

KOMFORT RoTo EC S 202

Air handling units with rotary heat exchanger

Features

- Air handling units for efficient supply and exhaust ventilation in flats, houses, cottages and other buildings.
- Heat recovery is provided by the rotary heat exchanger and minimizes ventilation heat losses
- Controllable air exchange for creating the best suitable indoor microclimate.



Air flow:
up to 270 m³/h
75 l/s



Heat recovery efficiency:
up to 94 %



Design

- The fan casing is made of galvanized steel, internally filled with mineral wool layer for heat and sound insulation.
- The insulation is 25 mm thick.
- KOMFORT Roto EC S... 202 L – left-handed unit.
- KOMFORT Roto EC S... 202 R – right-handed unit.

Air filtration

- Two built-in **Coarse > 60% (G4)** filters provide efficient supply air filtration.
- Supply **ePM1 65% (F7)** filter available as an option.

Heater

- Units **KOMFORT Roto EC SE 202**, **KOMFORT Roto EC SKE 202** are equipped with an electric heater.

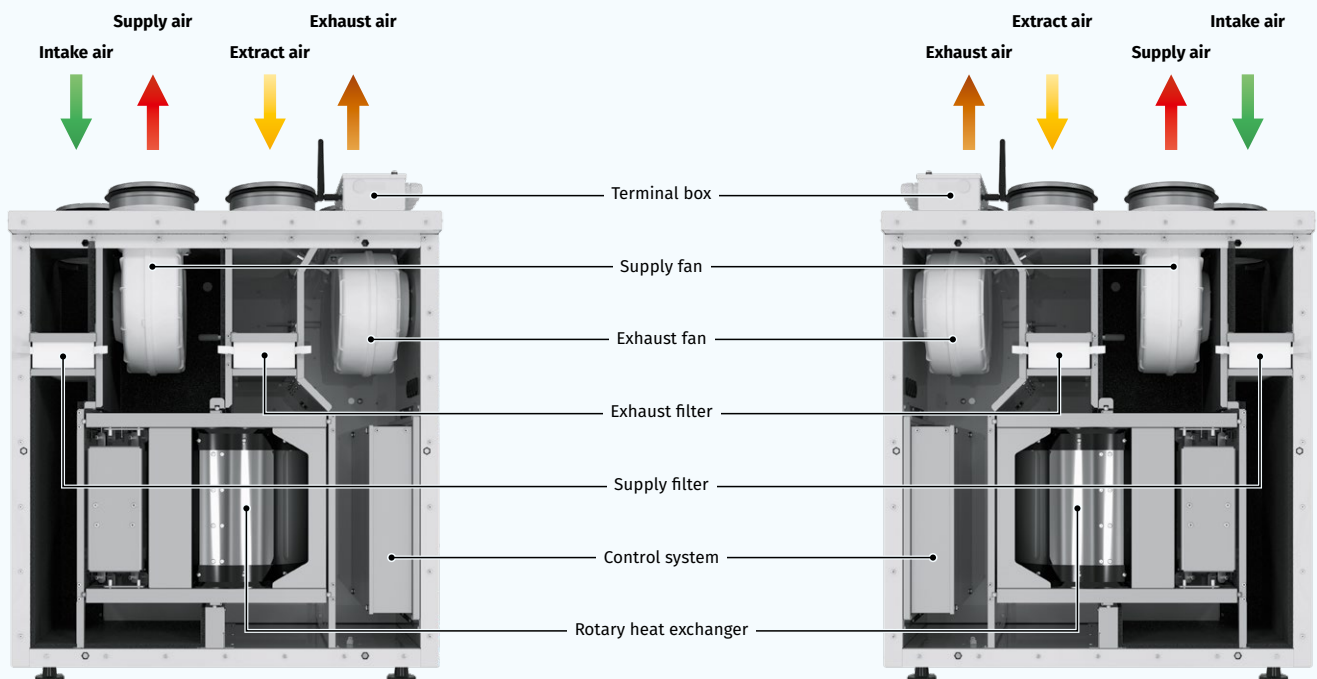
Decorative panel

- **Blauberg EP-Roto EC SKE 200 Hi-tech** – stainless steel decorative panels for improving appearance of the products (only for **KOMFORT Roto EC SK(E) 202** units).



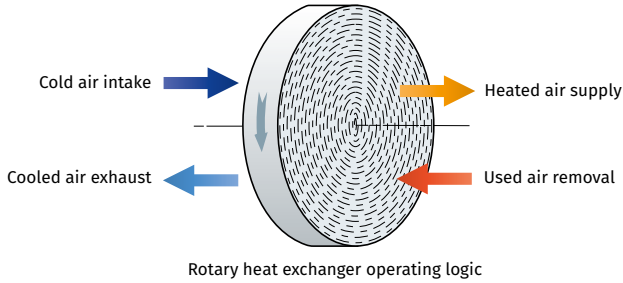
KOMFORT ROTO EC S 202 L

KOMFORT ROTO EC S 202 R



Heat recovery

- The unit has a high-efficient rotary heat exchanger.
- The advantages of the rotary heat exchanger as compared to plate heat exchangers include no condensate generation, maintaining comfort air humidity and high freeze resistance.



Control and automation

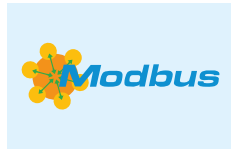
- The units are equipped with an integrated automation system. The remote control panel is not included in the delivery set (purchased separately).
- The S21 controller allows to integrate the unit into the **Smart Home** system or **BMS (Building Management System)**.
- Unit control is done via Wi-Fi using the mobile application **Blauberg Home**.






Download the Blauberg Home app for Android



Download the Blauberg Home app for iOS



Automation functions

Functions	Description
Unit control via Wi-Fi using a mobile application	+
Unit control via a wired remote control panel	S22 control panel (option) 
Unit control via a wireless remote control panel	S22 Wi-Fi control panel (option) 
Unit control via a wired remote LCD control panel	S25 control panel (option) 
BMS (Building Management System)	RS-485
	Wi-Fi
	Ethernet
	MODBUS (RTU, TCP)
Blauberg Cloud Server service	+
Speed selection	+
Filter replacement indication	by filter timer
Alarm indication	+
Week-scheduled operation	+
Bypass	automatic
	manual
Timer	+
Boost mode	+
Fireplace mode	+
Freeze protection	+
Minimum supply air temperature control	+
Humidity control	option
CO₂ control	option
VOC control	option
PM2.5 control	option
Fire alarm sensor connection	option

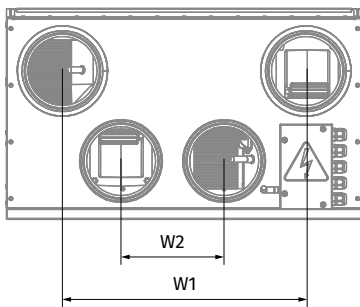
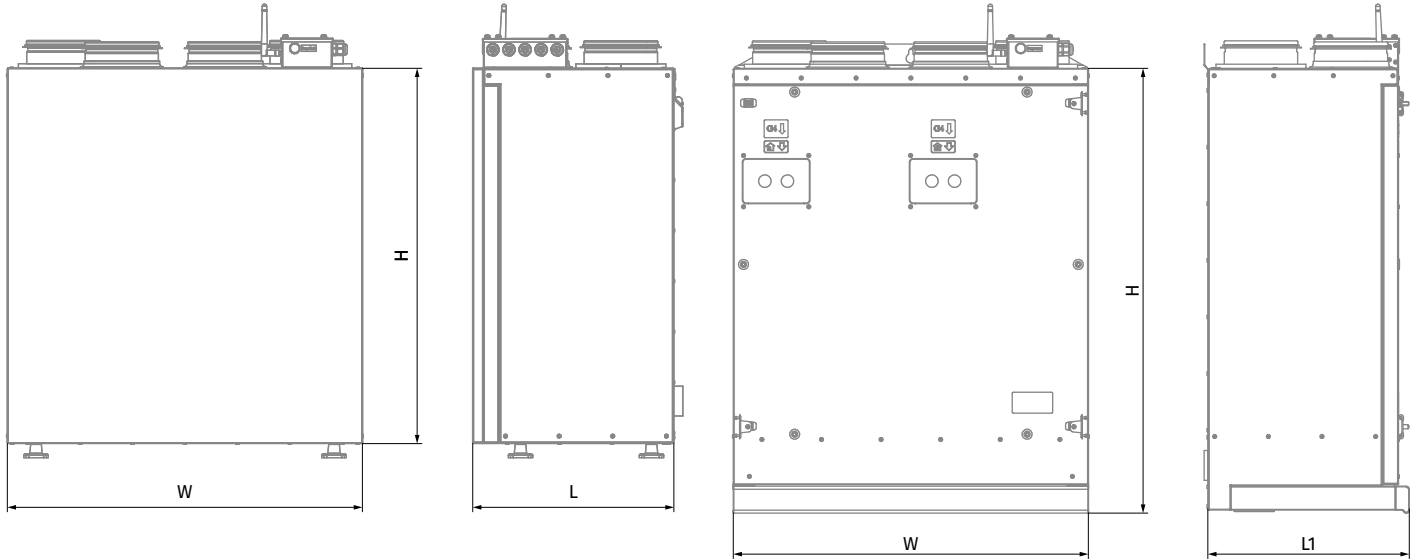
Option: the function is available when purchasing the appropriate accessory (see the "Accessories" section).

Designation key

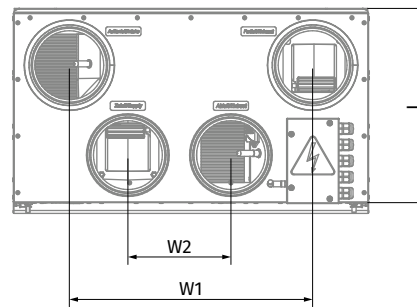
Series	Motor	Casing type	Casing modification	Size (Nominal airflow / 10)	Modification	Heat exchanger type	Unit version	Control system
KOMFORT Roto	EC: electronically commutated motor	S: vertical	_: w/o heater E: integrated electric heater K: integrated white hood S: integrated stainless steel hood	20: nominal airflow [m ³ /h]	2: by default	_: Condensing rotor -E: Enthalpy rotor	L: left version R: right version	S21

Dimensions [mm]

Model	H	L	L1	W	W1	W2
KOMFORT Roto EC S(E) 202	630	338	-	596	408	173
KOMFORT Roto EC SK(E) 202	746	326	338	596	408	173



KOMFORT Roto EC S(E) 202



KOMFORT Roto EC SK(E) 202

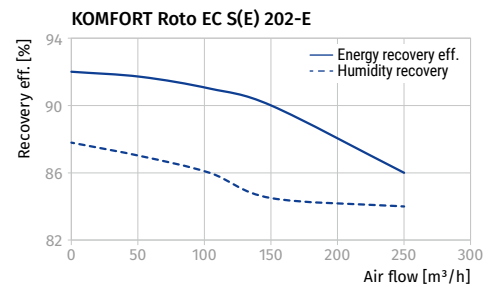
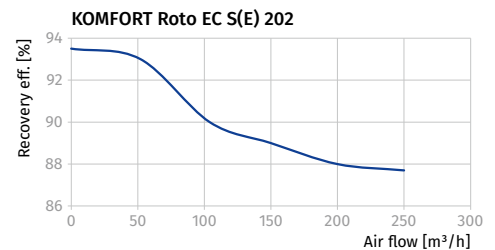
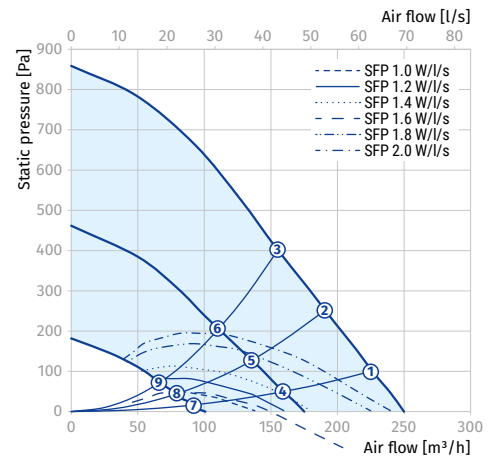
RESIDENTIAL ROTARY AHU

Technical data

Parameters	KOMFORT Roto EC S 202 L/R S21	KOMFORT Roto EC S 202-E L/R S21	KOMFORT Roto EC SE 202 L/R S21	KOMFORT Roto EC SE 202-E L/R S21
Voltage [V / 50-60 Hz]	1~ 230	1~ 230	1~ 230	1~ 230
Max. unit power without electric heater [W]	187	187	187	187
Integrated electric heater power [W]	-	-	700	700
Max. unit power [W]	187	187	887	887
Max. unit current without electric heater [A]	1.1	1.1	1.1	1.1
Integrated electric heater current [A]	-	-	3.1	3.1
Max. unit current [A]	1.1	1.1	4.2	4.2
Max air flow [m³/h]	250	250	250	250
Sound pressure level at 3 m distance* [dBA]	24	24	24	24
Transported air temperature [°C]	-25...+40	-25...+40	-25...+40	-25...+40
Case material	painted steel	painted steel	painted steel	painted steel
Insulation	25 mm, mineral wool	25 mm, mineral wool	25 mm, mineral wool	25 mm, mineral wool
Extract filter	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)
Connected air duct diameter [mm]	125	125	125	125
Weight [kg]	46	46	46	46
Heat recovery efficiency [%]	93	86	93	86
Heat exchanger type	Condensing	Enthalpy	Condensing	Enthalpy
SEC class	A	A	A	A

* Sound pressure level [dBA] at 3 m distance is specified at point 4 in average spherical free-field, for comparative use only

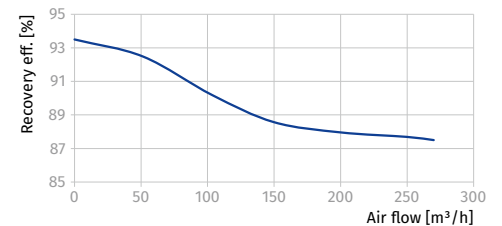
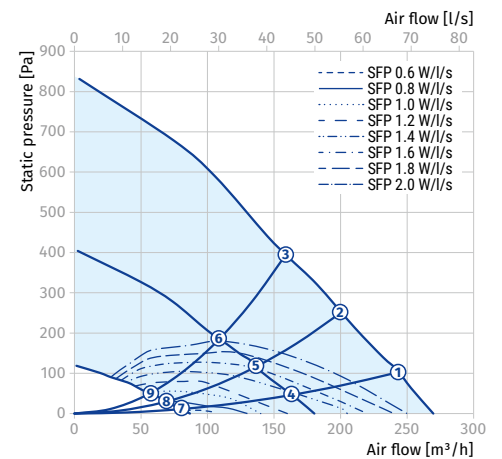
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L _{WA} to supply inlet [dBA]	51	44	39	47	41	38	36	36	29	31	41
L _{WA} to supply outlet [dBA]	66	40	48	50	49	55	56	50	50	46	56
L _{WA} to exhaust inlet [dBA]	51	32	35	38	40	40	41	33	31	31	41
L _{WA} to exhaust outlet [dBA]	58	30	37	46	52	49	50	48	43	38	48
L _{WA} to environment [dBA]	53	33	36	39	33	35	47	42	34	33	43
Point 4											
L _{WA} to supply inlet [dBA]	43	33	31	39	34	32	31	31	24	22	31
L _{WA} to supply outlet [dBA]	60	36	43	45	44	52	47	41	40	39	48
L _{WA} to exhaust inlet [dBA]	45	30	29	32	35	36	31	25	22	24	33
L _{WA} to exhaust outlet [dBA]	50	22	29	38	44	42	43	41	37	29	38
L _{WA} to environment [dBA]	45	30	29	32	29	32	37	34	25	24	33
















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Parameters	KOMFORT Roto EC SK 202	KOMFORT Roto EC SKE 202
Voltage [V / 50-60 Hz]	1 ~ 230	1 ~ 230
Max. unit power without electric heater [W]	171	171
Max. power of electric heater [W]	-	700
Max. unit power [W]	171	871
Max. unit current without electric heater [A]	1.31	1.31
Max. unit current of electric heater [A]	-	3.0
Max. unit current [A]	1.31	4.31
Max. air flow [m³/h]	270	270
Sound pressure level at 3 m distance [dBA]	33	33
Transported air temperature [°C]	-25...+40	-25...+40
Case material	polymer coated steel	polymer coated steel
Insulation	25 mm, mineral wool	25 mm, mineral wool
Extract filter	G4	G4
Supply filter	G4 (F7 optional)	G4 (F7 optional)
Connected air duct diameter [mm]	125	125
Weight [kg]	52	53
Heat recovery efficiency [%]	87-93	87-93
Heat exchanger type	rotary	rotary
Heat exchanger material	aluminum	aluminum
SEC class	A	A

* Sound pressure level [dBA] at 3 m distance is specified at point 4 in average spherical free-field, for comparative use only



Accessories

		KOMFORT Roto EC S 202(-E) S21 KOMFORT Roto EC SE 202(-E) S21	KOMFORT Roto EC SK(-E) 202 S21
Decorative panel		-	EP-Roto EC SKE 200 Hi-tech
G4 panel filter		FP 261x86x48 Coarse 90% G4	FP 261x86x48 Coarse 90% G4
F7 panel filter		FP 261x86x48 ePM1 60% F7	FP 261x86x48 ePM1 65% F7
LCD control panel		S25	S25
Control panel		S22	S22
Wireless control panel		S22 Wi-Fi	S22 Wi-Fi
Internal humidity sensor		FS2	-
Internal CO ₂ sensor		CD-3	-
CO ₂ sensor with indication		CD-1	CD-1
Humidity sensor		HR-S	HR-S
Silencer		SD 125	SD 125
Air damper		VKA 125	VKA 125
Electric actuator		TF230	TF230