

KOMFORT RoTo EC D 351

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 497 m³/h
138 l/s



Heat recovery efficiency:
up to 89 %



Design

- The unit casing is made of painted steel, internally filled with mineral wool layer for heat and sound insulation.
- The insulation is 40 mm thick.
- KOMFORT Roto EC D ... L – left-handed unit.
- KOMFORT Roto EC D ... R – right-handed unit.

Air filtration

- Two built-in **Coarse 90% (G4)** filters provide efficient supply air filtration.
- Supply **ePM1 65% (F7)** filter available as an option.

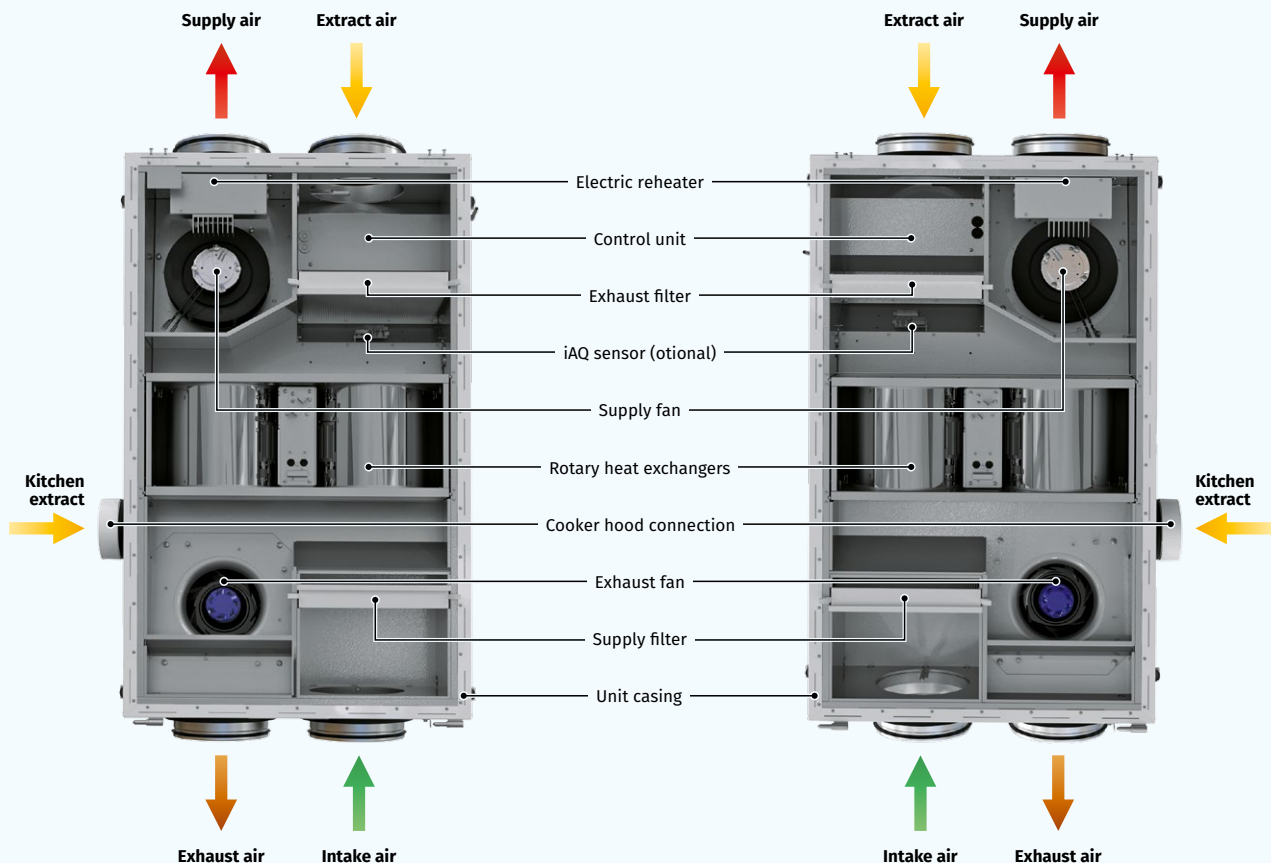
Heater

- Units **KOMFORT Roto EC DE** are equipped with an electric heater.

AIR HANDLING UNITS WITH ROTARY HEAT EXCHANGER

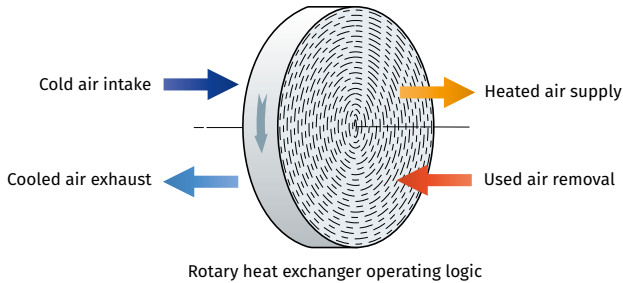
KOMFORT ROTO EC D 351 ... L

KOMFORT ROTO EC D 351 ... R



Heat recovery

- o The unit has an efficient rotary heat exchanger.
- o 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.
- o **KOMFORT Roto EC D ...** – equipped with condensing rotor.
- o **KOMFORT Roto EC D ... -E** – equipped with sorption rotor.



Control and automation

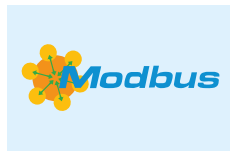
- o The units are equipped with an integrated automation system. The remote control panel is not included in the delivery set (purchased separately).
- o The S21 controller allows to integrate the unit into the **Smart Home** system or **BMS (Building Management System)**.
- o Unit control is done via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

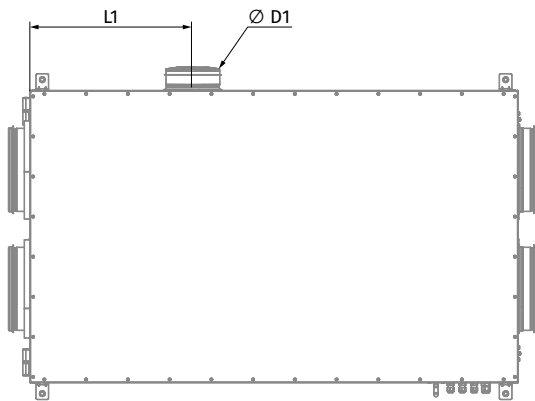
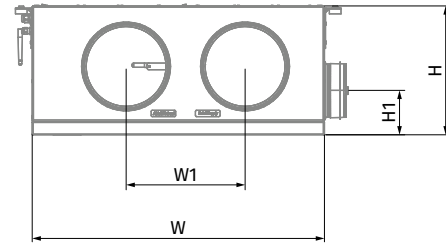
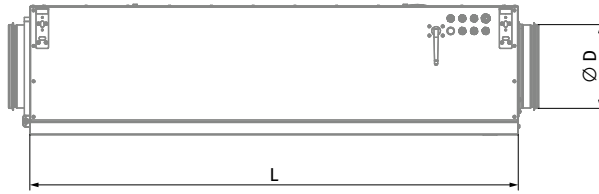
Designation key

Series	Motor	Casing type	Casing modification	Size (Nominal airflow / 10)	Modification	Heat exchanger type	Unit version	Control system
KOMFORT Roto	EC: electronically commutated motor	D: vertical	_: w/o heater E: electric reheater	35: 350 m³/h	1: by default	_: Condensing rotor -E: Sorption rotor	L: left version R: right version	S21

AIR HANDLING UNITS WITH ROTARY HEAT EXCHANGER

Overall dimensions [mm]

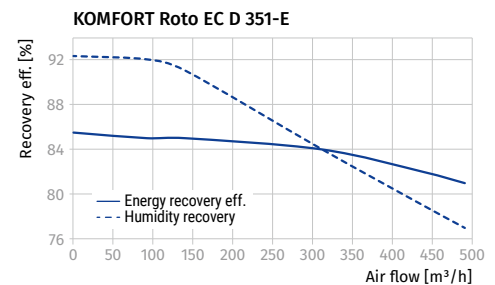
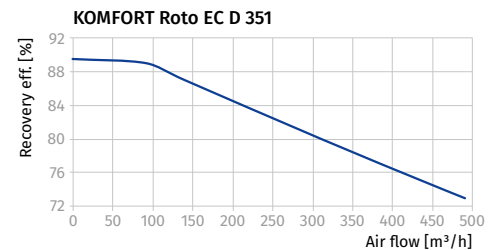
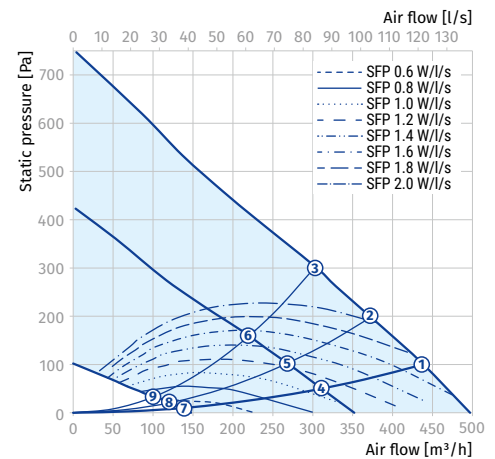
Model	Ø D	Ø D1	H	H1	L	L1	W	W1
KOMFORT Roto EC D	200	125	308	106	1170	387	700	285



Technical data













Parameters	Komfort Roto EC D 351 S21	Komfort Roto EC D 351-E S21	Komfort Roto EC DE 351 S21	Komfort Roto EC DE 351-E S21
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	211	211	211	211
Integrated electric heater power [W]	-	-	1200	1200
Max. unit power [W]	211	211	1411	1411
Max. unit current without electric heater [A]	1.54	1.54	1.54	1.54
Integrated electric heater current [A]	-	-	5.32	5.32
Max. unit current [A]	1.54	1.54	6.86	6.86
Max air flow [m³/h]	497	497	497	497
Sound pressure level at 3 m distance [dBA]	39	39	39	39
Max. operating temperature [°C]	-25...+40	-25...+40	-25...+40	-25...+40
Case material	Painted steel	Painted steel	Painted steel	Painted steel
Insulation	40	40	40	40
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]	200	200	200	200
Weight [kg]	78	79	81	82
Heat recovery efficiency [%]	89	85	89	85
Heat exchanger type	Condensing	Sorption	Condensing	Sorption
SEC class	A	A	A	A

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 environment [dBA]	59	42	50	49	46	47	45	36	31	39	48
Point 4											
L _{WA} to environment [dBA]	51	39	47	46	39	39	36	27	25	31	40



AIR HANDLING UNITS WITH ROTARY HEAT EXCHANGER

Accessories

		KOMFORT Roto EC D 351
G4 panel filter		FP 302x256x48 Coarse 90% G4
F7 panel filter		FP 302x256x48 ePM1 60% F7
LCD Control panel		S25
Control panel		S22
Wireless control panel		S22 Wi-Fi
Internal humidity sensor		FS2
Internal CO ₂ sensor		CD-3
CO ₂ sensor with indication		CD-1
Humidity sensor		HR-S
Silencer		SD 125
Air damper		VKA 125
Electric actuator		TF230