

VUT 400 HBE EC A21



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

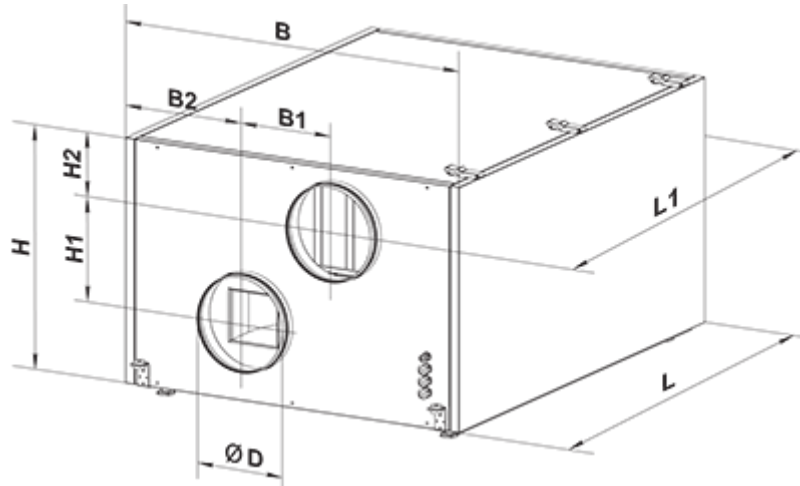
- Power of electrical reheater: 2800
- Maximum airflow: 540
- Sound pressure level LpA at 3 m: 27
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4+F7
- Sound insulation
- Motor type: EC
- Bypass: Auto
- Reheater: Electric
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Galvanized steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	VUT 400 HBE EC A21
Connected air duct size	mm	200
Speed	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	289
Power of electrical reheater	W	2800
Unit current	A	14.3
Maximum airflow	m ³ /h	540
Sound pressure level LpA at 3 m	dB(A)	27
Heat recovery efficiency, max	%	98
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	76
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
197	682	248	217	504	201	141	1094	1191






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
NKP 200-1,2-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 200-1,7-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 200-2,0-1 A21 V.2		Heater for heat exchanger freeze protection

For round ducts


Name	Photo	Description
SR 200/600		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SR 200/900		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SR 200/1200		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SRF 200/600		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
SRF 200/900		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems

SRF 200/2000		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
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For round ducts

Name	Photo	Description
KOM 200		Spring-loaded backdraft damper for round ducts
KRV 200		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

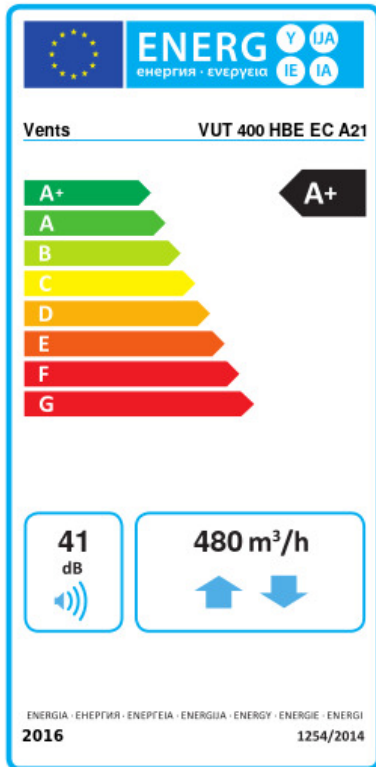
Electric actuators

Name	Photo	Description
Belimo LF230		The Belimo LF series actuators are designed for controlling air dampers with cross section up to 0.8 m ² performing protection functions
Belimo TF230		The actuators are designed for controlling air dampers with cross section up to 0.4 m ² performing protection functions

Other accessories

Name	Photo	Description
SF 600x205x48 G4		Panel filter G4
SF 600x205x48 F7		F7 panel filter

Ecodesign



Trademark	Vents					
Model	VUT 400 HBE EC A21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	81.6	A+	42.5	A+	17.5	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	88					
Maximum flow rate (m³/h)	480					
Electric power input (W)	240					
Reference flow rate (m³/s)	0.092					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.268					
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))	41					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	724		187		142	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	9100		4652		2104	