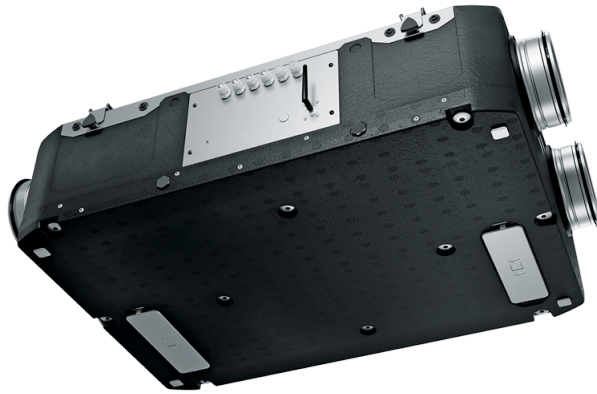


# Reneo D 181 S21

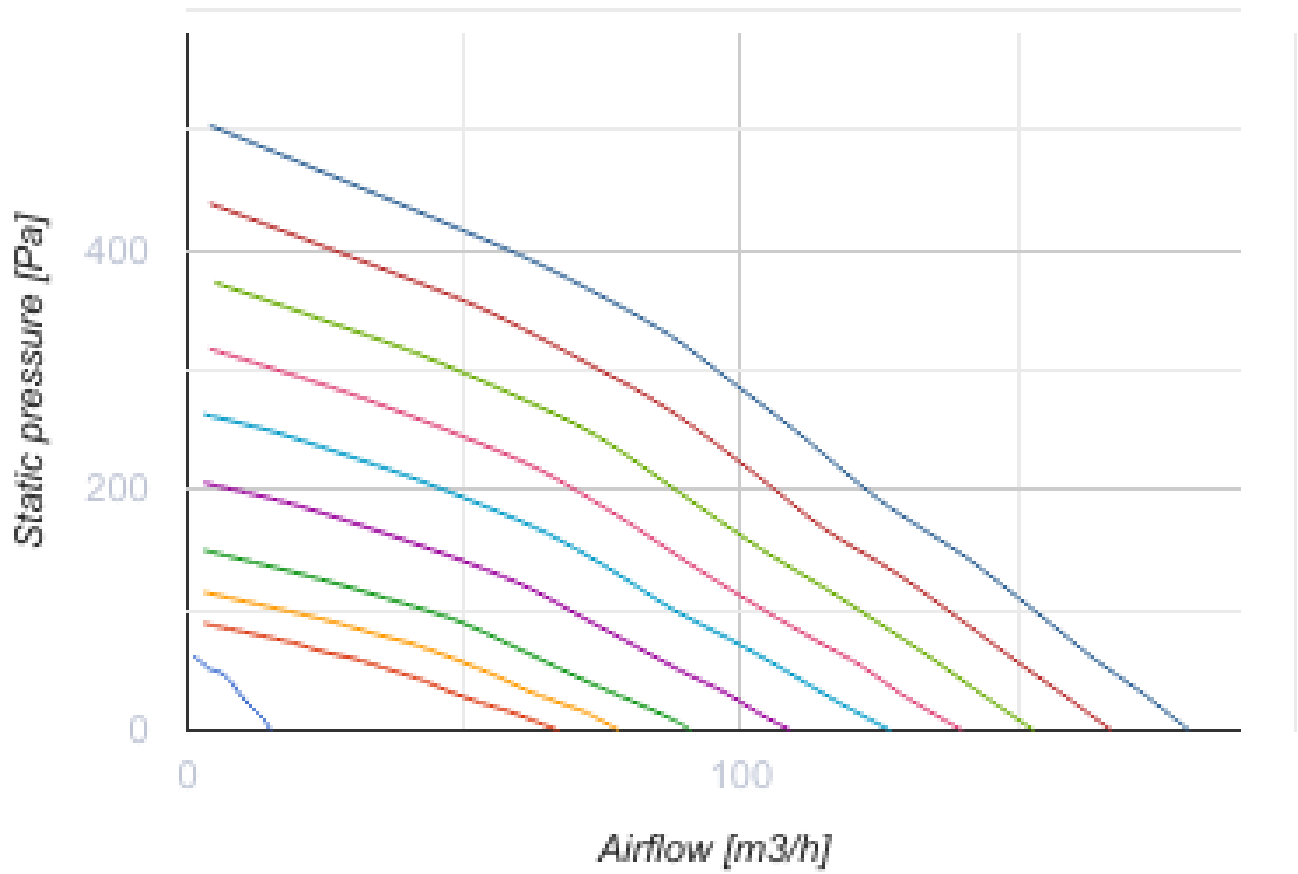
Heat and energy recovery air handling units

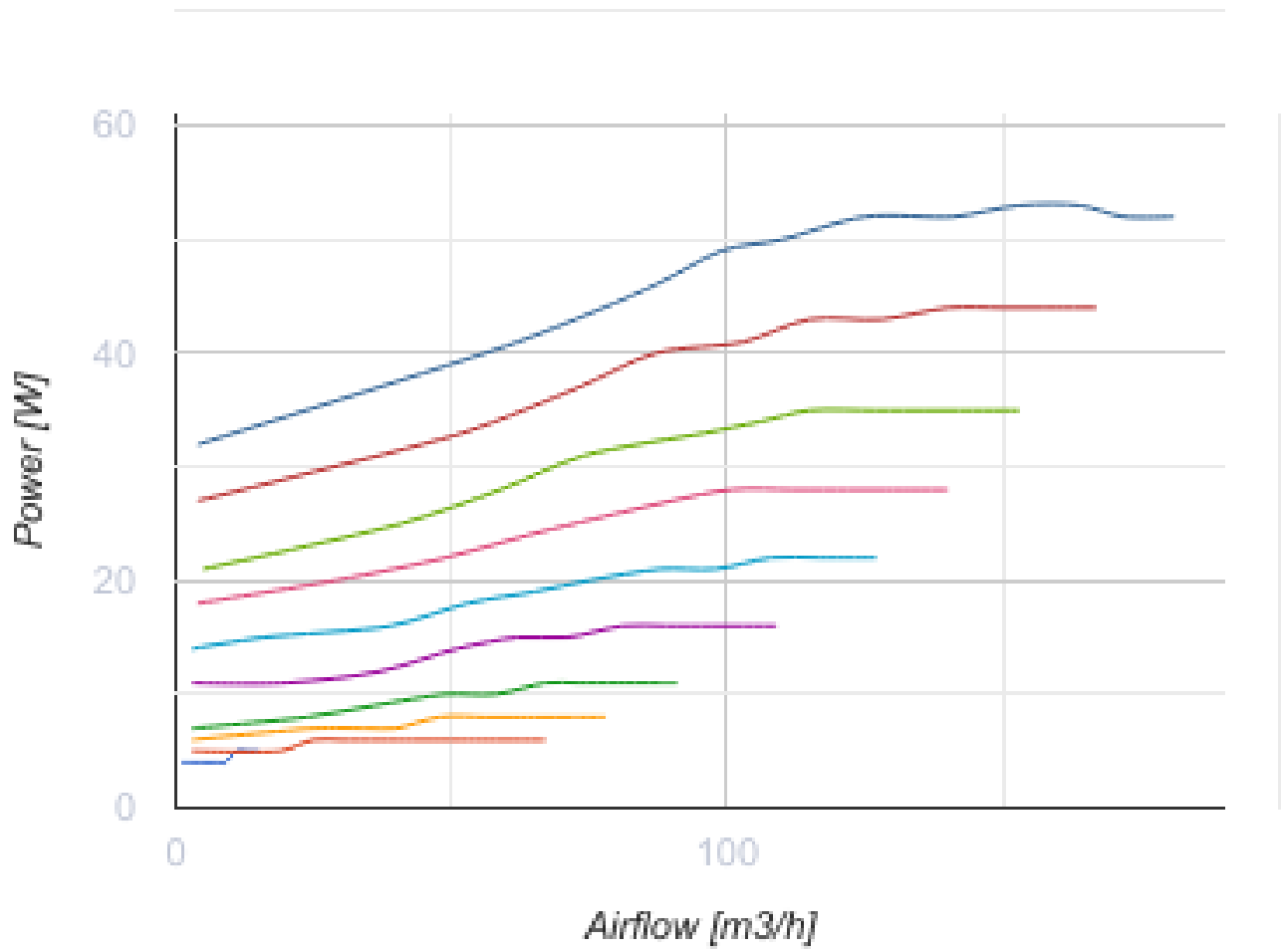


- Maximum airflow: 181
- Sound pressure level LpA at 3 m: 29
- Heat exchanger type: Counter flow
- Extract filter: Coarse > 60 %
- Supply filter: Coarse > 60 % (G4) (option: ePM1 60 % (F7))
- Sound insulation
- Motor type: EC
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: EPP
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	Reneo D 181 S21
Connected air duct size	mm	160
Speed	-	0
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	m <sup>3</sup> /h	181
Sound pressure level LpA at 3 m	dB(A)	29
Heat recovery efficiency, max	%	91
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	12
Extract filter	-	Coarse > 60 %
Supply filter	-	Coarse > 60 % (G4) (option: ePM1 60 % (F7))
Transported air temperature (max)	°C	45
Ambient air temperature min	°C	1
Ambient air temperature max	°C	40
Ambient air humidity max	%	60

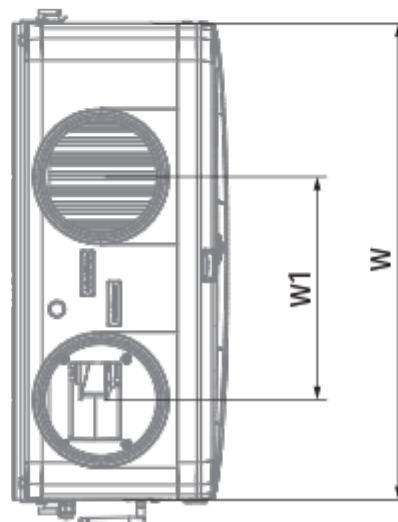
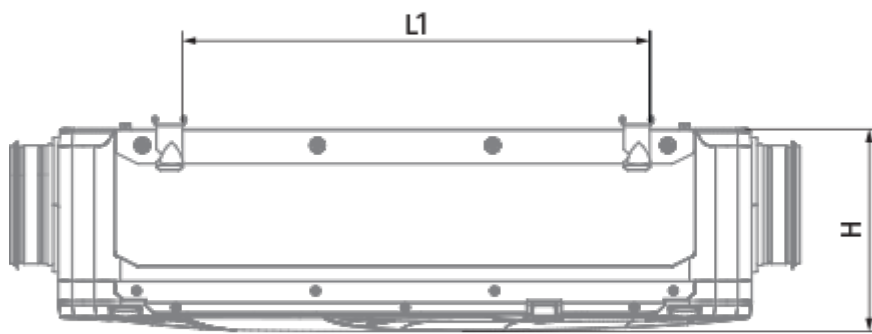
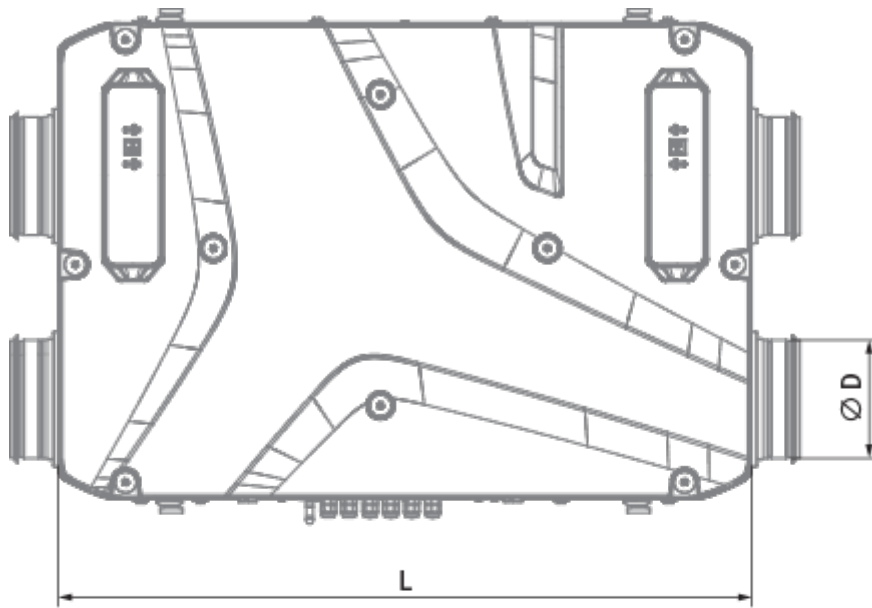
Ingress protection rating	-	IP22
Ingress protection rating of the drive	-	IP44



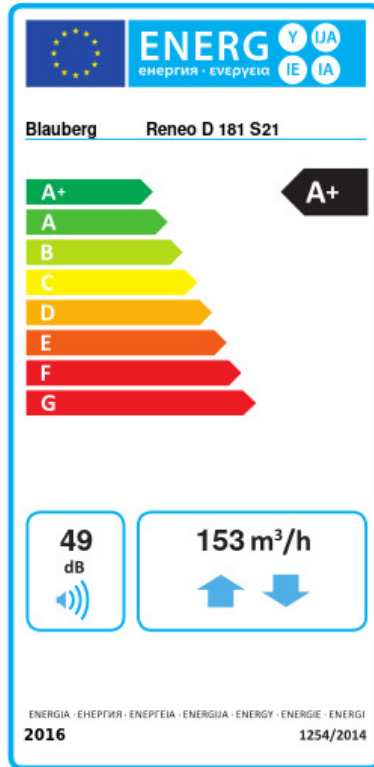


## Dimensions

Ø D	H	L	L1	W / B	W1 / B1
160	272	930	627	640	300



## Ecodesign




Trademark	Blauberg					
Model	Reneo D 181 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					
Sound power level (dB(A))	49					
Declared typology	RVU BVU					
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

### Other accessories




Name	Photo	Description
FP 205x200x48 Coarse 90% G4		G4 panel filter

FP 205x200x48 ePM1 60% F7		F7 panel filter
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### Other accessories

Name	Photo	Description
<a href="#">EP-Reneo D 181</a>		Decorative panel



### Control Panels

Name	Photo	Description
<a href="#">S25</a>		LCD control panel
<a href="#">S22</a>		Control panels
<a href="#">S22 Wi-Fi</a>		Control panels

### Humidity sensors









Name	Photo	Description
<a href="#">FS2</a>		Humidity sensor

### CO2 sensors


Name	Photo	Description
<a href="#">CD-3</a>		
<a href="#">CD-1</a>		CO2 sensors
<a href="#">CD-2</a>		CO2 sensors

### Electrical heaters




Name	Photo	Description
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<a href="#">EVH 160-0.8-1 S21 V.2</a>		Electric duct preheater for heat exchanger freeze protection
<a href="#">EVH 160-1.2-1 S21 V.2</a>		Electric duct preheater for heat exchanger freeze protection
<a href="#">EVH 160-1.7-1 S21 V.2</a>		Electric duct preheater for heat exchanger freeze protection
<a href="#">EVH 160-2.0-1 S21 V.2</a>		Electric duct preheater for heat exchanger freeze protection
<a href="#">ENH 160-0.8-1 S21 V.2</a>		Duct heater for supply air reheating
<a href="#">ENH 160-1.2-1 S21 V.2</a>		Duct heater for supply air reheating
<a href="#">ENH 160-1.7-1 S21 V.2</a>		Duct heater for supply air reheating
<a href="#">ENH 160-2.0-1 S21 V.2</a>		Duct heater for supply air reheating


### Condensation drainage

Name	Photo	Description
<a href="#">SFK 20x32</a>		Hydraulic syphon for condensate drainage

### For round ducts

Name	Photo	Description
<a href="#">SD 160/600</a>		Silencers for round ducts
<a href="#">SD 160/900</a>		Silencers for round ducts
<a href="#">SD 160/1200</a>		Silencers for round ducts

### For round ducts

Name	Photo	Description
<a href="#">VKA 160</a>		Air dampers for round ducts

### Electric actuators

Name	Photo	Description
<a href="#">Belimo TF230</a>		Electric actuators