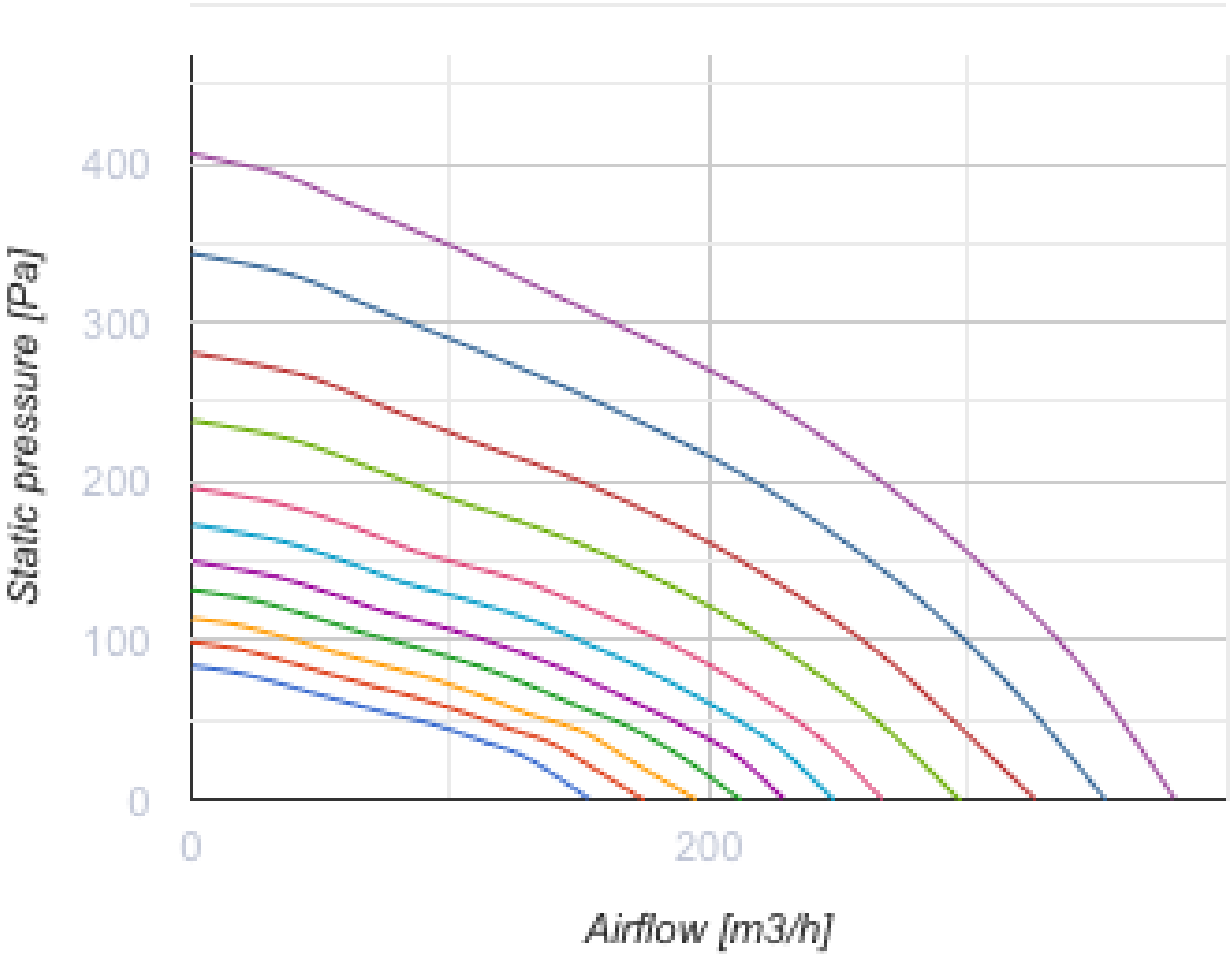
VUE 300 HB EC A21

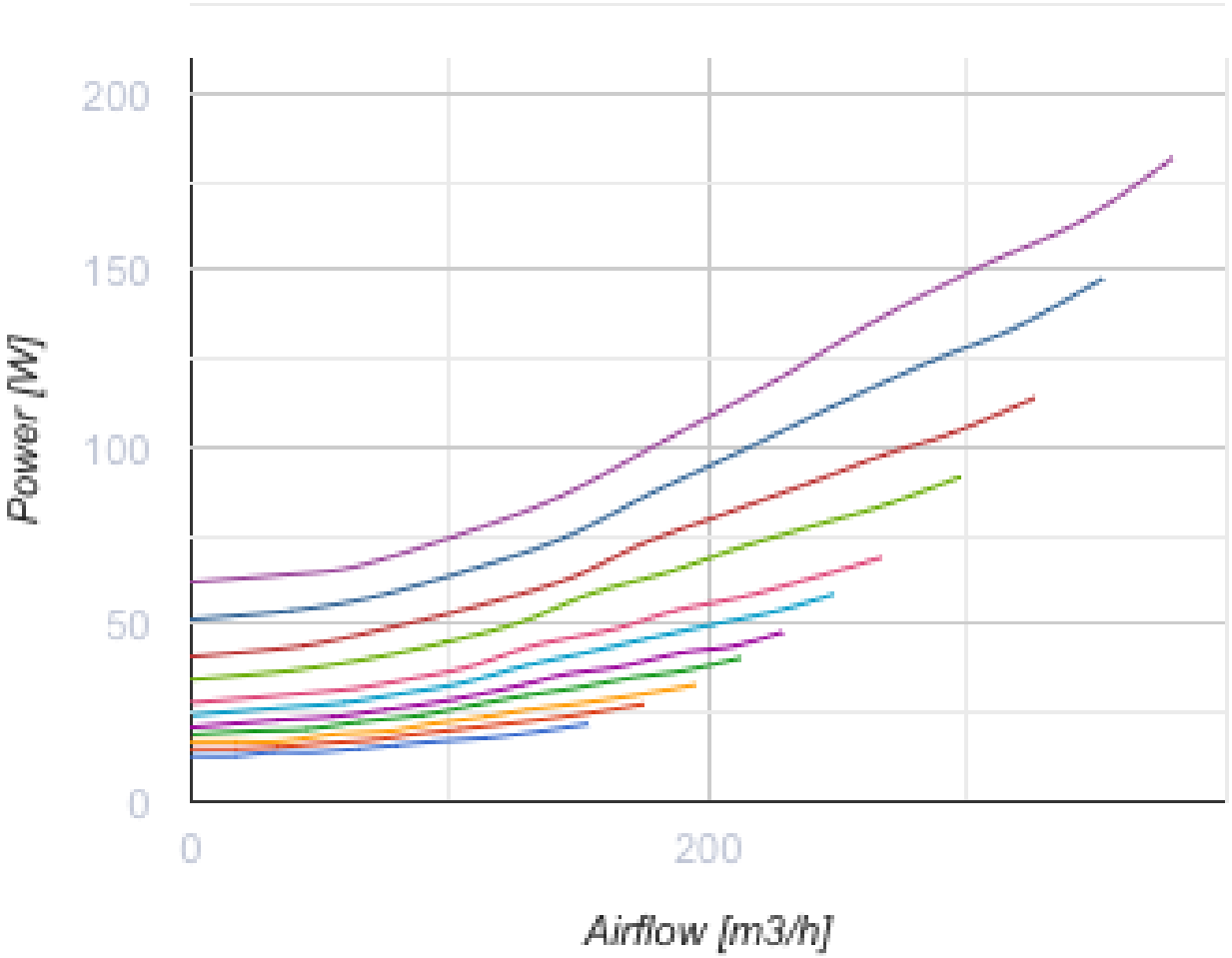
Heat recovery air handling units in sound- and heat-insulated casings equipped with an enthalpy counter-flow heat exchanger

- Maximum airflow: 380
- Sound pressure level LpA at 3 m: 24
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4+F7
- Sound insulation
- Motor type: EC
- Enthalpy heat exchanger
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Galvanized steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	VUE 300 HB EC A21
Connected air duct size	mm	160
Speed	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	182
Unit current	A	1.4
Maximum airflow	m^3/h	380
Sound pressure level LpA at 3 m	dB(A)	24
Heat recovery efficiency, max	%	89
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Enthalpy
Weight	kg	63.1
Extract filter	-	G4
Supply filter	-	G4+F7
Transported air temperature (max)	°C	40
Transported air temperature (min)	°C	-25
Ambient air temperature min	°C	1
Ambient air temperature max	°C	40
Ambient air humidity max	%	80
Ingress protection rating	-	IP22

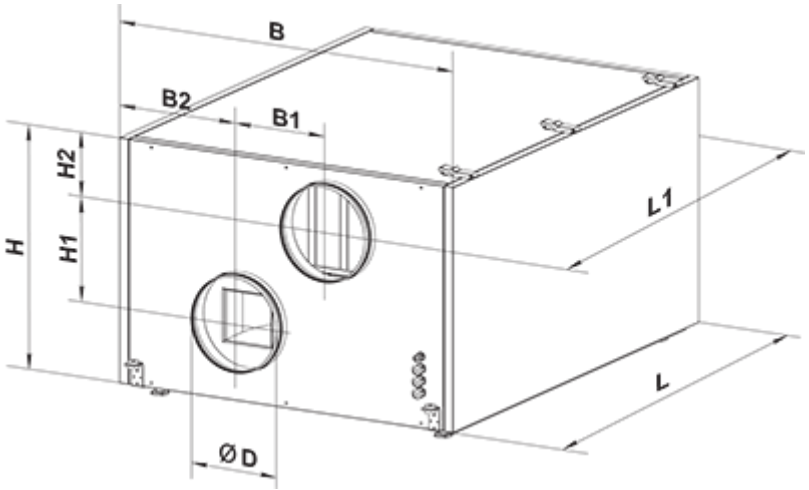
Ingress protection rating of the drive	-	IP44





Dimensions

ØD	B	B1	B2	H	H1	H2	L	L1
157	568	190	189	479	193	118	1083	1180



Accessories

Control Panels for AHU

Name	Photo	Description
A25		The control panel with a sensor display
A22		The A22/A22 WiFi control panels are used for control of industrial and domestic air handling units with an A21 automation system.
A22 WiFi		The A22/A22 WiFi control panels are used for control of industrial and domestic air handling units with an A21 automation system.

Sensors

Name	Photo	Description
HV2		Humidity sensor
CO2-1		CO2 sensors
CO2-2		CO2 sensors
HR-S		Electro-mechanical humidistats
DPWC11200		Humidity sensor

VOC sensors

Name	Photo	Description
DPWQ30600		VOC sensors
DPWQ40200		CO2 sensor

Electrical heaters

Name	Photo	Description

NKD 160-0,8-1 A21 V.2		Duct heater for supply air post-heating with external control
NKD 160-1,2-1 A21 V.2		Duct heater for supply air post-heating with external control
NKD 160-1,7-1 A21 V.2		Duct heater for supply air post-heating with external control
NKD 160-2,0-1 A21 V.2		Duct heater for supply air post-heating with external control
NKP 160-0,8-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 160-1,2-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 160-1,7-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 160-2,0-1 A21 V.2		Heater for heat exchanger freeze protection

For round ducts

Name	Photo	Description
SR 160/600		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SR 160/900		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SR 160/1200		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SRF 160/600		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SRF 160/900		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SRF 160/2000		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems

For round ducts

Name	Photo	Description
KOM 160		Spring-loaded backdraft damper for round ducts
KRV 160		Air damper for air flow cut-off in round air ducts

Condensation drainage

Name	Photo	Description
DN-2		The drain pump provides extraction and discharge of condensate in ventilation systems

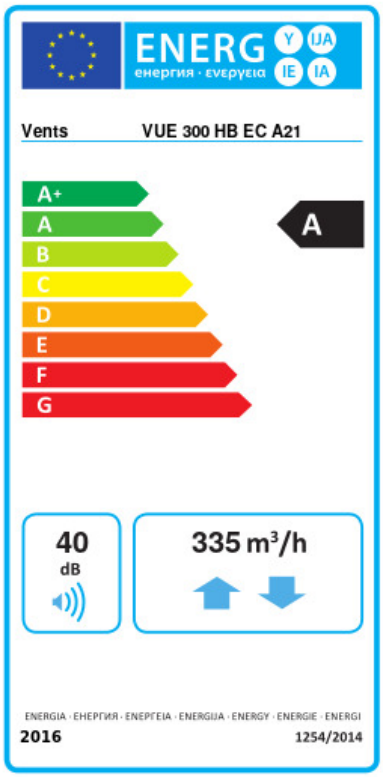
Electric actuators

Name	Photo	Description
Belimo LF230		The Belimo LF series actuators are designed for controlling air dampers with cross section up to 0.8 m² performing protection functions
Belimo TF230		The actuators are designed for controlling air dampers with cross section up to 0.4 m² performing protection functions

Other accessories

Name	Photo	Description
SF 484x178x48 G4		Panel filter G4
SF 484x178x48 F7		F7 panel filter

Ecodesign



Trademark	Vents					
Model	VUE 300 HB EC A21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	-78.4	A+	-40.9	A	-16.8	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	80					
Maximum flow rate (m³/h)	335					
Electric power input (W)	155					
Reference flow rate (m³/s)	0.064					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.265					
Control typology	Local demand control					
Maximum internal leakage rates (%)	2.7					
Maximum external leakage rates (%)	2.7					
Sound power level (dB(A))	40					
Declared typology	RVU BVU					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	722		185		140	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	8776		4486		2029	