUTO RUN ON Auto Run Ofi × Automatical operation is impossible 03 | MILAI TEMP SIU 6년전 VALID 6년전 INVALID Femperature setting button is not working 04 🖾 MODE SW ତ୍ରା MUD ତ୍ରା INMALI Mode button is not working 05 | ① ON/OFF SW ල ATTD 우리 INATID On/Off button is not working 06 (BEDFAN SPEED SW ତ୍ୟା MALIO ତାହା INMALIO \* Fan speed button is not working 07 🖾 LOUVER SW raid 🖉 🖓 🖓 \* C INVALID \* Louver button is not working 08 ID TIMER SM ତ୍ତ WALID ତ୍ରତ୍ର INVALID Timer button is not working 09 🛛 🖽 SENSOR SE EISENSOR OF Remote thermistor is not working. EISENSOR ON EISENSOR +3.00 EISENSOR +2.00 Remote thermistor is working. Hernote internision 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. ESENSOR +1.0t FNSOR -1.07 EISENSOR -2.0% EISENSOR -3.0% 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 <u>invalid</u> Valid \* 11 VENT LINK SET NO VENT 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 VENTIAR operation of indoor unit. In case of Single split series, by connecting ventilation device to CNT of the indoor printed NO VENT LINK 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 If you change the range of set temperature, the indication of set temperature INON CHANGE 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. NO INDA CHANG 13 I/UFAN HI-MID-LO HI-LD Airflow of fan becomes of an- and HI-MID 1 Fan Speed Airflow of fan becomes of a - a - l Airflow of fan is fixed at one speed If you change the remote control function "14 · 조구POSITION you must change the indoor function "04 · 조구POSITION" accordingly. 14 🤜 POSITION You can select the louver stop position in the four. The louver can stop at any position. 4POSITION STOF FREE STOP 15 MODEL TYPE HEAT PURE COOLING ONLY \* 16 EXTERNAL CONTROL SET 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 control are operated according to the input from external. INDIVIOUAL FOR ALL UNLTS 17 ROOM TEMP INDICATION SET INDICATION OF INDICATION ON In normal working indication, indoor unit temperature is indicated instead of airflow (Only the master remote control can be indicated.) 18 XOINDICATION INDICATION ON INDICATION OF Heating preparation indication should not be indicated 19 C/FSE Temperature indication is by degree C Temperature indication is by degree F To next page

Note (1)\*The mark cannot use SRK, SRF and SRR series

ON/OFF button (finished)

Note 1: The initial se	etting marked " ※ " is	decided by connected inc	loor and outdoor unit, and is automatically defined as following table.	
Function No.	Item	Default	Model	
Remote control	AUTO RUN SET	AUTO RUN ON	"Auto-RUN" mode selectable indoor unit.	
function02		AUTO RUN OFF	Indoor unit without "Auto-RUN" mode	
Remote control function06		ල 🖾 ATID	Indoor unit with two or three step of air flow setting	
		കള്ള INVALID	Indoor unit with only one of air flow setting	
Remote control CI LOUVER SW		&⊡ VALID	Indoor unit with automatically swing louver	
function07		& 🖾 INVALID	Indoor unit without automatically swing louver	
Remote control	I/UFAN	HI-HID-LO	Indoor unit with three step of air flow setting	
function13		HI-10	Indoor unit with two step of air flow setting	
		HI-MID		
		1 FAN SPEED	Indoor unit with only one of air flow setting	
Remote control	MODEL TYPE	heat pump	Heat pump unit	
function15		COOLING ONLY	Exclusive cooling unit	

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 "05 EXTERNAL INPUT" and "06 PERMISSION / PROHIBISHION".

Indoor unit function Indoor unit function	
(Indoor unit function) [ <u>L7/IIII/TIVA</u> ] putal indoor units are contracted. To set other indoor unit press <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L700051</u> <u>L7000510051</u> <u>L70005</u>	
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International setting of some indoor unit is "Hell SPECO"     4 speed in a some indoor unit is the speed in the some intoor unit is one setting in the four.     The lower can shop at any position.     10 SPECO S	e UH - Hi
To set other indoor unit, press INITION With allows you to go back to the indoor unit selection screen (for example: I/U 000 ) (I = <u>C = POSITION</u> (I = <u>C = POSITION</u>	
To set other indoor unit, press [AIRCONING] button, which allows you to go back to the indoor unit selection screen (for example: JU 000 ▲).	
To set other indoor unit, press [AIRCON NO] button, which allows you tog to back the indoor unit selection screen (for example: I/U 000 ▲).	
AIRCON NO.] button, which allows you to go back to the indoor unit selection screem (for example: I/U 000 ▲).       Image: Streem of the indoor unit will be compution after 24 hous.         04       Image: Streem of the indoor unit will be compution after 24 hous.       Image: Streem of the indoor unit will be compution after 24 hous.         04       Image: Streem of the indoor unit will be compution after 24 hous.       Image: Streem of the indoor unit will be compution after 24 hous.         05       Image: Streem of the indoor unit will be remeasion/prohibition control of operation will be valid.         06       Image: Streem of the indoor unit will be remeasion/prohibition control of operation will be valid.         07       Image: Streem of the indoor unit will be remeasion/prohibition control of operation will be valid.         08       Image: Streem of the indoor unit will be remeasion/prohibition control of operation will be valid.         08       Image: Streem of the indoor unit will be remeasion/prohibition control of operation will be valid.         09       Image: Streem of the indoor unit streem of the indoor unit will be remeasion/prohibition control of operation will be valid.         00       Image: Streem of the indoor unit streem of the indoor unit streem of the indoor unit streem of the indoor unit streem of the indoor unit streem of the indoor unit indoor unit indoor unit streem of the indoor unit indoor unit indoor unit indoor unit indoor indoor unit indoor indoor unit indoor unit indoor unit indoor unit indoor unit indoor unit indoor unit indoor unit indoor unit indoor unit indoor unit indoor unit indoor unit indoor uni	
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* 10 3% FAN CONTROL     CONTROL	
LOW FAN SPEED     When heating thermostat is OFF, fan speed is low speed.     SET FAN SPEED     When heating thermostat is OFF, fan speed is set speed.     INTERNITIONSE     When heating thermostat is OFF, fan speed is operated intermittently.     INTERNITIONSE     When heating thermostat is OFF, fan speed is operated intermittently.     IFN OFF     When heating thermostat is OFF, fan speed is operated intermittently.     IFN OFF     When heating thermostat is OFF, fan speed is operated intermittently.     IFN OFF     When heating thermostat is OFF, fan speed is operated intermittently.     IFN OFF     When heating thermostat is OFF, fan speed is operated intermittently.     IFN OFF     When heating thermostat is OFF, fan speed is operated intermittently.     IFN OFF     When heating thermostat is OFF, fan speed is operated intermittently.     IFN OFF     When heating thermostat is OFF, fan speed is operated intermittently.     IFN OFF     When there indoor unit's thermistor is working.     Change of indoor heat exchanger temperature to start frost prevention control.     ITEMP LOW	
SET FAN SPHED       When heating thermostat is OFF, fan speed is set speed.         INTERNI TENSE       When heating thermostat is OFF, fan speed is operated intermittently.         FAN OFF       When heating thermostat is OFF, fan speed is operated intermittently.         When heating thermostat is OFF, fan speed is operated intermittently.       When heating thermostat is OFF, fin a speed is operated intermittently.         When heating thermostat is OFF.       When there induce thermistor is working.       Do not set "FAN OFF" is set automatically.         No not set "FAN OFF" when the indoor unit's thermistor is working.       Change of indoor heat exchanger temperature to start frost prevention control.         TEMP HIGH       Change of indoor heat exchanger temperature to start frost prevention control.	
INTERNITIENCE     When heating thermostat is OFF, that no second intermittently.     IFIN OFF     When heating thermostat is OFF, the fan is stopped.     When thermostat is OFF, the fan is stopped.     When thermostat is OFF, the fan is stopped.     When thermostat is OFF, the fan is stopped.     When thermostat is OFF, the fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF. The fan is stopped.     When thermostat is OFF.     The fan is off.     The fan is the fan is the fan is off.     The fan is the fan is the fan is the fan is off.     The fan is the fan is the fan is off.     The fan is the fan is the fan is the fan is off.     The fan is the fan is the fan is off.     The fan is the	
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Do not set "FAN OFF" when the indoor unit's thermistor is working.      TEMP HIGH     TEMP HIGH     Change of indoor heat exchanger temperature to start frost prevention control.	
to start frost prevention control.      TEMP HIGH     TEMP LOW	
to reconcernence texternel     TEMP HIGH     TEMP LOW	
+LLAO LICEORIZATION DAUGUAL	
* 12 International Management of the State o	
FAN CONTROL ON To control frost prevention, the indoor fan tap is raised.	
<b>25.0</b> O Drain pump is run during cooling and dry.	
ZSC) PHUS: Drain pump is run during cooling, dry and heating.	
<b>SCO MUSE</b> Drain pump is run during cooling, dry, heating and fan.	
After cooling is stopped, the fan does not perform extra operation.	
After cooling is stopped, the fan perform extra operation for nair an nour.	
After cooling is stopped, the tan perform extra operation for an hour.	
After cooling is stopped, the fan perform extra operation for six hours.	
	o operation
In the meaning is support or meaning intermostants OFF, the fan addes not perform by In SHITE Address having is advanded to the hosting thermostants OFF, the fan address host perform by In SHITE Address having advantage of the fan address having hermostants in SHITE Advantage of the fan address having hermostants in SHITE Advantage of the fan address having hermostants in SHITE Advantage of the fan address having hermostants in SHITE Advantage of the fan address hermostants of the fan address hermostant advantage of the fan address hermostants of t	a operation.
PHUE Photo P	n for two hours
E 1000 A liter neuring is stopped or neuring unermostal IS OFF, the fan perform extra operat	n for eiv hours.
* 16 K FAN INTERMITTENCE	THUI BIA HUUIS.
During heating is stopped or heating thermostat is OFF the fan perform intermitte	operation for fiv
zontroOFF suinON with low fan speed after twenty minutes' OFF.	
Durino heating intermotes the compared of the compared	operation for fiv
sati diff satidity with low tan speed after five minutes' OFF.	
TYPE1 Connected "OA Processing" type indoor unit. and is automatically defined.	
n previous page	

		Operation message
<u>How</u> 1.	KOSELUIDEION Stop air-conditioner and press ○ (SET) र (MODE) buttons at the same time for over three seconds, and the "FUNCTION SET ▼" will be displayed.	Function description:
		Fixing button
		AUTORUN SET
2.	Press(SEI) button.	7 Finishing button
3.	(remote control function) or "I/U FUNCTION ▲" (indoor unit function).	
4.	Press ▲ or ▼ button. Selecct "  FUNCTION ▼" (remote control function) or "I/U FUNCTION ▲" (indoor unit function).	
		6 — ⑧ Indoor unit selection button Previous screen button
5.	Press O (SET) button. I/U FUNCTION	
6.	[On the occasion of remote control function selection]	[On the occasion of indoor unit function selection]
	DATA LOADING" (Indication with blinking)	DATA LOADING" (Blinking for 2 to 23 seconds to read the data)
	Display is changed to "01 & MA ESP SET".	Indication is changed to "02 FAN SPEED SET". Go to $\oslash$ .
	<ul> <li>Press [▲] or [▼] button.</li> <li>"No. and function" are indicated by turns on the remote control</li> </ul>	[Note]
	function table, then you can select from them. (For example)	<ol> <li>If plural indoor units are connected to a remote control, the indication is "I/U 000" (blinking)</li></ol>
	AUTO RUN SET	
	Press ((\SE I) button. The current setting of selected function is indicated. (for example) "AUTO RUN ON" ← If "02 AUTO RUN SET" is selected	(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 unites.
	AUTO RUN ON <	(3) Press ()(SET) button.
1	Press  or  button. Select the setting.	<ul> <li>Press  or  button.</li> <li>"No. and function" are indicated by turns on the indoor unit function table, then you can select from them.</li> <li>(For example)</li> </ul>
		Image: matrix product of the second seco
	AUTO RUN OFF      Press      ()(SET)     "SET COMPLETE" will be indicated and the setting will be	③ Press ○ (SET) button. The current setting of selected function is indicated. (For example) "STANDARD" ← If "02 FAN SPEED SET" is selected.
	completed. Then after "No. and function" indication returns, Set as the	STANDARD <
	same procedure if you want to set continuously ,and if to finish, go to 7.	<ul> <li>④ Press ▲ or ▼ button.</li> <li>Select the setting.</li> </ul>
		Press O(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
7.	Press [ <u>ON/OFF</u> ] button. Setting is finished.	SET COMPLETE
		When plural indoor units are connected to a remote control, press the <u>AIRCON NO.</u> button, which allows you to go back to the indoor unit selection screen. (example "I/U 000 ▲ ")
	<ul> <li>It is possible to finish by pressing ON/OFF but unavailable.</li> <li>During setting, if you press ((RESET) but Setting is memorized in the control and it is sav</li> </ul>	ton on the way, but unfinished change of setting is utton, you return to the previous screen. ed independently of power failure.
	[How to check the current setting ] When you select from "No. and funcion" and press set buttor setting. (But, if you select "ALL UNIT ▼ ", the setting of the lowest nu	n by the previous operation, the "Setting" displayed first is the current umber indoor unit is displayed.)

# 12.2 Wireless kit

### (1) FDTC series (RCN-TC-24W-ER)





#### (2) FDEN series (RCN-E1R)

Notes:

Following functions of FDEN Type -F indoor unit series are not able to be set with this wireless remote control (RCN-E1R).

1. Flap control system 2. 4-fan speed setting (PHi/Hi/Me/Lo)  $\rightarrow$  3-fan speed setting (Hi/Me/Lo)

### A 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.

# 

• Install a receiver unit where it is not exposed to direct sunrays or intense light from lighting fixtures.

### 1 Accessories

Please make sure that you have all of the following accessories.

Remoto control holder	AAA dry cell battery (RO3)	Wood screw for holder	Wireless remote control
$\cdot$	۵		
1	2	2	1

# 2 Installation of the control holder

#### $\triangle$ CAUTION DO NOT install it on the following places.

- 1. Places exposed to direct sunlight
- 3. Places near heat devices
- 5. High humidity places
- 2. Hot surface or cold surface enough to generate condensation
- 4. Places exposed to oil mist or steam directly.
- Uneven surface

#### Installation tips for the remote control holder

- Adjust and keep the holder up right.
- Tighten the screw to the end to avoid scratching the remote control.
- DO NOT attach the holder on plaster wall.

#### How to insert batteries

- ① Detach the back lid.
- <sup>(2)</sup> Insert the batteries. (two AAA batteries)
- <sup>③</sup> Reattach the back lid.



PFA012D620

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### 3 FDEN

SW1

SW2

SW3

SW4

#### Setting on site

### To change setting

- 1. Remove the front panel.
- 2. Remove four screws located on the back of the receiver and detach the board.
- 3. Change the setting by the switch on PCB.



Receiver Backside

4. When switch 1 is turned to off position, change the wireless remote control setting. (For the method of changing the setting, refer to Setting to avoid mixed communication on page 383)

#### Refer to Wireless remote control unit operation distance of **5 FDEN** in case of plural setting.

#### Master/Slave setting when using plural remote controls

mark.

ON : Normal (1ch)

OFF : Customized (2ch) ON : Master

OFF : Slave

ON : Valid

OFF : Invalid

ON : Valid

OFF : Invalid

Up to two receiver or wired remote control can be installed in one indoor unit group. When two receivers or wired remote control are used, it is necessary to change SW on the PCB to set it as slave.

#### Control plural indoor units with one remote control

Up to 16 indoor units can be connected.

PCB on the receiver has the following

switches to set the function. Default setting is shown with [

Prevents interference

Receiver master/slave

during plural setting

Buzzer valid/Invalid

setting

Auto restart

- 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 control directly.
- ③ Set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.



#### **\*ATTENTION**

In a system configured as shown above, up to two receivers are usable. If two receivers are used, it is necessary to designate one of them as a slave by setting SW2. (For the method of changing the setting, refer to Setting on site .) Since other receivers are not usable, do not couple the connectors for them. (Unless the connector is coupled for a receiver, the LED will not be able to make any indication)

# ③ FDEN (continued)

#### Wireless remote control 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)



60°

② Points for attention in connecting a plural number of indoor units

#### [Condition]

Illuminance at the receiver area: 360 lux. (When no lighting fixture is located within 1m of indoor unit in an ordinary office) When the remote control unit is used with the

aforementioned interference-prevention setting, a minimum distance guaranteeing the





\_\_\_\_\_ (Top view)

- OPlease operate remote control unit switches with the unit faced correctly toward the indoor unit's receiver section.
- OEffective operation distance can vary with the luminance around the receiver and the reflection from walls of the room.
- OWhen the receiver is exposed to intensive light such as from the direct sun or a strong light, it may become operable only from a short distance or unable to receive signals at all.

#### 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.

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.

### ③ FDEN (continued)

#### 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.

### 4 Remote control

#### 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 control 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.

#### Radio prevention mode



Auto mode operation setting

#### **\*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.

#### 

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.)

### (3) FDUM series (RCN-KIT3-E)



5m or less

#### **③ 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> (A) Direct installation onto the ceiling with wood screws.

(B) Installation with accessory's bracket

### (1) 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)	Ŧ	
(B) Installation with enclosed bracket.	108mm(H)×108mm(W)	Щ	
-			. w

#### (2) Wiring connection of receiver



be damaged.



#### (3) Installation of the receiver

Remove the screw on the side of the receiver and sprit it into the upper case and lower case.Install the receiver with one of the two installation methods (A) or (B) shown below

#### (A) 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



①Put through the wiring from the back side to the hole of the lower case. ②Fit 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.)
- ④Connect the wiring with the wiring from the upper case by the connector.
  ⑤Take out the connector to the backside from the hole of the lower case putting through the wiring at 1.

6Fit the upper case and the lower case, and tighten the screws.

#### (B) Installation with enclosed bracket



on (left side of center)

①Catch the two protrusion of the enclosed bracket onto the tting as shown above. and temporarily fix with the screws. (The bracket has an up/down and front/back orientation. Con rm 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.)

②Insert the end of the installation tting into the back of the ceiling from the opening, and tighten the screws to fix the bracket onto the ceiling. 3Pass the wiring from the rear side through the hole on the lower case

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.

#### ④ Remote control

#### Installation of the control holder

#### Caution

- DO NOT install it on the follow ng places
- 1) Places exposed to direct sunlight 2) Places near heat devices
- Places near near devices
   Plah humidity places
   Hot surface or cold surface enough to generate condensation
   Places exposed to oil mist or steam directly
   Uneven surface

#### Installation tips for the remote control holder

- · Adjust and keep the holder upright.
- Tighten the screw to the end to avoid scratching the remote control.
- DO NOT attach the holder to plaster wall.
- How to insert batteries

#### 1 Detach the back lid

- 2 Insert the batteries. (two AAA batteries)
- Reattach the back lid.

#### **(5)** Cooling test run operation

#### •After safety con rmation, turn on the power.

•Transmit a cooling operation command with wireless remote control, while the backup button on the receiver is pressed.

Wood screw

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.



#### 6 Setting of wireless remote control and receiver

(A) 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 ①Setting change of the wireless remote control
- Pressing <u>ACL</u> and <u>AIRFLOW</u> button at the same time or inserting the batteries with pressing <u>AIRFLOW</u> 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 control ↑ ●PCB of the receiver



: Default setting 

<sup>2</sup>0:\_\_\_:

10

#### (B) Control plural indoor units with one remote control



③For 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

### (C) Master/Slave setting when using plural remote control

Up to two receivers can be installed in one indoor unit group.



Bor

Holder for remote control

Switch	Setting	Function
SW1-2	ON	Master
	OFF	Slave

#### (D) 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 control to disable the auto mode operation for these models according to the following procedure. While present the batteries to the remote control. 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

#### (E) 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 control. Then the fan speed can be changed from 2-speed setting to 3-speed setting. When changing fan speed setting of remote control, 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 agair

### 12.3 Simple wired remote control (RCH-E3)



DO NOT install the remote control at the following places in order to avoid (1) Places exposed to direct sunlight (4) Hot surface or cold su

(4) Hot surface or cold surface enough to generate condensation(5) Places exposed to oil mist or steam directly

(2) Places near heat devices(3) High humidity places

(5) Places exposed to oil mist or steam directly(6) Uneven surface





Note: Installation screw for remote control M4 Screw (2 pieces)

心 ON/OFF

70

0



0.3mm<sup>2</sup> × 2 cores.

LCD





The remote control wiring can be extracted from the upper center. After the thin part in the upper side of the remote control upper case is scraped with a nipper or knife, remove burr with a file.



### Wiring specifications

(1) Wiring of remote control should use  $0.3mm^2 \times 2$  core wires or cables. (on-site configuration) (2) Maximum prolongation of remote control wiring is 600m.

If the prolongation is over 100m, change to the size below.

But, the wiring in the remote control case should be 0.3mm<sup>2</sup> (recommended) to 0.5mm<sup>2</sup>.

But, the wiring in the remote control case should be usinith (recommended) to usinith. 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 <sup>2</sup> × 2 cores
Under 300m	0.75mm <sup>2</sup> × 2 cores
Under 400m	1.25mm <sup>2</sup> × 2 cores
Under 600m	2.0mm <sup>2</sup> × 2 cores

Adapted to RoHS directive

Unit:mm





#### 6. Function setting

Each function of the remote control and the indoor unit is automatically set to the initial setting, which is the standard use, on the occasion of connecting the remote control with the indoor unit. In the case of the standard use, the setting change is unnecessary. However, if you whould 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

(1) Function	n setting it	em by switch on PCB						
Switch No.	Setting	Setting detail	Initial setting	Switch No.	Setting	Setting detail	Initial setting	
CW1 1	ON	Slave remote control		CW/1 E	ON	"TEMP" button prohibited		011 <u>1 2 3 4 5 6 7 8 9 0</u>
5001-1	OFF	Master remote control	0	3001-3	0FF	"TEMP" button enabled	0	
CW1 0	ON	Remote control thermistor enabled		CW/1 C	ON	"FAN SPEED" button prohibited	% Note 1	
5W1-2	0FF	Remote control thermistor disabled	0	3001-0	0FF	"FAN SPEED" button enabled	% Note 1	
CW1 0	ON	"MODE" button prohibited		CW/1 7	ON	Auto restart function enabled		As for the slave remote control, function setting is impossible other
5001-5	0FF	"MODE" button enabled	0	3₩1-7	0FF	Auto restart function disabled	0	than SW1-1.
CW1 4	ON	"ON/OFF" button prohibited		CW1 9 0 0	ON	Naturad		In the indoor unit with only one fan speed. "FAN SPEED" button cannot
5vV1-4	0FF	"ON/OFF" button enabled	0	30/1-8, 9, 0	0FF			be anabled

#### (2) Function setting item by button operation

Classification	Function No.	Function	Cotting No.	Catting	Initial actting	Domorio
Classification	FUNCTION NO.	FUIICUUII	Setting NO.	Ean apode three stops	Moto 1	The fan enced is three stans. As and the set of the
		Indoor unit fan speed	01	Fan apode two stops (Hi La)	% Note 1	The for and is the store if a store is a store is a store in the store is a store in the store is the store is a store in the store in the store is a store in the store in the store is a store in the
	01		02	Fan speed: two steps (Hi-Lo)	* NOLE I	
			04	Fan, and stan	X Noto 1	
			04	Paris one step	* Note 1	i në ran speed is rixed to one step.
		-	01	Remote control thermistor: no onset		
			02	Remote control thermistor: +3.0 °C		At the time of cooling, in the case of remote control thermistor enabled, oriset temperature at +3.0°C.
		Remote control thermistor at the time of cooling	03	Remote control thermistor: +2.0 °C		At the time of cooling, in the case of remote control thermistor enabled, oriset temperature at +2.0°C.
	03		04	Remote control thermistor: +1.0 °C		At the time of cooling, in the case of remote control thermistor enabled, oriset temperature at +1.0°C.
			05	Remote control thermistor: -1.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offset temperature at -1.0°C.
			06	Remote control thermistor: -2.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offset temperature at -2.0°C.
Remote			07	Remote control thermistor: -3.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offsett temperature at -3.0°C.
control			01	Remote control thermistor: no offset	0	
Tunction			02	Remote control thermistor: +3.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at +3.0°C.
		Remote control	03	Remote control thermistor: +2.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at +2.0°C.
	04	thermistor at the time	04	Remote control thermistor: +1.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at +1.0°C.
		of heating	05	Remote control thermistor: -1.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at -1.0°C.
			06	Remote control thermistor: -2.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at -2.0°C.
			07	Remote control thermistor: -3.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at -3.0°C.
			01	No ventilator connection	0	
	05	Ventilation setting	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.
	00	"Auto" operation	01	"Auto" operation enabled	% Note 1	
	06	setting	02	"Auto" operation disabled	% Note 1	"Auto" operation disabled
		Operation permission/	01	Disabled	0	
	07	prohibition	02	Enabled		Operation permission/prohibition controller is enabled.
		-	01	Level input	0	
	80	External input	02	Pulse input		
			01	Standard	Note2	
	09	Fan speed setting	02	High speed 1	Note2	
		i an opood ootang	03	High speed 2	Note2	
		Fan remaining operation at the time of cooling Fan remaining operation at the time of heating Setting temperature offset at the time of heating	01	No remaining operation	0	After cooling stopped, no fan remaining operation
			02	0.5 hours		After cooling stopped, fan remaining operation for 0.5 hours
	10		03	1 hour		After cooling stonged fan remaining operation for 1 hour
			04	6 hours		After cooling stopped fan remaining operation for 6 hours
			01	No remaining operation	0	After besting stopped, tain containing operation for one of a remaining operation.
			02			After heating stopped or after heating thermostat OFF, for ramfering operation
	11		02	2 hours		After heating stopped or after heating thermostat OFT, fair remaining operation for 0.5 mous
			04	2 hours		After heating stopped or after heating themissian of r, fair remaining operation for 2 hours
Indoor unit			04	No offect	0	Arter nearing stopped or arter nearing thermostation, rainemaning operation for o hours
function			00			The optime terms where the time of leading is effective . 0.0.00
	12		02	Setting temperature offset + 3.0 °C		The setting temperature at the time of best pice is affected by 0.00
			03	Setting temperature offset + 2.0 °C		The seturg temperature at the time of nearing is onset by 42.0 °C.
1:			04	Setting temperature offset + 1.0 °C		The setting temperature at the time of heating is offset by +1.0 °C.
			01	Low fan speed	※ Note 1	At the time of heating thermostat UFF, operate with low fan speed.
	10		02	Setting fan speed		At the time of heating thermostat OFF, operate with the setting fan speed.
	13	Heating fan control	03	Intermittent operation	% Note 1	At the time of heatingr thermostat OFF, intermittently operate.
			04	Fan off		At the time of heating thermostat OFF, a fan will be stopped. When the remote control thermistor is enabled, automatically set to "Fan off". Do not set at the time of the indoor unit thermistor.
		Return air temperature – offset –	01	No offset	0	
			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.
	14		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.
		Į Ī	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:

Swith No. Function No.	Function	Setting	Product model	
	"EAN ODEED"	"FAN SPEED" button prohibited	Product model whose indoor fan speed is only one step	
SW1-6	FAIN OFEED	"EAN SPEED" button on ablod	Product model whose indoor fan speed is two steps or three	
	DULLOIT	TAN SPEED DUILOIT EIIADIEU	steps	
		Fan speed: three steps	Product model whose indoor unit fan speed is three steps	
Domoto control function 01	Indoor unit fan	Fan speed: two steps (Hi-Lo)	Product model whose indoor unit fan speed is two steps	
hemole control function of	speed	Fan speed: two steps (Hi-Me)		
		Fan: one step	Product model whose indoor unit fan speed is only one step	
Demate control (unation OC	"Auto" operation	"Auto" operation enabled	Product model where "Auto" mode is selectable	
Remote control function of	setting	"Auto" operation disabled	Product model without "Auto" mode	
Indeer unit function 10	Heating fan	Low fan speed	Product model except FDUS	
	control	Intermittent operation	FDUS	

Ean anood cotting	Indoor unit fan speed setting						
r an speed setting	\$\$ = <b># #</b> - \$\$ = <b>#</b> - \$\$ =	\$t <b>= ≣ ≣</b> - \$t =	\$\$ <b>= # #</b> - \$\$ <b>= #</b>				
Standard	Hi — Mid — Lo	Hi — Lo	Hi — Mid				
High speed 1 • 2	UHi — Hi — Mid	UHi — Mid	UHi — Hi				
tial setting of some indoor unit is "High speed"							

In iign sp

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".



### 12.4 Interface kit (SC-BIKN-E)

#### RKZ012A088B Before use, please read these Safety Precautions thoroughly Accessories included in package Safety precautions before installation Be sure to check all the accessories included in package. •All the cautionary items mentioned below are important safety related items to be taken No. Part name into consideration, so be sure to observe them at all times. Quantity 1 Indoor unit's connection cable (cable length: 1.8m) 1 Incorrect installation could lead to serious consequences such as death, major **∆**Warning 2 Wood screws (for mounting the interface: ø4x 25) 2 injury or environmental destruction. 3 Tapping screws (for the cable clump and the interface mounting bracket) 3 • Symbols used in these precautions **(4)** Interface mounting bracket 1 Always go along these instruction. (5) Cable clamp (for the indoor unit's connection cable) 1 6\* CNT terminal connection cable (total cable length: 0.5m) 1 • After completed installation, carry out trial operation to confirm no anomaly, and ask the \* SC-BIKN-EA only user to keep this installation manual in a good place for future reference. Æ Warnings Installation must be carried out by a qualified installer. If you install it by yourself, it may cause an electric shock, fire and personal injury, as a result of a system malfunction. • Install it in full accordance with the instruction manual. Incorrect installation may cause an electric shock, fire and personal injury. • Electrical work must be carried out by a qualified electrician in accordance with the technical standard for electrical equipment, the indoor wiring standard and this instruction manual. Incorrect installation may cause an electric shock, fire and personal injury. • Use the specific cables for wiring. And connect all the cables to terminals or connectors securely and clamp them with cable clamps in order for external forces not to be transmitted to the terminals directly. Incomplete connection may cause malfunction, and lead to heat generation and fire. Use the original accessories and specified components for installation. If the parts other than those prescribed by us are used, it may cause an electric shock, fire and sersonal injury Connecting the indoor unit's connection cable to the interface Wiring inlet (top or back) 3 Fix the cable with the ()Remove the upper case of the interface. cable clamp • Remove 2 screws from the interface casing before removal of upper casing. (2)Connect the indoor unit's 2 Connect the indoor unit's connection cable to the interface. connection cable · Connect the connector of the indoor unit connection cable to the connector on the interface's circuit board. ③Fix the indoor unit's connection cable with the cable clamp. Ø · Cable can be brought in from the top or from the back. · Cut out the punch-outs for the connection cables running into the casing with cutter. (4)Connect the indoor unit's connection cable to the indoor control PCB. Connect the indoor unit's connection cable to the indoor control PCB securely ①Remove · Clamp the connection cable to the indoor control box securely with the cable clamp the upper provided as an accessory. case Regarding the cable connection to the indoor unit, refer to the instruction manual for indoor unit. Name of each part of the interface Clamp for clamping indoor ROM terminal unit's connection cable (\$ Interface board DIP switch (SW2) : [Factory setting : all ON] Terminal for indoor unit's DIP switch (SW3) : [Factory setting : all OFF] connection cable Terminal block for wired Rotary switch (SW1) for address setting remote control\* 6 CNT terminal YXXX Terminal block for super link E board (SC-ADNA-E)\* 0 Clamp for clamping the connection cable for Clamp for clamping the connection Ŧ Ð super link E board (SC-ADNA-E)\* cable for wired remote control\* \*Either the connection cables of super link E board (SC-ADNA-E) or of wired remote control is connectable. Function Switch Setting Function Switch Setting ON\*\* CNT level input ON\*\* External input (CNT input) SW2-1 SW2-3 CNT Pulse input OFF OFF Operation permission/prohibition (CNT input) ON\* Wired remote control : Enable ON\* Annual cooling : Enable\*\*\* SW2-2 SW2-4 Annual cooling : Disable\*\*\* OFF Wired remote control : Disable OFF \*\* Factory setting \*\*\* Indoor fan control at low outdoor air temperature in cooling



#### Installation check items

□ Are the connection cables connected securely to the terminal blocks and connectors?

□ Are the thickness and length of the connection cables conformed with the standard?






# 12.5 Super link E board (SC-ADNA-E)

- Read and understand the instructions completely before starting installation. • Refer to the instructions for both indoor and outdoor units.



- Carefully read "Safety precautions" first. Follow the instructions for installation
- Precautions are grouped into "WarningA" and "CautionA". The "WarningA" group includes items that may lead to serious injury or death if not observed. The items included in the "Caution<sup>A</sup>"</sup> group also may lead to serious results under certain conditions. Both groups are crucial for safety installation. Read and understand them carefully. • After installation, conduct the test operation of the device to check for any abnormalities. Describe how to operate the device to the customer following the installation instruc-
- tion manual. Instruct the customer to keep this installation instruction for future reference.

#### **Warning**

- This device should be installed by the dealer where you purchase the device or a licensed professional shop. If the device is incorrectly installed by the ustomer, it may result in electric shock or fire.
  Install the device carefully following the installation instruction. If the device is
- incorrectly installed, it may result in electric shock or fire.
- Use the accessory parts and specified parts for installation. If any parts that do not match the specifications are used, it may result in electric shock or fire.
- A person with the electrical service certification should conduct the service based on the "Technical standards for electrical facilities", "Electrical Wiring Code", and the installation instruction. If the work is done incorrectly, it may result in electric shock or fire.
- Wiring should be securely connected using the specified types of wire. No external force on the wire should be applied to any terminals. If a secure connection is not achieved, it may result in electric shock or fire.

#### 11 Application

Indoor-to-outdoor three core communication specification type 3 (since October 2007)

#### 2 Accessories



### 3 Function

Allowing the center console SL1N-E, SL2NA-E, and SL3N-AE/BE to control and monitor the commercial air conditioning unit.

#### 4 Control switching

Settings can be changed by the switch SW3 on the SL E board as in the following.

Switch	Symbol	Switch	Remarks
SW3		ON	Master
	1	OFF (default)	Slave
	2	ON	Fixed previous protocol
		OFF (default)	Automatic adjustment of Super Link protocol
	0	ON	Indicates the forced operation stop when abnormality has occurred.
	5	OFF (default)	Indicates the status of running/stop as it is, when abnormality has occurred.
	4	ON	The hundredth address activated "1"
	4	OFF (default)	The hundredth address activated "0"

#### **∧**Caution

- Provide ground connection. The ground line should never be connected to the gas supply piping, the water supply piping, the lightning conductor rod, nor the telephone ground. If the
- grounding is improper, it may result in electric shock. Do not install the device in the following locations.

  - 1.Where there is mist/spray of oil or steam such as kitchens. 2.Where there is corrosive gases such as sulfurous acid gas.
  - 3.Where there is a device generating electromagnetic waves. These may interfere with the control system resulting in the device becoming uncontrollable.
  - 4.Where flammable volatile materials such as paint thinner and gasoline may exist or where they are handled. This may cause a fire

#### 5 Connection Outline

Note for setting the address

- Set the address between 00 and 47 for the previous Super Link connection and between 000 and 127 for the new Super Link connection. (\*1)
- Do not set the address overlapping with those of the other devices in the network. (The default is 000)



(\*1) Whether the actual link is either the new Super Link or the previous Super Link depends on the models of the connected outdoor and indoor units. Consult the agent or the dealer.

#### Signal line specification

Communication method	Previous Super Link	New Super Link
Line type	MVVS	MVVS
Line diameter	0.75 - 1.25mm <sup>2</sup>	0.75/1.25mm <sup>2</sup>
Signal line (total length)	up to 1000m	up to 1500/1000m (*2)
Signal line (maximum length)	up to 1000m	up to 1000m

(\*2) Up to 1500 m for 0.75 mm<sup>2</sup>, and up to 1000 m for 1.25 mm<sup>2</sup>. Do not use 2.0 mm<sup>2</sup>. It may cause an error.

(\*3) Connect grounding on both ends of the shielding wire. For the grounding method, refer to the section "6 Installation".

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PJZ012D029F

- Set the Super Link network address with SW1 (tens place), SW2 (ones place), and SW3 (hundreds place).
- (2) Set the SL E board SW3-1 to be ON (Master) when using this without any remote control (no wired remote control nor wireless remote control).
- (3) Set up the plural master/slave device using the dip switches on the indoor unit board.
- (4) Set up the remote control master/slave device using the slide switch on the remote control board.
- (5) Set up "0" to "F" using the address rotary switch on the indoor unit board when controlling the indoor unit with the multiple remote control.



### 6 Installation

- 1. When using the metal box (mounted on the indoor unit / mounted on the back of the remote control):
  - (1) Mount the SL E board in the metal box using the locking supports.
  - (2) Wiring should go through the provided grommet since then through the wiring to the hole on the Metal box.

Secure the grommet after inserting the grommet into the Metal box as shown in below figure, then tie the wiring at the outlet of the unit using a binding band.



▲ When installed outside the indoor unit, put the metal cover on.



▲ When installed on the back of the remote control, mount it directly on the remote control bottom case.



Connect grounding. Connect grounding for the power line to Ground , and grounding for the signal line to Ground or to the Ground on the indoor unit control box.



- When connecting to the indoor unit control box (ceiling-concealed type and FDT type only):
  - (1) Mount the SL E board in the control box using the locking supports.
  - (2) Remove 6 bands from the box and put the wiring through the bands to be secured.



Electrical shock hazard! Make sure to turn the power off for servicing. Be cautious so that no abnormal force should be applied to the wiring. Do not let the SL E board hung by the wiring. Do not damage the board with a screw driver.

The board is sensitive to static electricity. Release the static electricity of your body before servicing.

(you can do this by touching the control board which is grounded).

#### Location of installation

Install the device at the location where there are no electromagnetic waves nor where there is water and dust. The specified temperature range of the device is 0 to 40°C. Install the device at the location where the ambient temperature stays within the range. If it exceeds the specification, make sure to provide solution such as installing a cooling fan. When used outside of the range, it may cause abnormal operation.

#### 7 Indicator display

Check the LED 3 (green) and LED 2 (red) on the SL E board for flashing.

SL E boa	ard LEDs		Display on the
Red	Green	Inspection mode	integrated network control device
Off	Flashing	Normal communication	
Off	Off	<ul> <li>Disconnection in the remote control communication line (X or Y)</li> <li>Short-circuit in the remote control communication line (between X and Y)</li> <li>Faulty indoor unit remote control power</li> <li>Faulty remote control communication circuit</li> <li>Faulty CPU on SL E board</li> </ul>	No corresponding unit number
One flash	Flashing	<ul> <li>Disconnection in the Super Link signal line (A or B)</li> <li>Short-circuit in the Super Link signal line (between A and B)</li> <li>Faulty Super Link signal circuit</li> </ul>	
Two flashes	Flashing	Faulty address setting for the SL E board (Set up the address for previous SL E board : more than 48 new SL E board : more than 128)	
Three flashes	Flashing	<ul> <li>SL E board parent not set up when used without a remote control</li> <li>Faulty remote control communication circuit</li> </ul>	E1
Four flashes	Flashing	<ul> <li>Address overlapping for the SL E board and the Super Link network connected indoor unit</li> </ul>	E2
Off	Flashing	<ul> <li>Number of connected devices exceeds the specification for the multiple indoor unit control</li> </ul>	E10

PJZ012D029C

# 12.6 Ceiling concealed type (SRR) option parts

### Table of option parts



#### (1) Bottom air inlet grille set

(a) Part No. : RTS12

#### (b) Parts list

Name	Qty.
Air inlet grille	1
Duct set	1
Tapping screw	10
Pan-head screw	4

### (c) Installation measurements

(Figure 1)



#### (d) Installation method

- (i) Attach a duct set onto an indoor unit with 10 tapping screws. The tapping screws on the drain-pan support side are designed to fasten a drain-pan support together, so unscrew the 5 screws from a drain-pan support and fasten the duct sat and the drain-pan support together. As a rule of thumb in determining installation height, make the bottom of a duct set for the air inlet grille stay about 10mm above the ceiling's lower face.
- (ii) Unscrew the air inlet grille's central screw and leave the air inlet grille in an open state as illustrated in Figure 2. Then, insert the air inlet grille to a duct for it and fix them with small pan-head screws (long ones).
- (iii) Small pan-head screws are also used to make a fine adjustment of installation height. The height measurements (80 100mm) shown in Figure 1 are possible adjustment ranges, When a small pan-head screw is fastened to the end, the height will become 80mm.

455 11.5 Air outlet side 230 Indoor unit 00 ~ 2 10) 2 171 258 10 (Dimensions of a ceiling opening) 10 Ceiling 278(Panel dimensions)



Unit: mm

#### (2) Rear inlet filter set

#### (a) Part No. : RBF12

Do not use this filter set alone.

#### (b) Installation method

- (i) Detach the rear panel and the hanger metal screwed onto the rear panel from an indoor unit.
- (ii) Attach the removed hanger metal to the frame of the filter set with small pan-head screws. (One screw each on the right and left sides of the frame is designed to fasten them together onto the main unit).
- (iii) Attach the filter set onto the point where the rear panel was attached with tapping screws. (The rear panel will become of no use anymore)

#### (3) Duct joint for air outlet plate

### (a) Part No. : RFJ22

This duct joint is used for the connection of a round duct (ø 150) to an indoor unit.

#### (b) Part list

Name	Qty.
Duct joint	1
Tapping screw	8
Heat insulation materials $(15 \times 15 \times t3)$	60

#### (c) Installation measurements





#### (d) Installation method

Attach the duct joint onto the front of an indoor unit with tapping screws. In attaching it, please make sure that no gaps are left between it and the indoor unit.



When a round duct is connected, condensation may occur in the joint with the duct joint, so do not forget to provide heat insulation.

When installation work is completed, dress tapping screws protruding out of the indoor unit and duct with heat insulation materials supplied as accessories.

Heat insulation materials





#### (4) Drain up kit

### (a) Part No. : RDU12E

Use this drain up kit when the grade of the drain pipe is not enough.

#### (b) Part list

Drain up kit accessorles							
No. Name Quantity							
1	Drain pump	1					
2	Drain hose	1					
3	Hose clamp	1					
4	Tapping screw	4					

#### (c) Installation measurements



#### (d) Installation method



- (i) Fix the drain up kit on the right side of the inside unit with tap screws.
- (ii) Insert the drain hose fully and securely to the drain sockets of the inside unit and the drain up kit.

(iii) Connect the drain up kit's connectors for the drain pump (red 2P) and the float switch (black 2P) to the connectors of the control box.

(The control box's connectors for drain pump and the float switch are also red and black respectively.) Note that the control's connector for the float switch is already connected to the inside unit's connector for the float switch, so disconnect them and connect it to

the drain up kit's connector for the float switch.



- (iv) Use hard PVC general purpose pipes VP-25 sold in the market for drain pipes after draining up.
- (v) Tighten the PVC pipe securely with the attached clamp after inserting it in the drain socket.



(vi) The drain pipe must have downward inclination gradient of 1/100 or more, and take care not to make a trap or uphill pass.



- (vii) When connecting the drain pipe, take care not to apply force on the pipe of the unit, and clamp the pipe as close as possible to the unit.
- (viii) Don't attach air purge pipe, because the drain might spout.
- (xi) Be sure to provide heat insulation to indoor side drain pipe.



#### ♦ Air flow and external static pressure characteristics



 Air inlet grille air flow and friction loss characteristics (Part No.:RTS12)

# 12.7 Filter kit (FDUM only)

PJZ012D076

This manual contains installation points and operating instructions for the filter kit manufactured by MHI. Carry out the work following the instructions below.

This manual also contains information on the usage after installation,

so keep this manual properly with USER'S MANUAL provided with the indoor unit.



· After unpacking, carry out this work on the ground.

- Do not carry out the work during operation, or there is a danger of being entangled in the rotating parts and getting injured.
- Clean the air filter regularly.
- Be sure to entrust qualified serviceman to performance on the air filter.
- · Be sure to cut off the power and stop the unit before performing maintenance.

# 1. Table of filter kit parts No. and corresponding object models

	Small model	Medium model	Large model	
Single type	50	60, 71	100 - 140	
Multi type	22 - 56	71, 90	112 - 160	
Filter Kit	UM-FL1EF	UM-FL2EF	UM-FL3EF	

### 2. Parts list of filter kit

Filte	Rail		Insulation		
1pc	;	2рс	2pc		
Bracket		Parts set (screw)			
	000	} <b>@</b>		କ୍ଷ୍ଣ କ୍ଷ କୃତ୍ତ୍ କ୍ଷ	
	edium-sized : 5pcs.	larg	le model : 7pcs.		
1pc	1pc				

### 3. Installation Points

(1) Stick the insulation on both inner sides of the duct, leaving no space up and down.



(\*) After unpacking, bottom side of the unit is located at the upper side.

(2) Install the rail on both inner sides of the duct with the screw.



(3) Install the air filter on the rails.



(4) Install the bracket on the rail with the screw.





Installation procesure

(\*\*) When the unit is installed, bottom side of the unit is located at the lower side.

# **13. TECHNICAL INFORMATION**

### (1) Model SCM40ZJ-S

Information to identify the mode	I(s) to which the inf	formation r	elates to:	If function includes heating: Indicate	the heating se	eason the	
Indoor unit model name	SRK20ZJ	X-S x 2		information relates to. Indicated value	ies should rela	te to one	
Outdoor unit model name	SCM40Z.	J-S		heating season at a time. Include at	least the heatir	ng season	'Average'.
Eupotion (indicate if present)				Average(mandatory)	No.		
	Vaa			Warmer(if designated)	Yes		
beating	Vos			Colder(if designated)	No		
licating	163				NO		
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency	iency class		
cooling	Pdesignc	4.00	kW	cooling	SEER	5.92	A+
heating / Average	Pdesignh	5.20	kW	heating / Average	SCOP/A	4.05	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
		h.		Deale up heating consolts of outdoor	town onet up 7	-	unit
beating / Average (-10°C)	Ddb	1	1×1/1	beating / Average (-10°C)	elbu		
beating / Warmer (2°C)	Pdh	4.41	kW	heating / Warmer (2°C)	elbu	0.79	kW
heating / Colder (-22°C)	Pdh		kW	heating / Colder (-22°C)	elbu	-	kW
					0.00		
Declared capacity for cooling, a	t indoor temperatur	re 27(19)°C	and	Declared energy efficiency ratio, at i	ndoor tempera	ature 27(19	9)°C and
outdoor temperature Tj		· · /		outdoor temperature Tj		`	,
Tj=35°C	Pdc	4.00	kW	Tj=35°C	EERd	4.76	]-
Tj=30°C	Pdc	3.00	kW	Tj=30°C	EERd	7.20	]-
Tj=25°C	Pdc	3.30	kW	Tj=25°C	EERd	8.90	-
Tj=20°C	Pdc	3.60	kW	Tj=20°C	EERd	7.40	-
Declared accessity for heading (		tindee	,	Declared coefficient of a strange	1 1000000000000000000000000000000000000	oon ot !!	loor
Lemperature 20°C and outdoor f	Average season, at	i indoor		temperature 20°C and outdoor temp	/ Average sea	son, at inc	100Г
Ti=-7°C	Pdh	4 60	kW	Ti=-7°C		2 00	۱
Ti=2°C	Pdh	2.00	kW	Ti=2°C	COPd	2.00	
Ti=7°C	Pdh	2.20	kW	Ti=7°C	COPd	5.50	1_
Ti=12°C	Pdh	3.10	kW	Ti=12°C	COPd	6.90	-
Ti=bivalent temperature	Pdh	4.60	kW	Ti=bivalent temperature	COPd	2.80	-
Ti=operating limit	Pdh	4.10	kW	Ti=operating limit	COPd	2.50	-
		-		J			
Declared capacity for heating /	Narmer season, at	indoor		Declared coefficient of performance	/ Warmer seas	son, at ind	loor
temperature 20°C and outdoor t	emperature Tj			temperature 20°C and outdoor temp	erature Tj		_
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared conseits for besting (	Colder accord at i	ndoor		Declared coefficient of performance	/ Coldor agos	on ot indo	or
temporature 20°C and outdoor t	omporaturo Ti	10001		temperature 20°C and outdoor temp	oratura Ti	on, at indo	01
$Ti=-7^{\circ}C$	Pdh		kW			-	7_
Ti=2°C	Pdh		k\M	Ti=2°C	COPd		
Ti=7°C	Pdh		kW	Ti=7°C	COPd		
Ti=12°C	Pdh	-	kW	Ti=12°C	COPd	-	-
Ti=bivalent temperature	Pdh	-	kW	Ti=bivalent temperature	COPd	-	-
Ti=operating limit	Pdh	-	kW	Ti=operating limit	COPd	-	1_
Tj=-15℃	Pdh	-	kW	Tj=-15℃	COPd	-	1-
Bivalent temperature				Operating limit temperature			7.
heating / Average	Tbiv	-7	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Ibiv	-	Ĵ	heating / Colder	lol	-	Č
				Cycling interval officiency			
for cooling	Povec		kW	for cooling	FFRovo	-	7_
for heating	Povch	-	kW	for heating	COPeve	-	1.
lor neating	T Cych	_		lor neuting	OOI Cyc	_	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	]-
Electric power input in power m	odes other than 'ac	tive mode		Annual electricity consumption			_
off mode	Poff	13	W	cooling	Qce	237	kWh/a
standby mode	Psb	13	W	heating / Average	Qhe	1798	kWh/a
Inermostat-off mode	Pto	25	W	neating / Warmer	Qhe	-	KVVh/a
crankcase neater mode	PCK	0	٧V	Ineating / colder	Qne	-	кvvn/a
Capacity control/indicate capacity	three options)			Other items			
				Sound nower level/indoor)	l wa	52	dB(A)
				Sound power level (outdoor)	l wa	03	dB(A)
fixed	No			Global warming potential	G/M/P	1075	kaCO2ea
staged	No			Rated air flow(indoor)	-	690	m3/h
variable	Yes			Rated air flow(outdoor)	-	2400	m3/h
Contact details for obtaining	Name and	d address	of the man	ufacturer or of its authorised represen	itative.		
more information	1ITSUBISHI HEAV	Y INDUST	RIES EUF	ROPE, LTD.			
A	IR-CONDITIONIN	G DIVISIO	N				
4	tn ⊢loor Internation	nal Building	gs 71 Kings	sway, London, WC2B 6ST United King	gdom		
1							

Information to identify the model(	s) to which the information relates to:	If function includes heating: Indicate	e the heating season the
Indoor unit model name	SRK20ZJ-S x 2	information relates to. Indicated val	ues should relate to one
Outdoor unit model name	SCM40ZJ-S	heating season at a time. Include at	least the heating season 'Average'.
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	No
heating	Yes	Colder(if designated)	No
Itom	symbol value unit	Itom	symbol valuo olass
Design load	symbol value unit	Seasonal efficiency and energy effi	
cooling	Pdesigne <b>40</b> kW	cooling	SEER 572 A+
beating / Average	Pdesignb 52 kW	beating / Average	SCOP/A 3.84 A
heating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
	i debigiiii	ricating / colder	unit
Declared capacity at outdoor tem	perature Tdesignh	Back up heating capacity at outdoo	r temperature Tdesignh
heating / Average (-10°C)	Pdh <b>441</b> kW	heating / Average (-10°C)	elbu <b>079</b> kW
heating / Warmer (2°C)	Pdh - kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling, at	indoor temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Ti		outdoor temperature Tj	,
Tj=35°C	Pdc 4.00 kW	Tj=35℃	EERd 4.54 -
Tj=30°C	Pdc 3.00 kW	Tj=30°C	EERd 6.90 -
Tj=25°C	Pdc 3.30 kW	Tj=25°C	EERd 8.50 -
Tj=20°C	Pdc 3.60 kW	Tj=20°C	EERd 7.20 -
		·	
Declared capacity for heating / A	verage season, at indoor	Declared coefficient of performance	e / Average season, at indoor
temperature 20°C and outdoor te	mperature Tj	temperature 20°C and outdoor temp	perature Tj
Tj=-7°C	Pdh <b>4.60</b> kW	Tj=-7°C	COPd <b>2.60</b> -
Tj=2°C	Pdh <b>2.80</b> kW	Tj=2°C	COPd 3.60 -
Tj=7°C	Pdh <b>2.2</b> 0 kW	Tj=7°C	COPd <b>5.50</b> -
Tj=12°C	Pdh 3.10 kW	Tj=12°C	COPd 6.90 -
Tj=bivalent temperature	Pdh <b>4.60</b> kW	Tj=bivalent temperature	COPd 2.60 -
Tj=operating limit	Pdh <b>4.10</b> kW	Tj=operating limit	COPd <b>2.40</b> -
	· · · ·		
Declared capacity for heating / W	armer season, at indoor	Declared coefficient of performance	e / Warmer season, at indoor
temperature 20°C and outdoor te	mperature Tj	temperature 20°C and outdoor temp	perature Tj
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Declared capacity for heating / C	older season, at indoor	Declared coefficient of performance	e / Colder season, at indoor
temperature 20°C and outdoor te	mperature Tj	temperature 20°C and outdoor temp	perature Tj
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15°C	Pdh - kW	Tj=-15°C	COPd
Divelopt to page and to page		On exerting limit to see the	
Bivalent temperature		Operating limit temperature	
Ineaung / Average		heating / Average	
Ineaung / warmer		Ineating / warmer	
nealing / Colder		Ineating / Colder	101 - 10
Cycling interval conscity		Cycling interval officionay	
for cooling		for cooling	EERovo
for heating	Peych - KW	for heating	
Degradation coefficient		Degradation coefficient	
cooling	Cdc 025	heating	Cdh 025
	0120	1	0120
Electric power input in power mo	des other than 'active mode'	Annual electricity consumption	
off mode	Poff <b>13</b> W	cooling	Qce 245 kWh/a
standby mode	Psb 13 W	heating / Average	Qhe 1897 kWh/a
thermostat-off mode	Pto 25 W	heating / Warmer	Qhe - kWh/a
crankcase heater mode	Pck 0 W	heating / colder	Qhe - kWh/a
	· · · ·		
Capacity control(indicate one of t	hree options)	Other items	
	- 1 7	Sound power level(indoor)	Lwa <b>49</b> dB(A)
		Sound power level(outdoor)	Lwa <b>60</b> dB(A)
fixed	No	Global warming potential	GWP 1975 kaCO2ea
staged	No	Rated air flow(indoor)	- 468 m3/h
variable	Yes	Rated air flow(outdoor)	- <b>2400</b> m3/h
		······································	
Contact details for obtaining	Name and address of the man	ufacturer or of its authorised represent	ntative.
more information MI	TSUBISHI HEAVY INDUSTRIES EUF	ROPE, LTD.	
All	R-CONDITIONING DIVISION		
4tr	n Floor International Buildings 71 King	sway, London, WC2B 6ST United Kin	ngdom

### (2) Model SCM45ZJ-S

Information to identify the mode	el(s) to which the informati	on relates to:	If function includes heating: Indicate	e the heating se	eason the	
Indoor unit model name	SRK20ZJX-S +	SRK25ZJX-S	information relates to. Indicated val	lues should rela	te to one	
Outdoor unit model name	SCM45ZJ-S		heating season at a time. Include at	t least the heatin	ng season	'Average'.
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
heating	Yes		Colder(if designated)	No		
lite and	a second and second as		lite and	a successful and		
Item Design load	symbol value	unit	Item	Symbol	value	class
Cooling	Pdesigne 4 F		cooling		E 0.9	Δ.
beating / Average	Pdesignb <b>5</b> 90		beating / Average	SCOP/A	5.90	Α+ 
heating / Warmar	Pdosignh		heating / Warmar	SCORM	4.03	AT
heating / Colder	Pdesignh		heating / Coldor	SCOP/W		-
	i designin -	KVV	rieating / Colder	300170	-	unit
Declared capacity at outdoor te	mperature Tdesignh		Back up beating capacity at outdoo	r temperature T	designh	unit
beating / Average (-10°C)	Pdh 49	5 kW	heating / Average (-10°C)	elbu	0.85	]kW
heating / Warmer (2°C)	Pdh -	kW	heating / Warmer (2°C)	elbu	0.00	
heating / Colder (-22°C)	Pdh -	- kW	heating / Colder (-22°C)	elbu		kW
				0100		
Declared capacity for cooling	at indoor temperature 27(1	9)°C and	Declared energy efficiency ratio at	indoor tempera	ature 27(1	9)°C and
outdoor temperature Ti		o) o una	outdoor temperature Ti	indeer tempere		o) o una
Ti=35°C	Pdc 450	n kW	Ti=35°C	FFRd	4 33	7-
Ti=30°C	Pdc 2.20	n kW	Ti=30°C	EERd	7 00	1.
Ti=25°C	Pdc 3.30		Ti=25°C	FFRd	8 90	<b>−</b>
Ti=20°C	Pdc 3.50	h kW	Ti=20°C	FFRd	7 40	<b>−</b>
., _0 0	3.00		., _, _, _,	LLING	1.40	1
Declared capacity for heating /	Average season at indoo	r	Declared coefficient of performance	e / Average sea	son at in	door
temperature 20°C and outdoor	temperature Ti		temperature 20°C and outdoor tem	perature Ti	son, at illi	
Ti=-7°C	Pdh 51	0 kW	Ti=-7°C	COPd	2.40	7-
Ti=2°C	Pdh 240	h kW	Ti=2°C	COPd	4 00	<b>−</b>
Ti=7°C	Pdh 3.10	kW	Ti=7°C	COPd	-+.00	+
Ti=12°C	Pdh 2.20		Ti=12°C	COP4	6 00	۲_
Ti=bivalent temperature	Pdb 5.10		Ti=hivalent temperature	COPd	2.40	-[]
Ti-oporating limit	Pdb 47			COPd	2.40	-
	Full 4.70			COFU	2.10	-
Declared capacity for beating /	Warmar saasan at indoo	r	Declared coefficient of performance	o / Warmar coa	on at inc	loor
tomporature 20°C and outdoor	tomporaturo Ti	l	tomporature 20°C and outdoor tom	e / Warner Sea	son, at inc	1001
						٦_
Ti=7°C	Pdh		Tj=2 C	COPd		-
Ti=12°0	Puli -		1j=7 C	COPU		
TJ=12°C	Pan -	KVV	TJ=12°C	COPd	-	
Ti-oporating limit	Pan -	KVV		COPd	-	-
I J=operating limit	Pan -	KVV	I J=operating limit	COPa	-	-
Declared consolity for booting (	Colden accord at indeen		Declared coefficient of performance			
temperature 20°C and outdoor	tomporature Ti		temporature 20°C and outdoor tem	e / Colder seaso	on, at indo	DOL
		12/07				7
1]7 C	Puli -	KVV LAA		COPU		-
1j-2 C	Puli -	KVV	1]-2 C	COPU		
	Pan -	KVV			-	
TJ=12°C	Pan -	KVV	TJ=12°C	COPd	-	
I J=bivalent temperature	Pan -	KVV		COPa	-	-
I j=operating limit	Pdn -	KVV	I j=operating limit	COPd	-	-
Ij=-15°C	Pdh -	kVV	[]j=-15°C	COPd	-	-
Disalarit tanan anatan			On and the state is the second sectors			
	This -	<u></u>	booting (Average	Tel	45	<b>⊐°</b> ⊂
booting / Wermer		~~	hosting / Marmar		-15	- K
heating / Warmer		<u> </u>	heating / warmer		-	
neating / Colder	I DIV -	C	Ineating / Colder	1 01	-	
Cycling interval conseits			Cycling intonal officianay			
for cooling				EEDawa		7
for boating	Poyce -		for boating	EERCYC	-	4-
	rcycn -	KVV		COPCYC	-	1-
Degradation coefficient			Degradation coefficient			
cooling	Cdc 0.0	<b>5</b>		Cdb	0.25	٦.
	0.2	o  ⁻	Incaung	Guil	0.25	17
Electric power input in power m	odes other than 'active m	ode'	Annual electricity consumption			
off mode				Oce	264	kM/h/2
standby mode			beating / Average	Ohe	204	k\M/b/o
thormostat off made	гол <u>13</u> Dto <u>ог</u>		heating / Average		2014	
			heating / warmer	Qne		
crankcase neater mode	РСК 0	vv	Ineating / colder	Qne	-	күүп/а
Conceity control/indicate	f three options)		Other items			
Capacity control(indicate one o	i unee options)			1,		
			Sound power level(indoor)	Lwa	55	
fixed	· · ·		Sound power level(outdoor)	Lwa	60	
lixed	No		Beted air flow(indiana)	GWP	1975	_kgCO2eq.
staged	No		Rated air flow(indoor)	-	750	/m3/n
variable	Yes		Rated air flow(outdoor)	-	2400	m3/h
	Ne. 1					
Contact details for obtaining	Name and addre	ess of the man	iulacturer or of its authorised represe	niative.		
		USIKIESEUP	KOFE, LID.			
	th Floor International Built	dinge 71 King	eway London WC2P SET United Kir	adom		
		ango / i King	Sway, London, WO2D 031 United Kir	90011		
I I						

Information to identify the mode	I(s) to which the infor	rmation relates to:	If function includes heating: Indica	ate the heating se	eason the
Indoor unit model name	SRK20ZJ-S	S+SRK25ZJ-S	information relates to. Indicated va	alues should rela	ite to one
Outdoor unit model name	SCM45ZJ-	S	heating season at a time. Include a	at least the heatir	ng season 'Average'.
For a time (in the statistic state)					
Function(indicate if present)	No.		Average(mandatory)	Yes	
cooling	Yes			NO	
neating	Tes		Colder(II designated)	NO	
Item	symbol v	alue unit	Item	symbol	value class
Design load	oynibol v		Seasonal efficiency and energy efficiency	fficiency class	
cooling	Pdesignc	4.50 kW	cooling	SEER	5.80 A+
heating / Average	Pdesignh	5.80 kW	heating / Average	SCOP/A	3.82 A
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W	
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	
			1		unit
Declared capacity at outdoor te	mperature I designh	1.07	Back up heating capacity at outdo	or temperature	designh
heating / Average (-10 C)	Pan Pah	4.95 KVV	heating / Average (-10 C)	elbu	0.85 KVV
heating / Warmer (2 C)	Pan	- KVV	heating / Colder ( 22°C)	elbu	0 KVV
	Full	- KVV	Treating / Colder (-22 C)	eibu	- KVV
Declared capacity for cooling	t indoor temperature	27(19)°C and	Declared energy efficiency ratio	at indoor tempera	ature 27(19)°C and
outdoor temperature Ti		27(10) 0 010	outdoor temperature Ti		
Ti=35℃	Pdc	4.50 kW	Tj=35℃	EERd	4.12 -
Ti=30°C	Pdc	3.30 kW	Tj=30°C	EERd	6.85 -
Ti=25℃	Pdc	3.30 kW	Tj=25°C	EERd	8.50 -
Tj=20°C	Pdc	3.60 kW	Tj=20°C	EERd	7.20 -
					· · · ·
Declared capacity for heating /	Average season, at i	ndoor	Declared coefficient of performance	ce / Average sea	son, at indoor
temperature 20°C and outdoor	emperature Tj		temperature 20°C and outdoor ter	nperature Tj	
Tj=-7°C	Pdh	5.10 kW	Tj=-7°C	COPd	2.30 -
Tj=2°C	Pdh	3.10 kW	Tj=2°C	COPd	3.65
Tj=7°C	Pdh	2.20 kW	Tj=7°C	COPd	5.50 -
Tj=12°C	Pdh	3.10 kW	Tj=12°C	COPd	6.85 -
Tj=bivalent temperature	Pdh	5.10 kW	Tj=bivalent temperature	COPd	2.30 -
Tj=operating limit	Pdh	4.70 kW	Tj=operating limit	COPd	2.10 -
Declared capacity for heating /	warmer season, at ir	10001	Declared coefficient of performance	ce / vvarmer sea	son, at indoor
		1.00/			
Ti=7°C	Puli Ddb	- KVV		COPd	
Ti=10°0	Puli _	- KVV		COPU	
Tiphi valent terme evet ve	Pan -	- KVV		COPa	
	Puli	- KVV		COPd	
	Full	- 100		COFU	
Declared capacity for heating /	Colder season, at ind	loor	Declared coefficient of performance	ce / Colder seaso	on, at indoor
temperature 20°C and outdoor	emperature Ti		temperature 20°C and outdoor ter	nperature Tj	
Tj=-7°C	Pdh 🗌	- kW	Tj=-7°C	COPd	
Tj=2°C	Pdh	- kW	Ti=2°C	COPd	
Tj=7°C	Pdh	- kW	Ti=7°C	COPd	
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	
Tj=-15℃	Pdh	- kW	Tj=-15°C	COPd	
		•			
Bivalent temperature	<b>T</b> 1.5		Operating limit temperature	<b>T</b> - 1	
heating / Average		-7 <sup>-C</sup>	heating / Average		-15 <sup>-10</sup>
heating / Warmer		- <sup>-</sup> C	heating / Warmer		- °C
neating / Colder	IDIV	- 10	I Ineating / Colder	101	- <sup>-</sup> C
Cycling interval capacity			Cycling interval efficiency		
for cooling	Povec C	- kW	for cooling	FFRovo	
for heating	Pcvch	- kW	for heating	COPovo	
			lot flocaling	00.030	
Degradation coefficient			Degradation coefficient		
cooling	Cdc	0.25 -	heating	Cdh	0.25 -
Electric power input in power m	odes other than 'activ	ve mode'	Annual electricity consumption	6	
off mode	Poff	13 W	cooling	Qce	272 kWh/a
Istandby mode	Psb	13 VV	neating / Average	Qhe	2128 kWh/a
thermostat-off mode	Pto	25 W	neating / Warmer	Qhe	- kWh/a
crankcase heater mode	PCK	0  VV	I [neating / colder	Qhe	- kWh/a
Capacity control/indicate capacity	three options)		Other items		
			Sound power level/indoor)	1.11/2	
			Sound power level(autdoor)	Lwa	
fixed	No				
staned	NO		Rated air flow(indoor)	GWP	13/3 NUCU20
variable	NO Voc		Rated air flow(outdoor)	-	2400 m3/h
	res			-	2400 1113/11
Contact details for obtaining	Name and a	address of the ma	nufacturer or of its authorised repres	entative.	
more information	/ITSUBISHI HEAVY	INDUSTRIES EU	ROPE, LTD.		
	IR-CONDITIONING	DIVISION	,		
4	th Floor International	I Buildings 71 King	gsway, London, WC2B 6ST United K	ingdom	
I I					

#### (3) Model SCM50ZJ-S1

Information to identify the model(s) to	which the inf	ormation relate	s to:	If function includes heating: Indicate th	e heating s	eason the
Indoor unit model name	SRK25ZJ	X-S×2		information relates to. Indicated values	should rela	ate to one
Outdoor unit model name	SCM50ZJ	I-S1		heating season at a time. Include at lea	ist the heati	ng season 'Average'.
Function(indicate if present)				Average(mandatory)	No.	
Function(indicate if present)	Vac			Warmar(if designated)	Yes	
beating	Yes			Colder(if designated)	NO	
	103				NU	
Item	symbol	value unit		Item	symbol	value class
Design load	, , , , , , , , , , , , , , , , , , ,			Seasonal efficiency and energy efficie	ncy class	
cooling	Pdesignc	5.00 kW		cooling	SEER	5.61 A+
heating / Average	Pdesignh	5.80 kW		heating / Average	SCOP/A	3.82 A
heating / Warmer	Pdesignh	- kW		heating / Warmer	SCOP/W	
heating / Colder	Pdesignh	-  kW		heating / Colder	SCOP/C	- <u>-</u>
Declared consolity at outdoor tompor	oturo Tdooign	<u>b</u>		Reak up beating appeality at outdoor to	mooratura	Unit
beating / Average (-10°C)	Pdb			beating / Average (-10°C)	albu	
heating / Warmer (2°C)	Pdh	4.90 KW		heating / Warmer (2°C)	elbu	0.90 KW
heating / Colder (-22°C)	Pdh	- kW		heating / Colder (-22°C)	elbu	- kW
Declared capacity for cooling, at indo	or temperatur	e 27(19)°C and		Declared energy efficiency ratio, at inc	oor temper	ature 27(19)°C and
outdoor temperature Tj				outdoor temperature Tj		
Tj=35°C	Pdc	5.00 kW		Tj=35°C	EERd	3.70 -
Tj=30°C	Pdc	3.70 kW		Tj=30°C	EERd	5.75 -
Tj=25°C	Pdc	3.30 kW		Tj=25°C	EERd	8.15 -
IJ=20°C	Pac	3.60 KVV		[]]=20°C	EERd	7.40 -
Declared capacity for boating / Avera	100 00000 01	indoor		Declared coefficient of performance /	Verage co	ason at indeer
temperature 20°C and outdoor temperature	iye season, at arature Ti			temperature 20°C and outdoor temper	sverage sea ature Ti	ason, at indoor
Ti=-7°C	Pdh	5 20 kW		Ti=-7°C	COPd	2.50
Ti=2°C	Pdh	3.20 kW		Tj=2°C	COPd	3.71
Tj=7°C	Pdh	2.10 kW		Tj=7℃	COPd	5.20
Tj=12°C	Pdh	2.30 kW		Tj=12°C	COPd	5.90 -
Tj=bivalent temperature	Pdh	5.20 kW		Tj=bivalent temperature	COPd	2.50 -
Tj=operating limit	Pdh	4.40 kW		Tj=operating limit	COPd	1.90 -
Declared capacity for heating / Warm	ier season, at	indoor		Declared coefficient of performance /	Narmer sea	ison, at indoor
temperature 20°C and outdoor temperature	Prature Ij			temperature 20°C and outdoor temper		
$I_{J}=2C$	Puli Pdb	- KVV		$I_{J-2} C$	COPd	
Ti=12°C	Pdb	- KVV		Ti=12°C	COPd	
Ti=bivalent temperature	Pdh	- KW		Ti=hivalent temperature	COPd	
Ti=operating limit	Pdh	- kW		Ti=operating limit	COPd	
Declared capacity for heating / Colde	er season, at ir	ndoor		Declared coefficient of performance / 0	Colder seas	on, at indoor
temperature 20°C and outdoor temperature	erature Tj			temperature 20°C and outdoor temper	ature Tj	
Tj=-7°C	Pdh	- kW		Tj=-7°C	COPd	
Tj=2°C	Pdh	- kW		Tj=2°C	COPd	
IJ=7°C	Pdh	- kW		IJ=7°C	COPd	
Ti=hivelent temperature	Pan Dah	- KVV		Ti=hivelent temperature	COPd	
	Pan Pab	- KVV		Ti=oporating limit	COPd	
	Pull Pdb	- KVV			COPd	
1j=-15 C	Full	- KVV		IJ=-15 C	COFU	
Bivalent temperature				Operating limit temperature		
heating / Average	Tbiv	-7 °C		heating / Average	Tol	<b>-15</b> ℃
heating / Warmer	Tbiv	- °C		heating / Warmer	Tol	- °C
heating / Colder	Tbiv	- °C		heating / Colder	Tol	- °C
O ulia a internal and it				Quality internal off		
Cycling Interval capacity	Davia	1.347		Cycling interval efficiency	FED	I
for beating	PCYCC	- KVV		for beating		
	FUyun	- KVV			COFLU	
Degradation coefficient				Degradation coefficient		
cooling	Cdc	0.25		heating	Cdh	0.25
		0.20				0.20
Electric power input in power modes	other than 'ac	tive mode'		Annual electricity consumption		
off mode	Poff	12 W		cooling	Qce	312 kWh/a
standby mode	Psb	12 W		heating / Average	Qhe	2125 kWh/a
thermostat-off mode	Pto	30 W		heating / Warmer	Qhe	- kWh/a
crankcase heater mode	Pck	0 W		neating / colder	Qne	- kWh/a
Capacity control/indicate and of the	ontions)			Other items		
	= options)			Sound power level(indoor)	Lwa	<b>50</b> dB(A)
				Sound power level(outdoor)	Lwa	62 dB(A)
fixed	No			Global warming potential	GWP	1975 kgCO2eg
staged	No			Rated air flow(indoor)	-	474 m3/h
variable	Yes			Rated air flow(outdoor)	-	2460 m3/h
				· · · · · ·		
Contact details for obtaining	Name and	address of the	manı	afacturer or of its authorised representa	tive.	
more information MITSU	JBISHI HEAV	Y INDUSTRIES	EUR	OPE, LTD.		
AIR-C		JUVISION	Kiner	Way London WCOD SCT United Kingd	om	
	or memation	a buiuliys / I	rungs	way, London, WOZD 051 Onited Kingd	UIII	

RWC000Z235A

Information to identify the mode	I(s) to which the information	tion relates to:	If function includes heating: Indicat	e the heating s	eason the
Indoor unit model name	SRK20ZJX-S x	3	information relates to. Indicated val	lues should rela	ate to one
Outdoor unit model name	SCM50ZJ-S1		heating season at a time. Include at	t least the heati	ng season 'Average'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	No	
neating	Yes		Colder(if designated)	No	
Itom	symbol value	unit	Itom	symbol	valuo olass
Design load	Synbol value	; unit	Seasonal efficiency and energy effi	iciency class	value class
cooling	Pdesignc 50		cooling	SEER	6 62 A++
beating / Average	Pdesignb <b>5.</b>		beating / Average	SCOP/A	2.05
heating / Warmer	Pdesignh	kW	heating / Warmer	SCOP/M	3.35
beating / Colder	Pdesignh	kW	heating / Colder	SCOP/C	
	i designin	NVV	ricating / colder	000170	unit
Declared capacity at outdoor te	mperature Tdesignh		Back up heating capacity at outdoo	r temperature	Tdesignh
beating / Average (-10°C)	Pdh 40		heating / Average (-10°C)	elhu	
heating / Warmer (2°C)	Pdh .	kW	heating / Warmer (2°C)	elbu	- kW
heating / Colder (-22°C)	Pdh	kW	heating / Colder (-22°C)	elbu	- kW
			110001119; 001001 ( <u>22</u> 0)	0.00	
Declared capacity for cooling, a	t indoor temperature 27(	19)°C and	Declared energy efficiency ratio, at	indoor tempera	ature 27(19)°C and
outdoor temperature Ti			outdoor temperature Ti	indeer temper	ataro 27 (10) e ana
Ti=35°C	Pdc 5.0	0 kW	Ti=35℃	EERd	4.63 -
Ti=30°C	Pdc 37	o kW	Ti=30°C	EERd	7 10 -
Ti=25°C	Pdc 3.6	io kW	Ti=25℃	EERd	9.90 -
Ti=20°C	Pdc 39	o kW	Ti=20°C	EERd	9.00 -
	0.0				
Declared capacity for heating /	Average season. at indo	or	Declared coefficient of performance	e / Averade sea	ason, at indoor
temperature 20°C and outdoor	emperature Ti		temperature 20°C and outdoor tem	perature Ti	,
Tj=-7°C	Pdh 5.2	0 kW	Tj=-7°C	COPd	2.60 -
Tj=2°C	Pdh 3.2	0 kW	Tj=2°C	COPd	3.90 -
Tj=7°C	Pdh 2.0	0 kW	Tj=7°C	COPd	5.10 -
Tj=12°C	Pdh 2.3	0 kW	Tj=12°C	COPd	6.30 -
Ti=bivalent temperature	Pdh 5.2	o kW	Ti=bivalent temperature	COPd	2.60 -
Ti=operating limit	Pdh 4.4	o kW	Ti=operating limit	COPd	2.20 -
			1		
Declared capacity for heating /	Warmer season, at indoo	or	Declared coefficient of performance	e / Warmer sea	son, at indoor
temperature 20°C and outdoor	temperature Tj		temperature 20°C and outdoor tem	perature Ti	,
Tj=2°C	Pdh -	kW	Tj=2°C	COPd	
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	
Ti=12°C	Pdh -	kW	Ti=12°C	COPd	
Ti=bivalent temperature	Pdh	kW	Ti=bivalent temperature	COPd	I
Ti=operating limit	Pdh	kW	Ti=operating limit	COPd	<u> </u>
			ij opolating mint	00.0	
Declared capacity for heating /	Colder season, at indoor		Declared coefficient of performance	e / Colder seas	on. at indoor
temperature 20°C and outdoor	temperature Tj		temperature 20°C and outdoor tem	perature Ti	. ,
Tj=-7°C	Pdh -	kW	Tj=-7°C	COPd	
Ti=2°C	Pdh -	kW	Tj=2°C	COPd	
Ti=7°C	Pdh -	kW	Ti=7℃	COPd	I
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	I
Ti=bivalent temperature	Pdh -	kW	Ti=bivalent temperature	COPd	I
Ti=operating limit	Pdh -	kW	Ti=operating limit	COPd	
Ti=-15°C	Pdh -	kW	Ti=-15°C	COPd	<u> </u>
.,					· · · · ·
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv -	7 ℃	heating / Average	Tol	-15 °C
heating / Warmer	Tbiv -	°C	heating / Warmer	Tol	- °C
heating / Colder	Tbiv -	°C	heating / Colder	Tol	- °C
	·				
Cycling interval capacity			Cycling interval efficiency		
for cooling	Pcycc	kW	for cooling	EERcyc	<u> </u>
for heating	Pcych -	kW	for heating	COPcyc	
Degradation coefficient			Degradation coefficient		
cooling	Cdc 0.2	25  -	heating	Cdh	0.25 -
	edee etters the set	a da!	Annual algorithments "		
Electric power input in power m	odes other than 'active n	node	Annual electricity consumption	0	
		3 100		QCE	265 KVVh/a
Istanuby mode	PSD 1	3 VV	heating / Average	Qne	2091 KVVh/a
Inermostat-off mode	Pto 2	8 VV	neating / warmer	Qhe	- kWh/a
crankcase heater mode	РСК О	VV	neating / colder	Qhe	- kWh/a
	filmen ention - )		Other items		
Capacity control(indicate one o	unee options)		Curer Items	1,	
			Sound power level(Indoor)	Lwa	53 (CA)
fixed			Clobal warming astactic	LWa	62 (A)
Integrad	NO			GWP	19/5 kgCU2eq.
Joragen	NO		Deted or flow(subject)	-	690 m3/n
variable	Yes		Rated air flow(outdoor)	-	2460 m3/n
Contact datails for abtaining 1	Nome and a dat	one of the me	ufacturar or of its sutherized region	ntativa	
		USTRIES FUE		manve.	
		ISION	NOFE, LID.		
l l'	Ith Floor International Pu	ildinge 71 King	sway London WC2R 6ST United Kir	nadom	
				.930111	

Information to identify the model	(s) to which the inf	formation re	elates to:	If function includes heating: Indicate	the heating s	eason the
Indoor unit model name	SRK25ZJ	-S×2	siatoo to.	information relates to. Indicated value	ues should rela	ate to one
Outdoor unit model name	SCM50ZJ	J-S1		heating season at a time. Include at	least the heati	ng season 'Average'.
	Vaa			Average(mandatory)	Yes	
beating	Vos			Colder(if designated)	No	
	163				110	
Item	symbol	value	unit	Item	symbol	value class
Design load				Seasonal efficiency and energy efficiency	ciency class	
cooling	Pdesignc	5.00	kW	cooling	SEER	5.60 A+
heating / Average	Pdesignh	6.10	KVV	heating / Average	SCOP/A	3.80 A
heating / Valifier	Puesignin	-		heating / Warner	SCOP/W	
	i designin	-	KVV	lieating / Colder	300170	unit
Declared capacity at outdoor ter	nperature Tdesign	h		Back up heating capacity at outdoor	temperature	Tdesignh
heating / Average (-10°C)	Pdh	5.14	kW	heating / Average (-10°C)	elbu	0.96 kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	- kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- kW
Declared consoits for eacling of	indoor tomporatu		and	Declarad operate officianaly ratio at i	indoor tompor	atura 27(10)°C and
outdoor temperature Ti	indoor temperatur	e 27(19) C	anu	outdoor temperature Ti	indoor tempera	ature 27(19) C anu
Ti=35°C	Pdc	5.00	kW	Ti=35°C	EERd	3.40 -
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	5.70 -
Tj=25°C	Pdc	3.30	kW	Tj=25°C	EERd	8.10 -
Tj=20°C	Pdc	3.60	kW	Tj=20°C	EERd	7.40 -
Declared capacity for heating / A	verage season, at	tindoor		Declared coefficient of performance	/ Average sea	ason, at indoor
Ti=-7°C	Pdh	5.40	kw	Ti=-7°C		2 40 -
Ti=2°C	Pdh	3.30	kW	Ti=2°C	COPd	373
Ti=7°C	Pdh	2 20	kW	Ti=7°C	COPd	5.20 -
Tj=12°C	Pdh	2.80	kW	Tj=12°C	COPd	5.90 -
Tj=bivalent temperature	Pdh	5.40	kW	Tj=bivalent temperature	COPd	2.40
Tj=operating limit	Pdh	4.70	kW	Tj=operating limit	COPd	1.90 -
Declared capacity for heating / V	√armer season, at	indoor		Declared coefficient of performance	/ Warmer sea	ison, at indoor
temperature 20 C and outdoor te	mperature I			Itemperature 20°C and outdoor temp		
$T_{i=7}^{\circ}C$	Pdh	-	KVV kW	Ti=7°C	COPd	
Ti=12°C	Pdh	-	kW	Ti=12°C	COPd	
Ti=bivalent temperature	Pdh		kW	Ti=bivalent temperature	COPd	
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	• -
Declared capacity for heating / C	older season, at ir	ndoor		Declared coefficient of performance	/ Colder seas	on, at indoor
temperature 20°C and outdoor te	mperature Tj			temperature 20°C and outdoor temp	erature Tj	
] =-/°C	Pdh	-	KVV	]=-7°C	COPd	
$T_{i}=7^{\circ}C$	Pull	-		Ti=7°C	COPd	
Ti=12°C	Pdh		kW	Ti=12°C	COPd	
Ti=bivalent temperature	Pdh	-	kW	Ti=bivalent temperature	COPd	
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	
Tj=-15℃	Pdh	-	kW	Tj=-15℃	COPd	
Bivalent temperature	This		°-	Operating limit temperature	<b>T</b> -1	
heating / Average	I DIV	-7	°C	heating / Average		-15
heating / Valifier	Tbiv	-	°C	heating / Colder	Tol	
	1010	-	0	Incating / Colder	101	-  0
Cycling interval capacity				Cycling interval efficiency		
for cooling	Pcycc	-	kW	for cooling	EERcyc	
for heating	Pcych	-	kW	for heating	COPcyc	
De sur de tiene en effecteur				Design de l'anne de l'arte de la conte		
	Cdo	0.05			Cdb	0.05
	Cuc	0.25	-	lieating	Cull	0.25
Electric power input in power mo	des other than 'ac	tive mode'		Annual electricity consumption		
off mode	Poff	11	w	cooling	Qce	313 kWh/a
standby mode	Psb	11	W	heating / Average	Qhe	2247 kWh/a
thermostat-off mode	Pto	25	W	heating / Warmer	Qhe	- kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	- kWh/a
	three entires)			Oth an ita na		
Capacity control(Indicate one of	unee opuons)			Sound nower level/indoor)		
				Sound power level (outdoor)	l wa	62 dB(A)
fixed	No			Global warming potential	GWP	1975 kgCO2eg.
staged	No			Rated air flow(indoor)	-	474 m3/h
variable	Yes			Rated air flow(outdoor)	-	2460 m3/h
Contact details for obtaining	Name and	address o	of the man	utacturer or of its authorised represer	ntative.	
				NOFE, LID.		
	h Floor Internation	al Building	s 71 Kinas	sway, London, WC2B 6ST United Kin	adom	
L  "				, , <u></u>		

Information to identify the model	(s) to which the information	ation relates to:	I If function includes heating: Indicat	e the heating s	eason the
Indoor unit model name	SRK20ZJ-S×3	8	information relates to. Indicated val	lues should rela	ate to one
Outdoor unit model name	SCM50ZJ-S1		heating season at a time. Include at	t least the heatir	ng season 'Average'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Vvarmer(if designated)	No	
neating	Yes			NO	
Item	symbol valu	e unit	Item	symbol	value class
Design load	Symbol valu	c unit	Seasonal efficiency and energy eff	iciency class	
cooling	Pdesignc 5	.00 kW	cooling	SEER	6.52 A++
heating / Average	Pdesignh 6	.30 kW	heating / Average	SCOP/A	3.88 A
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W	
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	
-					unit
Declared capacity at outdoor ten	perature Tdesignh		Back up heating capacity at outdoo	or temperature	Tdesignh
heating / Average (-10°C)	Pdh 5	. <b>19</b> kW	heating / Average (-10°C)	elbu	1.11 kW
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	0 kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW
Declared capacity for cooling, at	indoor temperature 27	(19)°C and	Declared energy efficiency ratio, at	indoor tempera	ature 27(19)°C and
			loutdoor temperature 1	FFD.4	
1]=35°C	Pac 5	.00 KVV		EERO	4.50
1]=30°C	Pac 3	.70 KVV		EERO	7.00 -
]=25°C	Pac 3	.50 KVV	] = 25°C	EERO	9.60
1J=20°C	Pac 4	.00  KVV	_ [1]=20°C	EEKa	8.80 -
Deployed conceits for beating of A	Vorogo operation of the de		Declarad apofficient of norferment		and at indepen
Lectared capacity for heating / A	verage season, at indo	101	temperature 20°C and sutdays the	e / Average sea	ason, at indoor
Ti= $-7^{\circ}$ C		<b>60</b>	$T_{i=-7^{\circ}C}$		2.40
Ti=2°C			1]7 C	COPA	2.40
1 J-2 0	Pull 3	40 KVV	1]-2 C   Ti-7°C	COPA	3.60
Ti-12°C	Pull 2		IJ-7 C	COPA	5.60
Ti=hivelent temperature	Puli 2	.80 KVV	Ti=hivolont tomporature	COPd	7.10
	Pull 5	.60 KVV		COPU	2.40
	Pan <b>4</b>	.50 KVV		COPa	2.20
Declared capacity for beating / M	Jarmer season, at indo	or	Declared coefficient of performance	o / Warmer sea	son at indoor
temperature 20°C and outdoor te	mperature Ti		temperature 20°C and outdoor tem	e / Wanner Sea	3011, at 110001
	Pdh	- k\//		COPd	
Ti=7°C	Pdh	- kW	I Ti=7°C	COPd	
Ti=12°C	Pdh	- kW	$I_{i} = 12^{\circ}$ C	COPd	
Ti=hivalent temperature	Pdh		Ti=bivalent temperature	COPd	
Ti=operating limit	Pdh			COPd	
	T UIT			COLU	
Declared capacity for heating / C	older season at indoo	r	Declared coefficient of performance	e / Colder seas	on at indoor
temperature 20°C and outdoor te	mperature Ti	•	Itemperature 20°C and outdoor tem	nerature Ti	
Ti=-7°C	Pdh	- kW	Ti=-7°C	COPd	<b>-</b> -
Ti=2°C	Pdh	- kW	Ti=2°C	COPd	
Ti=7°C	Pdh	- kW	Ti=7°C	COPd	
Ti=12°C	Pdh	- kW	Ti=12°C	COPd	
Ti=bivalent temperature	Pdh	- kW	Ti=bivalent temperature	COPd	· -
Ti=operating limit	Pdh	- kW	Ti=operating limit	COPd	
Ti=-15°C	Pdh	- kW	Ti=-15°C	COPd	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv .	- <b>7</b> °C	heating / Average	Tol	<b>-15</b> ℃
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol	- °C
heating / Colder	Tbiv	- °C	heating / Colder	Tol	- °C
Cycling interval capacity			Cycling interval efficiency		
for cooling	Pcycc	kW	for cooling	EERcyc	-
for heating	Pcych	- kW	for heating	COPcyc	
Degradation coefficient			Degradation coefficient	O alla	
cooling	Cac 0	.25 -	Ineating	Can	0.25 -
Electric power is suit is a suit	doo other then lest	modo'			
left mode				000	260 k/M/b/o
standby mode	Peh		heating / Average	Oha	203 NVII/a
thermostat-off mode	Pto	22 W/	heating / Warmer	Ohe	k\//b/a
crankcase heater mode			heating / colder	Obo	
	FUK	U VV		UIE	- Kvvii/a
Capacity control/indicate one of	three ontions)		Other items		
			Sound power level(indoor)	l wa	49 dB(A)
			Sound power level (outdoor)	wa	62 dB(A)
fixed	No		Global warming notential	GW/P	1975 knCO2ea
staged	No		Rated air flow(indoor)	-	468 m3/h
variable	Vae		Rated air flow(outdoor)	-	2460 m3/h
	103				2400 1110/11
Contact details for obtaining	Name and add	tress of the mai	nufacturer or of its authorised represe	entative.	
more information M	ITSUBISHI HEAVY IN	DUSTRIES EUI	ROPE, LTD.		
AI	R-CONDITIONING DI	VISION			
4t	h Floor International B	uildings 71 King	sway, London, WC2B 6ST United Kir	ngdom	

#### (4) Model SCM60ZJ-S1

Information to identify the model(s) to	which the in	formation	relates to:	If function includes heating: Indicate the	e heating se	eason the	
Indoor unit model name	SRK25Z	JX-S+SRK	(35ZJX-S	information relates to. Indicated values	should rela	ite to one	
Outdoor unit model name	SCM60Z	J-S1		heating season at a time. Include at leas	st the heatir	ng season	Average'.
Function(indicate if present)	No.			Average(mandatory)	Yes		
cooling	Yes			(Varmer(If designated)	NO		
neating	res			Colder (II designated)	NO		
Item	symbol	value	unit	Item	symbol	value	class
Design load	eynizer	Talao	unit	Seasonal efficiency and energy efficien	cy class	10.00	0.000
cooling	Pdesignc	6.00	kW	cooling	SEER	5.61	A+
heating / Average	Pdesignh	7.00	kW	heating / Average	SCOP/A	3.82	A
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
							unit
Declared capacity at outdoor tempera	ture I design	n n		Back up heating capacity at outdoor ter	nperature I	designh	
heating / Average (-10 C)	Pull	6.56		heating / Average (-10 C)	elbu	0.44	KVV LAA/
heating / Colder (-22°C)	Pdb			beating / Colder ( $22^{\circ}$ C)	elbu		
	1 dil	_		including / Colder (-22 C)	CIDU	-	IX V
Declared capacity for cooling, at indo	or temperatu	re 27(19)°	C and	Declared energy efficiency ratio, at inde	oor tempera	ature 27(19	)°C and
outdoor temperature Tj				outdoor temperature Tj			,
Tj=35°C	Pdc	6.00	kW	Tj=35°C	EERd	3.15	-
Tj=30°C	Pdc	4.42	kW	Tj=30°C	EERd	4.75	-
Tj=25°C	Pdc	3.19	kW	Tj=25°C	EERd	8.62	-
Tj=20°C	Pdc	4.20	kW	Tj=20°C	EERd	7.38	-
		6 1 m 2		Declared accelling to the test			
Declared capacity for heating / Average	ge season, a	t Indoor		Declared coefficient of performance / A	verage sea	son, at ind	oor
Ti=-7°C	Ddb	6 44		Time 7°C		2 27	I_
Ti=2°C	Pdb	3.99	kw	Ti=2°C	COPd	2.3/	
Ti=7°C	Pdh	3 24	kW	Ti=7°C	COPd	5.05	
Ti=12°C	Pdh	3.83	kW	Ti=12°C	COPd	5.97	_
Ti=bivalent temperature	Pdh	6.41	kW	Ti=bivalent temperature	COPd	2.37	_
Ti=operating limit	Pdh	6.82	kW	Ti=operating limit	COPd	2.3	-
Declared capacity for heating / Warm	er season, at	indoor		Declared coefficient of performance / W	/armer seas	son, at ind	oor
temperature 20°C and outdoor temperature	rature Tj		_	temperature 20°C and outdoor tempera	iture Tj		.
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
IJ=12°C	Pdh	-	KW .	Ij=12°C	COPd	-	-
I J=bivalent temperature	Pan	-	KVV	Tj=bivalent temperature	COPd	-	-
	Pan	-	KVV	I J=operating limit	COPa	-	-
Declared capacity for heating / Colder	season at i	ndoor		Declared coefficient of performance / C	older seaso	on at indo	or
temperature 20°C and outdoor temper	rature Ti	10001		temperature 20°C and outdoor tempera	iture Ti	on, at muo	
Ti=-7°C	Pdh	-	1kW	Ti=-7℃	COPd	-	1-
Tj=2°C	Pdh	-	kW	Tj=2℃	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15℃	COPd	-	-
Divolont tomporation				Operating limit tomagesture			
beating / Average	Thiv		l∿c ∣	beating / Average	Tol	4 5	
heating / Warmer	Thiv	-/	l⊷	heating / Warmer	Tol	-15	°C
heating / Colder	Tbiv		l⊷ I	heating / Colder	Tol	-	°C
		I	-			L	-
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcych	-	kW	for heating	COPcyc	-	-
Degradation coefficient	Cda	0.05	- I	Degradation coefficient	Call	0.05	ı
cooling	Cac	0.25	-	neaung	Can	0.25	-
Electric power input in power modes	ther than 'ar	tive mode	<u>'</u>	Annual electricity consumption			
loff mode	Poff	12	, Tw	cooling	Oce	375	kWh/a
standby mode	Psb	12	w I	heating / Average	Qhe	2569	kWh/a
thermostat-off mode	Pto	25	w l	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	lw l	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three	options)			Other items		-	
				Sound power level(indoor)	Lwa	58	dB(A)
				Sound power level(outdoor)	Lwa	63	dB(A)
fixed	No			Global warming potential	GWP	1975	kgCO2eq.
staged	No			Rated air flow(indoor)	-	810	m3/n
	Yes				-	2520	1113/N
Contact details for obtaining	Name an	d addrees	of the man	ufacturer or of its authorised representation	Ve		
more information MITSU	BISHI HEAV	Y INDUS	TRIES EUF	OPE. LTD.	vG.		
AIR-CO	ONDITIONIN	G DIVISIC	ON CON				
		al Ruildin	as 71 Kina	sway London, WC2B 6ST United Kingdo	m		

RWC000Z235A

Information to identify the mode	I(s) to which the in	formation relates	to: If function includes heating: Ind	icate the heating season the
Indoor unit model name	SRK20Z	IX-S×3	information relates to. Indicated	values should relate to one
Outdoor unit model name	SCM60Z	J-S1	heating season at a time. Includ	e at least the heating season 'Average'.
Eupotion(indicate if present)				Vac
	Vaa		Warmer(if designated)	Yes
beating	Yes			NO
	Tes			NO
Item	symbol	value unit	Item	symbol value class
Design load	0,		Seasonal efficiency and energy	efficiency class
cooling	Pdesignc	6.00 kW	cooling	SEER 6.55 A++
heating / Average	Pdesignh	7.10 kW	heating / Average	SCOP/A 4.01 A+
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C
De classe d'accessible et au tele su te		L	Dealers has the second site of a st	unit
Declared capacity at outdoor tel	mperature I design		Back up neating capacity at out	door temperature I designn
beating / Warmer (2°C)	Pdh	6.37 KW	heating / Warmer (2°C)	
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu - kW
	1 dif			
Declared capacity for cooling, a	t indoor temperatu	re 27(19)°C and	Declared energy efficiency ratio	, at indoor temperature 27(19)°C and
outdoor temperature Tj	•	( )	outdoor temperature Tj	
Tj=35°C	Pdc	6.00 kW	Tj=35°C	EERd 4.08 -
Tj=30°C	Pdc	4.47 kW	Tj=30°C	EERd 6.32 -
Tj=25°C	Pdc	3.27 kW	Tj=25°C	EERd 9.63 -
Tj=20°C	Pdc	4.55 kW	Tj=20°C	EERd 9.19 -
Dealered appealts for boatter t	A	tindoon	Deployed as off should be a	
Lectared capacity for heating /	Average season, a	ι ιπασοι	Locared coefficient of performation	ance / Average season, at indoor
Ti= $-7^{\circ}$ C	emperature IJ Pdb	6 50 KM	Ti=-7°C	
Ti=2°C	Pdh	4.04 kW	Ti=2°C	
Ti=7°C	Pdh	2.65 kW	Ti=7°C	COPd 5 25
Ti=12°C	Pdh	2.00 kW	Ti=12°C	COPd 611
Ti=bivalent temperature	Pdh	6.50 kW	Ti=bivalent temperature	COPd 2.30 -
Ti=operating limit	Pdh	6.14 kW	Ti=operating limit	COPd <b>2.56</b> -
		••••		
Declared capacity for heating /	Narmer season, at	indoor	Declared coefficient of performa	ance / Warmer season, at indoor
temperature 20°C and outdoor t	emperature Tj		temperature 20°C and outdoor t	emperature Tj
Tj=2°C	Pdh	- kW	Tj=2°C	COPd
Tj=7°C	Pdh	- kW	Tj=7°C	COPd
Tj=12℃	Pdh	- kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd
Declared capacity for heating /	Joider season, at i	naoor	Declared coefficient of performation	ance / Colder season, at Indoor
Time 7°C		L L	Ti- 7°C	
]]7 C	Pull	- KVV	]7 C	
Ti=7°C	Edb	- KVV		
$T_{i=12^{\circ}C}$	Pdh	- KVV	Ti=12°C	
Ti=hivalant tomporatura	Ddb	- KVV	Ti-bivalant tomporatura	
Ti=operating limit	Pdh	- KVV		
$T_{i=-15^{\circ}C}$	Pdh	- KVV		
	T UIT			
Bivalent temperature			Operating limit temperature	
heating / Average	Tbiv	-7 °C	heating / Average	Tol <b>-15</b> °C
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv	- °C	heating / Colder	Tol - °C
Cycling interval capacity	Device		Cycling interval efficiency	
for boating	Pcycc	- KW	for boating	
lor neating	Pcych	- KVV	for heating	COPCyc
Degradation coefficient			Degradation coefficient	
cooling	Cdc	0.25	heating	Cdh 0.25
				0.20
Electric power input in power m	odes other than 'ad	tive mode'	Annual electricity consumption	_
off mode	Poff	14 W	cooling	Qce <b>321</b> kWh/a
standby mode	Psb	14 W	heating / Average	Qhe <b>2480</b> kWh/a
thermostat-off mode	Pto	30 W	heating / Warmer	Qhe - kWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe - kWh/a
Capacity control(indicate one of	three options)		Other items	
			Sound power level(indoor)	Lwa 53 dB(A)
Second.	·		Sound power level(outdoor)	Lwa 63 dB(A)
fixed	No		Global warming potential	GWP <b>1975</b> kgCO2eq.
staged	No		Rated air flow(indoor)	- 690 m3/h
	Yes			- <b>2520</b>  m3/h
Contact details for obtaining	Name on	d address of the	nanufacturer or of its authorised room	esentative
more information		Y INDUSTRIES	EUROPE. LTD.	Cochallye.
	IR-CONDITIONIN	G DIVISION	,	
4	th Floor Internation	nal Buildings 71 k	ingsway, London, WC2B 6ST United	l Kingdom
		0		-

Information to identify the mode	l(s) to which the information re	elates to:	If function includes heating. Indicate	the heating s	eason the
Indoor unit model name	SRK257.I-S+SRK35	57.I-S	information relates to. Indicated value	ues should rela	ate to one
Outdoor unit model name	SCM607 I-S1	200	heating season at a time. Include at	least the heati	ng season 'Average'
	00110020-01				ng coucon / nonugo.
Function(indicate if present)			Average(mandatory)	Vac	
	Vee		Warmar(if designated)	res	
besting	res		Colder(if designated)	NO	
	Yes			NO	
14 a ma	a sector de la sector a		He are	a succession and	
Item	symbol value	unit	Item	symbol	value class
Design load			Seasonal efficiency and energy efficiency	ciency class	
cooling	Pdesignc 6.00	kW	cooling	SEER	5.55 A
heating / Average	Pdesignh 7.20	kW	heating / Average	SCOP/A	3.80 A
heating / Warmer	Pdesignh -	kW	heating / Warmer	SCOP/W	/
heating / Colder	Pdesignh -	kW	heating / Colder	SCOP/C	• -
			<b></b>		unit
Declared capacity at outdoor te	mperature Tdesignh		Back up heating capacity at outdoor	r temperature	Tdesignh
heating / Average (-10°C)	Pdh 6.56	kW	heating / Average (-10°C)	elbu	0.64 kW
heating / Warmer (2°C)	Pdh -	kW	heating / Warmer (2°C)	elbu	- kW
heating / Colder (-22°C)	Pdh -	kW	heating / Colder (-22°C)	elbu	- kW
				0.04	
Declared capacity for cooling	t indoor tomporature 27(10)°C	and	Declared operation officiency ratio at	indoor tompor	aturo 27(10)°C and
outdoor tomporature Ti		anu	loutdoor tomporature Ti	indoor temper	ature 27 (19) C anu
	Dda <b>0.00</b>	L\\\/		FED4	0.00
1J-35 C	Puc 6.00		1]-35 C	EERU	3.03
]=30 C	Pdc 4.42	KVV	1]=30 C	EERO	4.72 -
1j=25°C	Pac 3.19	KVV	1j=25°C	EERd	8.62 -
1j=20°C	Pdc 4.20	kW	[]j=20°C	EERd	7.38 -
Declared capacity for heating /	Average season, at indoor		Declared coefficient of performance	/ Average sea	ason, at indoor
temperature 20°C and outdoor	emperature Tj		temperature 20°C and outdoor temp	perature Tj	
Tj=-7°C	Pdh 6.41	kW	Tj=-7°C	COPd	2.37 -
Tj=2°C	Pdh 3.88	kW	Tj=2°C	COPd	3.83 -
Tj=7°C	Pdh 3.24	kW	Tj=7°C	COPd	5.19 -
Ti=12°C	Pdh 3.23	kW	Ti=12°C	COPd	5.95
Ti=biyalent temperature	Pdb 6.44	kW/	Ti=hivalent temperature	COPd	0.90
	Ddb 0.00			COD4	2.37
	Puli 6.82	KVV		COPu	2.14
Declared and site for booting (			Dealers des fisients for a ferrar	() () () () () () () () () () () () () (	and the data of
Declared capacity for heating /	varmer season, at indoor		Declared coefficient of performance	vvarmer sea	ason, at indoor
temperature 20°C and outdoor	emperature I j		temperature 20°C and outdoor temp	perature Ij	
1j=2°C	Pdh -	kW	]j=2°C	COPd	
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	• -
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	
Ti=bivalent temperature	Pdh -	kW	Ti=bivalent temperature	COPd	
Ti=operating limit	Pdh -	kW	Ti=operating limit	COPd	
·) · · · · · · · · · · · · · · · · · ·			·] ·p····g····		
Declared canacity for heating /	Colder season at indoor		Declared coefficient of performance	/ Colder seas	on at indoor
temperature 20°C and outdoor	emperature Ti		temperature 20°C and outdoor temp	oraturo Ti	
$Ti = -7^{\circ}$		KM/	$T_{i-7}^{\circ}$		
]7 C	Pdh -		1]7 C	COPd	
TJ=2 C	Puli -	KVV	1]-2 C	COPU	
	Pan -	KVV		COPa	
[]]=12°C	Pan -	KVV	1]=12.0	COPa	• -
Tj=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	• -
Tj=-15°C	Pdh -	kW	Tj=-15°C	COPd	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv -7	°C	heating / Average	Tol	-15 °C
heating / Warmer	Tbiv -	°c ∣	heating / Warmer	Tol	- °C
heating / Colder	Tbiv -	°c ∣	heating / Colder	Tol	- °c
Cycling interval capacity			Cycling interval efficiency		
for cooling	Povec	kW	for cooling	FEROVO	
for beating	Poveh	kW/	for beating	COPovo	
	F CyCii -	K V V	IOI Heating	COFLU	
Descredation acofficient	-		Description coefficient		
			Degradation coefficient	Calle	0.05
	Cac 0.25	-	Inealing	Can	0.25 -
			A successful a la statistica de la stati		
Electric power input in power m	odes other than 'active mode'		Annual electricity consumption	0	
oπ mode	Pott 12	vV	cooling	Qce	379 kWh/a
standby mode	Psb 12	W	heating / Average	Qhe	2656 kWh/a
thermostat-off mode	Pto 35	W	heating / Warmer	Qhe	- kWh/a
crankcase heater mode	Pck 0	W	heating / colder	Qhe	- kWh/a
Capacity control(indicate one or	three options)		Other items		
			Sound power level (indoor)	Lwa	58 dB(A)
			Sound power level(outdoor)	Lwa	63 dB(A)
fixed	Nc		Global warming potential		
	NO			GWF	1975 kgc02eq.
siageo	No		Rated air flow(indoor)	-	606 m3/h
variable	Yes		Rated air flow(outdoor)	-	2520 m3/h
Contact details for obtaining	Name and address of	of the man	ufacturer or of its authorised represer	ntative.	
more information	/ITSUBISHI HEAVY INDUST	RIES EUR	ROPE, LTD.		
4	<b>AR-CONDITIONING DIVISIO</b>	N			
4	th Floor International Building	js 71 Kings	sway, London, WC2B 6ST United Kin	igdom	
1					

Information to identify the model(s)	to which the information relates to	: If function includes heating: Indicate	the heating season the
Indoor unit model name	SRK20ZJ-S×3	information relates to. Indicated value	ies should relate to one
Outdoor unit model name	SCM60ZJ-S1	heating season at a time. Include at I	least the heating season 'Average'.
Eunction(indicate if present)			Vac
cooling	Voc	Warmer(if designated)	No.
heating	Yes	Colder(if designated)	No
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy effic	ciency class
cooling	Pdesignc 6.00 KW	cooling	SEER 6.21 A++
heating / Warmar	Pdesignin 7.10 KW	heating / Average	SCOPIA 3.91 A
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C -
	1 000.9	riodalig / Coldol	unit
Declared capacity at outdoor tempe	erature Tdesignh	Back up heating capacity at outdoor	temperature Tdesignh
heating / Average (-10°C)	Pdh <b>6.46</b> kW	heating / Average (-10°C)	elbu <b>0.64</b> kW
heating / Warmer (2°C)	Pdh - kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pan - KVV	neating / Colder (-22°C)	elbu - KVV
Declared capacity for cooling, at inc	door temperature 27(19)°C and	Declared energy efficiency ratio at i	ndoor temperature 27(19)°C and
outdoor temperature Ti		outdoor temperature Ti	
Tj=35°C	Pdc 6.00 kW	Tj=35°C	EERd 3.98 -
Tj=30°C	Pdc <b>4.47</b> kW	Tj=30°C	EERd 6.1 -
Tj=25°C	Pdc 3.27 kW	Tj=25°C	EERd <b>9.1</b> -
Tj=20°C	Pdc 4.55 kW	Tj=20°C	EERd 8.5 -
Declared capacity for booting / Avia	rade season at indoor	Declared coefficient of porformance	/ Average season at indeer
temperature 20°C and outdoor tem	perature Ti	temperature 20°C and outdoor temp	erature Ti
Tj=-7°C	Pdh 6.50 kW	Tj=-7°C	COPd 2.37 -
Tj=2°C	Pdh 4.04 kW	Tj=2°C	COPd 3.90 -
Tj=7°C	Pdh <b>2.65</b> kW	Tj=7°C	COPd 5.25 -
Tj=12°C	Pdh <b>2.93</b> kW	Tj=12°C	COPd 6.11 -
Tj=bivalent temperature	Pdh 6.65 kW	Tj=bivalent temperature	COPd 2.37 -
I j=operating limit	Pdh 6.14 kW	Ij=operating limit	COPd 2.56 -
Declared capacity for heating / War	mer season at indoor	Declared coefficient of performance	/Warmer season at indoor
temperature 20°C and outdoor tem	perature Ti	temperature 20°C and outdoor temp	erature Ti
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Declared capacity for heating / Cold	der season at indoor	Declared coefficient of performance	/ Colder season, at indoor
temperature 20°C and outdoor tem	perature Ti	temperature 20°C and outdoor temp	erature Ti
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd -
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
I j=bivalent temperature	Pdh - kW	I j=bivalent temperature	
I J=operating limit	Pdn - KVV		
1]15 0	Full - KVV		
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiv <u>-7</u> °C	heating / Average	Tol <b>15</b> ℃
heating / Warmer	Tbiv - °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv - °C	heating / Colder	l'ol - °C
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
	· · · ·		
Degradation coefficient		Degradation coefficient	
cooling	Cac 0.25 -	neating	Can 0.25 -
Electric power input in power mode	s other than 'active mode'	Annual electricity consumption	
off mode	Poff <b>14</b> W	cooling	Qce 338 kWh/a
standby mode	Psb 14 W	heating / Average	Qhe <b>2480</b> kWh/a
thermostat-off mode	Pto <b>40</b> W	heating / Warmer	Qhe - kWh/a
crankcase heater mode	Pck 0 W	heating / colder	Qhe - kWh/a
Conceity control/indicate and of the	no ontiono)	Othor itoms	
Capacity control(indicate one of thr	ee options)	Sound power level/indoor)	
		Sound power level (indoor)	
fixed	No	Global warming potential	GWP 1975 kaCO2ea.
staged	No	Rated air flow(indoor)	- <b>468</b> m3/h
variable	Yes	Rated air flow(outdoor)	- <b>2520</b> m3/h
Contact details for obtaining	Name and address of the m	anutacturer or of its authorised represen	itative.
	CONDITIONING DIVISION		
4th F	Floor International Buildings 71 Kir	ngsway, London, WC2B 6ST United Kind	gdom
			-

### (5) Model SCM71ZJ-S1

Information to identify the model(s)	to which the information	on relates to:	If function includes heating: Indicate	the heating season the	
Indoor unit model name	SRK35ZJX-Sx2		information relates to. Indicated valu	les should relate to one	
Outdoor unit model name	SCM71ZJ-S1		heating season at a time. Include at	least the heating season 'Aver	rage'.
Eunction(indicate if present)	-			Vac	
cooling	Voc		Warmer(if designated)	No	
heating	Yes		Colder(if designated)	No	
Item	symbol value	unit	Item	symbol value clas	s
Design load	Data si una 🗌 🗖 🖬		Seasonal efficiency and energy effic	ciency class	
cooling	Pdesignc 7.10			SEER 5.85 A	A+
heating / Average	Pdesignh 7.30		heating / Average	SCOP/A 3.81	A
heating / Colder	Pdesignh -		heating / Colder	SCOP/C -	-
	, accigini		riodalig / Coldol	unit	
Declared capacity at outdoor tempe	erature Tdesignh		Back up heating capacity at outdoor	temperature Tdesignh	
heating / Average (-10°C)	Pdh 5.98	3 kW	heating / Average (-10°C)	elbu <b>1.32</b> kW	
heating / Warmer (2°C)	Pdh -	kW	heating / Warmer (2°C)	elbu - kW	
heating / Colder (-22°C)	Pan -	KVV	neating / Colder (-22°C)	elbu - KVV	
Declared capacity for cooling, at inc	door temperature 27(10	9)°C and	Declared energy efficiency ratio at	ndoor temperature 27(19)°C :	and
outdoor temperature Tj		o) o una	outdoor temperature Tj		ana
Tj=35°C	Pdc 7.10	) kW	Tj=35℃	EERd 3.34 -	
Tj=30°C	Pdc 5.29	kW	Tj=30°C	EERd 5.25 -	
Tj=25°C	Pdc 3.30	) kW	Tj=25°C	EERd 7.85 -	
Tj=20°C	Pdc 4.31	kW	Tj=20°C	EERd 9.25 -	
Declared capacity for beating / Avo	rade season at indoor		Declared coefficient of performance	/ Average season at indepr	
temperature 20°C and outdoor tem	perature Ti		temperature 20°C and outdoor temp	erature Ti	
Tj=-7℃	Pdh 6.62	2 kW	Tj=-7℃	COPd 2.45	
Tj=2°C	Pdh 3.95	5 kW	Tj=2℃	COPd 3.99 -	
Tj=7°C	Pdh 2.49	kW	Tj=7°C	COPd <b>4.57</b> -	
Tj=12°C	Pdh 2.63	3 kW	Tj=12°C	COPd <b>5.58</b> -	
Tj=bivalent temperature	Pdh 6.62	<u>k</u> W	Tj=bivalent temperature	COPd 2.45 -	
I j=operating limit	Pdh 4.90	) kW	I j=operating limit	COPd   1.80  -	
Declared capacity for heating / War	mer season at indoor		Declared coefficient of performance	/Warmer season at indoor	
temperature 20°C and outdoor tem	perature Ti		temperature 20°C and outdoor temp	erature Ti	
Tj=2°C	Pdh -	kW	Tj=2°C	COPd	
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	
Declared capacity for heating / Cold	der season at indoor		Declared coefficient of performance	/ Colder season at indoor	
temperature 20°C and outdoor tem	oerature Ti		temperature 20°C and outdoor temp	erature Ti	
Tj=-7°C	Pdh -	kW	Tj=-7°C	COPd -	
Tj=2°C	Pdh -	kW	Tj=2°C	COPd	
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	
I J=Divalent temperature	Pan -		Ti=oporating limit		
Ti=15°C	Pan -		Ti=-15°C		
1]=-13 0	i dii	1000	[]=-10 0		
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv -7	°C	heating / Average	Tol <u>-15</u> °C	
heating / Warmer	Tbiv -	°C	heating / Warmer		
heating / Colder	I DIV -	°C	heating / Colder		
Cycling interval capacity			Cycling interval efficiency		
for cooling	Pcvcc -	lkW	for cooling	EERcvc	
for heating	Pcych -	kW	for heating	COPcyc	
Degradation coefficient			Degradation coefficient		
cooling	Cac 0.25	5 -	neating	Can 0.25 -	
Electric power input in power mode	s other than 'active mo	ode'	Annual electricity consumption		
off mode	Poff 15	W	cooling	Qce 425 kWh	h/a
standby mode	Psb 15	w	heating / Average	Qhe 2682 kWh	h/a
thermostat-off mode	Pto 40	W	heating / Warmer	Qhe - kWh	h/a
crankcase heater mode	Pck 0	W	heating / colder	Qhe - kWh	h/a
Capacity control(indicate one of thr	ee options)		Other items		<u></u>
			Sound power level(indoor)		
fixed	No		Global warming potential	GWP 1975 kaC	02ea
staged	No		Rated air flow(indoor)	- 810 m3/	h
variable	Yes		Rated air flow(outdoor)	- 3360 m3/	'n
				· · ·	
Contact details for obtaining	Name and addre	ess of the man	ufacturer or of its authorised represer	tative.	
	CONDITIONING DIVIS	SION	NOFÉ, LID.		
4th F	Floor International Build	dinas 71 Kina	sway, London, WC2B 6ST United Kin	adom	

Information to identify the mode	l(s) to which the inf	formation r	relates to:	If function includes heating: Indicat	e the heating s	eason the
Indoor unit model name	SRK20ZJ	X-S+SRK2	25ZJX-Sx2	information relates to. Indicated va	lues should rela	ate to one
Outdoor unit model name	SCM71ZJ	J-S1		heating season at a time. Include at	t least the heating	ng season 'Averag
Eunction(indicate if present)				Average(mandatory)	Vac	
cooling	Vos			Warmer(if designated)	No	
heating	Yes			Colder(if designated)	No	
	100				110	
Item	symbol	value	unit	Item	symbol	value class
Design load			_	Seasonal efficiency and energy eff	iciency class	
cooling	Pdesignc	7.10	kW	cooling	SEER	6.09 A+
heating / Average	Pdesignh	7.30	kW	heating / Average	SCOP/A	3.81 A
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	
						unit
Declared capacity at outdoor te	mperature I design	h — — — — —	1	Back up heating capacity at outdoo	or temperature	Idesignh
heating / Average (-10°C)	Pan	5.98	KVV	heating / Average (-10°C)	elbu	1.32 KW
heating / Warmer (2°C)	Pan	-	KVV	heating / Warmer (2°C)	elbu	- KVV
neating / Colder (-22°C)	Pan	-	KVV	neating / Colder (-22°C)	eidu	- KVV
Declared conceity for cooling	+ :	07/40)%	0 and	Declared energy officiancy ratio at		atura 07/40\°0 an
Declared capacity for cooling, a	t indoor temperatur	e 27(19) (	c and	Declared energy efficiency ratio, at	indoor temper	ature 27(19) C and
	Pde	7.40			FEDd	2.95
Ti=20°C	Fuc	7.10		Ti-20°C	EERu	3.85
] = 30 C	Pac	5.29	KVV	1]=30 C	EERO	5.55
Ti=20°C	Puc	3.30	KVV LAA	TI-20°C	EERU	8.05
11-20 0	Puc	4.31	r v v	1]-20 0	EEKU	9.35
Declared capacity for booting /		tindoor	1	Declared coefficient of performance	o / Avoraça ar	eon at indeer
temperature 20°C and outdoor	average season, at	ιπαθοΓ		Itemperature 20°C and outdoor tom	e / Average sea	ason, at muoor
		6.60		Ti=-7°C		2.45
Ti=2°C	Full Ddb	0.02	kW	Ti=2°C	COPU	2.45
Ti=7°C	Ddb	3.95	LW	Ti=7℃	COP4	3.99
Ti=12°C	Pull	2.49		Ti=12°C	COPd	4.5/
Ti-bivalant tomporatura	Edb	2.63		Ti-bivalant tomporatura	COPd	5.58
	Pull	6.62	KVV LAA	Ti-phyaient temperature	COPd	2.45
	Pull	4.90	KVV		COPu	1.80
Declared capacity for heating /	Warmer season at	indoor		Declared coefficient of performance	o / Warmer sea	son at indoor
temperature 20°C and outdoor	remnerature Ti	inuooi		temperature 20°C and outdoor tem	nerature Ti	13011, at 110001
Ti=2°C	Pdh	-	1kW	Ti=2°C	COPd	<b></b> _
Ti=7°C	Pdb			Ti=7°C	COPd	
$T_{i=12^{\circ}C}$	Pdb			Ti=12°C	COPd	
Ti=hivalent temperature	Pdb			Ti=bivalent temperature	COPd	
	Pdh	-		Ti=operating limit	COPd	
	1 011	-	K V V		0010	
Declared capacity for heating /	Colder season, at i	ndoor		Declared coefficient of performance	e / Colder seas	on at indoor
temperature 20°C and outdoor	emperature Ti	10001		temperature 20°C and outdoor tem	perature Ti	
Ti=-7°C	Pdh	-	1kW	Ti=-7°C	COPd	
Ti=2°C	Pdh		kW	Ti=2°C	COPd	
Ti=7°C	Pdh	-	kW	Ti=7°C	COPd	
Ti=12°C	Pdh		kW	Ti=12°C	COPd	
Ti=bivalent temperature	Pdh		kW	Ti=bivalent temperature	COPd	
Ti=operating limit	Pdh		kW	Ti=operating limit	COPd	
Ti=-15°C	Pdh	-	kW	Ti=-15°C	COPd	
1 10 0	1 011			1 100	0014	
Bivalent temperature				Operating limit temperature		
heating / Average	Tbiv	-7	l℃	heating / Average	Tol	-15 °℃
heating / Warmer	Tbiv	-	°c ∣	heating / Warmer	Tol	- °C
heating / Colder	Tbiv	-	°c ∣	heating / Colder	Tol	- °C
Cycling interval capacity				Cycling interval efficiency		
for cooling	Pcycc	-	kW	for cooling	EERcyc	
for heating	Pcych	-	kW	for heating	COPcyc	
Degradation coefficient			_	Degradation coefficient		
cooling	Cdc	0.25	-	heating	Cdh	0.25 -
Electric power input in power m	odes other than 'ac	tive mode	. I	Annual electricity consumption	6	
oπ mode	Poff	15	IVV	cooling	Qce	409 kWh/a
Istandby mode	Psb	15	VV	neating / Average	Qhe	2682 kWh/a
thermostat-off mode	Pto	40	W	heating / Warmer	Qhe	- kWh/a
crankcase heater mode	Pck	0	VV	Ineating / colder	Qhe	l - kWh/a
				Others its sec		
Capacity control(indicate one o	three options)			Other items	1	
				Sound power level(indoor)	Lwa	55 dB(A)
Course 1				Sound power level(outdoor)	LWa	65 (A)
Tixed	No			Giobal warming potential	GWP	1975 kgCO2
staged	No			Rated air flow(indoor)	-	750 m3/h
variable	Yes			Rated air flow(outdoor)	-	3360 m3/h
	N	al a al al	af the	where the state of the second state of the sec	atativa.	
Contact details for obtaining		u address	of the man	UNACTOR OF OF ITS AUTHORISED REPRESE	entative.	
				NOFE, LID.		
[	th Floor Internation	al Ruilding	ne 71 Kina	way London WC2R CET United Kin	nadom	
			95 / 1 111193	Sinay, Eonaon, WOZD 001 Onited Ki	90011	

Information to identify the mode	(s) to which the in	formation relates	o: I If function includes heating:	Indicate the heating season the
Indoor unit model name	SRK20Z	IX-S × 4	information relates to. Indica	ated values should relate to one
Outdoor unit model name	SCM71Z.	J-S1	heating season at a time. Inc	clude at least the heating season 'Average'.
Function(indicate if present)			Average(mandatory)	Yes
cooling	Yes		Warmer(if designated)	No
neating	Yes		Colder(If designated)	NO
ltem	symbol	value unit	Item	symbol value class
Design load	Symbol	value utili	Seasonal efficiency and ene	ergy efficiency class
cooling	Pdesignc	7.10 kW	cooling	SEER 6.41 A++
heating / Average	Pdesignh	7.30 kW	heating / Average	SCOP/A 3.81 A
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C
-				unit
Declared capacity at outdoor te	mperature Tdesign	<u>h</u>	Back up heating capacity at	outdoor temperature Tdesignh
heating / Average (-10°C)	Pdh	5.98 kW	heating / Average (-10°C)	elbu 1.32 kW
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu - kW
Declared and site for a difference		07(10) <sup>0</sup> 0	Declaration	-1
Declared capacity for cooling, a	t indoor temperatui	re 27(19)°C and	Declared energy efficiency r	atio, at indoor temperature 27(19)°C and
	Ddo			
Ti=20°C	Puc	7.10 KVV	1]=35 C	EERU <u>4.14</u> -
Ti=25°C	Puc	5.29 KVV	1]=30 C	EERU 5.94 -
Ti=20°C	Fuc	3.30 KVV	11J-25 C	EERU 8.28 -
1]-200	Puc	4.31 KVV		EERU   10.19  -
Declared capacity for beating /	Average season of	tindoor	Declared coefficient of porfo	rmance / Average season, at indoor
temperature 20°C and outdoor t	emperature Ti		temperature 20°C and outdo	nor temperature Ti
Ti=-7°C	Pdh	6.62 kW		COPd 245
Ti=2°C	Pdh	3 95 kW/	Ti=2°C	
Ti=7°C	Pdh	2 40 1/1/	Ti=7°C	
Ti=12°C	Pdh	2.75 kW	Ti=12°C	COPd 558
Ti=bivalent temperature	Pdh	2.03 kW	Ti=bivalent temperature	COPd 3.56
Ti=operating limit	Pdb	4.00 kW		COPd 190
	1 011	4.30		0014 1.00
Declared capacity for heating /	Narmer season at	indoor	Declared coefficient of perfo	rmance / Warmer season, at indoor
temperature 20°C and outdoor t	emperature Ti		temperature 20°C and outdo	or temperature Ti
Ti=2°C	Pdh	- kW	Ti=2°C	COPd
Ti=7°C	Pdh	- kW	Ti=7°C	COPd -
Ti=12°C	Pdh	- kW	Ti=12°C	COPd -
Ti=bivalent temperature	Pdh	- kW	Ti=bivalent temperature	COPd -
Ti=operating limit	Pdh	- kW	Ti=operating limit	COPd -
			ij oporanig mini	00.0
Declared capacity for heating /	Colder season, at i	ndoor	Declared coefficient of perfo	rmance / Colder season, at indoor
temperature 20°C and outdoor t	emperature Ti		temperature 20°C and outdo	oor temperature Ti
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd
Tj=2°C	Pdh	- kW	Tj=2°C	COPd
Tj=7°C	Pdh	- kW	Tj=7°C	COPd
Tj=12°C	Pdh	- kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd
Tj=-15℃	Pdh	- kW	Tj=-15℃	COPd
		· · ·		
Bivalent temperature			Operating limit temperature	
heating / Average	Tbiv	_7 °C	heating / Average	Tol <b>15</b> ℃
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv	- °C	heating / Colder	Tol - C
Cycling interval capacity	D -		Cycling interval efficiency	
for cooling	Pcycc	- KVV	for cooling	EERCyc
for neating	Pcych	- KVV	for heating	COPCyc   -  -
Degradation coefficient			Degradation coefficient	
	Cdc	0.25	beating	Cdb 0.25
cooling	Cuc	0.25	Tieatilig	Cuii 0.25 -
Electric power input in power m	odes other than 'ar	tive mode'	Annual electricity consumpti	on
off mode	Poff	15 W	looling	Oce 388 kWh/a
standby mode	Psh	15 W	heating / Average	Qhe 2682 kWh/a
thermostat-off mode	Pto	40 W	heating / Warmer	Qhe - kWh/a
crankcase heater mode	, 10	<b>0</b> W	heating / colder	Ohe - kWh/a
	Pck			
	Pck	0 100		
Capacity control(indicate one of	Pck three options)	0 100	Other items	
Capacity control(indicate one of	Pck Three options)	0	Other items Sound power level(indoor)	Lwa <b>53</b> dB(A)
Capacity control(indicate one of	Pck		Other items Sound power level(indoor) Sound power level(outdoor)	Lwa <b>53</b> dB(A) Lwa <b>65</b> dB(A)
Capacity control(indicate one of fixed	Pck Three options)		Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Lwa <b>53</b> dB(A) Lwa <b>65</b> dB(A) GWP <b>1975</b> kgCO2eq.
Capacity control(indicate one of fixed staged	Pck three options)		Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	Lwa 53 dB(A) Lwa 65 dB(A) GWP 1975 kgCO2eq. - 690 m3/h
Capacity control(indicate one of fixed staged variable	Pck Three options)		Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa 53 dB(A) Lwa 65 dB(A) GWP 1975 kgCO2eq. - 690 m3/h - 3360 m3/h
Capacity control(indicate one of fixed staged variable	Three options)		Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa 53 dB(A) Lwa 65 dB(A) GWP 1975 kgCO2eq. - 690 m3/h - 3360 m3/h
Capacity control(indicate one of fixed staged variable Contact details for obtaining	Pck Three options) No Yes Name and	d address of the	Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa 53 dB(A) Lwa 65 dB(A) GWP 1975 kgCO2eq. - 690 m3/h - 3360 m3/h
Capacity control(indicate one of fixed staged variable Contact details for obtaining more information	Pck three options) No Yes Name and 1TSUBISHI HEAV	d address of the Y INDUSTRIES	Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) nanufacturer or of its authorised r UROPE, LTD.	Lwa 53 dB(A) Lwa 65 dB(A) GWP 1975 - 690 m3/h - 3360 m3/h
Capacity control(indicate one of fixed staged variable Contact details for obtaining more information	Pck three options) No Yes Name and 1TSUBISHI HEAV JR-CONDITIONING	d address of the Y INDUSTRIES G DIVISION	Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) nanufacturer or of its authorised r UROPE, LTD.	Lwa 53 dB(A) Lwa 65 dB(A) GWP 1975 kgCO2eq. - 690 m3/h - 3360 m3/h
Capacity control(indicate one of fixed staged variable Contact details for obtaining more information A 4	Pck three options) No Yes Name and ITSUBISHI HEAV JR-CONDITIONIN th Floor Internation	d address of the Y INDUSTRIES G DIVISION nal Buildings 71 I	Cother items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) manufacturer or of its authorised r UROPE, LTD. ngsway, London, WC2B 6ST Un	Lwa 53 Lwa 65 GWP 1975 - 690 m3/h - 3360 w3/h tepresentative.

Information to identify the mode	l(s) to which the infor	mation	relates to:	If function includes heating. Indicate	the heating s	eason the	
Indoor unit model name	SRK35ZJ-S	×2		information relates to. Indicated value	es should rela	ate to one	
Outdoor unit model name	SCM71ZJ-S	51		heating season at a time. Include at le	east the heati	ng season	'Average'.
				-		-	
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
neating	Yes			Colder(II designated)	NO		
Item	symbol va	alue	unit	Item	symbol	value	class
Design load	Symbol Ve	liuc	unit	Seasonal efficiency and energy effici	encv class	value	01033
cooling	Pdesignc	7.1	]kW	cooling	SEER	5.67	A+
heating / Average	Pdesignh	7.4	kW	heating / Average	SCOP/A	3.80	A
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
De alema de anna aite at a stala an ta	The start			Dealers has the second site of a state of		T d a si ava la	unit
Declared capacity at outdoor te	mperature i designn	<u> </u>		Back up neating capacity at outdoor	temperature		
heating / Warmar (2°C)	Pull Pdb	6.83		heating / Average (-10 C)	elbu	0.57	
heating / Colder (-22°C)	Pdh	-		heating / Colder (-22°C)	elbu		
	1 011				cibu		
Declared capacity for cooling, a	t indoor temperature	27(19)°	C and	Declared energy efficiency ratio, at in	ndoor tempera	ature 27(19	9)°C and
outdoor temperature Tj	· · · · · •	( - )		outdoor temperature Tj			-,
Tj=35°C	Pdc	7.10	kW	Tj=35°C	EERd	2.91	]-
Tj=30°C	Pdc	5.26	kW	Tj=30°C	EERd	4.71	-
Tj=25°C	Pdc	3.36	kW	Tj=25°C	EERd	8.65	<u> </u> -
Ij=20°C	Pdc	4.14	kW	Ij=20°C	EERd	9.13	-
Declared capacity for booting /	Average season of in	door		Declared coefficient of porformance		eon at inc	loor
temperature 20°C and outdoor	average season, at In temperature Ti	IUUUI		temperature 20°C and outdoor temperature	Average sea	aoui, at inc	1001
Ti=-7°C	Pdh	6.65	1 <sub>kW</sub>	Ti=-7°C	COPd	2 21	7-
Ti=2°C	Pdh	3.86	kw	Ti=2°C	COPd	4.19	1_
Tj=7°C	Pdh	3.04	kw	Tj=7℃	COPd	4.64	1-
Tj=12℃	Pdh	3.58	kW	Tj=12°C	COPd	5.35	1-
Tj=bivalent temperature	Pdh	6.65	kW	Tj=bivalent temperature	COPd	2.21	1-
Tj=operating limit	Pdh	7.12	kW	Tj=operating limit	COPd	1.99	1-
Declared capacity for heating /	Warmer season, at in	door		Declared coefficient of performance	Warmer sea	son, at ind	loor
temperature 20°C and outdoor	emperature I			temperature 20°C and outdoor tempe	erature Ij		7
IJ=2 C	Pan	-		]=2 C	COPd		-
Ti=12°C	Pull Pdb	-		Ti=12°C	COPd		-
Ti=bivalent temperature	Pdh	-		Ti=bivalent temperature	COPd		-E
Ti=operating limit	Pdh	-	kW	Ti=operating limit	COPd	-	
				ij oporating initi	00.4		1
Declared capacity for heating /	Colder season, at ind	oor		Declared coefficient of performance	Colder seas	on, at indo	or
temperature 20°C and outdoor	emperature Tj		_	temperature 20°C and outdoor temperature	erature Tj		_
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	]-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
IJ=12℃	Pdh	-	KVV	Ij=12°C	COPd	-	-
I J=Divalent temperature	Pan	-		Timeserating limit	COPd	-	-
Tj=operating limit	Pan Bdb	-		Ti= 15°C	COPd		-
1]=-15 C	Full	-	KVV	IJ=-15 C	COFU	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-7	]℃	heating / Average	Tol	-15	l℃
heating / Warmer	Tbiv	-	]°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity			ך אאר	Cycling interval efficiency			
for cooling	Pcycc	-	KVV	for cooling	EERCyc	-	-
	PCycli	-	KVV	Ior nearing	COPCyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	1- I	heating	Cdh	0.25	7-
		0.20				0.20	
Electric power input in power m	odes other than 'activ	e mode	e'	Annual electricity consumption			
off mode	Poff	18	W	cooling	Qce	439	kWh/a
standby mode	Psb	18	W	heating / Average	Qhe	2726	kWh/a
thermostat-off mode	Pto	50	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(Indicate one o	(three options)			Other Items	Luco	50	
				Sound power level(autdoor)	Lwa	58	
fixed	No			Global warming potential	CWP	65	
staged	NO			Rated air flow(indoor)		606	
variable	Yes			Rated air flow(outdoor)	-	3360	m3/h
	103					3000	1
Contact details for obtaining	Name and a	address	of the man	ufacturer or of its authorised represent	ative.		
more information	<b>JITSUBISHI HEAVY</b>	INDUST	FRIES EUR	COPE, LTD.			
	AIR-CONDITIONING	DIVISIC	DN 74 H				
	In ⊢loor International	Buildin	gs /1 Kings	sway, London, WC2B 6ST United King	aom		

Information to identify the mod	el(s) to which the info	ormation relates to:	If function includes heating: Indicat	e the heating se	eason the
Indoor unit model name	SRK20ZJ-	S+SRK25ZJ-Sx2	information relates to. Indicated val	lues should rela	te to one
	SCM71ZJ-	·S1	neating season at a time. Include at	t least the heatir	ig season 'Average'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	No	
heating	Yes		Colder(if designated)	No	
Item	symbol	value unit	Item	symbol	value class
Design load	Symbol	value unit	Seasonal efficiency and energy effi	iciency class	
cooling	Pdesignc	7.1 kW	cooling	SEER	5.81 A+
heating / Average	Pdesignh	7.4 kW	heating / Average	SCOP/A	3.80 A
heating / Warmer	Pdesignh		heating / Warmer	SCOP/W	
reating / Colder	Paesignn	- KVV	nealing / Colder	500P/C	unit
Declared capacity at outdoor te	emperature Tdesignh		Back up heating capacity at outdoo	or temperature	rdesignh
heating / Average (-10°C)	Pdh	6.83 kW	heating / Average (-10°C)	elbu	0.57 kW
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	- kW
heating / Colder (-22°C)	Pdh	-  KVV	heating / Colder (-22°C)	elbu	- KVV
Declared capacity for cooling,	at indoor temperature	e 27(19)°C and	Declared energy efficiency ratio, at	indoor tempera	ature 27(19)°C and
outdoor temperature Tj			outdoor temperature Tj		
Tj=35°C	Pdc	7.10 kW	Tj=35°C	EERd	3.73 -
Tj=30°C	Pdc	5.26 kW	Tj=30°C	EERd	4.71 -
Ti=20°C	Pac Pac	3.36 KVV	]=25°C	EERO	8.65
1, 200	i ut	4.14 NVV	<u> </u>		3.13
Declared capacity for heating /	Average season, at	indoor	Declared coefficient of performance	e / Average sea	son, at indoor
temperature 20°C and outdoor	temperature Tj	0.07	temperature 20°C and outdoor tem	perature Tj	
1]=-/ C  Ti=2°C	Pdh Pdh	6.65 KW	]=-/ C   Ti=2°C	COPd	2.21
Ti=7°C	Pdh	3.86 KW	Ti=7°C	COPd	4.19
Ti=12°C	Pdh	3.58 kW	Ti=12°C	COPd	5.35 -
Tj=bivalent temperature	Pdh	6.65 kW	Tj=bivalent temperature	COPd	2.21 -
Tj=operating limit	Pdh	7.12 kW	Tj=operating limit	COPd	1.99 -
Declared consoits for besting /	Warmar accord at i	ndoor	Declared coefficient of performance	o / Marmar aga	aan at indoor
temperature 20°C and outdoor	temperature Ti	110001	temperature 20°C and outdoor tem	e / Warner sea perature Ti	son, at muoor
Tj=2°C	Pdh [	- kW	Tj=2°C	COPd	
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
	Pan	- KVV		COPa	
Declared capacity for heating /	Colder season, at in	door	Declared coefficient of performance	e / Colder seaso	on, at indoor
temperature 20°C and outdoor	temperature Tj		temperature 20°C and outdoor tem	perature Tj	
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd	
] = 2 °C	Pan   Pah	- KVV		COPd	
Ti=12°C	Pdh	- kW	Ti=12°C	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	
Tj=-15°C	Pdh	- kW	Tj=-15°C	COPd	
Rivalent temperature			Operating limit temperature		
heating / Average	Tbiv [	-7 °C	heating / Average	Tol	-15 °C
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol	- °C
heating / Colder	Tbiv	- °C	heating / Colder	Tol	- °C
for cooling	Pevec [	- kW	for cooling	FERcyc	
for heating	Pcych	- kW	for heating	COPcyc	
					I
Degradation coefficient	a. [		Degradation coefficient		
cooling	Cdc	0.25 -	heating	Cdh	0.25 -
Electric power input in power n	nodes other than 'act	ive mode'	Annual electricity consumption		
off mode	Poff	19 W	cooling	Qce	429 kWh/a
standby mode	Psb	<b>19</b> W	heating / Average	Qhe	2726 kWh/a
thermostat-off mode	Pto	52 W	heating / Warmer	Qhe	- kWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe	- kWh/a
Capacity control/indicate one of	of three options)		Other items		
			Sound power level(indoor)	Lwa	50 dB(A)
	_		Sound power level (outdoor)	Lwa	65 dB(A)
fixed	No		Global warming potential	GWP	1975 kgCO2eq.
staged	No		Rated air flow(indoor)	-	474 m3/h
variable	Yes		Rated air flow(outdoor)	-	3360 m3/h
Contact details for obtaining	Name and	address of the mar	nufacturer or of its authorised represe	entative.	
more information	MITSUBISHI HEAVY	INDUSTRIES EUF	ROPE, LTD.		
	AIR-CONDITIONING		and and an WOOD COT IN A STO		
	411 Floor Internationa	ai Buildings /1 King	sway, London, WC2B 6ST United Kir	ngaom	

Information to identify the model(s	) to which the information relates to	Ilf function includes heating: Indicate	e the heating season the
Indoor unit model name	SRK20ZJ-Sx4	information relates to. Indicated val	ues should relate to one
Outdoor unit model name	SCM71ZJ-S1	heating season at a time. Include at	least the heating season 'Average'.
Eupotion/indianta if procent)			No
	Vac	Warmer(if designated)	Yes No.
heating	Yes	Colder(if designated)	No
	103		110
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy effi	ciency class
cooling	Pdesignc 7.10 kW	cooling	SEER 5.94 A+
heating / Average	Pdesignin 7.40 KVV	heating / Average	SCOP/A 3.80 A
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C -
	i debigini	Including / Colder	unit
Declared capacity at outdoor temp	erature Tdesignh	Back up heating capacity at outdoo	r temperature Tdesignh
heating / Average (-10°C)	Pdh <b>6.83</b> kW	heating / Average (-10°C)	elbu 0.57375 kW
heating / Warmer (2°C)	Pdh - kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh – kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling, at in	door tomporature 27(10)°C and	Declarad anargy officianay ratio at	indeer temperature 27(10)°C and
outdoor temperature Ti	idoor temperature 27(19) C and	outdoor temperature Ti	indoor temperature 27(19) C and
Ti=35°C	Pdc 7.10 kW	Ti=35℃	EERd 3.94 -
Tj=30°C	Pdc 5.26 kW	Tj=30°C	EERd 5.03 -
Tj=25°C	Pdc 3.36 kW	Tj=25°C	EERd 8.65 -
Tj=20°C	Pdc 4.14 kW	Tj=20°C	EERd 9.27 -
		Dedaged as affect of the	
Deciared capacity for heating / Ave	erage season, at indoor	temperature 20°C and outdoor temp	e / Average season, at indoor
Ti=-7°C	Pdh 665 kW	Ti=-7℃	COPd 221
Tj=2°C	Pdh <b>3.86</b> kW	Tj=2°C	COPd 4.19 -
Tj=7°C	Pdh <b>3.04</b> kW	Tj=7℃	COPd <b>4.64</b> -
Tj=12°C	Pdh 3.58 kW	Tj=12°C	COPd 5.35 -
Tj=bivalent temperature	Pdh <b>6.65</b> kW	Tj=bivalent temperature	COPd 2.21 -
Tj=operating limit	Pdh 7.12 kW	Tj=operating limit	COPd 1.99 -
Declared conceits for beating (10/a	ware encours of indeer	Declared coefficient of performance	
Itemperature 20°C and outdoor tem	nner season, at muoor	temperature 20°C and outdoor temp	perature Ti
Ti=2°C	Pdh - kW	Ti=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7℃	COPd
Tj=12℃	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Declared consolt for booting (Co	Hereen at indeer	Declared coefficient of performance	
temperature 20°C and outdoor tem	ider season, at indoor	temperature 20°C and outdoor temp	perature Ti
Ti=-7°C	Pdh - kW	Ti=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2℃	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Ij=-15°C	Pdh - kW	Ij=-15°C	COPd
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiv <b>-7</b> °C	heating / Average	Tol <b>-15</b> ℃
heating / Warmer	Tbiv - °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Cycling interval capacity		for cooling	EEPovo
for heating	Poyce - KVV	for heating	
		lor heating	
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power mode	es otner than 'active mode'	Annual electricity consumption	
Istandby mode	Psh 40 W	beating / Average	Obe 2726 W//b/o
thermostat-off mode	Pto <b>52</b> W	heating / Warmer	Ohe - kWh/a
crankcase heater mode	Pck 0 W	heating / colder	Qhe - kWh/a
	· · · · · · · · · · · · · · · · · · ·		
Capacity control(indicate one of th	ree options)	Other items	
		Sound power level(indoor)	Lwa <b>46</b> dB(A)
fixed		Clobal warriag actactic	LWA 65 dB(A)
Inted	NO		GVVP 1975 KgCU2eq.
variable	Yes	Bated air flow(outdoor)	- 468 III3/N - 3360 m3/h
	163		3300 110/11
Contact details for obtaining	Name and address of the ma	anufacturer or of its authorised represer	ntative.
more information MIT	SUBISHI HEAVY INDUSTRIES EL	IROPE, LTD.	
AIR	-CONDITIONING DIVISION	asway London WCOD COT Listed Kin	adom
<sup> 4th</sup>	noor international buildings / I Kin	ysway, Lunuun, WCZD 051 United Kin	iguoiti

### (6) Model SCM80ZJ-S1

Information to identify the model	(s) to which the info	ormation relates to	: If function includes heating: Indica	te the heating season the	
Outdoor unit model name	SCM80ZJ	-S1	heating season at a time. Include a	It least the heating season 'Ave	rage'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	No	
heating	Yes		Colder(if designated)	No	
Item	symbol	value unit	Item	symbol value clas	SS
cooling	Pdesignc	8.00 kW	cooling	SEER 5.74	A+
heating / Average	Pdesignh	7.50 kW	heating / Average	SCOP/A 3.81	A
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W -	-
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C -	-
Declared especity at outdoor ter	noraturo Tdosiant		Rack up beating especity at outdo	unit	t
heating / Average (-10°C)	Pdh	598 kW	heating / Average (-10°C)	elbu <b>1 52</b> kW	1
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu - kW	
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu - kW	
_					
Declared capacity for cooling, at	indoor temperature	e 27(19)°C and	Declared energy efficiency ratio, a	t indoor temperature 27(19)°C	and
Ti=35°C	Pdc [	8 00 kW	Ti=35°C	FFRd 323-	
Ti=30°C	Pdc	5.94 kW	Ti=30°C	EERd 5.01 -	
Tj=25°C	Pdc	3.70 kW	Tj=25°C	EERd 7.2 -	
Tj=20°C	Pdc	4.31 kW	Tj=20°C	EERd 9.51 -	
Declared capacity for heating / A	verage season, at	Indoor	Declared coefficient of performance	e / Average season, at indoor	
$T_{i=-7^{\circ}C}$	Pdb [	6.62 kW	$T_{i=-7^{\circ}C}$		
Ti=2°C	Pdh	3.95 kW	Ti=2°C	COPd 3 99 -	
Ti=7°C	Pdh	2.57 kW	Tj=7°C	COPd 4.57 -	
Tj=12°C	Pdh	2.63 kW	Tj=12°C	COPd <b>5.58</b> -	
Tj=bivalent temperature	Pdh	6.62 kW	Tj=bivalent temperature	COPd <b>2.45</b> -	
Tj=operating limit	Pdh	4.90 kW	Tj=operating limit	COPd <b>1.80</b> -	
Declared capacity for heating / v	varmer season, at a	Indoor	Lectared coefficient of performance	e / Warmer season, at Indoor	
Ti=2°C	Pdh	- kW	Ti=2°C	COPd	
Ti=7°C	Pdh	- kW	Ti=7°C	COPd	
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	
Declared consoits for besting / (	alder assess at in	door	Declared coefficient of performance	o / Colder appage at indeer	
temperature 20°C and outdoor te	moerature Ti	10001	temperature 20°C and outdoor tem	perature Ti	
Ti=-7°C	Pdh	- kW	Tj=-7℃	COPd -	
Tj=2°C	Pdh	- kW	Tj=2℃	COPd	
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
I j=operating limit	Pdh .	- KW			
IJ=-15 C	Pan	- KVV	[]=-15 C	COPd	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv [	-7 °C	heating / Average	Tol -15 °C	
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol - °C	
heating / Colder	Tbiv	- °C	heating / Colder	Tol - C	
Cycling interval capacity			Cycling interval efficiency		
for cooling	Pcvcc [	- kW	for cooling	EERcvc	
for heating	Pcych	- kW	for heating	COPcyc	
		I			
Degradation coefficient	ľ		Degradation coefficient		
cooling	Cdc	0.25 -	heating	Cdh 0.25 -	
Electric power input in power mo	des other than 'ac	tive mode'	Annual electricity consumption		
off mode	Poff	14 W	cooling	Qce 489 kW	h/a
standby mode	Psb	14 W	heating / Average	Qhe 2755 kWI	h/a
thermostat-off mode	Pto	35 W	heating / Warmer	Qhe - kWl	h/a
crankcase heater mode	Pck	<b>0</b> W	heating / colder	Qhe - kWi	h/a
Consolity opportunities to a for	throp ontion - )		Other item:		
Capacity control(indicate one of	unee options)		Sound power level(indoor)		
			Sound power level(uitdoor)		(A)
fixed	No		Global warming potential	GWP 1975 kgC	O2ea.
staged	No		Rated air flow(indoor)	- 810 m3/	/h
variable	Yes		Rated air flow(outdoor)	- <b>3360</b> m3/	/h
Contact details for obtaining	Name and	I address of the ma	anutacturer or of its authorised represe	entative.	
	IR-CONDITIONING	G DIVISION			
41	h Floor Internation	al Buildings 71 Kir	igsway, London, WC2B 6ST United Ki	ngdom	

Information to identify the mode	I(s) to which the information relates to:	If function includes heating: Indicat	te the heating season the
Indoor unit model name	SRK20ZJX-S+SRK25ZJX-S+SRK35ZJX-S	information relates to. Indicated va	lues should relate to one
Outdoor unit model name	SCM80ZJ-S1	heating season at a time. Include at	t least the heating season 'Average'.
Function(indicate if present)		Average(mandatory)	Yes
beating	Yes	Colder(if designated)	NO
	Tes		NO
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy eff	iciency class
cooling	Pdesignc 8.00 kW	cooling	SEER 5.95 A+
heating / Average	Pdesignh 7.50 kW	heating / Average	SCOP/A 3.81 A
heating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
-			unit
Declared capacity at outdoor ter	mperature I designh	Back up heating capacity at outdoo	or temperature I designh
heating / Average (-10°C)	Pan 5.98 KVV	neating / Average (-10°C)	elbu <u>1.52</u> KVV
heating / Warmer (2 C)	Pan - KW	heating / Warmer (2 C)	elbu - KVV
	Full - KW	Ineating / Colder (-22 C)	
Declared capacity for cooling a	t indoor temperature 27(19)°C and	Declared energy efficiency ratio at	t indoor temperature 27(19)°C and
outdoor temperature Ti		outdoor temperature Ti	
Tj=35℃	Pdc 8.00 kW	Tj=35℃	EERd 3.52 -
Tj=30°C	Pdc 5.94 kW	Tj=30°C	EERd 5.12 -
Tj=25°C	Pdc 3.70 kW	Tj=25°C	EERd 7.65 -
Tj=20°C	Pdc 4.31 kW	Tj=20°C	EERd 9.85 -
Declared capacity for heating / /	Average season, at indoor	Declared coefficient of performance	e / Average season, at indoor
temperature 20°C and outdoor t	emperature Tj	temperature 20°C and outdoor tem	perature Tj
IJ=-/°C	Pdh 6.62 kW		COPd 2.45 -
1]=2°C	Pan 3.95 KW	I J=2 C   T:=7°0	
IJ=7°C			
Ti=hivolopt to magnetic	Pan <b>2.63</b> KVV	Ti=hivelent termenet	
	Pan 6.62 KVV		
	Pan <b>4.90</b> KW		COPa   1.80  -
Declared capacity for heating / )	Narmer season, at indoor	Declared coefficient of performance	e / Warmer season, at indoor
temperature 20°C and outdoor t	emperature Ti	temperature 20°C and outdoor tem	perature Ti
Ti=2°C	Pdh - kW	Ti=2°C	COPd
Ti=7℃	Pdh - kW	Ti=7°C	COPd -
Ti=12°C	Pdh - kW	Ti=12°C	COPd -
Ti=bivalent temperature	Pdh - kW	Ti=bivalent temperature	COPd -
Ti=operating limit	Pdh - kW	Ti=operating limit	COPd -
·] ·p · · · · · · · · · · · · · · · · ·		[]] [] [] [] [] [] [] [] [] [] [] [] []	
Declared capacity for heating / (	Colder season, at indoor	Declared coefficient of performance	e / Colder season, at indoor
temperature 20°C and outdoor t	emperature Tj	temperature 20°C and outdoor tem	perature Tj
Tj=-7°C	Pdh kW	Tj=-7°C	COPd
Tj=2°C	PdhkW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	PdhkW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15℃	Pdh - kW	[Tj=-15°C	COPd
Rivelant temperature		Operating limit temperature	
heating / Average	Thiv <b>7</b> °C	heating / Average	
heating / Warmer		heating / Warmer	
heating / Colder		heating / Colder	
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power m	adas other than lastics model		
loff mode			
standby mode		heating / Average	
thermostat-off mode		heating / Warmer	
crankcase heater mode		heating / warner	
Capacity control(indicate one of	three options)	Other items	
	,	Sound power level(indoor)	Lwa <b>58</b> dB(A)
		Sound power level(outdoor)	Lwa 66 dB(A)
fixed	No	Global warming potential	GWP 1975 kaCO2ea
staged	No	Rated air flow(indoor)	- <b>810</b> m3/h
variable	Yes	Rated air flow(outdoor)	- <b>3360</b> m3/h
Contact details for obtaining	Name and address of the mar	nufacturer or of its authorised represe	entative.
more information	IITSUBISHI HEAVY INDUSTRIES EUI	ROPE, LTD.	
A	IR-CONDITIONING DIVISION		
4	tn ⊢ioor International Buildings 71 King	sway, London, WC2B 6ST United Ki	ngaom

Information to identify the mode	el(s) to which the information relates to:	If function includes heating: Indicate	e the heating season the
Indoor unit model name	SRK20ZJX-S × 4	information relates to. Indicated val	lues should relate to one
Outdoor unit model name	SCM80ZJ-S1	heating season at a time. Include at	t least the heating season 'Average'.
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	No
heating	Yes	Colder(if designated)	No
H	averalized scalars and	He was	sumbal units date
Item	symbol value unit	Item	symbol value class
Design load	Pdosigno <b>9.00</b> k/M	Seasonal eniciency and energy eni	
booting / Average	Pdesignic 8.00 KW	boating / Avorago	SEER 6.29 A++
heating / Warmar	Pdesignh 7.50 KW	heating / Average	SCOP/M
heating / Colder	Pdesignh - kW	beating / Colder	
		Treating / Colder	
Declared capacity at outdoor te	mperature Tdesignh	Back up heating capacity at outdoo	or temperature Tdesignh
heating / Average (-10°C)	Pdh <b>598</b> kW	heating / Average (-10°C)	elbu <b>152</b> kW
heating / Warmer (2°C)	Pdh - kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling, a	at indoor temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Tj	,	outdoor temperature Tj	
Tj=35°C	Pdc 8.00 kW	Tj=35°C	EERd 3.8 -
Tj=30°C	Pdc 5.94 kW	Tj=30°C	EERd 5.50 -
Tj=25°C	Pdc 3.7 kW	Tj=25°C	EERd 8.15 -
Tj=20°C	Pdc 4.31 kW	Tj=20°C	EERd 10.19 -
Declared capacity for heating /	Average season, at indoor	Declared coefficient of performance	e / Average season, at indoor
temperature 20°C and outdoor	temperature Tj	temperature 20°C and outdoor tem	perature Tj
Tj=-7°C	Pdh 6.62 kW	Tj=-7°C	COPd <b>2.45</b>
Tj=2°C	Pdh <b>3.95</b> kW	Tj=2°C	COPd 3.99 -
] j=7°C	Pdh 2.57 kW	] = 7°C	COPd 4.57 -
Tj=12°C	Pdh <b>2.63</b> kW	Tj=12°C	COPd <b>5.58</b> -
Tj=bivalent temperature	Pdh <b>6.62</b> kW	Tj=bivalent temperature	COPd <b>2.45</b>
Tj=operating limit	Pdh <b>4.9</b> kW	Tj=operating limit	COPd 1.8 -
Declared capacity for heating /	Warmer season, at indoor	Declared coefficient of performance	e / Warmer season, at indoor
temperature 20°C and outdoor	temperature I j	temperature 20°C and outdoor tem	perature Ij
1J=2°C	Pdh - kW	] = 2°C	
	Pdh - kW		
]j=12°C	Pdh - kW	]]=12°C	COPd
I J=bivalent temperature	Pdh - kvv	I J=bivalent temperature	
I j=operating limit	Pdh - kW	I j=operating limit	COPd
Declared consolity for booting /	Calden assess at indeen	Declared coefficient of performance	o / Colden coccer, at indeen
Declared capacity for heating /	Colder season, at Indoor	Declared coefficient of performance	e / Colder season, at Indoor
Timperature 20°C and outdoor 1		temperature 20°C and outdoor tem	
Ti=2°C	Pull - KVV	] / C	
Ti-7°C	Pdh - KW	I  = 2 C	
Ti-12°C	Pdh kW	]=7 C	
Ti-hivalant tomporatura	Pdb kW	Ti-bivalant tomporatura	
	Pdb kW		
	Pdb kW		
IJ=-15 C	Pull - KVV	[]]=-15 C	COPu
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiy -7 °C	heating / Average	
heating / Warmer	Tbiy - °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv - °C	heating / Colder	
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
<u> </u>			
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power m	odes other than 'active mode'	Annual electricity consumption	
off mode	Poff 15 W	cooling	Qce 446 kWh/a
standby mode	Psb <b>15</b> W	heating / Average	Qhe 2755 kWh/a
thermostat-off mode	Pto <b>40</b> W	heating / Warmer	Qhe - kWh/a
crankcase heater mode	Pck 0 W	heating / colder	Qhe - kWh/a
-			
Capacity control(indicate one of	t three options)	Other items	
		Sound power level(indoor)	Lwa 53 dB(A)
		Sound power level(outdoor)	Lwa 66 dB(A)
fixed	No	Global warming potential	GWP <b>1975</b> kgCO2eq.
staged	No	Rated air flow(indoor)	- 690 m3/h
variable	Yes	Rated air flow(outdoor)	-   <b>3360</b>  m3/h
	him i ir an		
Contact details for obtaining	Name and address of the mai	nutacturer or of its authorised represe	entative.
Inore information		RUPE, LID.	
[]	Alth Eloor International Buildings 71 King	reway London WC2P 6ST United Vir	aadom
	ran noor memational bullulings / TKINg	Joway, London, WOZD 051 United Kir	iguoni

Information to identify the model(s) to	which the infor	rmation re	elates to:	If function includes heating: Indicate the	heating s	eason the
Indoor unit model name	SRK35ZJ-S	S+SRK50	)ZJ-S	information relates to. Indicated values	should rela	ate to one
Outdoor unit model name	SCM80ZJ-S	S1		heating season at a time. Include at leas	t the heati	ng season 'Average'.
Eunction/indicate if present)				Average(mandaton()	Vaa	
cooling	Ves			Warmer(if designated)	No	
heating	Yes			Colder(if designated)	No	
Ŭ						
Item	symbol va	alue	unit	Item	symbol	value class
Design load	Ddooigno	7.5		Seasonal efficiency and energy efficien	cy class	
beating / Average	Pdesignic	7.5	kW	beating / Average	SCOP/A	3.00 A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	• -
						unit
Declared capacity at outdoor tempera	ture Tdesignh	0.00		Back up heating capacity at outdoor ter	nperature	
heating / Warmer (2°C)	Pdh	6.69	kW	heating / Warmer (2°C)	elbu	0.91 KW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- kW
Declared capacity for cooling, at indoo	or temperature	27(19)°C	and	Declared energy efficiency ratio, at indo	or temper	ature 27(19)°C and
outdoor temperature Tj			134/	outdoor temperature Tj		
I J=35°C		7.50	KVV	IJ=35°C	EERd	2.79
Ti=25°C	Pdc	3.52	kW	Ti=25°C	EERd	8.46
Tj=20°C	Pdc	4.19	kW	Tj=20°C	EERd	9.27 -
						0.21
Declared capacity for heating / Average	ge season, at ir	ndoor		Declared coefficient of performance / A	verage sea	ason, at indoor
Itemperature 20°C and outdoor temper	rature Tj			temperature 20°C and outdoor tempera	ture Tj	
I J=- / °C	Pan -	6.80	KVV	IJ=-7°C	COPd	2.29
Ti=7°C	Pdh	3.99	kW	Ti=7°C	COPd	4.12
Ti=12°C	Pdh	3.58	kW	Ti=12°C	COPd	5.35
Tj=bivalent temperature	Pdh	6.80	kW	Tj=bivalent temperature	COPd	2.29 -
Tj=operating limit	Pdh	6.50	kW	Tj=operating limit	COPd	2.14 -
temporature 20°C and outdoor tempor	er season, at in raturo Ti	laoor		tomporature 20°C and outdoor tompora	armer sea	ison, at indoor
Ti=2°C	Pdh	-	kW	Ti=2°C	COPd	<b></b>
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	
Declared capacity for beating / Colder	season at ind	loor		Declared coefficient of performance / C	oldor soos	on at indoor
temperature 20°C and outdoor temper	rature Ti	1001		temperature 20°C and outdoor tempera	ture Ti	on, at muoor
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	
Tj=12℃	Pdh	-	kW	Tj=12°C	COPd	
Ti=operating limit	Pan Pab	-		Ti=operating limit	COPd	
Ti=-15°C	Pdh	-	kW	Ti=-15°C	COPd	
	1 dil			1 100	001 0	
Bivalent temperature				Operating limit temperature		
heating / Average	Tbiv	-7	°C	heating / Average	Tol	-15 °C
heating / Warmer	I biv	-	°C	heating / Warmer		- °C
	TDIV	-	C	Treating / Colder	101	- 0
Cycling interval capacity				Cvcling interval efficiency		
for cooling	Pcycc	-	kW	for cooling	EERcyc	
for heating	Pcych	-	kW	for heating	COPcyc	
Degradation coefficient	Cdo 🔽	0.25		Degradation coefficient	Cdb	0.25
	Cuc	0.25	-	neating	Cull	0.25 -
Electric power input in power modes of	other than 'activ	ve mode'		Annual electricity consumption		
off mode	Poff	18	w	cooling	Qce	464 kWh/a
standby mode	Psb	18	W	heating / Average	Qhe	2803 kWh/a
thermostat-off mode	Pto	52	W	heating / Warmer	Qhe	- kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	- kWh/a
Capacity control/indicate one of three	options)			Other items		
	optiono)			Sound power level(indoor)	Lwa	61 dB(A)
				Sound power level(outdoor)	Lwa	66 dB(A)
fixed	No			Global warming potential	GWP	1975 kgCO2eq
staged	No			Rated air flow(indoor)	-	678 m3/h
variable	Yes			Rated air flow(outdoor)	-	3360 m3/h
Contact details for obtaining	Name and a	address	of the man	ufacturer or of its authorised representati	ve.	
more information MITSU	BISHI HEAVY	INDUST	RIES EUR	OPE, LTD.		
AIR-CC	ONDITIONING	DIVISIO	N			
4th Flo	or International	I Building	s 71 Kings	sway, London, WC2B 6ST United Kingdo	m	

Information to identify the mode	(s) to which the info	mation relates to:	If function includes heating. Indicate	e the heating season the	
Indoor unit model name	SRK20ZJ-S+SF	RK25ZJ-S+SRK35ZJ-S	information relates to. Indicated val	ues should relate to one	
Outdoor unit model name	SCM80ZJ-	S1	heating season at a time. Include at	least the heating season '/	Average'.
		-			-
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	No	
heating	Yes		Colder(if designated)	No	
Item	symbol y	alue unit	Item	symbol value	class
Design load	Symbol V		Seasonal efficiency and energy effi	ciency class	01035
cooling	Pdesignc	7.5 kW	cooling	SEER 5.76	A+
heating / Average	Pdesignh	7.6 kW	heating / Average	SCOP/A 3.80	A
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W -	-
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C -	-
					unit
Declared capacity at outdoor ter	nperature Tdesignh		Back up heating capacity at outdoo	r temperature Tdesignh	
heating / Average (-10°C)	Pan -	6.69 KVV	heating / Average (-10°C)	elbu 0.91	KVV
heating / Warmer (2°C)	Pan -	- KVV	heating / Warmer (2°C)	elbu -	KVV
Treating / Colder (-22 C)	Pull	- KVV	Treating / Colder (-22 C)	eibu -	KVV
Declared capacity for cooling as	indoor temperature	27(19)°C and	Declared energy efficiency ratio at	indoor temperature 27(10	)°C and
outdoor temperature Ti	indoor tomperature	27(10) 0 010	outdoor temperature Ti		) o una
Tj=35℃	Pdc	7.50 kW	Ti=35℃	EERd 3.52	-
Tj=30°C	Pdc	5.54 kW	Tj=30°C	EERd 4.74	-
Tj=25℃	Pdc	3.52 kW	Tj=25°C	EERd 8.46	-
Tj=20°C	Pdc	4.19 kW	Tj=20°C	EERd 9.27	-
Declared capacity for heating / A	verage season, at in	ndoor	Declared coefficient of performance	/ Average season, at inde	oor
temperature 20°C and outdoor t	emperature Tj	0.00	Itemperature 20°C and outdoor temp	perature Ij	
]]=-/ <sup>-</sup> C	Pdh	6.80 KW	]=-/°C   Ti=2°O		-
]=2°C	Pan _	3.99 KVV			-
	Pan _	3.04 KVV			-
Ti=hivelent terms and un	Pan -	3.58 KVV			-
I J=Divalent temperature	Pan -	6.80 KVV			-
I j=operating limit	Pan	6.50 KVV	I j=operating limit	COPa 2.14	-
Declared capacity for heating / \	Narmer season at ir	ndoor	Declared coefficient of performance	/ Warmer season at indo	or
temperature 20°C and outdoor t	emperature Ti		temperature 20°C and outdoor tem	perature Ti	
Ti=2°C	Pdh [	- kW	Ti=2°C	COPd -	-
Ti=7℃	Pdh	- kW	Ti=7°C	COPd -	-
Ti=12℃	Pdh	- kW	Ti=12℃	COPd -	-
Ti=bivalent temperature	Pdh	- kW	Ti=bivalent temperature	COPd -	-
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd -	-
	<b>_</b>				
Declared capacity for heating / 0	Colder season, at ind	loor	Declared coefficient of performance	/ Colder season, at indoo	or
temperature 20°C and outdoor t	emperature Tj		temperature 20°C and outdoor temp	perature Tj	
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd -	-
Tj=2°C	Pdh _	- kW	Tj=2°C	COPd -	-
Tj=7°C	Pdh _	- kW	Tj=7°C	COPd -	-
Tj=12°C	Pdh	- kW	Tj=12°C	COPd -	-
Ij=bivalent temperature	Pdh	- kW	Ij=bivalent temperature	COPd -	-
I j=operating limit	Pdh	- kW	I j=operating limit	COPd -	-
Ij=-15°C	Pdh	-  kW	[]	COPd -	-
Rivalent temperature			Operating limit temperature		
heating / Average	Thiv	-7 °C	heating / Average	Tol _15	°C
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol -	°C
heating / Colder	Tbiv	- <sup>0</sup> C	heating / Colder	Tol -	õ
		I		I	
Cycling interval capacity			Cycling interval efficiency		
for cooling	Pcycc	- kW	for cooling	EERcyc -	-
for heating	Pcych	-  kW	for heating	COPcyc -	-
Description exefficient			Degradation as officient		
	Cdc [	0.25	beating		_
cooling	Cuc	0.25	lieating	0.23	-
Electric power input in power me	odes other than 'activ	ve mode'	Annual electricity consumption		
off mode	Poff	20 W	cooling	Qce 456	kWh/a
standby mode	Psb –	20 W	heating / Average	Qhe 2803	kWh/a
thermostat-off mode	Pto	52 W	heating / Warmer	Qhe -	kWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe -	kWh/a
				· · · ·	
Capacity control(indicate one of	three options)		Other items		
			Sound power level(indoor)	Lwa 58	dB(A)
			Sound power level(outdoor)	Lwa 66	dB(A)
fixed	No		Giobal warming potential	GWP 1975	кgCO2eq.
staged	No		Rated air flow(indoor)	- 606	m3/h
variable	Yes		Rated air flow(outdoor)	- 3360	m3/h
Contact details for obtaining	Name and	address of the mor	ufacturer or of its authorised reproce	ntative	
more information	1ITSUBISHI HFAVY	INDUSTRIES FUE	ROPE. LTD.	10070.	
	IR-CONDITIONING	DIVISION			
4	th Floor International	l Buildings 71 Kina	sway, London, WC2B 6ST United Kir	igdom	
1		- 0			

Information to identify the model(s)	to which the informatio	n relates to:	If function includes heating: Indicate	the heating se	ason the
Indoor unit model name	SRK20ZJ-S x 4		information relates to. Indicated value	les should rela	te to one
Outdoor unit model name	SCM80ZJ-S1		heating season at a time. Include at	least the heatin	g season 'Average'.
Eunction(indicate if present)			Average(mandatory)	Ves	
cooling	Yes		Warmer(if designated)	No	
heating	Yes		Colder(if designated)	No	
Item	symbol value	unit	Item	symbol	value class
Cooling	Pdesignc 75	lkW	cooling	SEER	5.85 A+
heating / Average	Pdesignh 7.6	kW	heating / Average	SCOP/A	3.80 A
heating / Warmer	Pdesignh -	kW	heating / Warmer	SCOP/W	• -
heating / Colder	Pdesignh -	kW	heating / Colder	SCOP/C	• -
			Dealers has the second site of a state		unit
beating / Average (-10°C)	Pdb 669		Back up heating capacity at outdoor beating (Average $(-10^{\circ}C)$ )	elbu	
heating / Warmer (2°C)	Pdh -		heating / Warmer (2°C)	elbu	- kW
heating / Colder (-22°C)	Pdh -	kW	heating / Colder (-22°C)	elbu	- kW
		I	, , , , , , , , , , , , , , , , ,		
Declared capacity for cooling, at inc	door temperature 27(19	)°C and	Declared energy efficiency ratio, at i	indoor tempera	ture 27(19)°C and
loutdoor temperature Tj			outdoor temperature Tj	FEDd	0.57
Ti=30°C	Puc 7.50		Ti=30°C	EERd	3.57 -
Ti=25°C	Pdc 3.54		Ti=25°C	FFRd	8.68
Tj=20°C	Pdc 4.19	kW	Tj=20°C	EERd	9.27 -
Declared capacity for heating / Ave	rage season, at indoor		Declared coefficient of performance	/ Average sea	son, at indoor
Itemperature 20°C and outdoor tem	perature Tj		Itemperature 20°C and outdoor temp	erature Tj	2.20
]]7 ℃  Ti=2℃	Pun 6.80	k\//	]/ C   Ti=2℃	COPa	2.29
Ti=7°C	Pdh 3.99		Ti=7℃	COPd	4.12
Ti=12°C	Pdh 3.58	kW	Ti=12°C	COPd	5.35 -
Tj=bivalent temperature	Pdh 6.80	kW	Tj=bivalent temperature	COPd	2.29 -
Tj=operating limit	Pdh 6.50	kW	Tj=operating limit	COPd	2.14 -
Declared capacity for heating / Wal	mer season, at indoor		Lectared coefficient of performance	/ Warmer seas	son, at indoor
Ti=2°C	Pdh -	kW	Ti=2°C	COPd	<b>.</b> .
Tj=7°C	Pdh -	kW	Tj=7℃	COPd	
Tj=12℃	Pdh -	kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	
Declared capacity for beating / Col	dor sooson at indoor		Declared coefficient of performance		n at indeer
temperature 20°C and outdoor tem	perature Ti		temperature 20°C and outdoor temp	erature Ti	n, at inuooi
Tj=-7°C	Pdh -	kW	Tj=-7°C	COPd	
Tj=2°C	Pdh -	kW	Tj=2°C	COPd	
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	• -
I j=bivalent temperature	Pdh -	KVV	I j=bivalent temperature	COPd	<u> </u>
$I_{J=0}^{1}$	Pan -		Ti=-15°C	COPd	•
1]=-13 0	- Tuni -	KVV	1]=-13 C	COLU	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv -7	°C	heating / Average	Tol	-15 °C
heating / Warmer	Tbiv -	°C	heating / Warmer	Tol	- °C
heating / Colder	I DIV -	°C	heating / Colder	101	- °C
Cycling interval capacity			Cycling interval efficiency		
for cooling	Pcycc -	kW	for cooling	EERcyc	
for heating	Pcych -	kW	for heating	COPcyc	
Degradation coefficient		_	Degradation coefficient	Calls	0.05
	Cac 0.25	-	neating	Can	0.25 -
Electric power input in power mode	s other than 'active mo	de'	Annual electricity consumption		
off mode	Poff 22	W	cooling	Qce	449 kWh/a
standby mode	Psb 22	W	heating / Average	Qhe	2803 kWh/a
thermostat-off mode	Pto 52	W	heating / Warmer	Qhe	- kWh/a
crankcase heater mode	Pck 0	W	heating / colder	Qhe	- kWh/a
Canacity control(indicate one of thr	ree options)		Other items		
			Sound power level(indoor)	Lwa	46 dB(A)
			Sound power level(outdoor)	Lwa	66 dB(A)
fixed	No		Global warming potential	GWP	1975 kgCO2eq.
staged	No		Rated air flow(indoor)	-	468 m3/h
variable	Yes		Rated air flow(outdoor)	-	3360 m3/h
Contact details for obtaining	Name and addros	es of the man	ufacturer or of its authorised reproces	ntative	
more information MITS	SUBISHI HEAVY INDU	STRIES EUF	ROPE, LTD.	nativo.	
AIR-	CONDITIONING DIVIS	SION	-		
4th F	-loor International Build	lings 71 King	sway, London, WC2B 6ST United Kin	gdom	

### (7) Model SCM100ZJ-S1

Information to identify the model	(s) to which the informa	ation relates to:	If function includes heating: Indicat	e the heating season the
Indoor unit model name	SRK25ZJX-S	x2+SRK50ZJX-S1	information relates to. Indicated va	lues should relate to one
Outdoor unit model name	SCM100ZJ-	-S1	heating season at a time. Include a	at least the heating season 'Average'.
			]	
Function(indicate if present)			Average(mandatory)	Ves
cooling	Voe		Warmer(if designated)	No
booting	Vee		Colder(if decignated)	No
neating	res			NO
Itom	oumbol up	luo unit	ltom	aumhal valua alaaa
Item Desire land	symbol va	lue unit		symbol value class
Design load	Diana di Antonio	10.0	Seasonal emclency and energy em	
cooling	Paesigne	10.0 KVV	cooling	SEER 4.95 B
heating / Average	Pdesignh	10.1 KVV	heating / Average	SCOP/A 3.89 A
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C
				unit
Declared capacity at outdoor ten	nperature Tdesignh		Back up heating capacity at outdoo	or temperature Tdesignh
heating / Average (-10°C)	Pdh	8.62 kW	heating / Average (-10°C)	elbu <b>1.48</b> kW
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling at	indoor temperature 27	(1°C and	Declared energy efficiency ratio at	t indoor temperature 27(1°C and
outdoor temperature Ti		(1 o and	outdoor temperature Ti	
	Pdo (	10 00 kM		
1]-33 C		7.05	Ti-20°0	
TJ=30 C		7.65 KVV	[]]=30 C	EER0 5.45 -
1]=25°C	Pdc	8.10 KW	1J=25°C	EERa 6.98 -
1j=20°C	Pdc	7.81  kW	[]]=20°C	EERd 7.55 -
Declared capacity for heating / A	verage season, at indo	noc	Declared coefficient of performance	e / Average season, at indoor
temperature 20°C and outdoor te	mperature T		temperature 2C°C and outdoor temp	perature T
Tj=-7°C	Pdh	8.93 kW	Tj=-7°C	COPd <b>2.43</b> -
Tj=2°C	Pdh	5.49 kW	Tj=2°C	COPd 3.88 -
Tj=7°C	Pdh	4.61 kW	Tj=7°C	COPd 5.35 -
Tj=12°C	Pdh	5.34 kW	Tj=12°C	COPd 6.72 -
Ti=bivalent temperature	Pdh	8.93 kW	Ti=bivalent temperature	COPd 2.43 -
Ti=operating limit	Pdh	8 11 kW	Ti=operating limit	COPd 2.29
	T UIT	0.11		0010 2.23
Declared consoit for besting ()	larmar accor at inda		Declared coefficient of performance	a / Marmar access at indeer
Declared capacity for fleating / v		001	beclared coefficient of performance	
Temperature 20 C and outdoor te	mperature I	1.14/	temperature 20 C and outdoor temp	
I]=2°C	Pan	- KVV	] = 2°C	
Tj=7°C	Pdh	kW	Tj=7°C	COPd
Tj=12°C	Pdh	- kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd
Ti=operating limit	Pdh	- kW	Ti=operating limit	COPd
Declared capacity for heating / (	older season at indoo	r	Declared coefficient of performance	e / Colder season at indoor
temperature 20°C and outdoor te	mperature T		temperature 20°C and outdoor temp	oerature T
Ti=-7°C	Pdh	- kW	Ti=-7°C	COPd -
Ti-2°C	Pdh		Ti-2°C	COPd
Ti=7°C	Ddh	-	Ti-7°C	
TJ-7 C	Full			
I]=12°C	Pan	- KVV	[1]=12°C	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh	kW	Tj=operating limit	COPd
Tj=-15℃	Pdh	- kW	Tj=-15°C	COPd
Bivalent temperature			Operating limit temperature	
heating / Average	Tbiv	-7 °C	heating / Average	TolC
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv	- °C	heating / Colder	Tol - °C
	· 1	1		
Cycling interval capacity			Cycling interval efficiency	
for cooling	Povoc	- kW	for cooling	EERcvc -
for heating	Povch	- kW	for heating	COPcyc -
	1 03 011	1		
Degradation coefficient			Degradation coefficient	
cooling	Cdo	0.25	heating	Cdb 0.25
Cooning		0.20	Incaung	
Electric power ipput in power ma	des other than 'active	mode'		
aff mode		20		
		39 00		
standby mode	Psb	39 W	neating / Average	Qne 3633 kWh/a
thermostat-off mode	Pto	48 W	heating / Warmer	QhekWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe - kWh/a
Capacity control(indicate one of	three options)		Other items	
			Sound power level(indoor)	Lwa 60 dB(A)
			Sound power level(outdoor)	Lwa 68 dB(A)
fixed	No		Global warming potential	GWP 1975 kgCO2eg
staged	No		Rated air flow(indoor)	
variable	Vee		Rated air flow(outdoor)	
	res			- <b>4300</b> m3/h
Contact details for obtaining	Nome and	drace of the mer	ufacturer or of its outborized represent	atative
more information		ימופפפ טו נוופ ווומח חו ופדםובפ בו יח		nauve.
			UL, LID.	
	th Floor Internetion 11		Work London WOOD COT Unite 112	adam
4		sanangs / I Kings	way, London, WOZD 031 United King	guom

Information to identify the model(s) to	which the info	ormation re	elates to:	If function includes heating: Indicate t	he heating sea	son the	
Indoor unit model name	SRK25Z	IX-S×4		information relates to. Indicated value	es should relate	e to one	
Outdoor unit model name	SCM1002	ZJ — S1		heating season at a time. Include at le	east the heatin	a season '	Average'.
	10					3	
Eunction(indicate if present)				Average(mandatory)	Yes		
cooling	Voe			Warmer(if designated)	No		
beating	Voc			Colder/if designated)	No		
neating	165				NO		
Itom	ovmbol	value	unit	Itom	ovmbol	voluo	alaaa
Design load	Symbol	value	unii		Symbol	value	ciass
	Deciano	10.0		Seasonal eniciency and energy enicie		E 01	D
	Puesignic	10.0			SEER	3.01	D
heating / Average	Paesignn	10.1	KVV	neating / Average	SCOP/A	3.95	A
neating / warmer	Paesignn	-	KVV	neating / vvarmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	KVV	heating / Colder	SCOP/C	-	-
							unit
Declared capacity at outdoor tempera	ature Tdesignh			Back up heating capacity at outdoor t	emperature To	lesignh	I
heating / Average (-10°C)	Pdh	8.62	kW	heating / Average (-10°C)	elbu	1.48	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indo	or temperature	e 27(1°C a	nd	Declared energy efficiency ratio, at in	door temperate	ure 27(1°C	and
outdoor temperature Tj			_	outdoor temperature Tj			_
Tj=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.57	-
Tj=30°C	Pdc	7.65	kW	Tj=30°C	EERd	5.55	-
Tj=25°C	Pdc	8.10	kW	Tj=25°C	EERd	7.04	]-
Tj=20°C	Pdc	7.81	kW	Tj=20°C	EERd	7.65	1-
Declared capacity for heating / Average	ge season, at i	indoor		Declared coefficient of performance /	Average seas	on, at indo	or
temperature 20°C and outdoor temper	ature T			temperature 20°C and outdoor temper	ature T	,	
Tj=-7°C	Pdh	8.93	kW	Tj=-7°C	COPd	2.45	]-
Tj=2°C	Pdh	5.49	kW	Tj=2°C	COPd	3.90	1-
Ti=7°C	Pdh	4.61	kW	Ti=7°C	COPd	5.55	1.
Ti=12°C	Pdh	5.34	kW	Ti=12°C	COPd	6.82	1_
Ti-bivalent temperature	Pdh	9.07		Ti-bivalent temperature	COPd	2.45	-
	Ddh	0.33			COPd	2.40	- 1
	Full	0.11	KVV		COFU	2.23	-
Declared consoits for besting ( Marm	or occorr of i	ndoor		Declared coefficient of performance /	Marmaraaaa	n ot indo	
temperature 20°C and outdoor temper	er season, at i	10001		temperature 200 and outdoor temper	vvanner seaso	on, at muo	
			1414				n l
Ti=2 C	Pull			]=2 C	COPU	-	-
	Pan		KVV		COPd	-	-
IJ=12°C	Pdh	-	KVV	IJ=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder	r season, at in	door		Declared coefficient of performance /	Colder seasor	n, at indoor	.
temperature 20°C and outdoor temper	ature T		_	temperature 2°C and outdoor temper	ature T		, I
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	]-
Ti=operating limit	Pdh	-	kW	Ti=operating limit	COPd	-	1-
Ti=-15℃	Pdh	-	kW	Ti=-15℃	COPd	-	1-
	-						
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-7	°C	heating / Average	Tol	-15	]°c ∣
heating / Warmer	Tbiv	-	_°C	heating / Warmer	Tol	-	l°c ∣
heating / Colder	Tbiv	-	_°C	heating / Colder	Tol	-	l°c ∣
		1					-
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pevee	-	kW	for cooling	EERovo	-	1. I
for heating	Povch	-	kW	for heating	COPovo	-	1.
	. 0,011				501 0y0		
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	1. I
			1	I			
Electric power input in power modes	other than 'acti	ive mode'		Annual electricity consumption			
off mode	Poff	39	W	cooling	Qce	699	kWh/a
standby mode	Psh	39	Ŵ	heating / Average	Ohe	3584	kWh/a
thermostat-off mode	Pto	48	Ŵ	heating / Warmer	Ohe	-	kWh/a
crankcase heater mode	Pck	0	Ŵ	heating / colder	Ohe	-	kWh/a
oranicouse neater mode	1 01	U	144		GILC		IX VVII/CI
				Other items			
Capacity control/indicate one of three	ontions)						
Capacity control(indicate one of three	options)			Sound nower level(indoor)	1 1/2	55	
Capacity control(indicate one of three	options)			Sound power level(indoor)	Lwa	55 69	
Capacity control(indicate one of three	options)			Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	55 68	dB(A)
Capacity control(indicate one of three	e options)			Sound power level(indoor) Sound power level(outdoor) Global warming potential	Lwa Lwa GWP	55 68 1975	dB(A) kgCO2eq.
Capacity control(indicate one of three fixed staged	e options)			Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	Lwa Lwa GWP -	55 68 1975 750	dB(A) kgCO2eq. m3/h
Capacity control(indicate one of three fixed staged variable	e options) No Yes			Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa Lwa GWP - -	55 68 1975 750 4500	dB(A) dB(A) kgCO2eq. m3/h m3/h
Capacity control(indicate one of three fixed staged variable	No No No No No No No No No No No No No	d addraat	of the mean	Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa Lwa GWP - -	55 68 1975 750 4500	dB(A) dB(A) kgCO2eq. m3/h m3/h
Capacity control(indicate one of three fixed staged variable Contact details for obtaining more information	No No Yes	d address	of the manu	Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa Lwa GWP - - tive.	55 68 1975 750 4500	dB(A) kgCO2eq. m3/h m3/h
Capacity control(indicate one of three fixed staged variable Contact details for obtaining more information	No No Yes Name and UBISHI HEAV	d address Y INDUST	of the manu	Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) Jfacturer or of its authorised representa DPE, LTD.	Lwa Lwa GWP - -	55 68 1975 750 4500	dB(A) kgCO2eq. m3/h m3/h
Capacity control(indicate one of three fixed staged variable Contact details for obtaining more information	No No Yes Name and UBISHI HEAV CONDITIONING OC Internation	d address Y INDUST G DIVISIO	of the manu RIES EUR( N	Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) ufacturer or of its authorised representa DPE, LTD.	Lwa Lwa GWP - - tive.	55 68 1975 750 4500	dB(A) kgCO2eq. m3/h m3/h

Information to identify the model(s)	to which the infor	mation re	lates to:	If function includes heating: Indicate t	he heating sea	son the	
Indoor unit model name	SRK20ZJ	(-S×5		information relates to. Indicated value	es should relate	e to one	
Outdoor unit model name	SCM100Z	J-S1		heating season at a time. Include at le	east the heatin	g season 'Avera	age'.
							Ŭ
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Itom	ovmbol	voluo	unit	Itom	aymbol	voluo oloo	
Design load	Symbol	value	unit	Seasonal efficiency and energy efficiency	ency class	value class	5
cooling	Pdesignc	10.0	kW	cooling	SEER	5.10	A
heating / Average	Pdesignh	10.1	kW	heating / Average	SCOP/A	4.02 /	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
						unit	
Declared capacity at outdoor tempe	rature I designh	0.00	1	Back up heating capacity at outdoor t	emperature Id	esignh	
heating / Warmer (2°C)	Pan	8.62	KVV LVV	heating / Warmer (2°C)	elbu	1.48 KVV	
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- KW	
	- T dif	-			Cibu		
Declared capacity for cooling, at ind	oor temperature	27(1°C ar	nd	Declared energy efficiency ratio, at in	door temperati	ure 27(1°C and	
outdoor temperature Tj		`	_	outdoor temperature Tj		· · · · · · · · · · · · · · · · · · ·	
Tj=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.57 -	
Tj=30°C	Pdc	7.65	kW	Tj=30°C	EERd	5.76 -	
Tj=25°C	Pdc	8.10	kW	Tj=25°C	EERd	7.14 -	
Tj=20°C	Pdc	7.81	kW	Tj=20°C	EERd	7.82 -	
Declared canacity for beating / Aver	ana saason at ir	door		Declared coefficient of performance /		on at indoor	
temperature 20°C and outdoor temp	erature T	10001		temperature 2°C and outdoor temper	rature T	511, at 1110001	
Tj=-7°C	Pdh [	8.93	kW	Ti=-7°C	COPd	2.52 -	
Tj=2°C	Pdh	5.49	kW	Tj=2°C	COPd	3.97 -	
Tj=7°C	Pdh	4.61	kW	Tj=7℃	COPd	5.64 -	
Tj=12°C	Pdh	5.34	kW	Tj=12°C	COPd	6.89 -	
Tj=bivalent temperature	Pdh	8.93	kW	Tj=bivalent temperature	COPd	2.52 -	
Tj=operating limit	Pdh	8.11	kW	Tj=operating limit	COPd	2.29 -	
Declared opposite for booting ( )Mar					14/		
temporature 20°C and outdoor temp	ner season, at in	door		temperature 20°C and outdoor temper	vvarmer seasc	on, at indoor	
Ti=2°C	Pdh		kW	Ti=2°C	COPd	<b></b>	
Ti=7°C	Pdh	-	kW	Ti=7°C	COPd	-	
Ti=12°C	Pdh	-	kW	Ti=12°C	COPd		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
Declared capacity for heating / Cold	er season, at ind	oor		Declared coefficient of performance /	Colder season	i, at indoor	
temperature 20°C and outdoor temperature	erature T		1	temperature 20°C and outdoor temper	ature T		
I ]=-7°C	Pan	-	KVV	1]=-7°C	COPd		
Ti=7°C	Pdh	-	kW	Ti=7°C	COPd		
Ti=12°C	Pdh		kW	Ti=12°C	COPd		
Ti=bivalent temperature	Pdh	-	kW	Ti=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd		
Bivalent temperature	r		10-	Operating limit temperature			
heating / Average	Tbiv	-7	°C	heating / Average	Tol	<u>-15</u> °C	
heating / Warmer	I DIV	-	°C	heating / Warmer	I OI	- °C	
	I UIV	-	U	meaning / Colder	101	- 10	
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcvcc [	-	kW	for cooling	EERcyc		
for heating	Pcych	-	kW	for heating	COPcyc		
Degradation coefficient	- · · [		1	Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25 -	
Electric power input in power moder	other than 'activ	e mode'		Annual electricity consumption			
off mode	Poff	39	w	cooling	Oce	687 k\//h	n/a
standby mode	Psb	39	Ŵ	heating / Average	Qhe	3519 kWh	n/a
thermostat-off mode	Pto	48	w	heating / Warmer	Qhe	- kWh	n/a
crankcase heater mode	Pck	0	w	heating / colder	Qhe	- kWh	n/a
Capacity control(indicate one of three	e options)			Other items			
				Sound power level(indoor)	Lwa	53 dB(A	A)
fixed	No			Global warming potential	LWa		H) 0200
staged	No			Rated air flow/indoor)	GWP	690 m2/	o∠eq. h
variable	Yes			Rated air flow(outdoor)	-	4500 m3/l	'n
						1.000 1110/1	
Contact details for obtaining	Name and	address	of the manu	afacturer or of its authorised representation	tive.		
more information MIT:	SUBISHI HEAVY	INDUST	RIES EUR	OPE, LTD.			
AIR-	CONDITIONING	DIVISIO	N	WORD OF LIST IN			
4th i	iour internationa	a building	s / i rungs	way, LUNUUN, WUZD 031 UNITED KINGO	וווכ		



Information to identify the model(s)	to which the info	rmation re	elates to:	If function includes heating: Indicate	the heating sea	son the	
Indoor unit model name	SRK71ZK	-S x 2		information relates to. Indicated value	ues should relate	e to one	
Outdoor unit model name	SCM100Z	J-S1		heating season at a time. Include at	least the heatin	g season 'Averag	ge'.
					No.		
Function(indicate if present)	Vee			Average(mandatory)	Yes		
cooling	Yes			Colder/if designated)	NO		
lieaung	165				NU		
Item	symbol	value	unit	Item	symbol	value class	
Design load			_	Seasonal efficiency and energy efficiency	ciency class		
cooling	Pdesignc	10.0	kW	cooling	SEER	4.88 B	5
heating / Average	Pdesignh	10.1	kW	heating / Average	SCOP/A	3.83 A	
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W		
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C		
Declared capacity at outdoor temp	erature Tdesignh			Back up beating capacity at outdoor	r temperature Tr		
heating / Average (-10°C)	Pdh	8 62	]kW	heating / Average (-10°C)	elhu	1 48 kW	
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	- kW	
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- kW	
Declared capacity for cooling, at in	door temperature	27(1°C a	nd	Declared energy efficiency ratio, at i	indoor temperat	ure 27(1°C and	
outdoor temperature Tj			7	outdoor temperature Tj			
Tj=35°C	Pdc	10.00	_kW	Tj=35°C	EERd	3.50 -	
]]=30°C	Pdc	7.65		1j=30°C	EERd	5.40 -	
] = 25 C	Pac	8.10		TI=25 C	EERO	7.45	
IJ=20 C	Puc	7.01	KVV	[]=20 C	EERU	7.45 -	
Declared capacity for heating / Ave	rage season. at i	ndoor		Declared coefficient of performance	/ Average seas	on, at indoor	
temperature 20°C and outdoor temp	perature T		_	temperature 20°C and outdoor temp	erature T		
Tj=-7°C	Pdh	8.93	kW	Tj=-7°C	COPd	2.40 -	
Tj=2°C	Pdh	5.49	kW	Tj=2°C	COPd	3.80 -	
Tj=7°C	Pdh	4.61	kW	Tj=7°C	COPd	5.30 -	
Tj=12°C	Pdh	5.34	kW	Tj=12°C	COPd	6.70 -	
Tj=bivalent temperature	Pdh	8.93	kW	Tj=bivalent temperature	COPd	2.40 -	
I J=operating limit	Pan	8.11	KVV	I J=operating limit	COPa	2.20 -	
Declared capacity for heating / Wa	mer season at ir	ndoor		Declared coefficient of performance	/ Warmer seas	on at indoor	
temperature 2°C and outdoor temp	perature T	10001		temperature 2°C and outdoor temp	erature T		
Tj=2°C	Pdh	-	kW	Ti=2°C	COPd		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
Dealars diagraphic factor beating / Cal							
temperature 20°C and outdoor temp	Jer season, at inc	1001		temperature 20°C and outdoor temp	erature T	i, at indoor	
Ti=-7°C	Pdh	-	kW	Ti=-7°C	COPd	<b></b>	
Ti=2°C	Pdh	_	kW	Ti=2°C	COPd		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd		
Divelopt tomporature				Operating limit temperature			
beating / Average	Thiv	-7	ിം	beating / Average	Tol	-15 °C	
heating / Warmer	Thiv		°⊂	heating / Warmer	Tol	- 00	
heating / Colder	Tbiv	-	]°C	heating / Colder	Tol	- °C	
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc		
for heating	Pcych	-	kW	for heating	COPcyc		
Degradation coefficient				Degradation coefficient			
	Cdc	0.25		beating	Cdb	0.25	
cooling	000	0.20	-	neating	Odif	0.20	
Electric power input in power mode	s other than 'activ	ve mode'		Annual electricity consumption			
off mode	Poff	39	W	cooling	Qce	718 kWh/a	а
standby mode	Psb	39	W	heating / Average	Qhe	3689 kWh/a	а
thermostat-off mode	Pto	48	W	heating / Warmer	Qhe	- kWh/a	а
crankcase heater mode	Pck	0	W	heating / colder	Qhe	- kWh/a	а
				Others its me			
Capacity control(indicate one of thr	ee options)			Sound power level/indoor)	1 14/2	60 dB(A)	`
				Sound power level(indoor)	Lwa	68 dB(A)	ś
fixed	No			Global warming potential	GWP	1975 kgCO	, 2ea
staged	No			Rated air flow(indoor)	-	1170 m3/h	
variable	Yes			Rated air flow(outdoor)		4500 m3/h	
Contact details for obtaining	Name and	address	of the manu	facturer or of its authorised represent	tative.		
more information MI	SUBISHI HEAVY		RIES EUR	JPE, LTD.			
AIF 4th	Floor Internation	al Building	ns 71 Kinge	way London WC2R 6ST United King	dom		
401		a. Dananių	,				
Information to identify the mode	I(s) to which the inform	nation re	elates to:	If function includes heating: Indicate	the heating sea	ason the	
--	--------------------------	-----------	---	---	------------------	---------------------	
Indoor unit model name SRK25ZJX-Sx2+FDEN50VF			information relates to. Indicated values should relate to one				
Outdoor unit model name	SCM100ZJ	-S1		heating season at a time. Include at	least the heatin	g season 'Average'.	
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
neating	res			Colder(If designated)	NO		
Item	symbol v	alue	unit	Item	symbol	value class	
Design load				Seasonal efficiency and energy efficiency	iency class		
cooling	Pdesignc	10.0	kW	cooling	SEER	4.85 B	
heating / Average	Pdesignh	10.2	kW	heating / Average	SCOP/A	3.83 A	
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W		
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C		
Declared capacity at outdoor to	mporatura Tdasianh			Rock up hosting consoity at outdoor	tomporaturo To	unit	
beating / Average (-10°C)	Pdh	8 92	kW	beating / Average (-10°C)	elhu	1 28 kW	
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	- kW	
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- kW	
	i						
Declared capacity for cooling, a	t indoor temperature 2	?7(1°C a	nd	Declared energy efficiency ratio, at ir	ndoor temperat	ure 27(1°C and	
outdoor temperature Tj			<b>-</b>	outdoor temperature Tj			
Tj=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.10 -	
Tj=30°C	Pdc	7.37	kW	Tj=30℃	EERd	4.91 -	
T = 25°C	Pac	6.86	KVV	1]=25°C	EERO	7.14 -	
1j=20 C	Puc	0.00	KVV	[]=20 C	EERU	0.00	
Declared capacity for heating /	Average season at inc	door		Declared coefficient of performance	/ Average seas	on, at indoor	
temperature 2°C and outdoor te	emperature T	2001		temperature 20°C and outdoor temperature	erature T	, at ind001	
Tj=-7°C	Pdh	9.02	kW	Tj=-7°C	COPd	2.35 -	
Tj=2°C	Pdh	5.49	kW	Tj=2°C	COPd	3.97 -	
Tj=7°C	Pdh	4.61	kW	Tj=7°C	COPd	5.19 -	
Tj=12°C	Pdh	5.44	kW	Tj=12°C	COPd	5.39 -	
Tj=bivalent temperature	Pdh	9.02	kW	Tj=bivalent temperature	COPd	2.35 -	
Tj=operating limit	Pdh	8.75	kW	Tj=operating limit	COPd	2.62 -	
Declared consoits for booting ()	Normar according	loor		Declared coefficient of performance	/ Marmar again	an at indeer	
temperature 20°C and outdoor to	moerature T	1001		temperature 20°C and outdoor tempe	vanner seaso	on, at indoor	
Ti=2°C	Pdh	-	kW	Ti=2°C	COPd		
Ti=7°C	Pdh	-	kW	Ti=7°C	COPd		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
Declared capacity for heating /	Colder season, at indo	or		Declared coefficient of performance	/ Colder seasor	n, at indoor	
temperature 20°C and outdoor te	mperature I			temperature 20°C and outdoor tempe			
Ti-2°C	Puli Pdb	-		]]=-7 C   Ti=2°C	COPd		
Ti=7°C	Pdh	-	kW	Ti=7°C	COPd	-	
Ti=12°C	Pdh	-	kW	Ti=12°C	COPd		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd		
Bivalent temperature	<b>T</b> L:	-	7.0	Operating limit temperature	<b>T</b> .1		
heating / Average		-/	-C	heating / Average		-15 °C	
heating / Warner	Tbiv	-	°C	heating / Colder	Tol	- 00	
	1014	-			101		
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc		
for heating	Pcych	-	kW	for heating	COPcyc		
Degradation coefficient			7	Degradation coefficient	0.11	0.05	
cooling	Cac	0.25	-	Ineating	Can	0.25 -	
Electric power input in power m	odes other than 'active	e mode'		Annual electricity consumption			
off mode	Poff	45	W	cooling	Qce	723 kWh/a	
standby mode	Psb	45	Ŵ	heating / Average	Qhe	3730 kWh/a	
thermostat-off mode	Pto	55	W	heating / Warmer	Qhe	- kWh/a	
crankcase heater mode	Pck	0	W	heating / colder	Qhe	- kWh/a	
Capacity control(indicate one of	three options)			Other items			
				Sound power level(indoor)	Lwa	60 dB(A)	
fixed	No			Global warming potential	LWa	1975 kaCO2ca	
staged	No			Rated air flow(indoor)	GWF	780 m3/b	
variable	Yes			Rated air flow(outdoor)	-	4500 m3/h	
Contact details for obtaining	Name and a	address	of the manu	afacturer or of its authorised representation	ative.		
more information	MITSUBISHI HEAVY I	INDUST	RIES EUR	OPE, LTD.			
	AIR-CONDITIONING I		N	way London WOOD COT United King	lam		
	+ui rioui international	Bringing	js / i Kings	way, London, WC2B 651 United Kingo			



Information to identify the model	(s) to which the infor	mation re	elates to:	If function includes heating: Indicate	the heating sea	ison the	
Indoor unit model name SRK25ZJ-S×4			information relates to. Indicated values should relate to one				
Outdoor unit model name	SCM100Z	J-S1		heating season at a time. Include at	least the heatin	g season 'A	verage'.
Function(indicate if present)	Vee			Average(mandatory)	Yes		
cooling	Yes			Colder(if designated)	NO		
neating	165				NO		
Item	symbol	value	unit	Item	symbol	value o	lass
Design load			_	Seasonal efficiency and energy effic	ciency class		
cooling	Pdesignc	10.0	kW	cooling	SEER	4.85	В
heating / Average	Pdesignh	10.2	KW	heating / Average	SCOP/A	3.83	A
heating / Warmer	Pdesignn			heating / Warmer	SCOP/W	-	-
	Fuesignin	•	KVV	Ineating / Colder	3COF/C		- init
Declared capacity at outdoor terr	perature Tdesignh			Back up heating capacity at outdoor	temperature To	lesignh	
heating / Average (-10°C)	Pdh	8.92	kW	heating / Average (-10°C)	elbu	1.28 k	W
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	- k	W
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- k	W
Declared econority for ecoling at	indoor tomporaturo	27/180 0	nd	Declared energy efficiency ratio at i	indoor tomporate	uro 27/1°C o	nd
outdoor temperature Ti	indoor temperature.	27(1:0 a	iiu	outdoor temperature Ti	indoor temperati		inu
Tj=35°C	Pdc	10.00	kW	Tj=35℃	EERd	3.10 -	
Tj=30℃	Pdc	7.37	kW	Tj=30°C	EERd	4.91 -	
Tj=25°C	Pdc	6.86	kW	Tj=25°C	EERd	7.14 -	
Tj=20°C	Pdc	6.80	kW	Tj=20°C	EERd	8.08 -	
Declared consolity for heading ( )		docr		Declared coefficient of a strange	1 Augrage	on otin-l-	-
temperature 20°C and outdoor te	verage season, at in mperature T	1000		temperature 2°C and outdoor temperature	<ul> <li>Average sease</li> <li>erature T</li> </ul>	un, at indoor	
Tj=-7°C	Pdh	9.02	kW	Ti=-7°C	COPd	2.35 -	
Tj=2°C	Pdh	5.49	kW	Tj=2°C	COPd	3.97 -	
Tj=7°C	Pdh	4.61	kW	Tj=7°C	COPd	5.19 -	
Tj=12°C	Pdh	5.44	kW	Tj=12°C	COPd	5.39 -	
Tj=bivalent temperature	Pdh	9.02	kW	Tj=bivalent temperature	COPd	2.35 -	
Tj=operating limit	Pdh	8.75	kW	Tj=operating limit	COPd	2.62 -	
Declared capacity for beating (M	Varmer season at in	door		Declared coefficient of performance	/ Warmer cease	n at indoor	
temperature 2°C and outdoor te	mperature T	0001		temperature 2°C and outdoor temperature	erature T	n, at inuoui	
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
Declared capacity for beating / C	older season at ind	oor		Declared coefficient of performance		at indoor	
temperature 2°C and outdoor te	mperature T	001		temperature 20°C and outdoor temperature	erature T	i, at indoor	
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd		
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd		
Tj=bivalent temperature	Pdh	-	KW	Tj=bivalent temperature	COPd		
	Pan	-			COPd		
1]=-15 C	Full	-	KVV	[1]=-15 C	COFU		
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-7	_°C	heating / Average	Tol	-15 °	C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	- °	C
heating / Colder	Tbiv	-	l°C	heating / Colder	Tol	-	С
Cycling interval canacity				Cycling interval efficiency			
for cooling	Povoc	-	kW	for cooling	FERcyc		
for heating	Pcych	-	kW	for heating	COPcyc		
					<b>3</b>		
Degradation coefficient			_	Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25 -	
Electric power input in power mo	des other than 'activ	e mode'		Annual electricity consumption			
off mode	Poff	45	W	cooling	Qce	723 k	Wh/a
standby mode	Psb	45	Ŵ	heating / Average	Qhe	3730 k	Wh/a
thermostat-off mode	Pto	55	w	heating / Warmer	Qhe	- k	Wh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	- k	Wh/a
	4			Otheriteree			
Capacity control(indicate one of	inree options)			Sound nower lovel(indeer)	Luc	<b>F</b> 0	
				Sound power level(undoor)	LWa	68	1B(A)
fixed	No			Global warming potential	GWP	1975 k	aCO2ea
staged	No			Rated air flow(indoor)	-	474 r	n3/h
variable	Yes			Rated air flow(outdoor)	_	4500 r	n3/h
Contact details for obtaining	Name and	address	of the mar	utacturer or of its authorised represent	ative.		
	R-CONDITIONING	DIVISIO					
4	th Floor Internationa	I Building	gs 71 Kinas	sway, London, WC2B 6ST United King	dom		

Information to identify the mode	l(s) to which the infor	mation relates to	If function includes heating. Indicate	e the heating sea	ason the	
Indoor unit model name	SRK207.I	Sx5	information relates to Indicated val	ues should relate	e to one	
Outdoor unit model name	SCM1007	1.91	heating season at a time. Include a	t least the heatin		'Average'
	30111002	5-51		t least the heath	y season	Average.
Eupotion(indicate if present)				Vac		
	Vee		Average(Inditidatory)	Tes No		
cooling	Yes			NO		
neating	res		Colder(Ir designated)	NO		
Itom	avmbol	voluo unit	Itom	avmbol	value	olooo
Design load	Symbol	value utili	Second officiancy and onergy offi		value	CIdSS
cooling	Pdesigne	100 k\//		CIENCY Class	4 85	B
besting (Average	Ddesignb	10.0 KVV	booting (Average	SCODA	4.00	D
heating / Average	Puesignin	10.2 KVV	heating / Average	SCOP/A	3.03	A
neating / warmer	Paesignn	- KVV	neating / warmer	SCOP/W	-	-
neating / Colder	Paesignn	- KVV	neating / Colder	SCOP/C	-	-
						unit
Declared capacity at outdoor te	mperature I designh		Back up heating capacity at outdoo	r temperature 1 c	lesignh	<b></b>
heating / Average (-10°C)	Pdh	8.92 kW	heating / Average (-10°C)	elbu	1.28	kW
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, a	it indoor temperature	27(1°C and	Declared energy efficiency ratio, at	indoor temperate	ure 27(1°0	c and
outdoor temperature Tj	_		outdoor temperature Tj			_
Tj=35°C	Pdc	10.00 kW	Tj=35°C	EERd	3.10	-
Tj=30°C	Pdc	7.37 kW	Tj=30°C	EERd	4.91	-
Tj=25°C	Pdc	6.86 kW	Ti=25°C	EERd	7.14	-
Ti=20°C	Pdc	6.80 kW	Ti=20°C	EERd	8.08	-
., _, _, _, _, _, _, _, _, _, _, _, _, _,	1 40				0.00	1
Declared capacity for heating /	Average season at ir	ndoor	Declared coefficient of performance	Average seas	on, at inde	oor
temperature 20°C and outdoor to	emperature T		temperature 20°C and outdoor temp	erature T	, at mat	
Ti=-7°C	Pdh [	9.02 kW	Ti=-7°C	COPd	2 35	7-
Ti=2°C	Pdh	5 49	Ti=2°C	COP4	3.07	┥_
Ti-7°C		1 64 LAA	1]-2 C	CODA	5.57	+î
Ti=10°C	Pull	4.01 KVV		COPU	5.19	-1-
] = 12 C	Pan	5.44 KVV	[]]=12 C	COPd	5.39	
I j=bivalent temperature	Pdh	9.02 kW	Ij=bivalent temperature	COPd	2.35	-
Tj=operating limit	Pdh	8.75  kW	Tj=operating limit	COPd	2.62	-
Declared capacity for heating /	Warmer season, at in	idoor	Declared coefficient of performance	) / Warmer seaso	on, at indo	or
temperature 20°C and outdoor to	emperature T		temperature 20°C and outdoor temp	erature T		_
Tj=2°C	Pdh	- kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	-	-
Ti=bivalent temperature	Pdh	- kW	Ti=bivalent temperature	COPd	-	-
Ti=operating limit	Pdh	- kW	Ti=operating limit	COPd	-	-
	1 dif	I.V.V		001 0		
Declared capacity for heating /	Colder season at ind	oor	Declared coefficient of performance		at indoc	r
temperature 20°C and outdoor to	emperature T		temperature 20°C and outdoor temp	proture T	i, at indoo	~
	Ddh	- k\//		COPd		
Ti=2°C	Full Ddb			COPd		-
TJ=2 C	Pull	- KVV	1J=2 C	COPU	-	-
	Pan	- KVV		COPa	-	
1j=12°C	Pdh	- KVV	IJ=12°C	COPd	<u> </u>	-
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	- kW	Tj=-15°C	COPd	-	-
Bivalent temperature	-		Operating limit temperature			
heating / Average	Tbiv	-7 °C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	- °C	heating / Colder	Tol	-	°C
	I					
Cycling interval capacity			Cycling interval efficiency			
for cooling	Pcvcc	- kW	for cooling	EERcvc	-	-
for heating	Pcvch	- kW	for heating	COPeve	-	1-
g		1			11	1
Degradation coefficient			Degradation coefficient			
cooling	Cdc	0.25	heating	Cdh	0.25	7-
loooning	Gut	0.20	Incounty	Juli	0.20	1
Electric power input in power m	indes other than 'activ	e mode'	Annual electricity consumption			
off mode		<b>45</b> \\\/	cooling	000	700	k/M/b/o
standby mode		45	beating (Average	Obe	2704	k\M/b/c
thermostet off reads	PSD Pt-	40 00	heating / Average		3/31	kvvil/a
	PIO		heating / warmer	Qne	-	KVVII/a
crankcase neater mode	Рск	UV	Ineating / colder	Qhe	-	kvvn/a
Capacity control(indicate one of	r three options)		Other items			<b>1</b>
			Sound power level(indoor)	Lwa	46	dB(A)
			Sound power level(outdoor)	Lwa	68	dB(A)
fixed	No		Global warming potential	GWP	1975	kgCO2eq.
staged	No		Rated air flow(indoor)	-	468	m3/h
variable	Yes		Rated air flow(outdoor)	-	4500	m3/h
Contact details for obtaining	Name and	address of the r	nanufacturer or of its authorised represen	tative.		
more information	MITSUBISHI HEAVY	INDUSTRIES F	UROPE, LTD.	-		
	AIR-CONDITIONING	DIVISION				
	4th Floor Internations	al Buildings 71 K	ngsway, London, WC2B 6ST United King	adom		
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## INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR CONDITIONERS

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Air-Conditioning & Refrigeration Systems 16-5, Konan 2-chome, Minato-ku, Tokyo, 108-8215 Japan http://www.mhi.co.jp

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