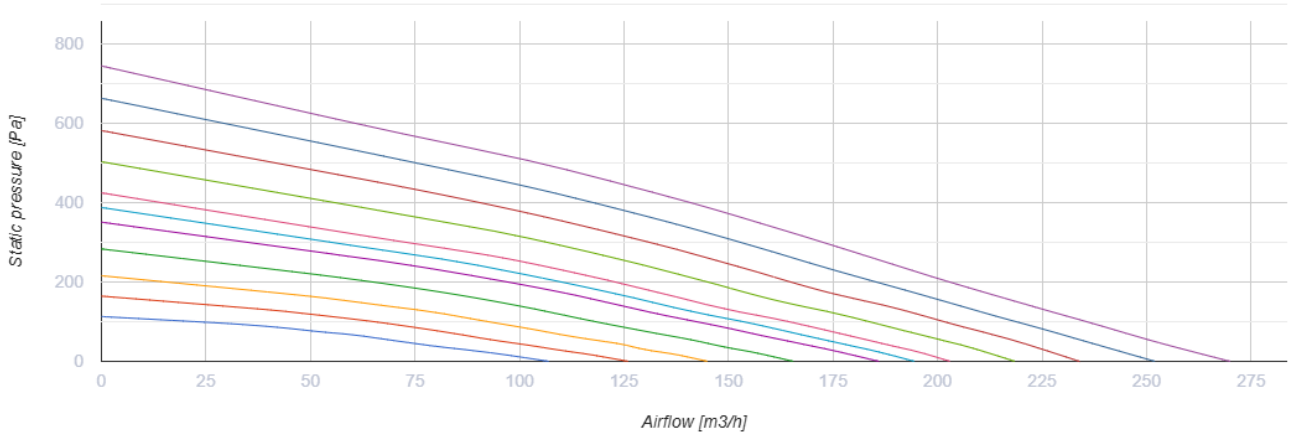
VUT 250 PB EC R A21

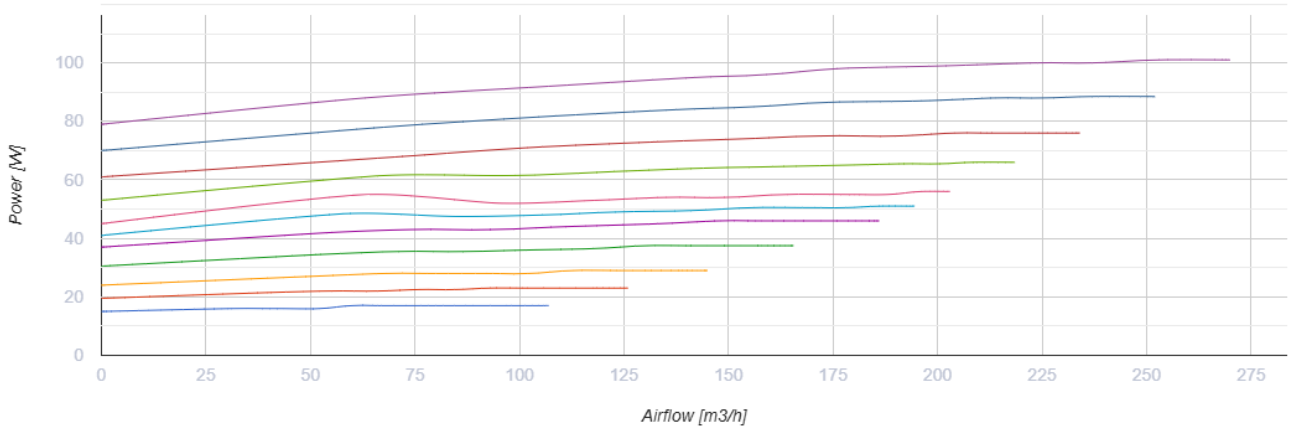
Suspended air handling units with a counterflow polystyrene heat exchanger

- Maximum airflow: 270
- Sound pressure level LpA at 3 m: 28
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: F7
- Sound insulation
- Motor type: EC
- 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

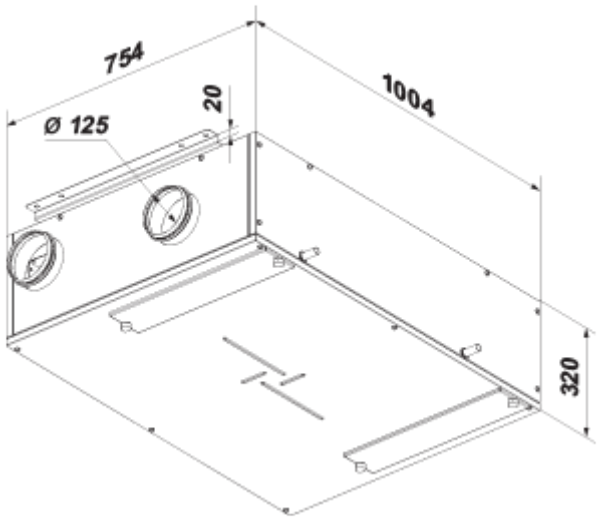
	Unit of measurement	VUT 250 PB EC R A21
Connected air duct size	mm	125
Speed	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	101
Unit current	A	0.8
Maximum airflow	m^3/h	270
Sound pressure level LpA at 3 m	dB(A)	28
Heat recovery efficiency, max	%	98
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	48
Extract filter	-	G4
Supply filter	-	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



Accessories

Control Panels for AHU

Name	Photo	Description
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.
A25		The control panel with a sensor display

Sensors

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

Electrical heaters

Name	Photo	Description
NKP 125-0,6-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 125-0,8-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 125-1,2-1 A21 V.2		Heater for heat exchanger freeze protection
NKD 125-0,6-1 A21 V.2		Duct heater for supply air post-heating with external control
NKD 125-0,8-1 A21 V.2		Duct heater for supply air post-heating with external control

NKD 125-1,2-1 A21 V.2		Duct heater for supply air post-heating with external control

Condensation drainage

Name	Photo	Description
SH-32		The hydraulic U-trap for condensate drainage from heat exchangers and coolers in ventilation and air conditioning systems

For round ducts

Name	Photo	Description
KRV 125		Air damper for air flow cut-off in round air ducts

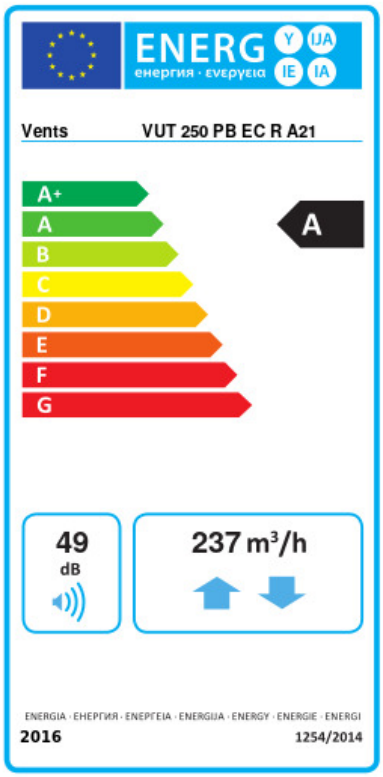
Electric actuators

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 403x253x48 G4		Panel filter G4
SF 403x253x48 F7		F7 panel filter

Ecodesign



Trademark	Vents					
Model	VUT 250 PB EC R A21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	78.9	A+	41	A	15.2	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	82					
Maximum flow rate (m³/h)	237					
Electric power input (W)	100					
Reference flow rate (m³/s)	0.052					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.293					
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	
	737		200		155	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	8261		4223		1909	