VUT 250 VB EC R A21

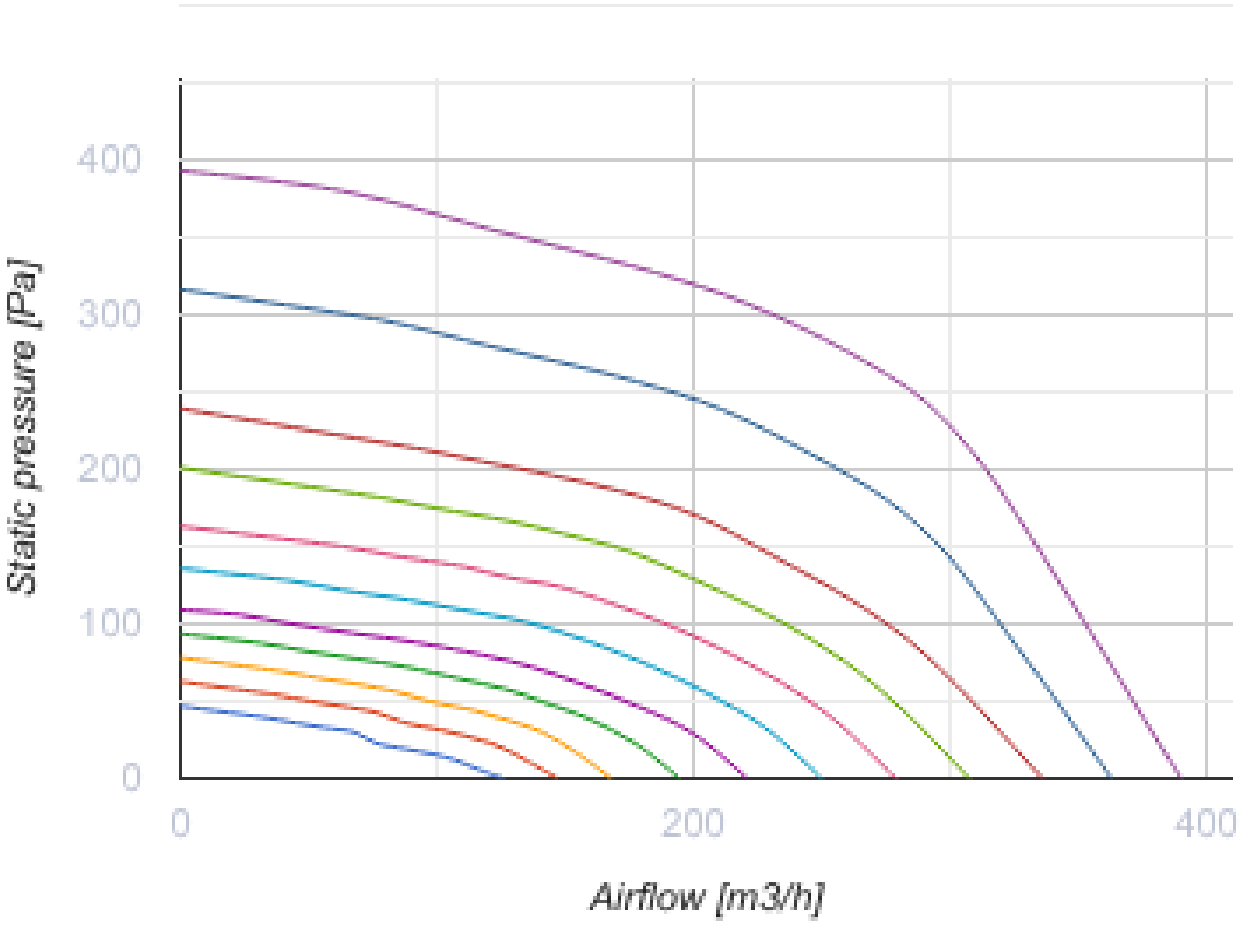
Vertical air handling units with a counterflow polystyrene or enthalpy heat exchanger

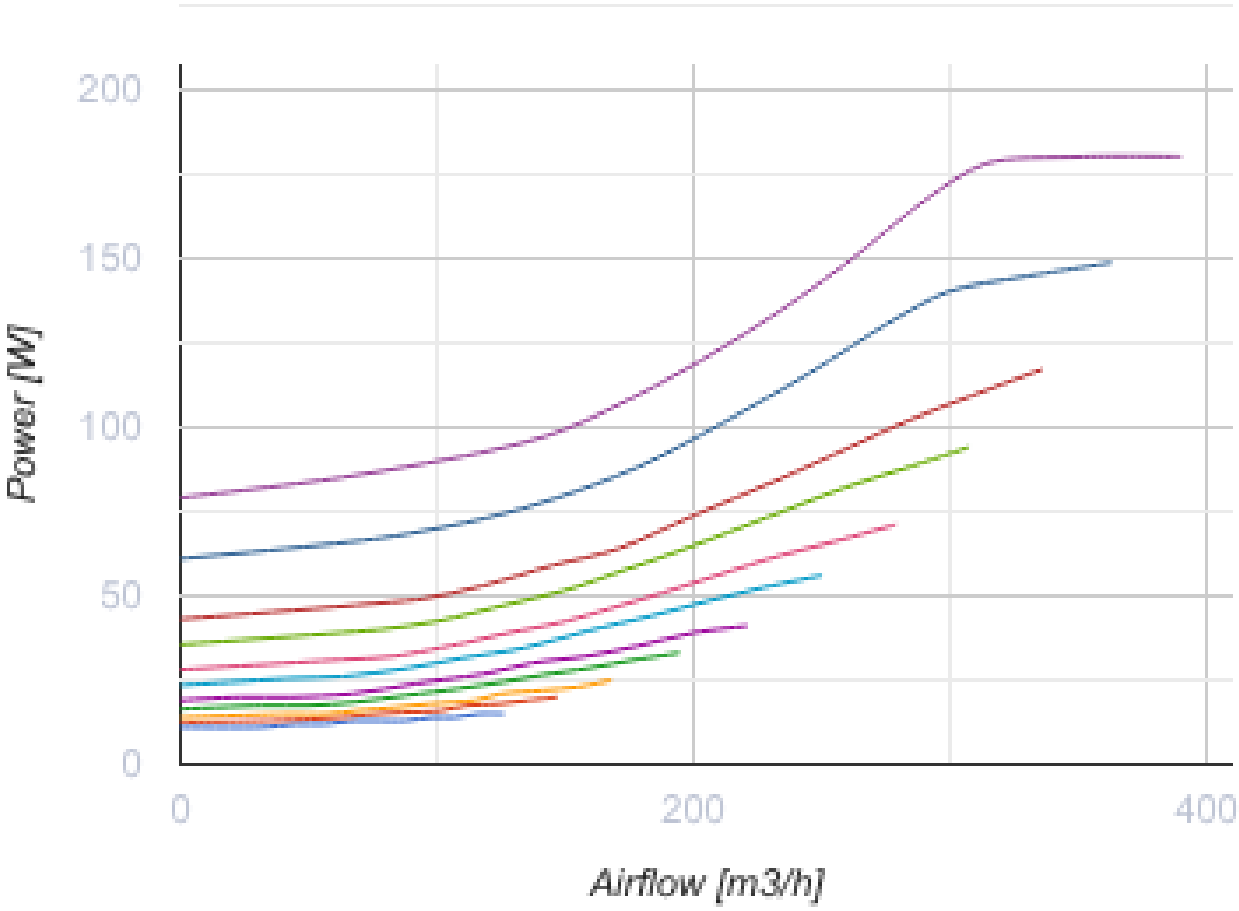


- Sound pressure level LpA at 3 m: 35
- Heat exchanger type: Counter flow
- Heat exchanger material: Polystyrene
- Supply filter: G4 (F7 -Option)
- Extract filter: G4
- Sound-insulated casing
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Coated steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	VUT 250 VB EC R A21
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	180
Unit current	A	1.37
Maximum airflow	m³/h	390
Rotation speed at 50hz	-	2600
Sound pressure level LpA at 3 m	dB(A)	35
Heat recovery efficiency, max	%	95
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	66
Supply filter	-	G4 (F7 -Option)
Extract filter	-	G4
Transported air temperature (max)	°C	40
Transported air temperature (min)	°C	-25
Ambient air temperature min	°C	1
Ambient air temperature max	°C	40
Ingress protection rating	-	IP20

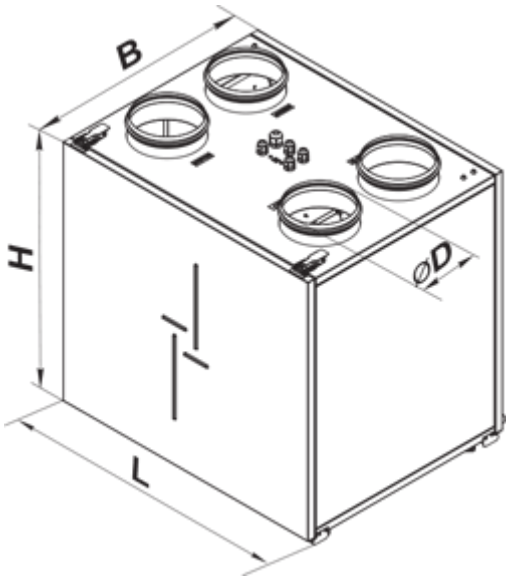
Ambient air humidity max	%	60
Ingress protection rating of the drive	-	IP44





Dimensions

ØD	B	H	L
160	560	970	560



Accessories

Control Panels for AHU

Name	Photo	Description
A25		Touch screen control panel for controlling industrial and residential air handling units
A22		Control panels for controlling industrial and residential air handling units
A22 WiFi		Control panels for controlling industrial and residential air handling units

Sensors

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

Cooker Hoods

Name	Photo	Description
KH-1		Kitchen hood for removing combustion products, vapors and odors from the air

Condensation drainage

Name	Photo	Description
SH-32		Hydraulic U-trap to drain condensate from heat exchangers and coolers

For round ducts

Name	Photo	Description
KRV 160		Air dampers for automatic air flow control in round ducts

Electrical heaters

Name	Photo	Description
NKD 160-0,8-1 A21 V.2		Inline supply air reheaters with external control
NKD 160-1,2-1 A21 V.2		Inline supply air reheaters with external control
NKD 160-1,7-1 A21 V.2		Inline supply air reheaters with external control
NKD 160-2,0-1 A21 V.2		Inline supply air reheaters with external control

Electric actuators

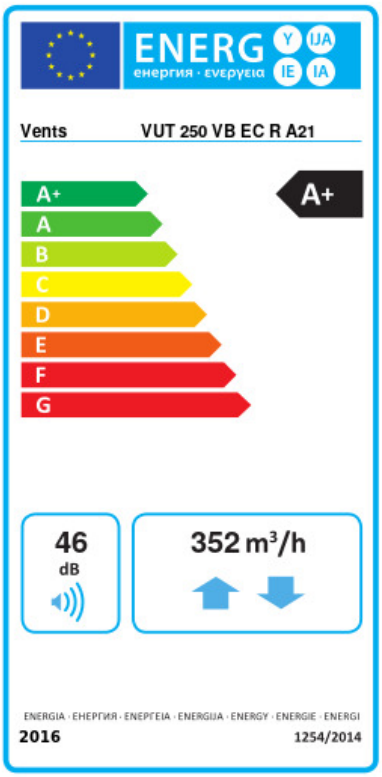
Name	Photo	Description
Belimo LF230		The Belimo LF series actuators are designed for controlling air dampers with cross section up to 0.8 m² performing protection functions

Other accessories

Name	Photo	Description
SF 340x170x48 G4		Panel filter G4

SF 340x170x48 F7		F7 panel filter

Ecodesign



Trademark	Vents					
Model	VUT 250 VB EC R A21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	-82.5	A+	-43	A+	-17.8	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	90					
Maximum flow rate (m³/h)	352					
Electric power input (W)	180					
Reference flow rate (m³/s)	0.068					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.261					
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))	46					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	720		183		138	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	9181		4693		2122	