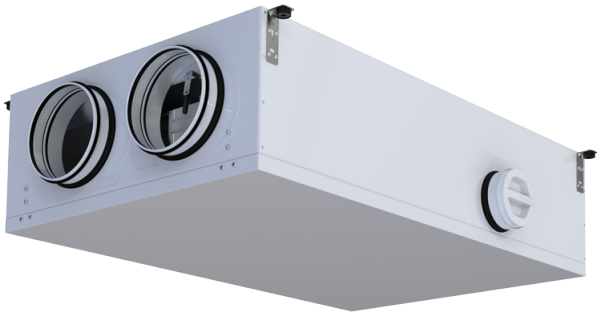


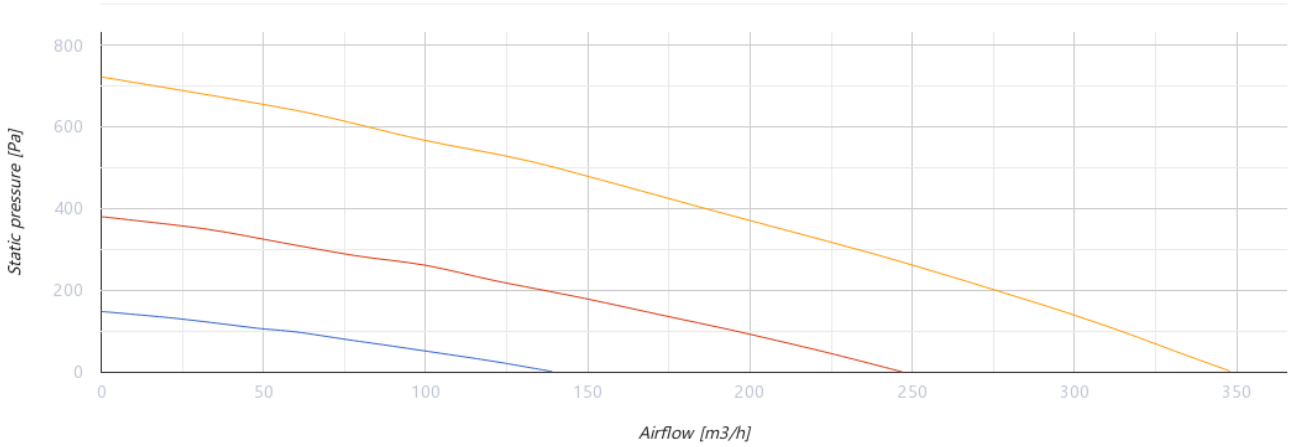
KOMFORT Roto EC DE 251-E R S21

Air handling units with rotary heat exchanger

- Power of electrical reheater: 800
- Sound pressure level LpA at 3 m: 23
- Heat exchanger type: Sorption rotary
- Supply filter: G4 / Coarse > 60% (option F7 / ePM1 60%)
- Extract filter: G4 / Coarse > 60%
- Sound-insulated casing
- Enthalpy heat exchanger
- Bypass: Auto
- Reheater: Built-in
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Coated steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

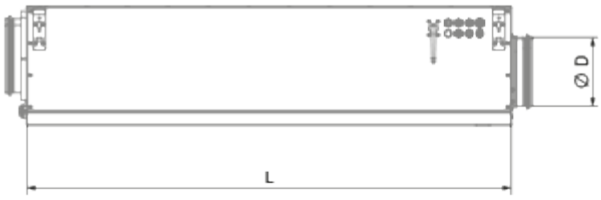
	Unit of measurement	KOMFORT Roto EC DE 251-E R S21
Phases	-	1
Maximum supply voltage	V	230
Minimum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	183
Power of electrical reheater	W	800
Unit current	A	4.95
Maximum airflow	m³/h	348
Sound pressure level LpA at 3 m	dB(A)	23
Heat recovery efficiency, max	%	82
Heat exchanger type	-	Sorption rotary
Weight	kg	62
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

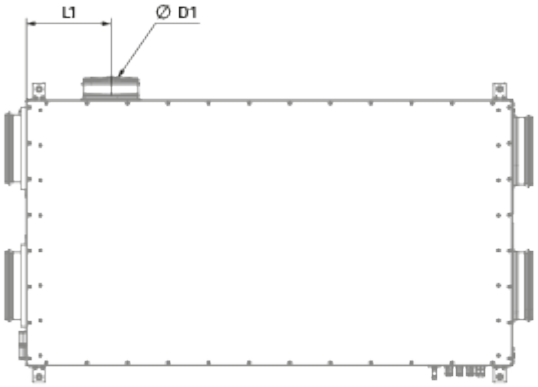
Ingress protection rating	-	IP22
Ingress protection rating of the drive	-	IP44
Ambient air humidity max	%	60

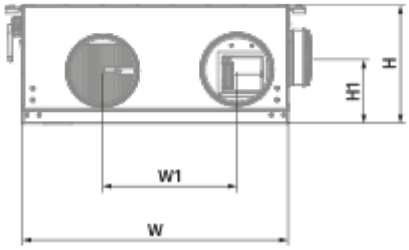


Dimensions

H	W	L	H1	W1	L1	D	D1
280	630	1150	155	319	200	160	125


Ø D
L


L1
Ø D1


H
H1
W1
W

Ecodesign

Trademark	Blauberg					
Model	KOMFORT Roto EC DE 251-E R S21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	-84.5	A+	-41.2	A	-16.4	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Regenerative					
Thermal efficiency of heat recovery (%)	82					
Maximum flow rate (m³/h)	314					
Electric power input (W)	178					
Reference flow rate (m³/s)	0.062					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.311					
Control typology	Local demand control					
Maximum internal leakage rates (%)	2.7					
Maximum external leakage rates (%)	2.7					
Sound power level (dB(A))	44					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	164		164		164	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	8857		4528		2047	

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
CD-3		Carbon dioxide sensor

Humidity sensors

Name	Photo	Description
FS2		Humidity sensor

Other accessories

Name	Photo	Description
FP 266x222x48 ePM1 60% F7		F7 panel filter

FP 266x222x48 Coarse 90% G4		G4 panel filter