

VUT 180 P5B EC A14

Heat recovery air handling units in sound- and heat-insulated casings equipped with a counter-flow polystyrene heat exchanger



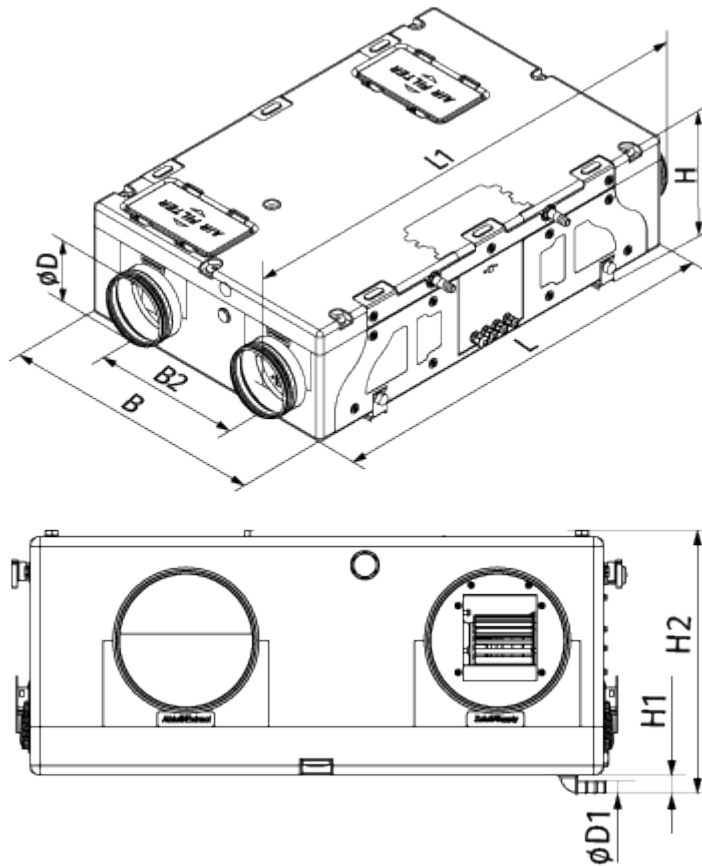
- Maximum airflow: 220
- Sound pressure level LpA at 3 m: 33
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4, F7
- Sound insulation
- Motor type: EC
- Bypass: Manual
- Control: Remote Control
- Casing material: EPP
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	VUT 180 P5B EC A14
Connected air duct size	mm	150
Speed	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	87
Unit current	A	0.71
Maximum airflow	m ³ /h	220
Sound pressure level LpA at 3 m	dB(A)	33
Heat recovery efficiency, max	%	98
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	14
Extract filter	-	G4
Supply filter	-	G4, 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	%	60
Ingress protection rating	-	IP22

Ingress protection rating of the drive	-	IP44
ErP compliance	-	2016, 2018
Cold - Specific energy consumption (SEC)	kWh/(m ² /a)	83.5
SEC Class Cold	-	A+
Average - Specific energy consumption (SEC)	kWh/(m ² /a)	43.6
SEC Class Average	-	A+
Warm - Specific energy consumption (SEC)	kWh/(m ² /a)	18.1
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	%	92
Maximum flow rate	m ³ /h	180
Electric power input	W	77
Reference flow rate	m ³ /s	0.035
Reference pressure difference	Pa	50
Specific power input (SPI)	W/(m ³ /h)	0.248
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	713
Average - The annual electricity consumption (AEC)	kWh/a	176
Warm - Jährlicher Stromverbrauch (JSV)	kWh/a	131
Cold - The annual heating saved (AHS)	kWh/a	9262
The annual heating saved (AHS) Average	kWh/a	4735
The annual heating saved (AHS) Warm	kWh/a	2141
Declared typology	-	RVU BVU
Sound power level	dB(A)	49





Dimensions

ØD	ØD1	B	B2	H	H1	H2	L	L1
150	19	600	326	264	38	302	900	1009




Accessories

Sensors

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


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 150		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 214x186x18 G4		Panel filter G4
SF 214x186x48 F7		F7 panel filter