

VUT 550 PBW EC R A21 DTV

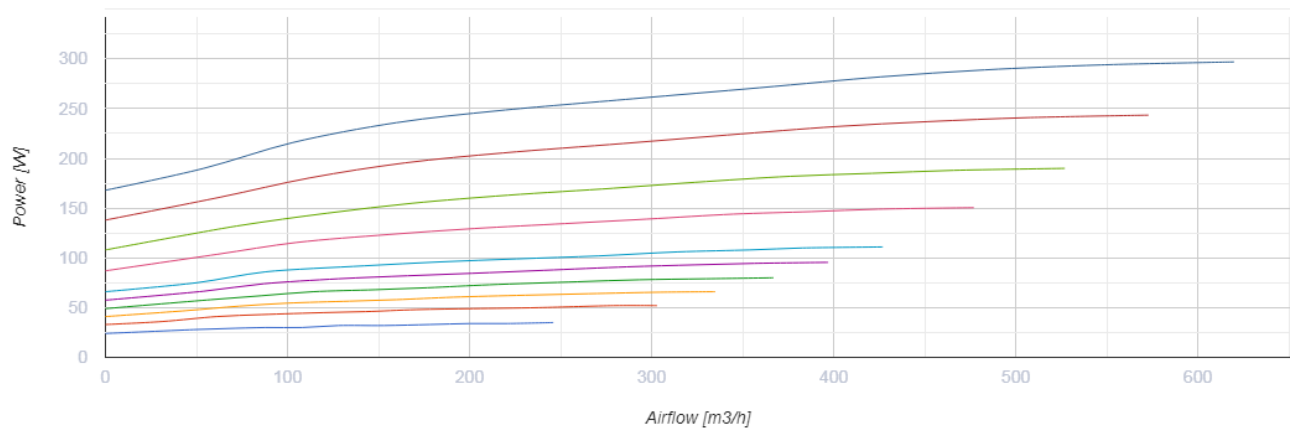
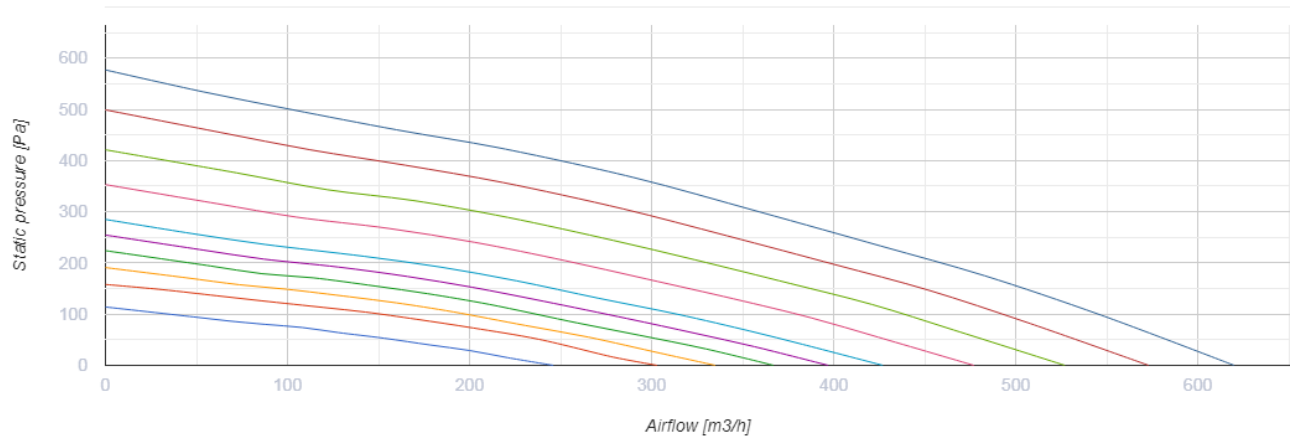


Ceiling mounted air handling units in compact heat- and sound-insulated casing with a water heater

- Maximum airflow: 608
- Sound pressure level LpA at 3 m: 30
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4 (F7 option)
- Sound insulation
- Motor type: EC
- Bypass: Auto
- Reheater: Water
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Galvanized steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

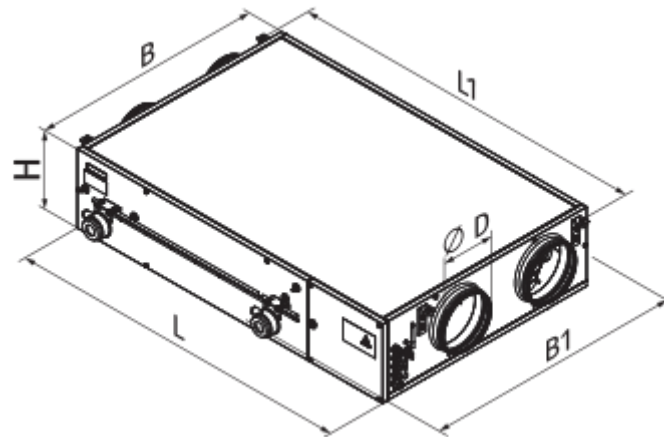
| | Unit of measurement | VUT 550 PBW EC R A21 DTV |
|-----------------------------------|---------------------|--------------------------|
| Connected air duct size | mm | 200 |
| Speed | - | 1 |
| Phases | - | 1 |
| Minimum supply voltage | V | 230 |
| Maximum supply voltage | V | 230 |
| Power supply frequency | Hz | 50/60 |
| Rated power | W | 322 |
| Unit current | A | 2.4 |
| Maximum airflow | m ³ /h | 608 |
| Sound pressure level LpA at 3 m | dB(A) | 30 |
| Heat recovery efficiency, max | % | 90 |
| Heat exchanger type | - | Counter flow |
| Heat exchanger material | - | Polystyrene |
| Weight | kg | 68 |
| 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 |
|-----|-----|-----|-----|------|------|
| 200 | 827 | 960 | 280 | 1238 | 1291 |








Accessories



Control Panels for AHU

| Name | Photo | Description |
|--------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| A25 |  | The control panel with a sensor display |


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 |



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 |
|------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| SR 200/600 |  | Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems |
| SR 200/900 |  | Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems |
| SR 200/1200 |  | Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems |
| SRF 200/600 |  | Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems |
| SRF 200/900 |  | Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems |
| SRF 200/2000 |  | Silencer is applied for noise absorption produced during the ventilating equipment operation and spread along the ducting systems |

For round ducts

| Name | Photo | Description |
|-------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|
| KOM 200 |  | Spring-loaded backdraft damper for round ducts |
| KRV 200 |  | 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 |
| Belimo TF230 |  | The actuators are designed for controlling air dampers with cross section up to 0.4 m ² performing protection functions |

Mixing chambers




| Name | Photo | Description |
|-------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USWK 3/4-4 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 3/4-6 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 1-6 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 1-10 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 1 1/4-10 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 1 1/4-16 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 1 1/2-16 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 1 1/2-25 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 2-25 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |
| USWK 2-40 |  | The mixing unit USWK is designed for smooth heat medium flow control in ventilation systems equipped with water heaters or coolers for supply air temperature regulation |

Other accessories

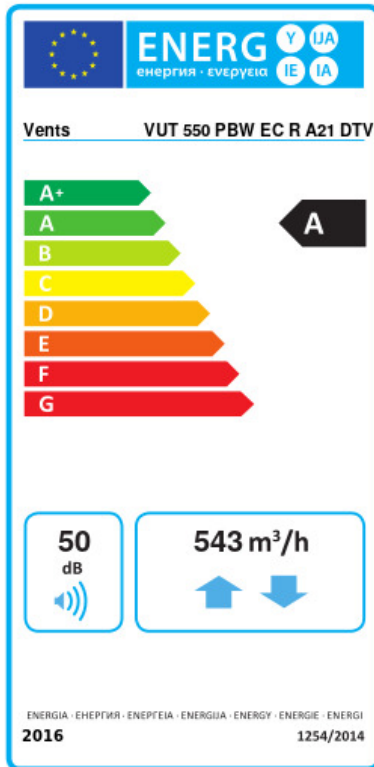
| Name | Photo | Description |
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| | | |
|-------------------|-----------------------------------------------------------------------------------|------------------|
| SFK 392x236x27 G4 |  | G4 pocket filter |
| SFK 392x236x27 F7 |  | F7 pocket filter |
| SF 782x128x20 G4 |  | Panel filter G4 |

Electrical heaters

| Name | Photo | Description |
|---------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| NKP 200-2,0-1 A21 V.2 |  | Heater for heat exchanger freeze protection |
| NKP 200-1,7-1 A21 V.2 |  | Heater for heat exchanger freeze protection |
| NKP 200-1,2-1 A21 V.2 |  | Heater for heat exchanger freeze protection |

Ecodesign



| | | | | | | |
|-------------------------------------------------------------|--------------------------|----|---------|---|------|---|
| Trademark | Vents | | | | | |
| Model | VUT 550 PBW EC R A21 DTV | | | | | |
| Specific energy consumption (SEC) (kWh/(m ² /a)) | Cold | | Average | | Warm | |
| | 78.2 | A+ | 40.4 | A | 16.2 | E |
| Type of ventilation unit | Bidirectional | | | | | |
| Type of drive installed | Variable speed | | | | | |
| Type of heat recovery system | Recuperative | | | | | |
| Thermal efficiency of heat recovery (%) | 81 | | | | | |
| Maximum flow rate (m ³ /h) | 543 | | | | | |
| Electric power input (W) | 322 | | | | | |
| Reference flow rate (m ³ /s) | 0.106 | | | | | |
| Reference pressure difference (Pa) | 50 | | | | | |
| Specific power input (SPI) (W/(m ³ /h)) | 0.316 | | | | | |
| 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)) | 50 | | | | | |
| The annual electricity consumption (AEC) (kWh/a) | Cold | | Average | | Warm | |
| | 749 | | 212 | | 167 | |
| The annual heating saved (AHS) (kWh/a) | Cold | | Average | | Warm | |
| | 8817 | | 4507 | | 2038 | |