# VUTR 202 VKS EC R A21

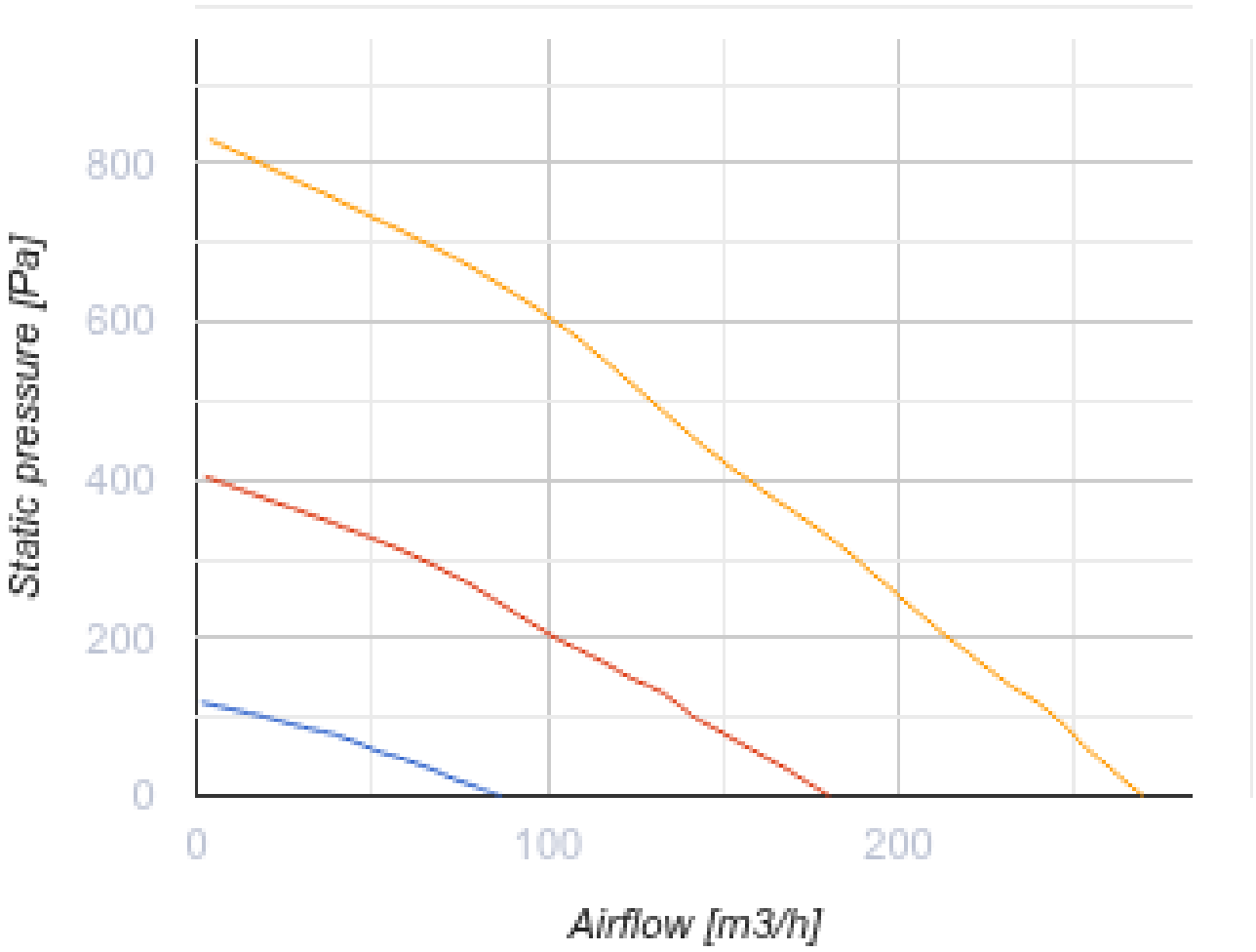


Vertical air handling units with a sorption rotary heat exchanger

- Sound pressure level LpA at 3 m: 33
- Heat exchanger type: Rotary
- Heat exchanger material: Aluminum
- Supply filter: G4 (F7 optional)
- Extract filter: G4
- Sound-insulated casing
- Bypass: Auto
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

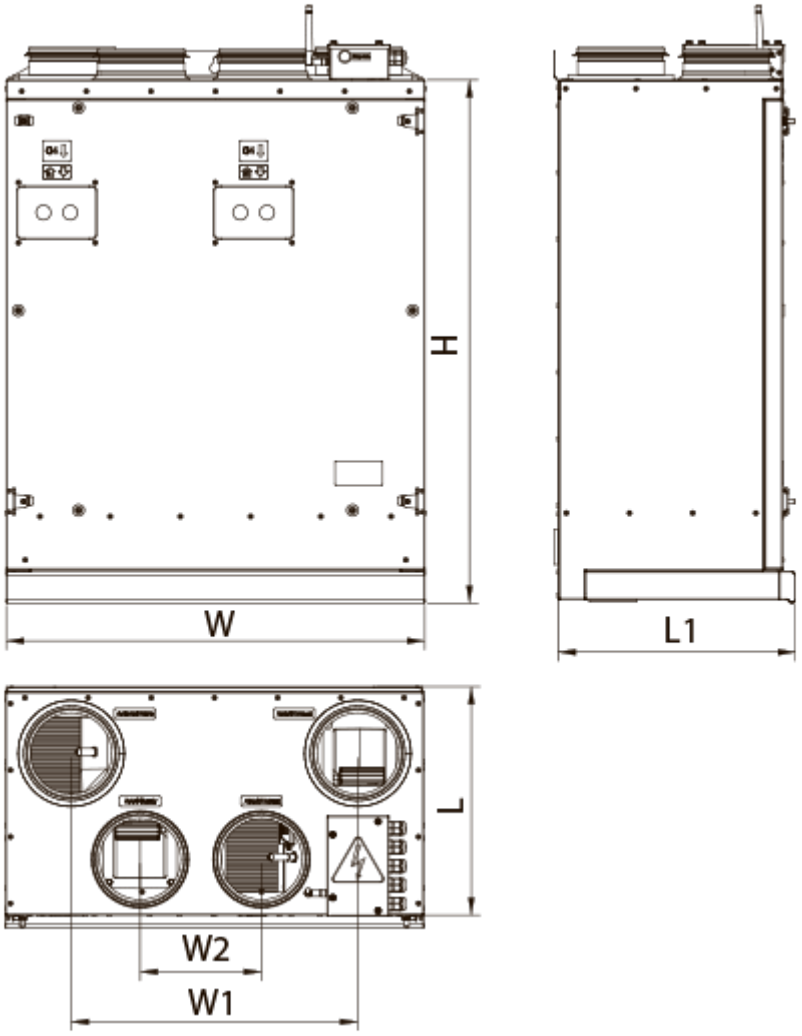
| | Unit of measurement | VUTR 202 VKS EC R A21 |
|---|---|---|
| Connected air duct size | mm | 125 |
| Phases | - | 1 |
| Minimum supply voltage | V | 230 |
| Maximum supply voltage | V | 230 |
| Power supply frequency | Hz | 50 |
| Rated power | W | 171 |
| Unit current | A | 1.31 |
| Maximum airflow | $m^3/h$ | 270 |
| Sound pressure level LpA at 3 m | dB(A) | 33 |
| Heat recovery efficiency, max | % | 93 |
| Heat exchanger type | - | Rotary |
| Heat exchanger material | - | Aluminum |
| Weight | kg | 52 |
| Supply filter | - | G4 (F7 optional) |
| Extract filter | - | G4 |
| Transported air temperature (max) | °C | 40 |
| Transported air temperature (min) | °C | -25 |
| Ambient air temperature min | °C | 1 |
| Ambient air temperature max | °C | 40 |

| | | |
|---|---|---|
| Ingress protection rating | - | IP22 |
| Ambient air humidity max | % | 60 |
| Ingress protection rating of the drive | - | IP44 |




## Dimensions

| H | W | W1 | W2 | L | L1 |
|---|---|---|---|---|---|
| 746 | 596 | 408 | 173 | 326 | 338 |




## Accessories

### Control Panels for AHU

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

### Sensors

| Name | Photo | Description |
|---|---|---|
| CO2-1 |  | CO2 sensors |

| | | |
|---|---|---|
| HR-S |  | Electro-mechanical humidistat |

### For round ducts

| Name | Photo | Description |
|---|---|---|
| SR 125/600 |  | Silencers made of galvanized steel filled with non-combustible sound-absorbing material |
| SR 125/900 |  | Silencers made of galvanized steel filled with non-combustible sound-absorbing material |
| SR 125/1200 |  | Silencers made of galvanized steel filled with non-combustible sound-absorbing material |

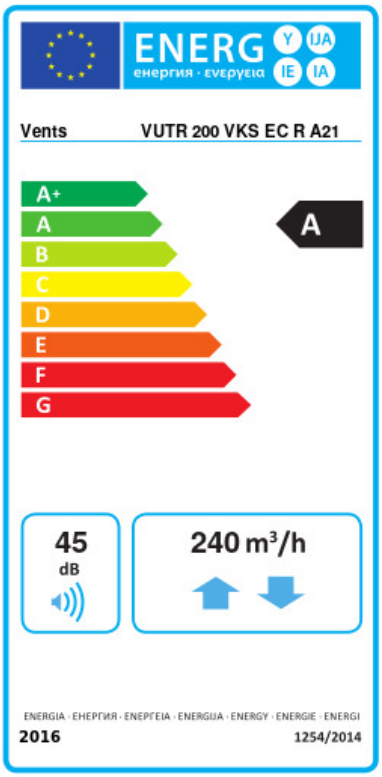
### For round ducts

| Name | Photo | Description |
|---|---|---|
| KOM 125 |  | Backdraught damper with spring-loaded plates for shutting off air flow in round air ducts |
| KRV 125 |  | 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 |

## Ecodesign




| Trademark | Vents | | | | | |
|---|---|---|---|---|---|---|
| Model | VUTR 202 VKS EC R A21 | | | | | |
| Specific energy consumption (SEC) (kWh/(m²/a)) | Cold | | Average | | Warm | |
| | -85.6 | A+ | -41.1 | A | -15.6 | E |
| Type of ventilation unit | Bidirectional | | | | | |
| Type of drive installed | Variable speed | | | | | |
| Type of heat recovery system | Regenerative | | | | | |
| Thermal efficiency of heat recovery (%) | 88 | | | | | |
| Maximum flow rate (m³/h) | 240 | | | | | |
| Electric power input (W) | 170 | | | | | |
| Reference flow rate (m³/s) | 0.047 | | | | | |
| Reference pressure difference (Pa) | 50 | | | | | |
| Specific power input (SPI) (W/(m³/h)) | 0.411 | | | | | |
| Control typology | Local demand control | | | | | |
| Maximum internal leakage rates (%) | 3.3 | | | | | |
| Maximum external leakage rates (%) | 2.7 | | | | | |
| Declared typology | RVU BVU | | | | | |
| Sound power level (dB(A)) | 45 | | | | | |
| The annual electricity consumption (AEC) (kWh/a) | Cold | | Average | | Warm | |
| | 217 | | 869 | | 217 | |
| The annual heating saved (AHS) (kWh/a) | Cold | | Average | | Warm | |
| | 9100 | | 4652 | | 2104 | |