

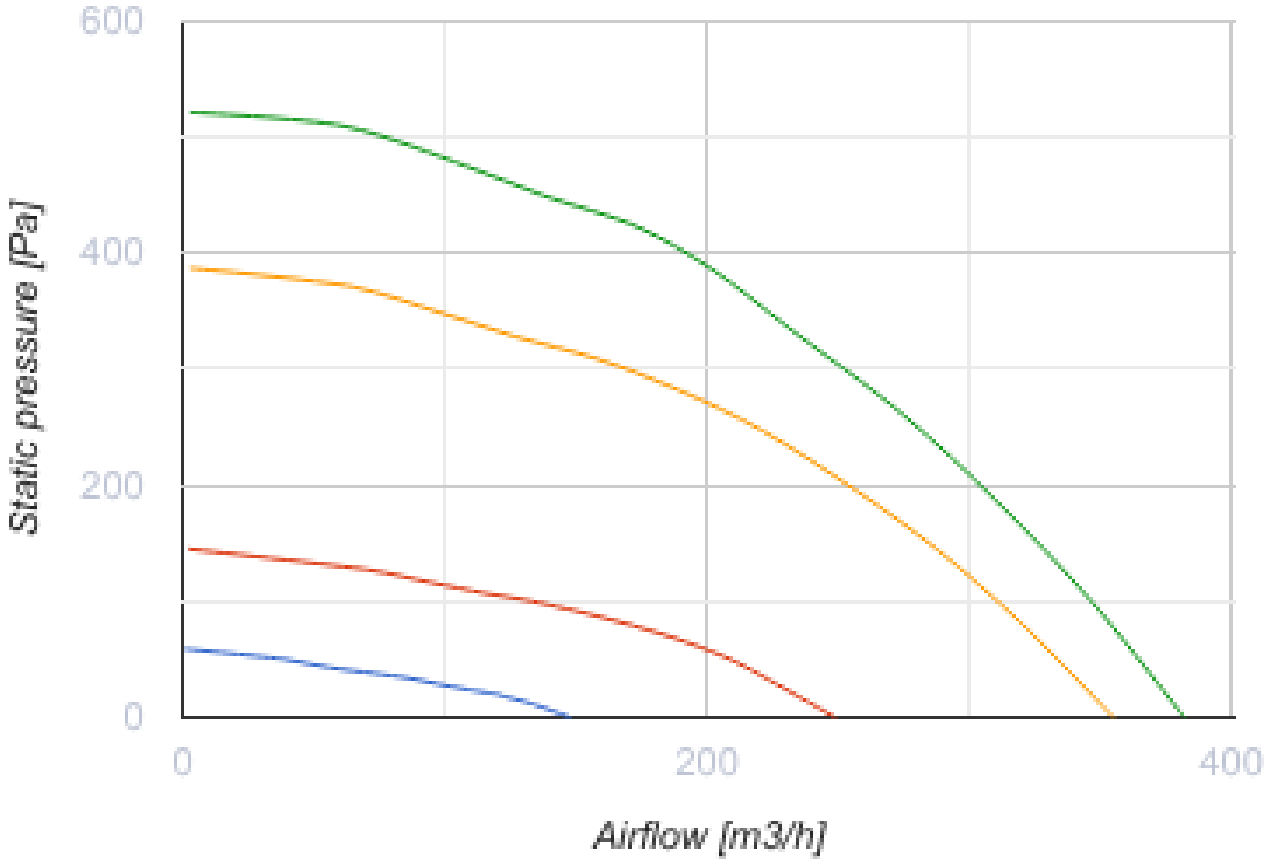
KOMFORT Roto EC S 281-E R S21

Air handling units with rotary heat exchanger

- Sound pressure level LpA at 3 m: 26
- Heat exchanger type: Sorption rotary
- Supply filter: G4 / Coarse > 60% (option F7 / ePM1 60%)
- Extract filter: G4 / Coarse > 60%
- Sound-insulated casing
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Coated steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

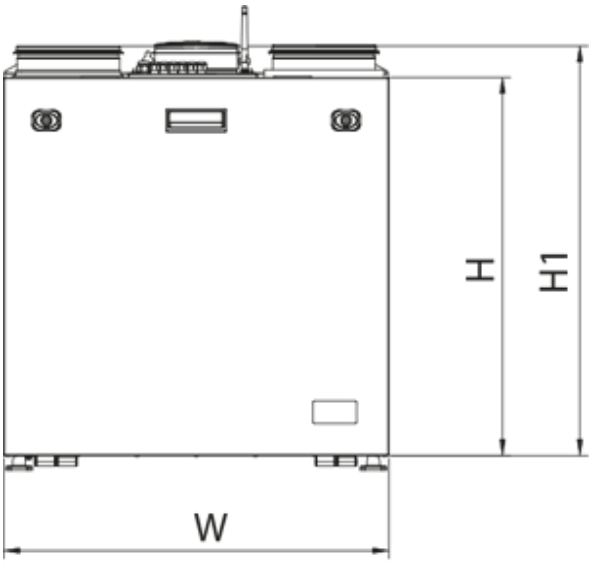
	Unit of measurement	KOMFORT Roto EC S 281-E R S21
Connected air duct size	mm	160
Phases	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	179
Unit current	A	1.34
Maximum airflow	m³/h	382
Sound pressure level LpA at 3 m	dB(A)	26
Heat recovery efficiency, max	%	86
Heat exchanger type	-	Sorption rotary
Weight	kg	57
Supply filter	-	G4 / Coarse > 60% (option F7 / ePM1 60%)
Extract filter	-	G4 / Coarse > 60%
Transported air temperature (max)	°C	40
Transported air temperature (min)	°C	-25
Ambient air temperature min	°C	1
Ambient air temperature max	°C	40
Ingress protection rating	-	IP22
Ambient air humidity max	%	60

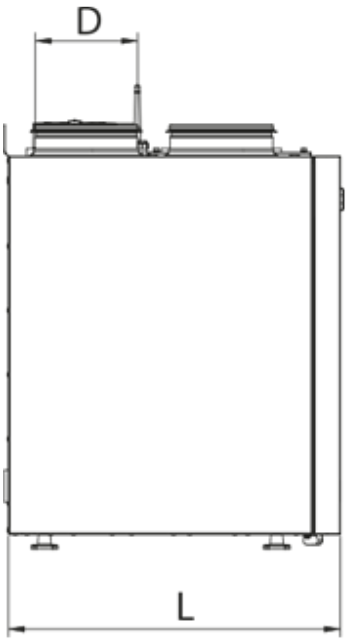
Ingress protection rating of the drive	-	IP44

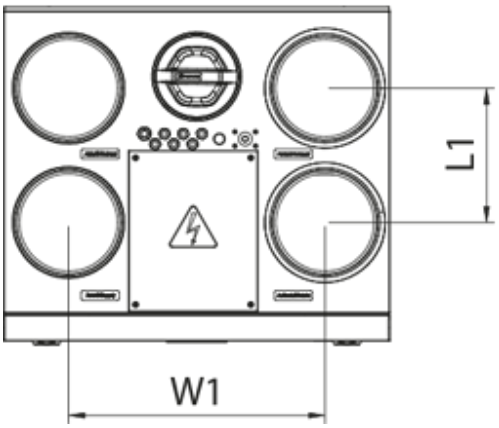


Dimensions

H	W	L	H1	W1	L1	D
588	598	515	638	397	209	160


H
H1
W


D
L


L1
W1

Ecodesign

Trademark	Blauberg					
Model	KOMFORT Roto EC S 281-E R S21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	-86.2	A+	-42.5	A+	-17.5	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Regenerative					
Thermal efficiency of heat recovery (%)	84					
Maximum flow rate (m³/h)	311					
Electric power input (W)	133					
Reference flow rate (m³/s)	0.061					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.239					
Control typology	Local demand control					
Maximum internal leakage rates (%)	2.7					
Maximum external leakage rates (%)	2.7					
Sound power level (dB(A))	47					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	126		126		126	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	8938		4569		2066	

Accessories

For round ducts

Name	Photo	Description
SD 160/600		Silencers for round ducts
SD 160/900		Silencers for round ducts

SD 160/1200		Silencers for round ducts

For round ducts

Name	Photo	Description
VKA 160		Air dampers for round ducts

Control Panels

Name	Photo	Description
S25		LCD control panel
S22		Control panels
S22 Wi-Fi		Control panels

CO2 sensors

Name	Photo	Description
CD-1		CO2 sensors

Humidity sensors

Name	Photo	Description
FS2		Humidity sensor

Electric actuators

Name	Photo	Description
Belimo TF230		Electric actuators

Other accessories

Name	Photo	Description
FP 428x220x40 ePM1 60% F7		F7 panel filter
FP 428x220x40 Coarse 90% G4		G4 panel filter