

VUT 160 PB EC R A21

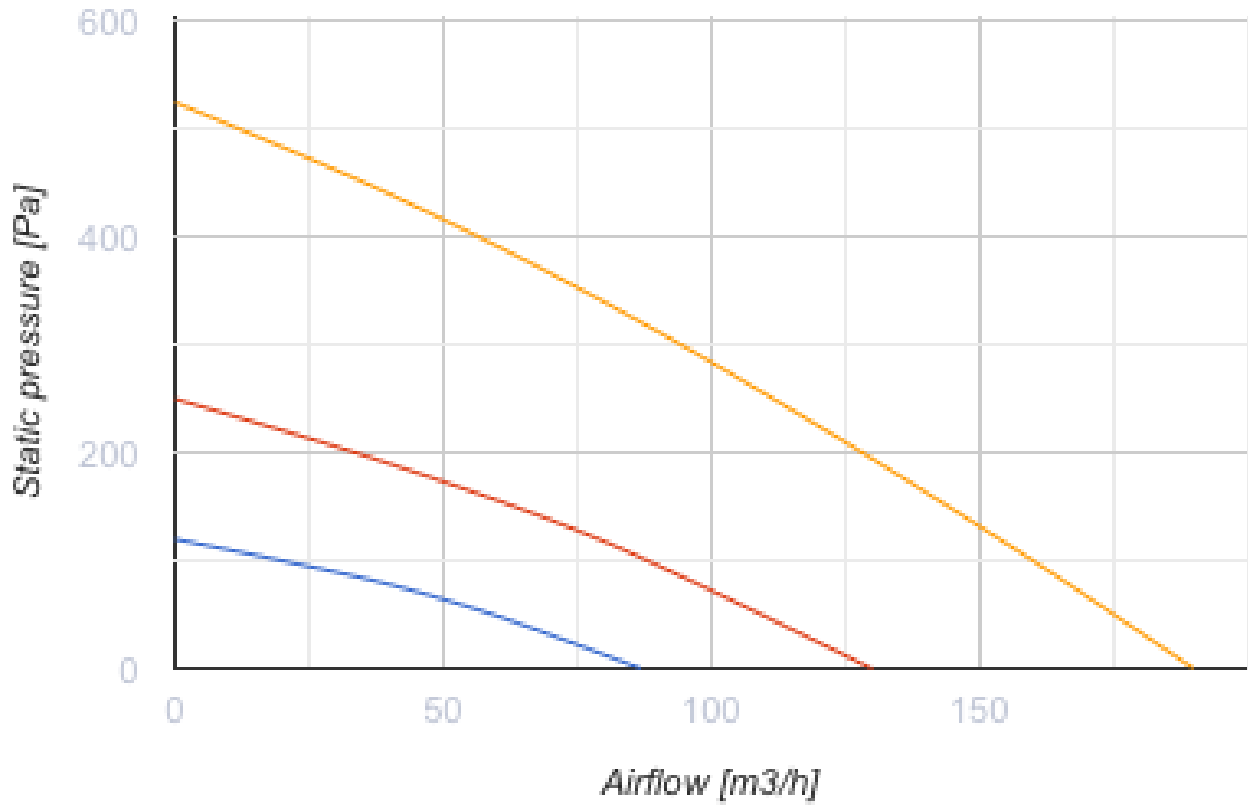
Suspended air handling units with a counterflow polystyrene heat exchanger



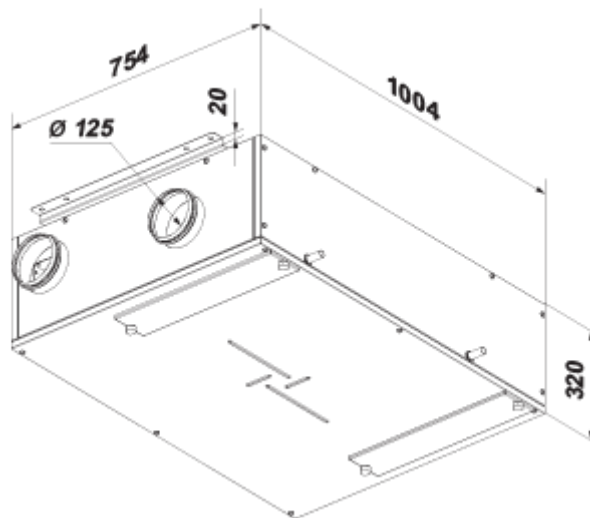
- Maximum airflow: 190
- Sound pressure level LpA at 3 m: 26
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: F7
- Sound insulation
- Motor type: EC
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Galvanized steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

| | Unit of measurement | VUT 160 PB EC R A21 |
|-----------------------------------|---------------------|---------------------|
| Connected air duct size | mm | 125 |
| Speed | - | 1 |
| Minimum supply voltage | V | 230 |
| Maximum supply voltage | V | 230 |
| Power supply frequency | Hz | 50/60 |
| Rated power | W | 50 |
| Unit current | A | 0.4 |
| Maximum airflow | m ³ /h | 190 |
| Sound pressure level LpA at 3 m | dB(A) | 26 |
| Heat recovery efficiency, max | % | 94 |
| Heat exchanger type | - | Counter flow |
| Heat exchanger material | - | Polystyrene |
| Weight | kg | 48 |
| Extract filter | - | G4 |
| Supply filter | - | 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 |
|--|---|------|






Dimensions







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 |

Electrical heaters


| Name | Photo | Description |
|---------------------------------------|---|---|
| NKP 125-0,6-1 A21 V.2 |  | Heater for heat exchanger freeze protection |
| NKP 125-0,8-1 A21 V.2 |  | Heater for heat exchanger freeze protection |
| NKP 125-1,2-1 A21 V.2 |  | Heater for heat exchanger freeze protection |
| NKD 125-0,6-1 A21 V.2 |  | Duct heater for supply air post-heating with external control |
| NKD 125-0,8-1 A21 V.2 |  | Duct heater for supply air post-heating with external control |

| | | |
|---------------------------------------|---|---|
| NKD 125-1,2-1 A21 V.2 |  | Duct heater for supply air post-heating with external control |
|---------------------------------------|---|---|


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 125 |  | Air damper for air flow cut-off in round air ducts |

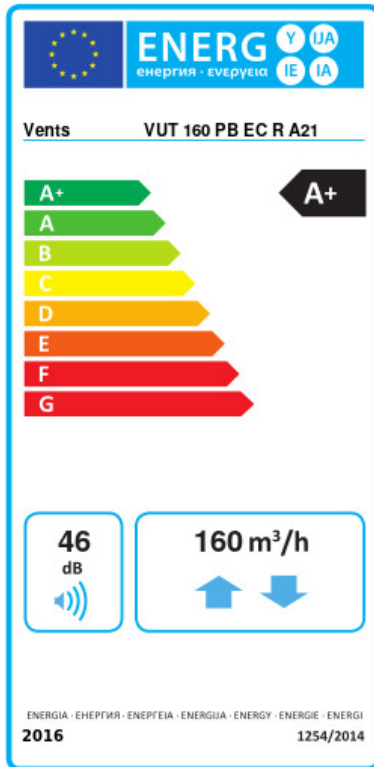
Electric actuators

| 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 403x253x48 G4 |  | Panel filter G4 |
| SF 403x253x48 F7 |  | F7 panel filter |

Ecodesign



| | | | | | | |
|---|----------------------|---------|---------|------|------|---|
| Trademark | Vents | | | | | |
| Model | VUT 160 PB EC R A21 | | | | | |
| Specific energy consumption (SEC) (kWh/(m ² /a)) | Cold | | Average | | Warm | |
| | 80.9 | A+ | 42.5 | 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 (%) | 84 | | | | | |
| Maximum flow rate (m ³ /h) | 160 | | | | | |
| Electric power input (W) | 52 | | | | | |
| Reference flow rate (m ³ /s) | 0.035 | | | | | |
| Reference pressure difference (Pa) | 50 | | | | | |
| Specific power input (SPI) (W/(m ³ /h)) | 0.205 | | | | | |
| 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)) | 46 | | | | | |
| The annual electricity consumption (AEC) (kWh/a) | Cold | Average | | Warm | | |
| | 690 | 153 | | 108 | | |
| The annual heating saved (AHS) (kWh/a) | Cold | Average | | Warm | | |
| | 8408 | 4298 | | 1944 | | |