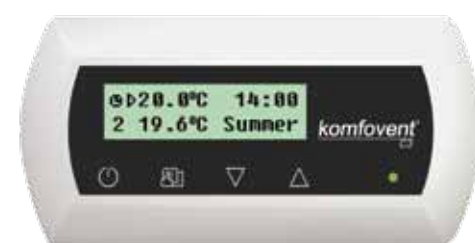


The Units Automatic Control System



Digital automatic control system ensures safe unit operation, controls preset ventilation system parameters optimizing operating cost of the equipment. Air handling units are available with C3 type controllers.

Unit automatic control function	C3
Unit mode selection: On / Off / Auto	•
Setting intensity level (1, 2, 3)	•
Adjusting of intensity levels every 1% for each fan*	•
Exhaust air flow correction*	•
Constant air flow control and indication (CAV)*	•
Weekly schedule programming	•
Setting temperature from the panel 15-30°C	•
Temperature control selection: Supply / Room / Auto	•
Temperature setpoint sliding +/- 9°C for time period	•
Season setting: Summer / Winter / Auto	•
Cooling energy recovery	•
Correction of ventilation intensity in winter time	•
Remote control via external contact	•
Remote unit failure indication	•
Choosing of panel language (1 of 15)	•
Errors indication and registration log (50 events with time, date in the panel)	•
Settings menu blocking with PIN	•
Air quality control**	•
Summer night cooling**	•
VAV control**	•
OVR function**	•
Unit PC control**	•

* except 3 speed fan control.
** additionally ordered function.

Why Komfovent could be the best choice?



KOMFOVENT producer:

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KOMPAKT Air Handling Units



Healthy and energy efficient indoor climate

The KOMFOVENT KOMPAKT is heat recovery air handling unit designed to create simple but efficient indoor ventilation system. The primary purpose is to ensure comfort conditions and healthy environment that is vital for people well being.

The KOMFOVENT KOMPAKT air handling units are developed to meet requirements of the Scandinavian market, applying and making use of all our gained operational experience in this sphere. Due to inventive and attractive design, using the best materials and the newest technologies, ventilation equipment KOMFOVENT KOMPAKT offers a great opportunity to keep running costs low, be safe, reliable and durable in operation. Units are delivered with complete automatic control. Modern digital controller is easy to operate, allow customer to be flexible in setting, changing and monitoring unit operating functions and parameters.

The fully automatic compact heat recovery air handling units with cross-flow plate heat exchanger or rotary heat exchanger are intended for comfort ventilation of residential buildings, schools, kindergartens, offices, coffee-houses, conference-halls and other type of premises. The units are remarkable for very simple installing, easy maintenance and efficient operation.

Sizing and field of application

- Sizes 400-900 are intended for individual houses and smaller public premises.
- Sizes 1200-7000 are intended for various types of public premises: shops, cafes, restaurants, hairdresser's parlour, offices, hotels, kindergartens, schools, etc.

Effective heat energy saving

The efficiency of an aluminum cross flow plate heat exchanger amounts up to 65%.
The efficiency of an aluminum rotary heat exchanger comes up to 85%.

Simple installation

The air handling units are manufactured in horizontal and vertical versions. The units are small-sized, so user will easily find a place to position them in the attic, basement, or other premises. The air handling units are designed in a way that it is possible to carry them into a room through a standard dimensions building door. (If a unit is wider than 700 mm it has sectional design.) After the unit has been positioned you only have to connect it to a power supply and to mount a set of sensors supplied by the manufacturer. The units with a rotary heat exchanger do not produce any condensate, so there is no need to arrange drainage.

Easy operation

The air handling units are fully automatic and handy control panel operated. The unit being in service, the user only has to keep the unit clean and replace the air filters in proper time.

Effective insulation

Only the noncombustible mineral wool is used as an insulating material in the casing panels of the air handling units. The unit covering panels of 45 mm thick ensure extra silent operation and excellent thermal insulation.

Safe operation

The air handling unit doors are equipped with locks. Units are CE signed in compliance with EU directives fulfilling essential electric safety requirements.

Strong and durable casing

The casing panels of the air handling units are made of two galvanized steel sheets, the gap between which is filled with mineral wool. The outer surfaces of the casings are powder-painted. It results in maximum corrosion resistance.

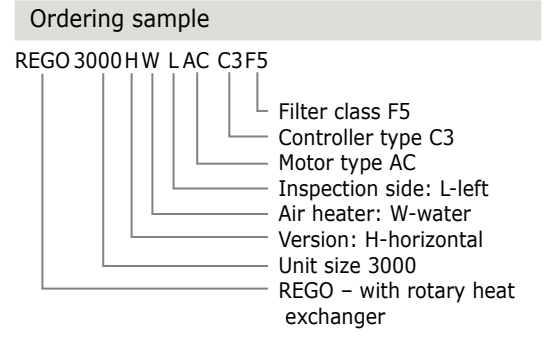
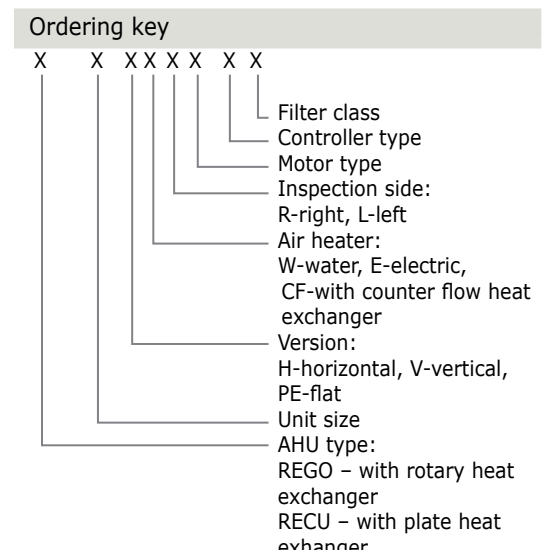
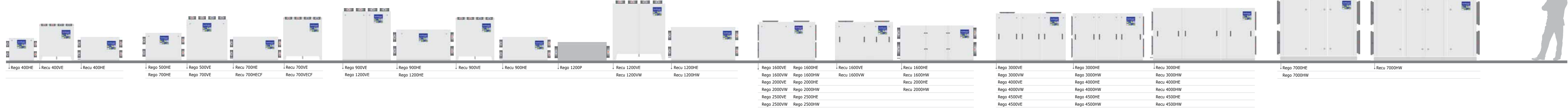
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KOMPAKT Air Handling Units Specifications



Unit size	400				500				700				900				1200				1600				2000				2500				3000				4000				4500				7000				Unit size																
General																																		General																															
AHU type	REGO	RECU	RECU	REGO	REGO	REGO	REGO	RECU	RECU	RECU	RECU	REGO	REGO	RECU	RECU	REGO	REGO	REGO	RECU	RECU	REGO	REGO	RECU	RECU	REGO	REGO	RECU	REGO	REGO	RECU	REGO	REGO	RECU	REGO	REGO	RECU	REGO	REGO	RECU	REGO	REGO	RECU	REGO	REGO	RECU	REGO	REGO	RECU	AHU type																
AHU version	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	vertical	horizontal	AHU version																	
Air volume range	m³/s	0.05-0.13	0.07-0.14	0.07-0.14	0.11-0.19	0.11-0.19	0.17-0.24	0.17-0.24	0.13-0.22	0.13-0.22	0.13-0.22	0.13-0.22	0.20-0.32	0.20-0.32	0.19-0.29	0.19-0.29	0.30-0.40	0.30-0.40	0.30-0.40	0.26-0.40	0.26-0.40	0.38-0.53	0.38-0.53	0.36-0.50	0.36-0.50	0.50-0.68	0.50-0.68	0.47-0.61	0.52-0.75	0.52-0.75	0.58-1.03	0.58-1.03	0.55-1.03	0.94-1.33	1.94-1.33	0.97-1.42	0.94-1.45	0.94-1.45	0.97-1.45	1.25-2.2	1.25-2.2	m³/s	Air volume range																						
	m³/h	200-450	250-500	250-500	400-700	400-700	600-850	600-850	450-800	450-800	450-800	450-800	750-1150	750-1150	700-1050	700-1050	1100-1450	1100-1450	1100-1450	950-1450	950-1450	1350-1900	1350-1900	1300-1800	1300-1800	1800-2450	1800-2450	1700-2200	1900-2700	1900-2700	2100-3700	2100-3700	2000-3700	3400-4800	3400-4800	3500-5100	3400-5200	3400-5200	3400-5200	4500-8000	4500-8000	m³/h	Air volume range																						
Dimensions B, H, L	B mm	510	390	390	635	635	635	635	490	490	485	485	795	795	490	490	930	795	795	700	700	900	900	700	700	900	900	700	900	900	790	1150	1150	790	1150	1150	790	1500	1500	B mm	Dimensions B, H, L																								
	H mm	580	870	600	1050	635	1050	700	1040	600	1145	700	1195	795	1040	600	470	1270	795	1460	860	990	990	1435	900	990	990	900	990	990	1215	1215	1365	1215	1215	1365	1215	1215	1365	1520		1520	H mm	Dimensions B, H, L																					
	L mm	640	870	1000	1060	930	1060	930	1000	1170	1020	1500	1250	1400	1000	1170	1270	1250	1400	1360	1670	1500	1500	1470	1900	1500	1500	1900	1500	1500	1800	1800	2655	1800	1800	2655	1800	1800	2655	1930		2640	L mm		Dimensions B, H, L																				
Approximately weight	kg	48	62	55	140	90	140	90	85	75	95	100	175	165	90	78	120	180	170	225	195	200	270	280	300	290	320	330	285	290	325	330	290	295	440	440	530	540	450	450	605	620	450			450	605	620	776	802	kg	Approximately weight													
Insulated panel thickness	mm	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		45	45	45	45	mm	Insulated panel thickness														
Duct connections	mm	Ø 160	Ø 160	Ø 200	Ø 250	Ø 200	Ø 250	Ø 250	Ø 200	Ø 250	Ø 200	Ø 250	Ø 250	Ø 200	Ø 250	Ø 315	Ø 250	Ø 315	Ø 250	Ø 315	Ø 315	400x300	400x300	Ø 315	Ø 355	400x300	400x300	Ø 355	400x300	400x300	400x400	600x500	600x500	400x400	600x500	600x500	400x400	600x500	600x500	400x400	600x500	600x500	1200x600	1200x600	mm	Duct connections																			
Maximal operating current	A	6.2	10.1	10.7	5.8	6.9	5.8	6.9	10.8	11.5	10.8	11.5	12.9	13.7	12.9	13.7	11.5	11.5	6.6	10.2	2.75	6.1	10.3	9.3	10.3	9.3	8.7	12.3	12.3	14.3	14.3	12.4	12.4	23.2	23.2	17.4	17.4	32.1	17.1	17.1	16.8	16.8	29.7	25.5	25.5	38.4	27.3	27.3	40.2	9.9	9.6	A	Maximal operating current												
Supply voltage	V/Hz	1 ~ 230/50												3 ~ 400/50												E 3 ~ 400/50, W 1 ~ 230/50												3 ~ 400/50												V/Hz	Supply voltage														
TECHNICAL DETAILS																																																																	
DIRECT DRIVEN CENTRIFUGAL FANS																	DIRECT DRIVEN CENTRIFUGAL FANS																																																
Type fans: B, F, S, D, K*	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	Type fans: B, F, S, D, K*																				
Motor type AC or EC**	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	Motor type AC or EC**																	
Power	W	105	135	105	135	105	139	155	139	155	240	164	240	164	240	164	240	164	164	164	310	395	310	395	235	170	235	170	405	405	405	405	405	420	420	420	420	480	480	480	635	635	990	990	990	1000	1000	1000	1700	1700	1700	2730	2730	W	Power										
EXCHANGER																																																																	
Type	rotary	plate	plate	rotary	rotary	rotary	rotary	plate	plate	counter cross-flow	counter cross-flow	rotary	rotary	plate	plate	rotary	rotary	rotary	plate	plate	rotary	rotary	plate	plate	rotary	rotary	plate	rotary	rotary	plate	rotary	rotary	plate	rotary	rotary	plate	rotary	rotary	plate	rotary	rotary	plate	rotary	rotary	Type																				
HEATER																																																																	
Type (electric E or water W)	E	E	E	E	E	E	E	E	E	E	E	E	E	E	W	E	E	E	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	Type (electric E or water W)																		
Maximal capacity	kW	1	2	2	1	1	2	2	2.5	2.5	2	2	3	3	3	4.5	4.5	4	4.5	4.5	4.7	6	9.5	6	9.5	4.5	6	4.5	6	12	23	12	23	7.5	15	7.5	15	18	26	7.5	15	7.5	15	9	15	9	15	18	26	15	28	15	28	24	45	15	28	15	28	24	45	28	35	kW	Maximal capacity
FILTERS																																																																	
Standard filter class (supply/exhaust)	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	Standard filter class (supply/exhaust)															

Notes:
 * B – backward curved; F – forward curved; S – single inlet; D – dual inlet; K – plug fan
 ** AC – alternating current, EC – electronically commutated
 F7 class air filters – on request.



Determination of Inspection side:
 Right side: Looking to Air Handling Unit from inspection door side, supply air fan is on the right side.
 Left side: Looking to Air Handling Unit from inspection door side, supply air fan is on the left side.