

# VUT 700 HB EC A21



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

- Maximum airflow: 830
- Sound pressure level LpA at 3 m: 31
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4+F7
- Sound insulation
- Motor type: EC
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Galvanized steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	VUT 700 HB EC A21
Connected air duct size	mm	250
Speed	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	336
Unit current	A	2.4
Maximum airflow	m <sup>3</sup> /h	830
Sound pressure level LpA at 3 m	dB(A)	31
Heat recovery efficiency, max	%	98
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	107
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	%	80
Ingress protection rating	-	IP22

Ingress protection rating of the drive	-	IP44
ErP compliance	-	2016, 2018
Cold - Specific energy consumption (SEC)	kWh/(m <sup>2</sup> /a)	80.8
SEC Class Cold	-	A+
Average - Specific energy consumption (SEC)	kWh/(m <sup>2</sup> /a)	42.2
SEC Class Average	-	A+
Warm - Specific energy consumption (SEC)	kWh/(m <sup>2</sup> /a)	17.5
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	%	85
Maximum flow rate	m <sup>3</sup> /h	751
Electric power input	W	336
Reference flow rate	m <sup>3</sup> /s	0.143
Reference pressure difference	Pa	50
Specific power input (SPI)	W/(m <sup>3</sup> /h)	0.243
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	710
Average - The annual electricity consumption (AEC)	kWh/a	173
Warm - Jährlicher Stromverbrauch (JSV)	kWh/a	128
Cold - The annual heating saved (AHS)	kWh/a	8979
The annual heating saved (AHS) Average	kWh/a	4590
The annual heating saved (AHS) Warm	kWh/a	2075
Declared typology	-	RVU BVU
Sound power level	dB(A)	45




## Dimensions

ØD	B	B1	B2	H	H1	H2	L	L1
247	866	274	296	601	234	166	1282	1379








## 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
<a href="#">DPWC11200</a>		Humidity sensor





### VOC sensors



Name	Photo	Description
<a href="#">DPWQ30600</a>		VOC sensors
<a href="#">DPWQ40200</a>		CO2 sensor

### Electrical heaters



Name	Photo	Description
<a href="#">NKD 250-1,2-1 A21 V.2</a>		Duct heater for supply air post-heating with external control
<a href="#">NKD 250-2,0-1 A21 V.2</a>		Duct heater for supply air post-heating with external control
<a href="#">NKD 250-3,0-1 A21 V.2</a>		Duct heater for supply air post-heating with external control
<a href="#">NKP 250-1,2-1 A21 V.2</a>		Heater for heat exchanger freeze protection
<a href="#">NKP 250-2,0-1 A21 V.2</a>		Heater for heat exchanger freeze protection
<a href="#">NKP 250-3,0-1 A21 V.2</a>		Heater for heat exchanger freeze protection

### For round ducts


Name	Photo	Description
<a href="#">SR 250/600</a>		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
<a href="#">SR 250/900</a>		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
<a href="#">SR 250/1200</a>		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
<a href="#">SRF 250/600</a>		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems

<a href="#">SRF 250/900</a>		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems
<a href="#">SRF 250/2000</a>		Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems



### For round ducts

Name	Photo	Description
<a href="#">KOM 250</a>		Spring-loaded backdraft damper for round ducts
<a href="#">KRV 250</a>		Air damper for air flow cut-off in round air ducts



### Condensation drainage

Name	Photo	Description
<a href="#">DN-2</a>		The drain pump provides extraction and discharge of condensate in ventilation systems

### 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
<a href="#">Belimo TF230</a>		The actuators are designed for controlling air dampers with cross section up to 0.4 m <sup>2</sup> performing protection functions

### Other accessories

Name	Photo	Description
SF 784x253x48 G4		Panel filter G4
SF 784x253x48 F7		F7 panel filter