

# VUT 250 VB EC R A21

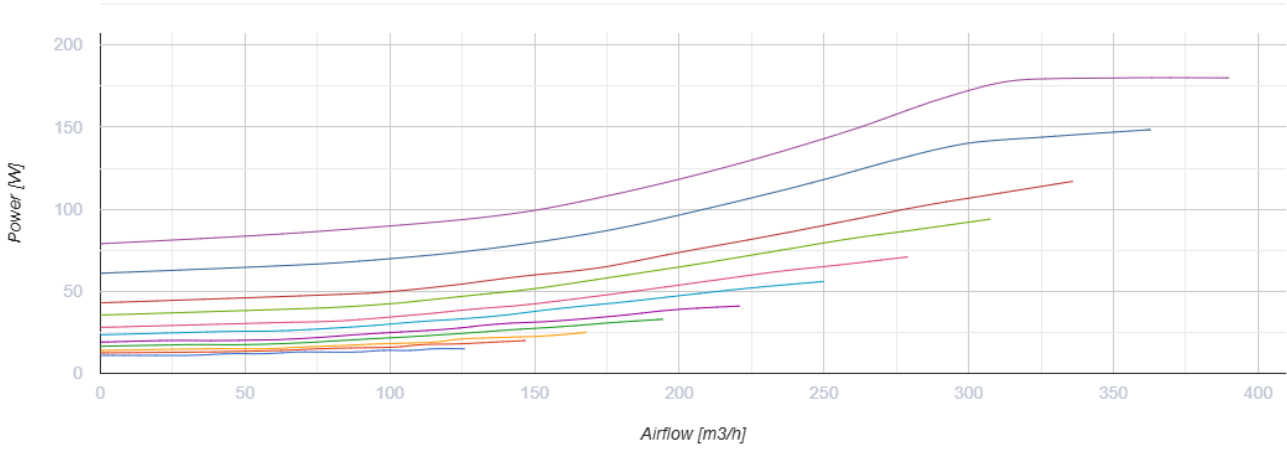
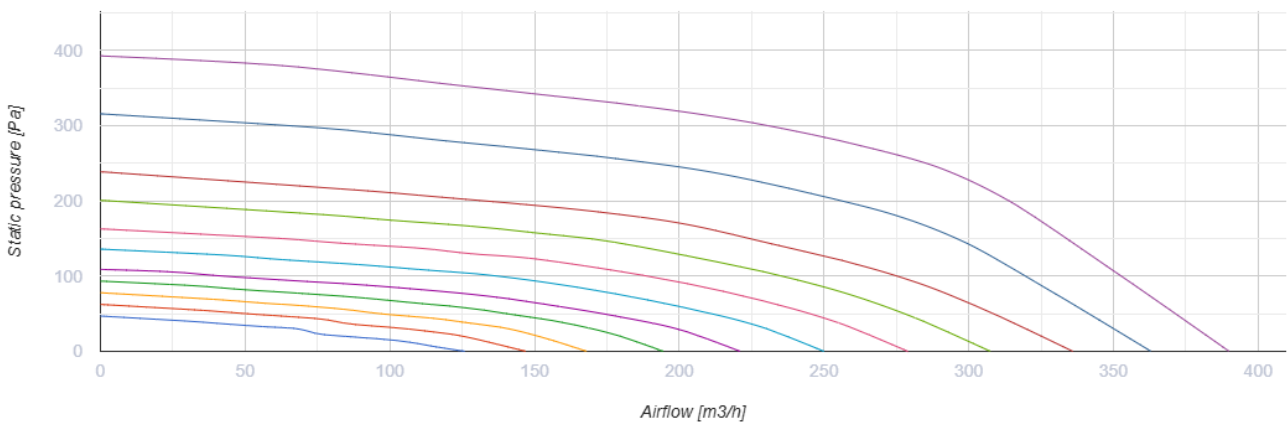
Vertical air handling units with a counterflow polystyrene heat exchanger



- Maximum airflow: 390
- Sound pressure level LpA at 3 m: 35
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4 (F7 -Option)
- Sound insulation
- Motor type: EC
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Polypropylene/Thermoplastic elastomer
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	VUT 250 VB EC R 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	180
Unit current	A	1.37
Maximum airflow	m <sup>3</sup> /h	390
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
Extract filter	-	G4
Supply filter	-	G4 (F7 -Option)
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	%	60
Ingress protection rating	-	IP20

Ingress protection rating of the drive	-	IP44
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## Dimensions

ØD	B	H	L
160	560	970	560







## Accessories





### Control Panels for AHU

Name	Photo	Description
<a href="#">A25</a>		The control panel with a sensor display
<a href="#">A22</a>		The A22/A22 WiFi control panels are used for control of industrial and domestic air handling units with an A21 automation system.
<a href="#">A22 WiFi</a>		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
<a href="#">HV2</a>		Humidity sensor
<a href="#">CO2-1</a>		CO2 sensors
<a href="#">CO2-2</a>		CO2 sensors
<a href="#">HR-S</a>		Electro-mechanical humidistats


### Electrical heaters

Name	Photo	Description
<a href="#">NKD 160-0,8-1 A21 V.2</a>		Duct heater for supply air post-heating with external control
<a href="#">NKD 160-1,2-1 A21 V.2</a>		Duct heater for supply air post-heating with external control
<a href="#">NKD 160-1,7-1 A21 V.2</a>		Duct heater for supply air post-heating with external control
<a href="#">NKD 160-2,0-1 A21 V.2</a>		Duct heater for supply air post-heating with external control


### Condensation drainage

Name	Photo	Description
<a href="#">SH-32</a>		The hydraulic U-trap for condensate drainage from heat exchangers and coolers in ventilation and air conditioning systems

### For round ducts

Name	Photo	Description
<a href="#">KRV 160</a>		Air damper for air flow cut-off in round air ducts

### Electric actuators

Name	Photo	Description
<a href="#">Belimo LF230</a>		The Belimo LF series actuators are designed for controlling air dampers with cross section up to 0.8 m <sup>2</sup> performing protection functions

### Other accessories

Name	Photo	Description
SF 340x170x48 G4		Panel filter G4
SF 340x170x48 F7		F7 panel filter

### Flanges

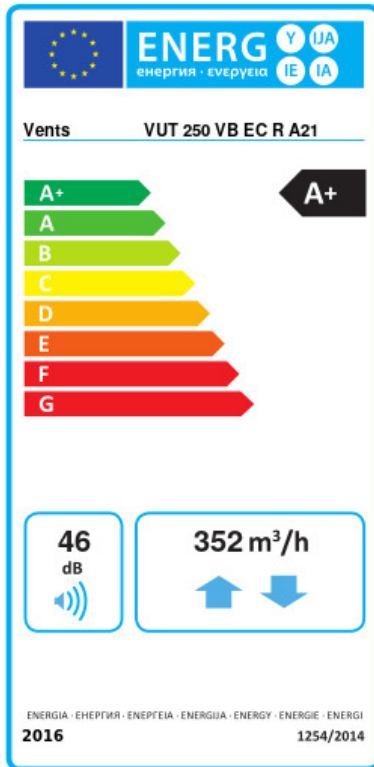
Name	Photo	Description
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[KH-1](#)



The kitchen exhaust hood is designed to clean air from combustion products, fumes, odors that form during cooking in the kitchen

## Ecodesign



Trademark	Vents					
Model	VUT 250 VB EC R A21					
Specific energy consumption (SEC) (kWh/(m <sup>2</sup> /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 (m <sup>3</sup> /h)	352					
Electric power input (W)	180					
Reference flow rate (m <sup>3</sup> /s)	0.068					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m <sup>3</sup> /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	