

VUE 350 VB EC A21



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

- Maximum airflow: 450
- 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
- Enthalpy heat exchanger
- 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	VUE 350 VB 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	178
Unit current	A	1.4
Maximum airflow	m ³ /h	450
Sound pressure level LpA at 3 m	dB(A)	28
Heat recovery efficiency, max	%	91
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Enthalpy
Weight	kg	64
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)	77
SEC Class Cold	-	A+
Average - Specific energy consumption (SEC)	kWh/(m ² /a)	40.2
SEC Class Average	-	A
Warm - Specific energy consumption (SEC)	kWh/(m ² /a)	16.6
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	%	76
Maximum flow rate	m ³ /h	390
Electric power input	W	177
Reference flow rate	m ³ /s	0.078
Reference pressure difference	Pa	50
Specific power input (SPI)	W/(m ³ /h)	0.254
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	716
Average - The annual electricity consumption (AEC)	kWh/a	179
Warm - Jährlicher Stromverbrauch (JSV)	kWh/a	134
Cold - The annual heating saved (AHS)	kWh/a	8614
The annual heating saved (AHS) Average	kWh/a	4403
The annual heating saved (AHS) Warm	kWh/a	1991
Sound power level	dB(A)	49
Declared typology	-	RVU BVU

Dimensions

ØD	B	H	L
160	583	675	730








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
---------------------------	---	-----------------

VOC sensors


Name	Photo	Description
DPWQ30600		VOC sensors
DPWQ40200		CO2 sensor

Electrical heaters


Name	Photo	Description
NKP 160-0,8-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 160-1,2-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 160-1,7-1 A21 V.2		Heater for heat exchanger freeze protection
NKP 160-2,0-1 A21 V.2		Heater for heat exchanger freeze protection
NKD 160-0,8-1 A21 V.2		Duct heater for supply air post-heating with external control
NKD 160-1,2-1 A21 V.2		Duct heater for supply air post-heating with external control
NKD 160-1,7-1 A21 V.2		Duct heater for supply air post-heating with external control
NKD 160-2,0-1 A21 V.2		Duct heater for supply air post-heating with external control

For round ducts



Name	Photo	Description
------	-------	-------------

KRV 160		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 ² performing protection functions

Other accessories

Name	Photo	Description
SF 500x196x40 G4		Panel filter G4
SF 500x196x40 F7		F7 panel filter

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