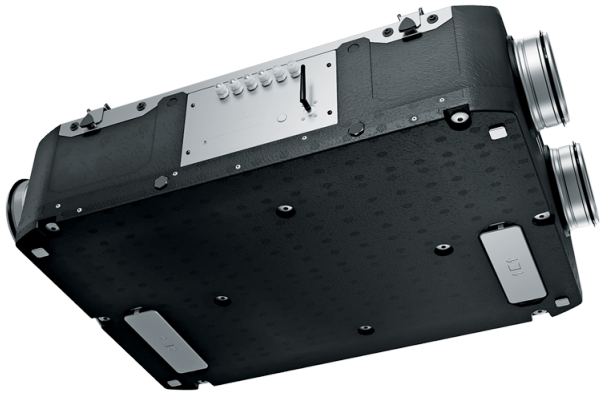
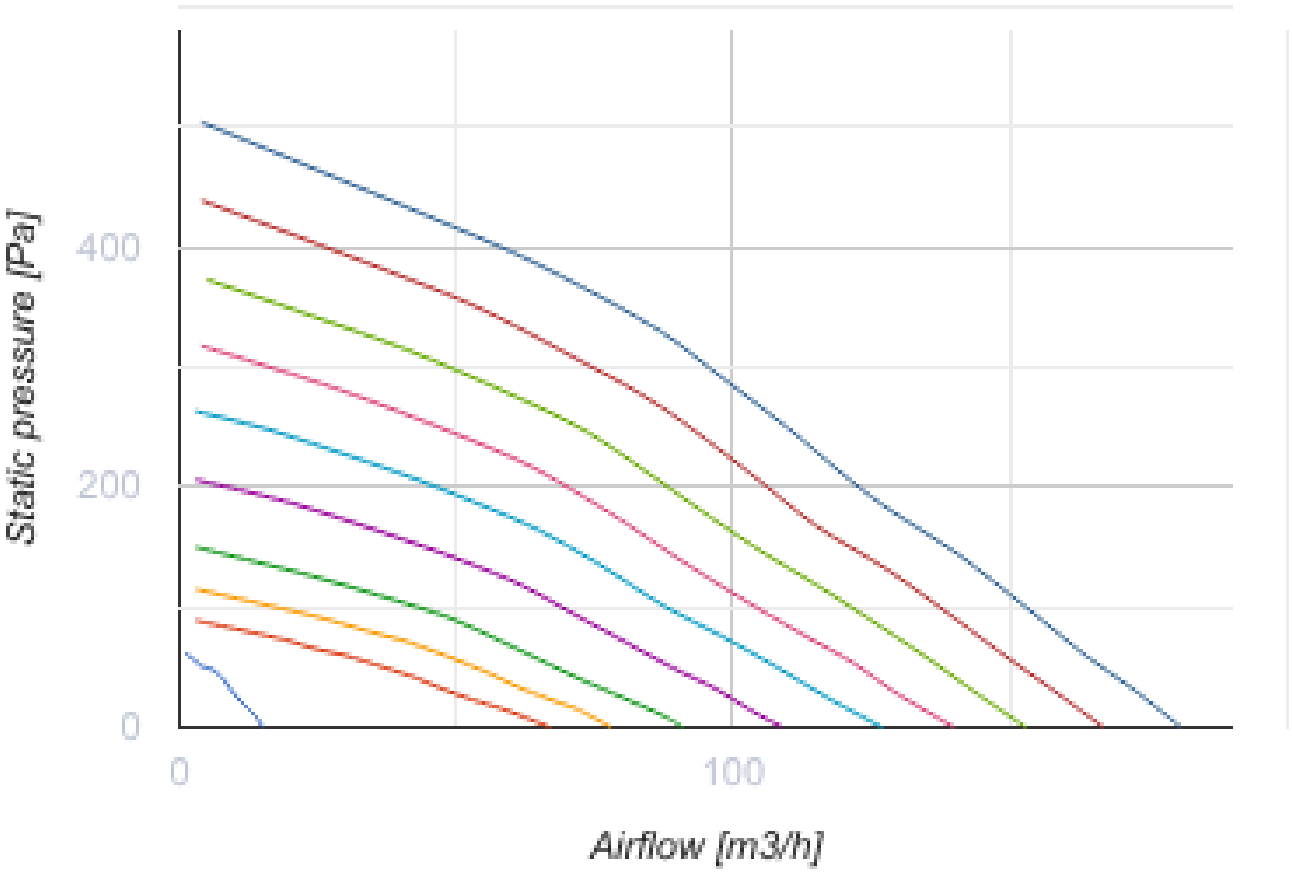


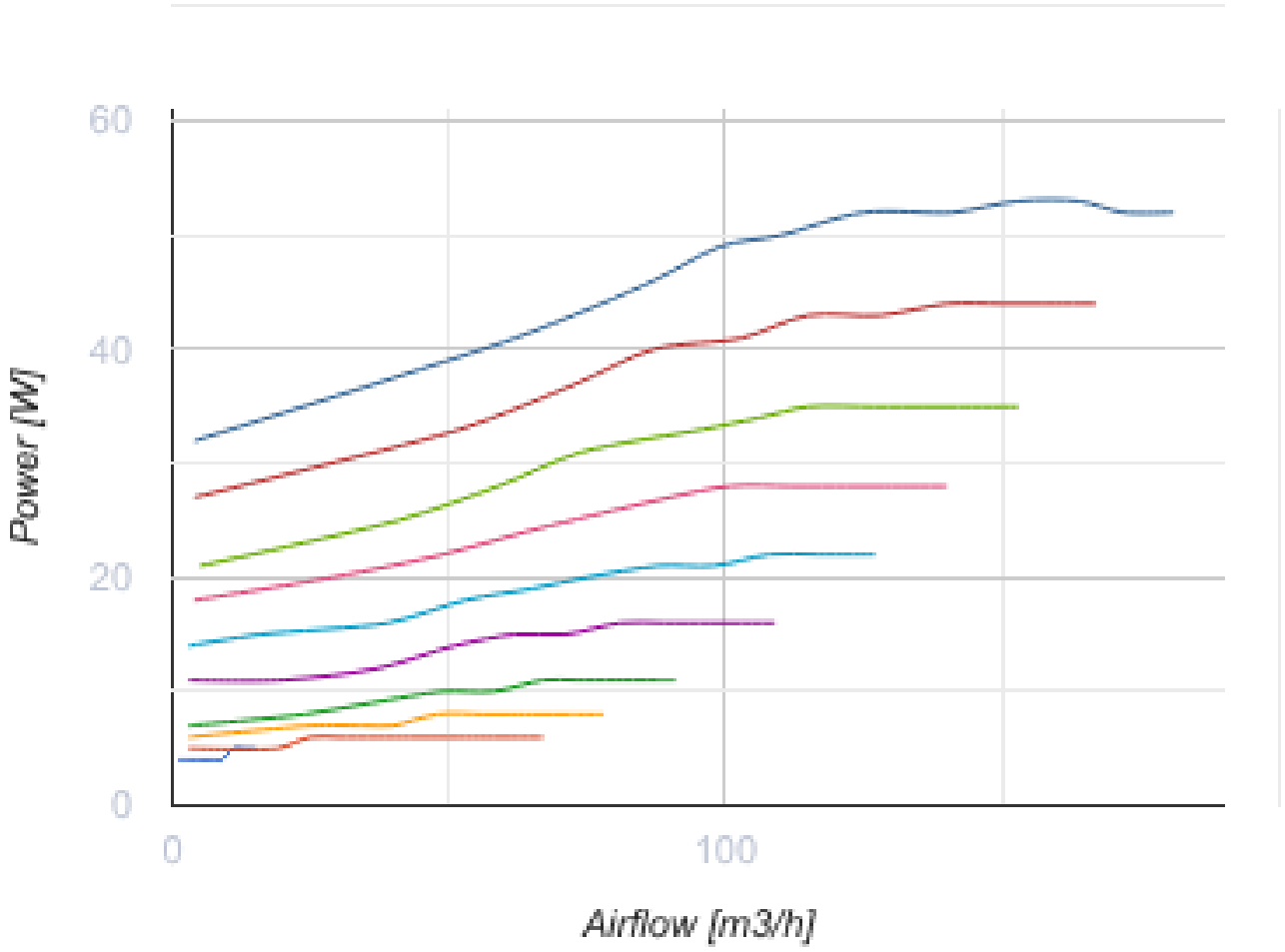
Reneo D 181 R S21

Heat and energy recovery air handling units

- Heat exchanger type: Counter flow
- Heat exchanger material: Polystyrene
- Sound-insulated casing
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: EPP
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

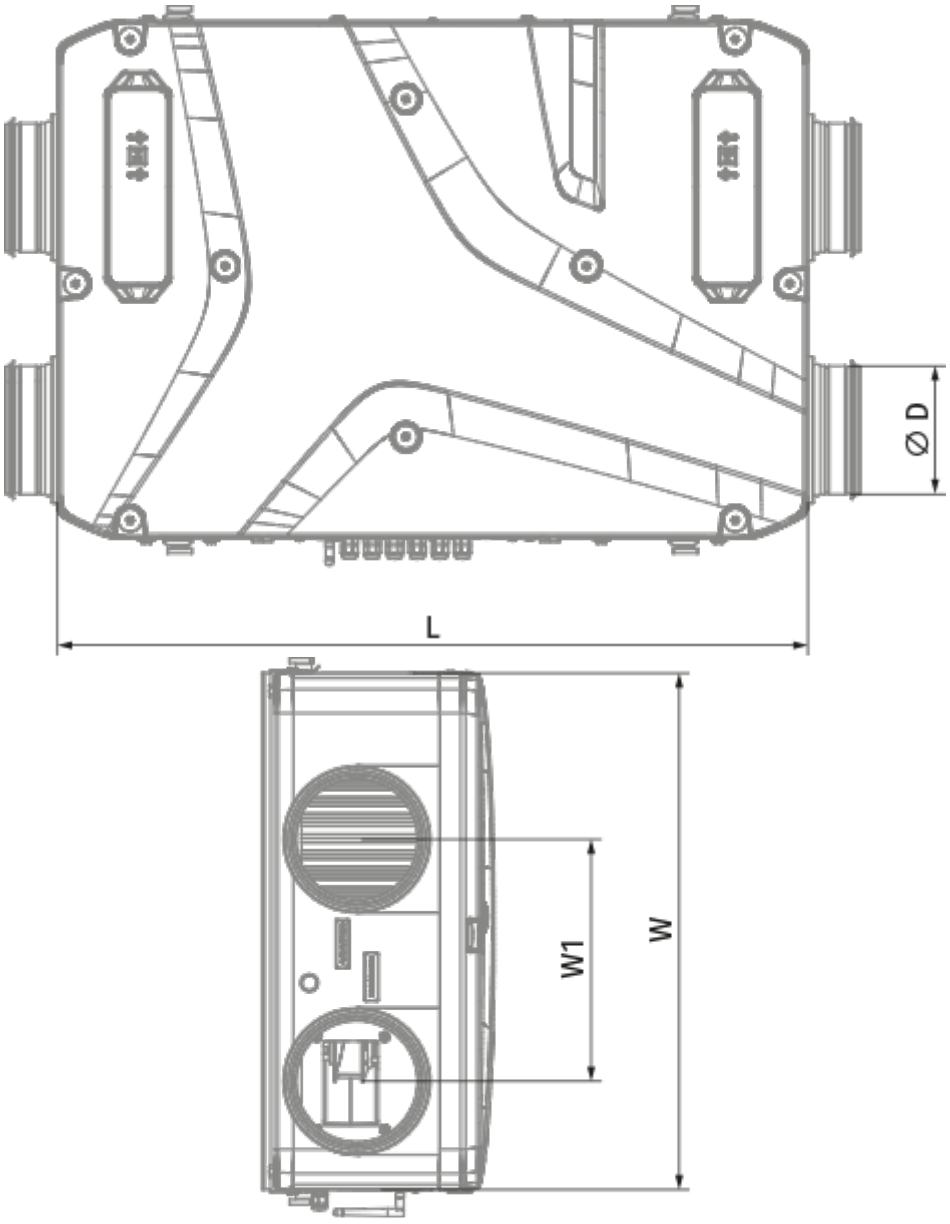
	Unit of measurement	Reneo D 181 R S21
Phases	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Maximum airflow	m^3/h	181
Heat recovery efficiency, max	%	91
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	12
Transported air temperature (max)	°C	45
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

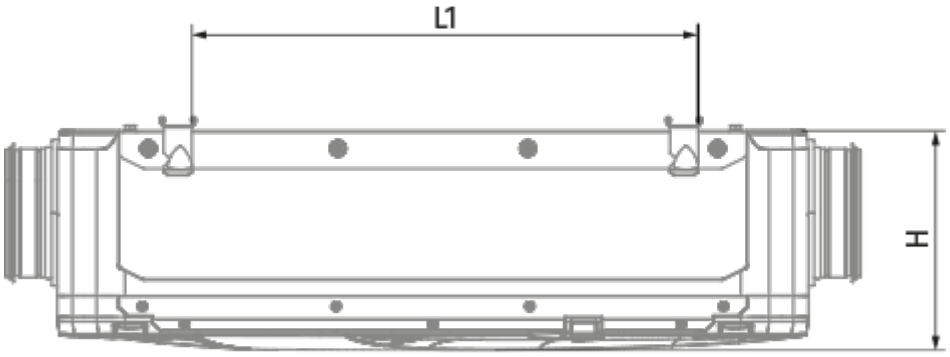

Static pressure [Pa]
400
200
0
0
100
Airflow [m3/h]



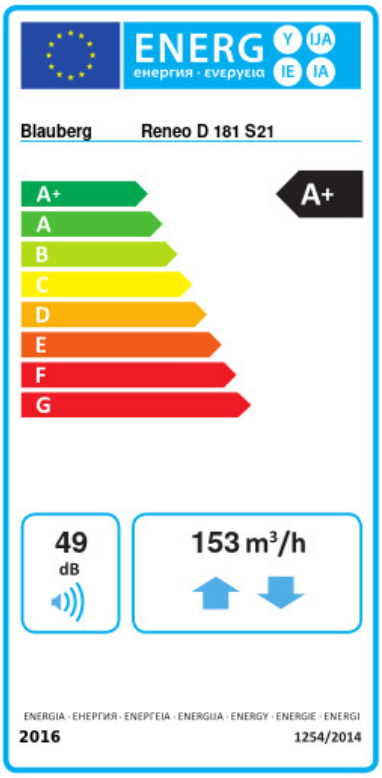
Dimensions

Ø D	H	L	L1	W / B	W1 / B1
160	272	930	617	640	300


Ø D
L
W1
W


L1
H

Ecodesign



Trademark	Blauberg					
Model	Reneo D 181 R S21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	-82.1	A+	-43.2	A+	-18.2	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	87					
Maximum flow rate (m³/h)	153					
Electric power input (W)	53					
Reference flow rate (m³/s)	0.03					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.204					
Control typology	Local demand control					
Maximum internal leakage rates (%)	2.7					
Maximum external leakage rates (%)	2.7					
Declared typology	RVU BVU					
Sound power level (dB(A))	49					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	690		153		108	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	9060		4631		2094	

Accessories

Condensation drainage

Name	Photo	Description
SFK 20x32		Hydraulic syphon for condensate drainage

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

Electrical heaters

Name	Photo	Description
EVH 160-0.8-1 S21 V.2		Electric duct preheater for heat exchanger freeze protection
EVH 160-1.2-1 S21 V.2		Electric duct preheater for heat exchanger freeze protection
EVH 160-1.7-1 S21 V.2		Electric duct preheater for heat exchanger freeze protection
EVH 160-2.0-1 S21 V.2		Electric duct preheater for heat exchanger freeze protection
ENH 160-0.8-1 S21 V.2		Duct heater for supply air reheating
ENH 160-1.2-1 S21 V.2		Duct heater for supply air reheating
ENH 160-1.7-1 S21 V.2		Duct heater for supply air reheating
ENH 160-2.0-1 S21 V.2		Duct heater for supply air reheating

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-2		CO2 sensors

Humidity sensors

Name	Photo	Description
FS2		Humidity sensor

Other accessories

Name	Photo	Description
FP 205x200x48 ePM1 60 % (F7)		F7 panel filter
FP 205x200x48 Coarse 90 % (G4)		G4 panel filter
EP-Reneo D 181		Decorative panel

Electric actuators

Name	Photo	Description
Belimo TF230		Electric actuators