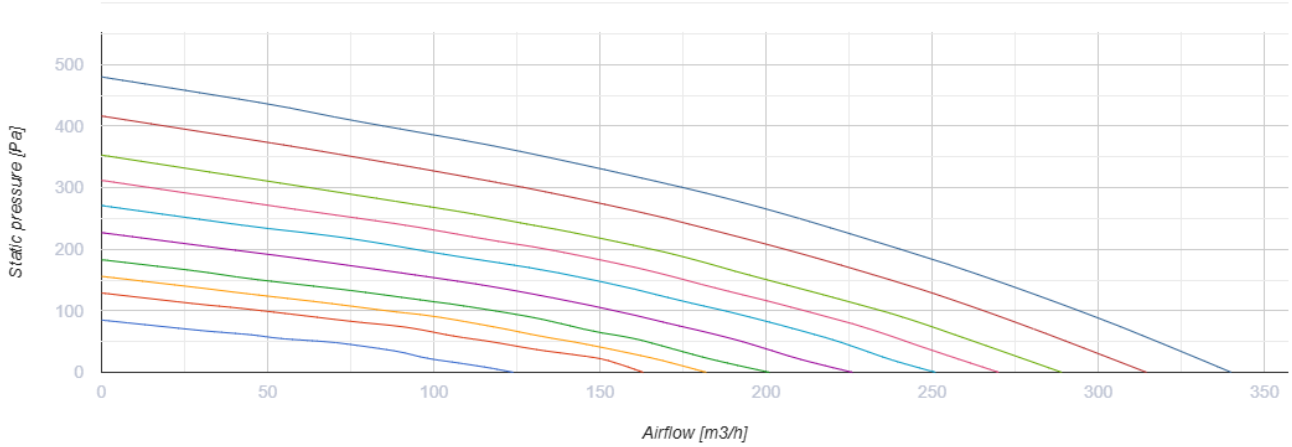
VUT 300 PBE EC R A21 DTV

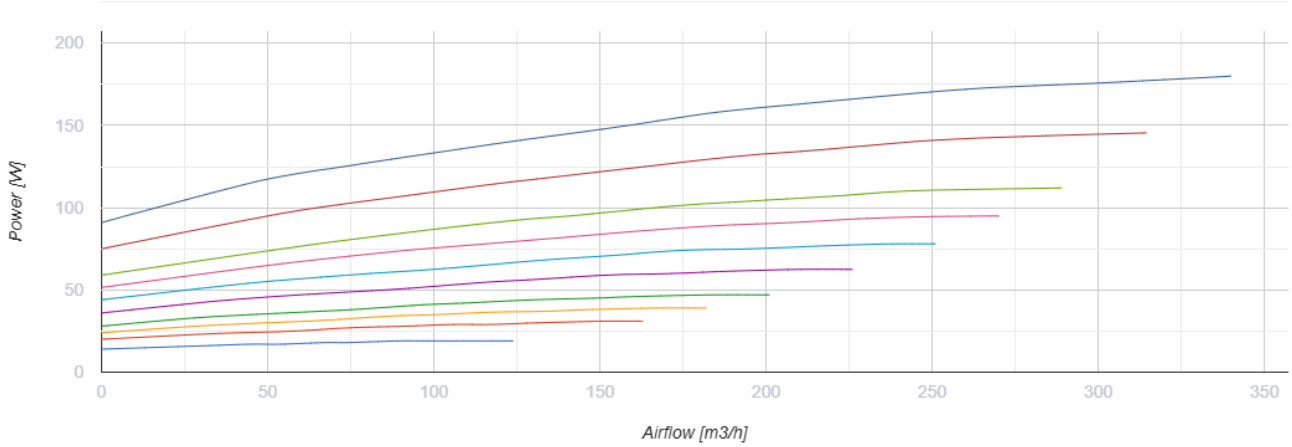
Suspended commercial air handling units with a counterflow polystyrene heat exchanger

- Power of electrical reheater: 1500
- Maximum airflow: 340
- Sound pressure level LpA at 3 m: 27
- 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 300 PBE EC R A21 DTV
Connected air duct size	mm	160
Speed	-	1
Phases	-	1
Minimum supply voltage	V	230
Maximum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	180
Power of electrical reheater	W	1500
Unit current	A	7.9
Maximum airflow	m^3/h	340
Sound pressure level LpA at 3 m	dB(A)	27
Heat recovery efficiency, max	%	90
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	44
Extract filter	-	G4
Supply filter	-	G4 (F7 option)
Transported air temperature (max)	°C	40
Transported air temperature (min)	°C	-25

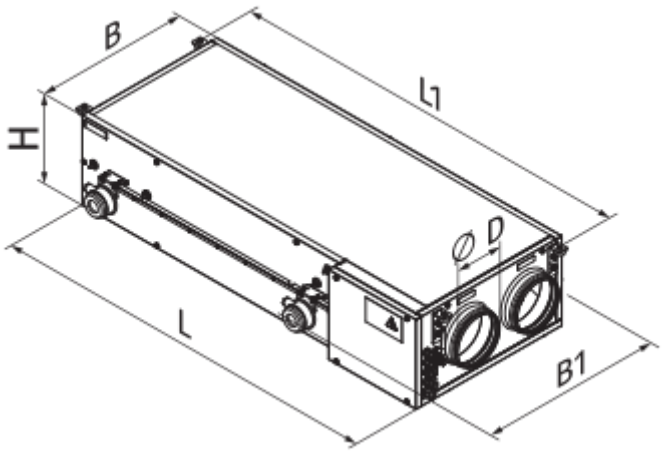
Ambient air temperature min	°C	1
Ambient air temperature max	°C	40
Ambient air humidity max	%	60
Ingress protection rating	-	IP22
Ingress protection rating of the drive	-	IP44





Dimensions

ØD	B	B1	H	L	L1
160	485	577	280	1238	1291



Accessories

Control Panels for AHU

Name	Photo	Description
A22		Control panels for controlling industrial and residential air handling units
A22 WiFi		Control panels for controlling industrial and residential air handling units
A25		Touch screen control panel for controlling industrial and residential air handling units

Sensors

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

Condensation drainage

Name	Photo	Description

SH-32		Hydraulic U-trap to drain condensate from heat exchangers and coolers

For round ducts

Name	Photo	Description
SR 160/600		Silencers made of galvanized steel filled with non-combustible sound-absorbing material
SR 160/900		Silencers made of galvanized steel filled with non-combustible sound-absorbing material
SR 160/1200		Silencers made of galvanized steel filled with non-combustible sound-absorbing material

For round ducts

Name	Photo	Description
KOM 160		Backdraught damper with spring-loaded plates for shutting off air flow in round air ducts
KRV 160		Air dampers for automatic air flow control in round ducts

Electric actuators

Name	Photo	Description
Belimo TF230		The actuators are designed for controlling air dampers with cross section up to 0.4 m² performing protection functions

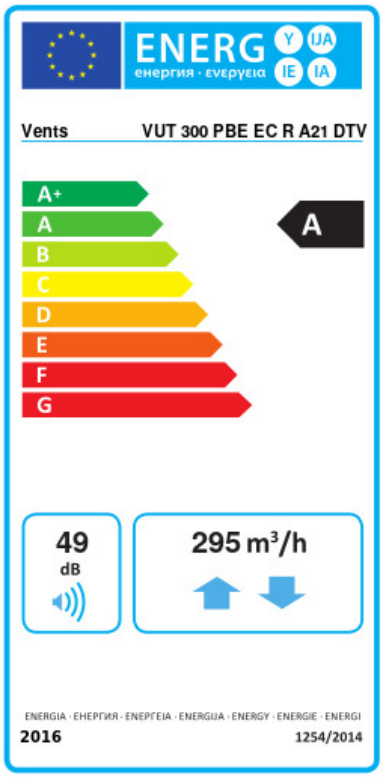
Other accessories

Name	Photo	Description
SFK 208x236x27 G4		G4 pocket filter
SFK 208x236x27 F7		F7 pocket filter
SF 440x128x20 G4		Panel filter G4

Electrical heaters

Name	Photo	Description
NKP 160-0,8-1 A21 V.2		Inline heaters for heat exchanger frost protection
NKP 160-2,0-1 A21 V.2		Inline heaters for heat exchanger frost protection
NKP 160-1,7-1 A21 V.2		Inline heaters for heat exchanger frost protection
NKP 160-1,2-1 A21 V.2		Inline heaters for heat exchanger frost protection

Ecodesign



Trademark	Vents					
Model	VUT 300 PBE EC R A21 DTV					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	75.7	A+	39	A	15.3	E
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 (m³/h)	295					
Electric power input (W)	174					
Reference flow rate (m³/s)	0.061					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.35					
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))	49					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	767		230		185	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	8614		4403		1991	