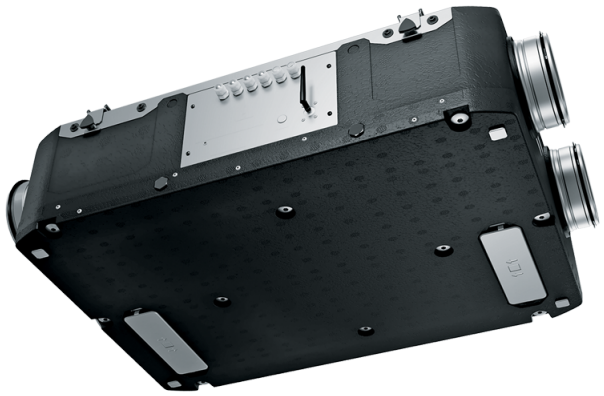


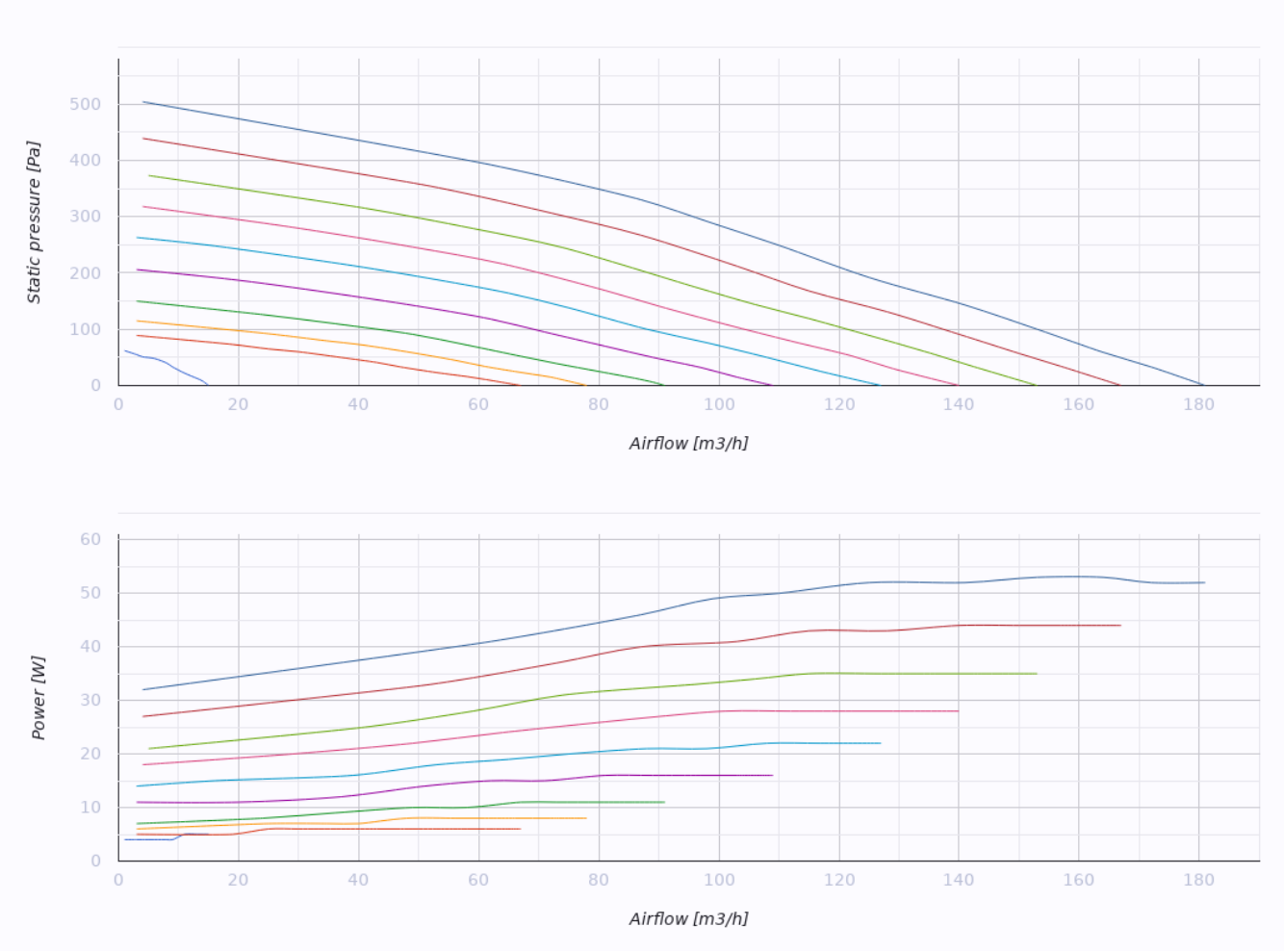
Reneo D 181-E R S21

Heat and energy recovery air handling units

- Sound pressure level LpA at 3 m: 29
- Heat exchanger type: Counter flow
- Heat exchanger material: Enthalpy
- Supply filter: Coarse > 60 % (G4) (option: ePM1 60 % (F7))
- Extract filter: Coarse > 60 %
- Sound-insulated casing
- Enthalpy heat exchanger
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: EPP
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

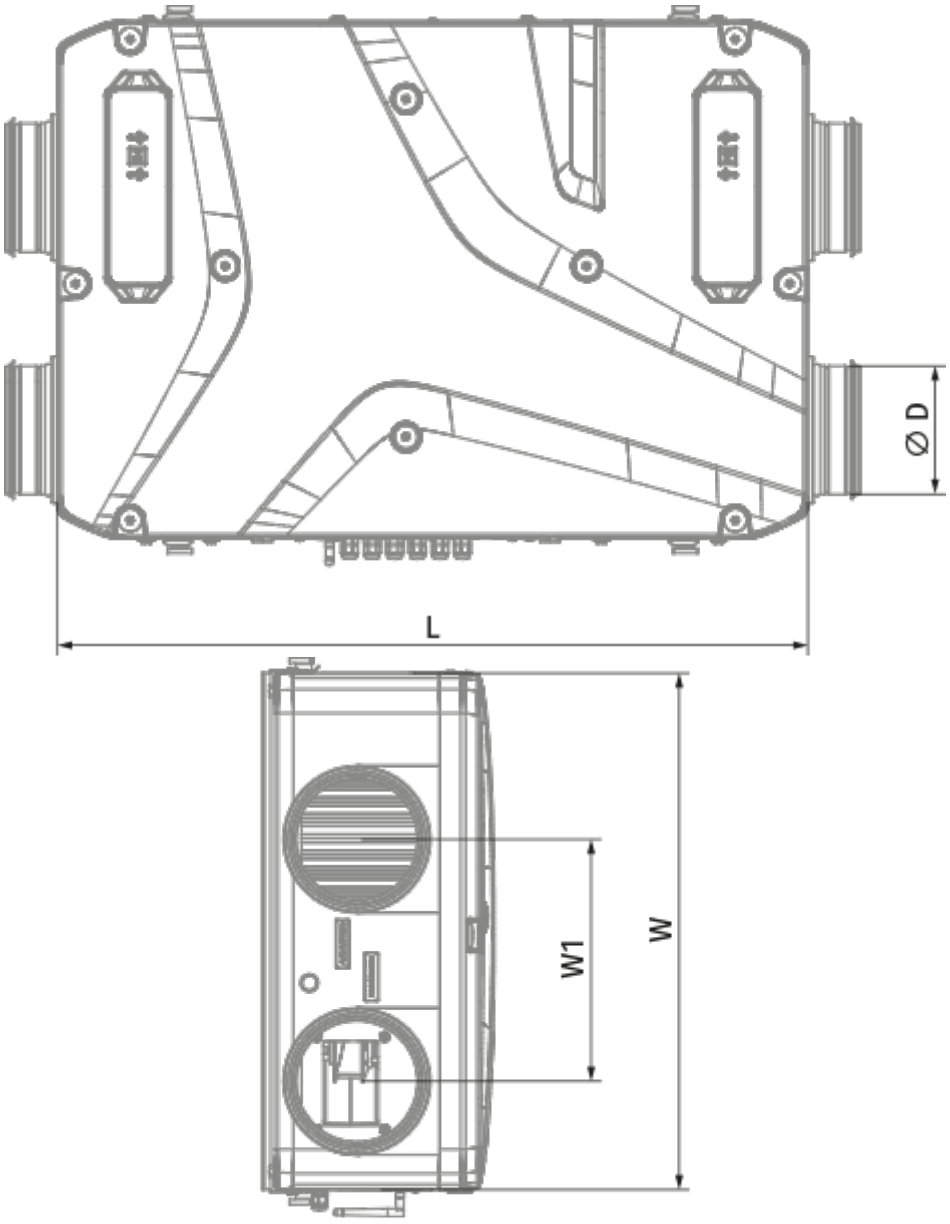
	Unit of measurement	Reneo D 181-E R S21
Connected air duct size	mm	160
Phases	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	53
Unit current	A	0.49
Maximum airflow	m³/h	181
Sound pressure level LpA at 3 m	dB(A)	29
Heat recovery efficiency, max	%	84
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Enthalpy
Weight	kg	15
Supply filter	-	Coarse > 60 % (G4) (option: ePM1 60 % (F7))
Extract filter	-	Coarse > 60 %
Transported air temperature (max)	°C	45
Ambient air temperature min	°C	1
Ambient air temperature max	°C	40
Ingress protection rating	-	IP22

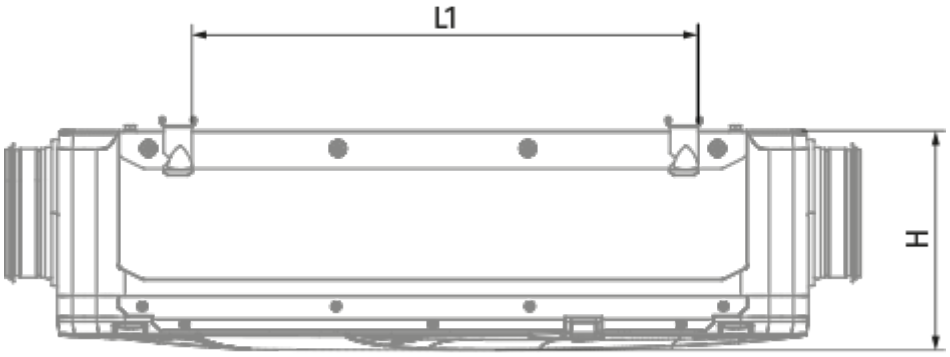
Ambient air humidity max	%	60
Ingress protection rating of the drive	-	IP44



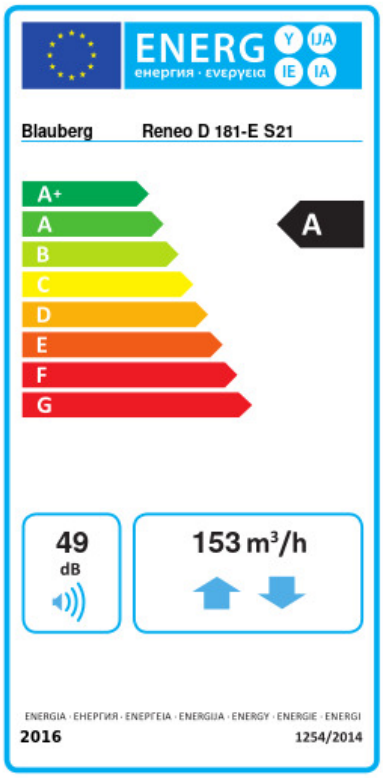
Dimensions

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-E R S21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	-78	A+	-41.1	A	-17.3	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	77					
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	
	8655		4424		2001	

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

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