

# VUT 350 V1B EC A21



Air handling units in heat- and sound-insulated casing equipped with a counter-flow polystyrene heat exchanger

- Maximum airflow: 420
- Sound pressure level LpA at 3 m: 28
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: F7 (G4 optional)
- 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

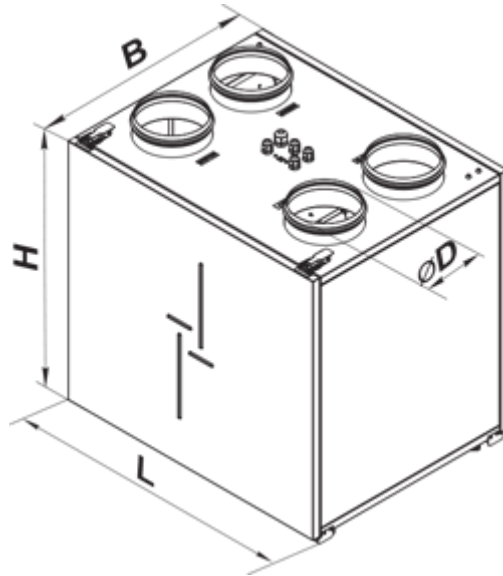
	Unit of measurement	VUT 350 V1B EC A21
Connected air duct size	mm	160
Speed	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	169
Unit current	A	1.3
Maximum airflow	m <sup>3</sup> /h	420
Sound pressure level LpA at 3 m	dB(A)	28
Heat recovery efficiency, max	%	92
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	57
Extract filter	-	G4
Supply filter	-	F7 (G4 optional)
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
--	---	------






## Dimensions

ØD	B	H	L
160	470	675	730






## 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="#">NKP 160-0,8-1 A21 V.2</a>		Heater for heat exchanger freeze protection
<a href="#">NKP 160-1,2-1 A21 V.2</a>		Heater for heat exchanger freeze protection
<a href="#">NKP 160-1,7-1 A21 V.2</a>		Heater for heat exchanger freeze protection
<a href="#">NKP 160-2,0-1 A21 V.2</a>		Heater for heat exchanger freeze protection
<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
------	-------	-------------


[Belimo LF230](#)


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

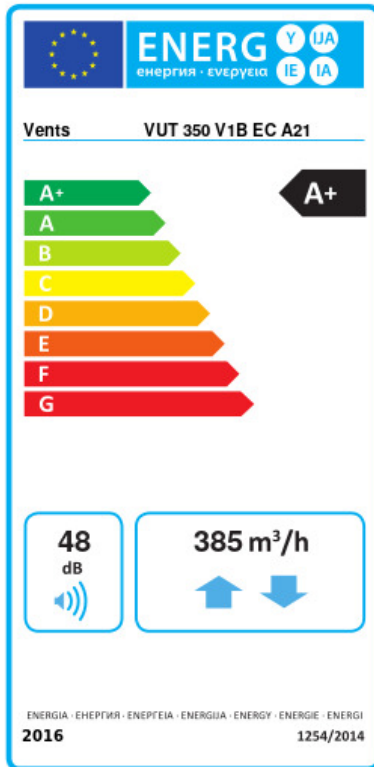
### Other accessories

Name	Photo	Description
SF 384x196x40 G4		Panel filter G4
SF 384x196x40 F7		F7 panel filter

### Flanges

Name	Photo	Description
<a href="#">KH-1</a>		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 350 V1B EC A21					
Specific energy consumption (SEC) (kWh/(m <sup>2</sup> /a))	Cold		Average		Warm	
	-81.2	A+	-42.5	A+	-17.7	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	86					
Maximum flow rate (m <sup>3</sup> /h)	385					
Electric power input (W)	168					
Reference flow rate (m <sup>3</sup> /s)	0.076					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m <sup>3</sup> /h))	0.236					
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))	48					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	707		170		125	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	9019		4610		2085	