

VUT 160 V1B EC A21



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

- Maximum airflow: 200
- Sound pressure level LpA at 3 m: 22
- 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: Coated steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	VUT 160 V1B EC 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	57
Unit current	A	0.5
Maximum airflow	m ³ /h	200
Sound pressure level LpA at 3 m	dB(A)	22
Heat recovery efficiency, max	%	93
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	44
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
ErP compliance	-	2016, 2018
Cold - Specific energy consumption (SEC)	kWh/(m ² /a)	81.5
SEC Class Cold	-	A+
Average - Specific energy consumption (SEC)	kWh/(m ² /a)	42.8
SEC Class Average	-	A+
Warm - Specific energy consumption (SEC)	kWh/(m ² /a)	18
SEC Class Warm	-	E
Unit category	-	RVU
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 ³ /h	175
Electric power input	W	57
Reference flow rate	m ³ /s	0.036
Reference pressure difference	Pa	50
Specific power input (SPI)	W/(m ³ /h)	0.215
Control typology	-	Local demand control
Maximum internal leakage rates	%	2.7
Maximum external leakage rates	%	2.7
Cold - The annual electricity consumption (AEC)	kWh/a	696
Average - The annual electricity consumption (AEC)	kWh/a	159
Warm - Jährlicher Stromverbrauch (JSV)	kWh/a	114
Cold - The annual heating saved (AHS)	kWh/a	9019
The annual heating saved (AHS) Average	kWh/a	4610
The annual heating saved (AHS) Warm	kWh/a	2085
Declared typology	-	RVU BVU
Sound power level	dB(A)	43

Dimensions

ØD	B	H	L
125	370	620	640








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
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VOC sensors

Name	Photo	Description
DPWQ30600		VOC sensors
DPWQ40200		CO2 sensor

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

Other accessories

Name	Photo	Description
SF 285x195x10 G4		Panel filter G4
SF 285x195x10 F7		F7 panel filter
VL C6 366/285		Summer block

Cooker Hoods

Name	Photo	Description
KH-1		The kitchen exhaust hood is designed to clean air from combustion products, fumes, odors that form during cooking in the kitchen