

# VUT 900 PBE EC R A21 DTV

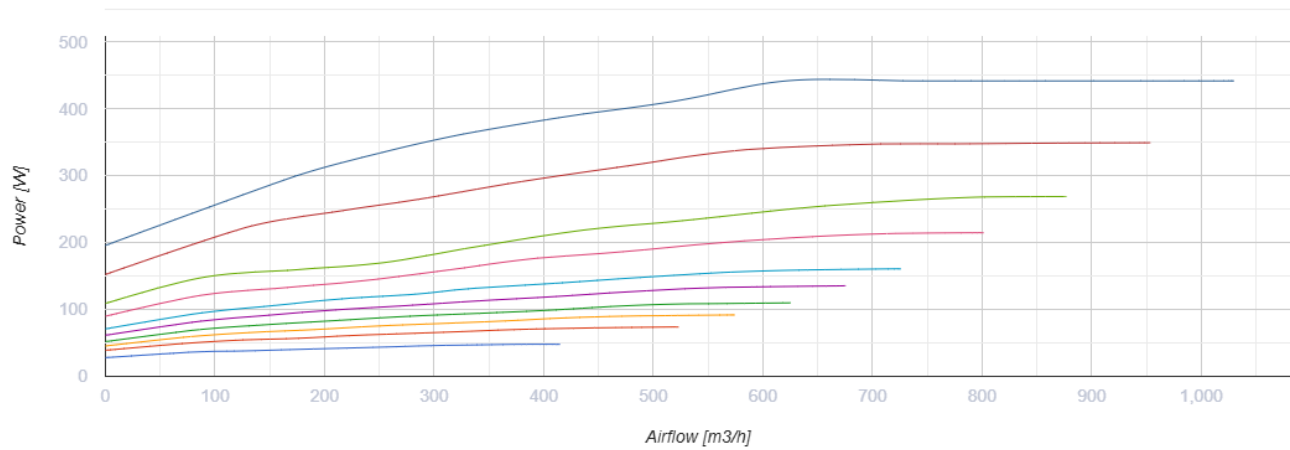
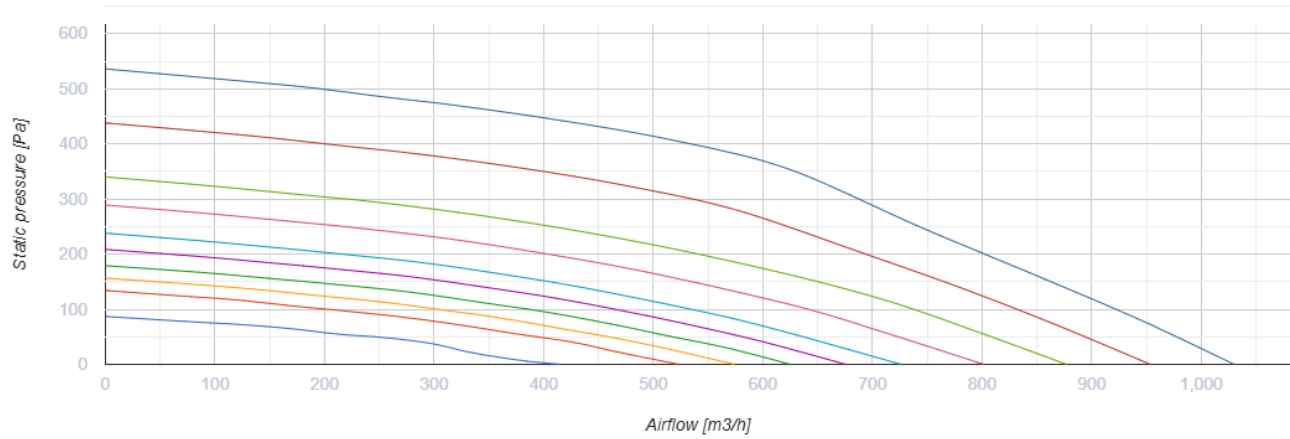


Suspended commercial air handling units with a counterflow polystyrene heat exchanger

- Power of electrical reheater: 3300
- Maximum airflow: 1030
- Sound pressure level LpA at 3 m: 33
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4 (F7 option)
- Sound insulation
- Motor type: EC
- Bypass: Auto
- Reheater: Electric
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Galvanized steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

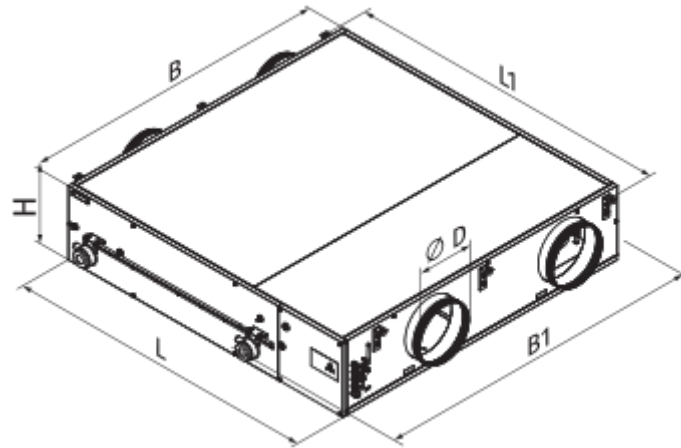
	Unit of measurement	VUT 900 PBE EC R A21 DTV
Connected air duct size	mm	250
Speed	-	1
Phases	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	442
Power of electrical reheater	W	3300
Unit current	A	17.4
Maximum airflow	m <sup>3</sup> /h	1030
Sound pressure level LpA at 3 m	dB(A)	33
Heat recovery efficiency, max	%	88
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	111
Extract filter	-	G4
Supply filter	-	G4 (F7 option)
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






## Dimensions

ØD	B	B1	H	L	L1
250	1351	1485	318	1349	1402







## Accessories

### Control Panels for AHU


Name	Photo	Description
<a href="#">A22</a>		Control panels for controlling industrial and residential air handling units
<a href="#">A22 WiFi</a>		Control panels for controlling industrial and residential air handling units
<a href="#">A25</a>		Touch screen control panel for controlling industrial and residential air handling units

### 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 humidistat

### Condensation drainage



Name	Photo	Description
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<a href="#">SH-32</a>		Hydraulic U-trap to drain condensate from heat exchangers and coolers
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### For round ducts

Name	Photo	Description
<a href="#">SR 250/600</a>		Silencers made of galvanized steel filled with non-combustible sound-absorbing material
<a href="#">SR 250/900</a>		Silencers made of galvanized steel filled with non-combustible sound-absorbing material
<a href="#">SR 250/1200</a>		Silencers made of galvanized steel filled with non-combustible sound-absorbing material




### For round ducts

Name	Photo	Description
<a href="#">KOM 250</a>		Backdraught damper with spring-loaded plates for shutting off air flow in round air ducts
<a href="#">KRV 250</a>		Air dampers for automatic air flow control in round ducts




### Electric actuators

Name	Photo	Description
<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

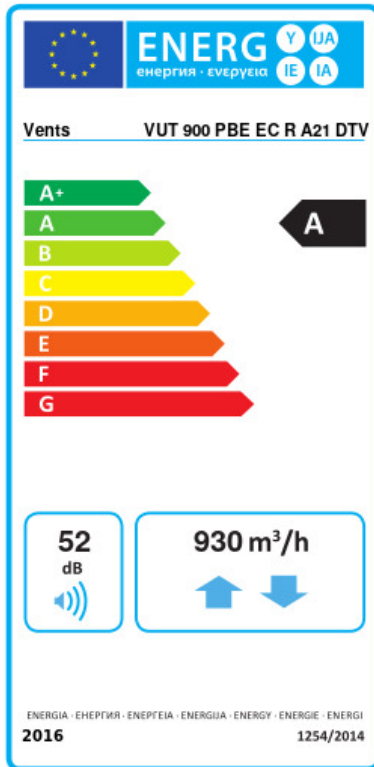
### Other accessories

Name	Photo	Description
SFK 647x274x27 G4		G4 pocket filter
SFK 647x274x27 F7		F7 pocket filter
SF 647x274x20 G4		Panel filter G4

### Electrical heaters

Name	Photo	Description
<a href="#">NKP 250-3,0-1 A21 V.2</a>		Inline heaters for heat exchanger frost protection
<a href="#">NKP 250-2,0-1 A21 V.2</a>		Inline heaters for heat exchanger frost protection
<a href="#">NKP 250-1,2-1 A21 V.2</a>		Inline heaters for heat exchanger frost protection

## Ecodesign



Trademark	Vents					
Model	VUT 900 PBE EC R A21 DTV					
Specific energy consumption (SEC) (kWh/(m <sup>2</sup> /a))	Cold		Average		Warm	
	78.1	A+	40.8	A	16.7	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	79					
Maximum flow rate (m <sup>3</sup> /h)	930					
Electric power input (W)	442					
Reference flow rate (m <sup>3</sup> /s)	0.169					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m <sup>3</sup> /h))	0.261					
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))	52					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	720		183		138	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	8736		4466		2019	