

# VUTR 350 P2E EC L A21

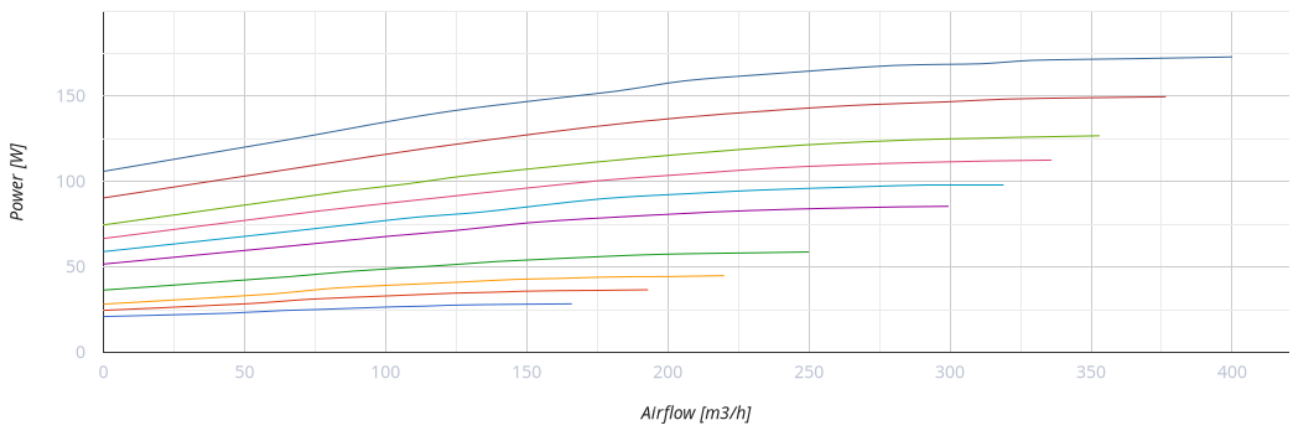
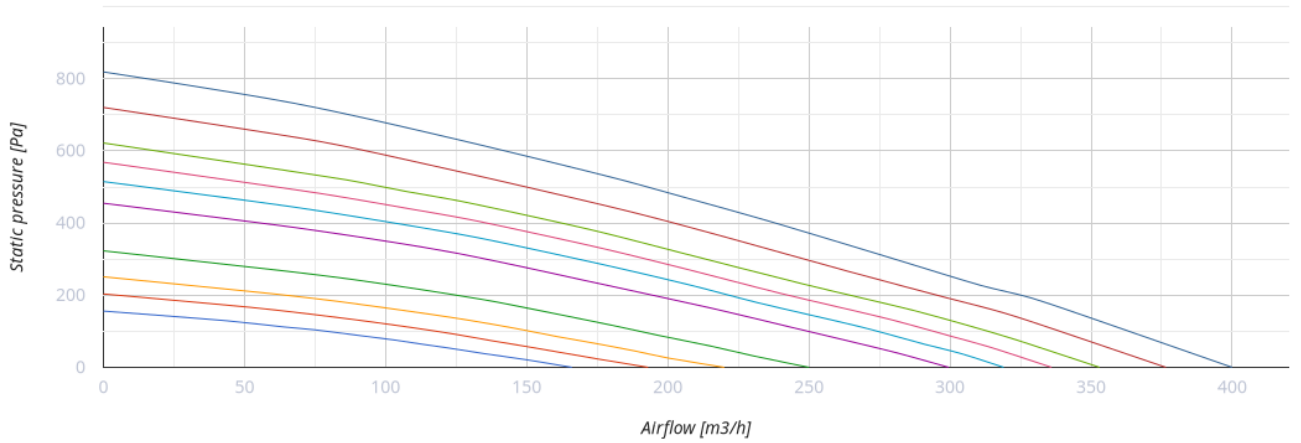


Suspended air handling units with a sorption rotary heat exchanger

- Power of electrical reheater: 1400
- Maximum airflow: 400
- Sound pressure level LpA at 3 m: 33
- Heat exchanger type: Rotary
- Extract filter: G4
- Supply filter: G4, F7 (H13 option)
- Sound insulation
- Motor type: EC
- Reheater: Electric
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Galvanized steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

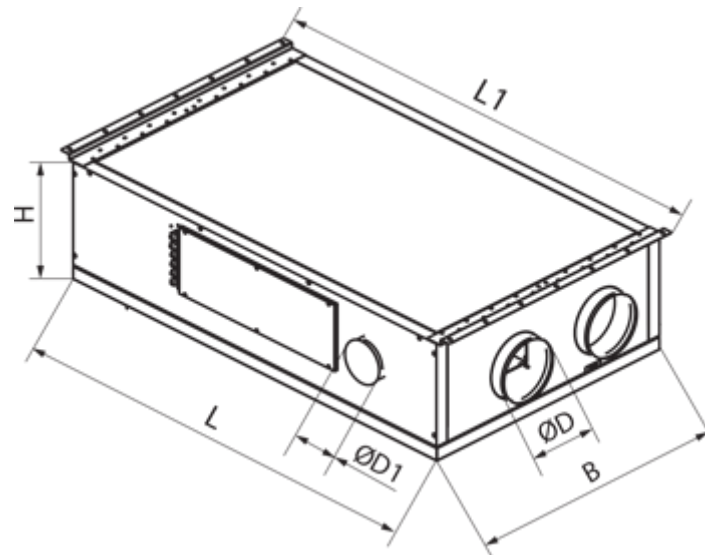
|                                   | Unit of measurement | VUTR 350 P2E EC L A21 |
|-----------------------------------|---------------------|-----------------------|
| Connected air duct size           | mm                  | 160                   |
| Speed                             | -                   | 1                     |
| Minimum supply voltage            | V                   | 230                   |
| Maximum supply voltage            | V                   | 230                   |
| Power supply frequency            | Hz                  | 50/60                 |
| Rated power                       | W                   | 200                   |
| Power of electrical reheater      | W                   | 1400                  |
| Unit current                      | A                   | 6.9                   |
| Maximum airflow                   | m <sup>3</sup> /h   | 400                   |
| Sound pressure level LpA at 3 m   | dB(A)               | 33                    |
| Heat recovery efficiency, max     | %                   | 87                    |
| Heat exchanger type               | -                   | Rotary                |
| Heat exchanger material           | -                   | Aluminum              |
| Weight                            | kg                  | 79                    |
| Extract filter                    | -                   | G4                    |
| Supply filter                     | -                   | G4, F7 (H13 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               | %  | 80   |
| Ingress protection rating              | -  | IP22 |
| Ingress protection rating of the drive | -  | IP44 |






## Dimensions

| ØD  | ØD1 | B   | H   | L    | L1   |
|-----|-----|-----|-----|------|------|
| 160 | 125 | 847 | 245 | 1362 | 1457 |





## Accessories

### Control Panels for AHU


| Name                     | Photo   | Description   |
|--------------------------|---|---|
| <a href="#">A25</a>      |   | The control panel with a sensor display   |
| <a href="#">A22</a>      |  | The A22/A22 WiFi control panels are used for control of industrial and domestic air handling units with an A21 automation system. |
| <a href="#">A22 WiFi</a> |  | The A22/A22 WiFi control panels are used for control of industrial and domestic air handling units with an A21 automation system. |

### Sensors


| Name                 | Photo   | Description                    |
|----------------------|---|--------------------------------|
| <a href="#">HR-S</a> |  | Electro-mechanical humidistats |
| <a href="#">HV2</a>  |  | Humidity sensor                |

### For round ducts



| Name                    | Photo   | Description                                    |
|-------------------------|---|--|
| <a href="#">KOM_160</a> |  | Spring-loaded backdraft damper for round ducts |

|                         |   |  |
|-------------------------|---|--|
| <a href="#">KRV 160</a> |  | Air damper for air flow cut-off in round air 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 |

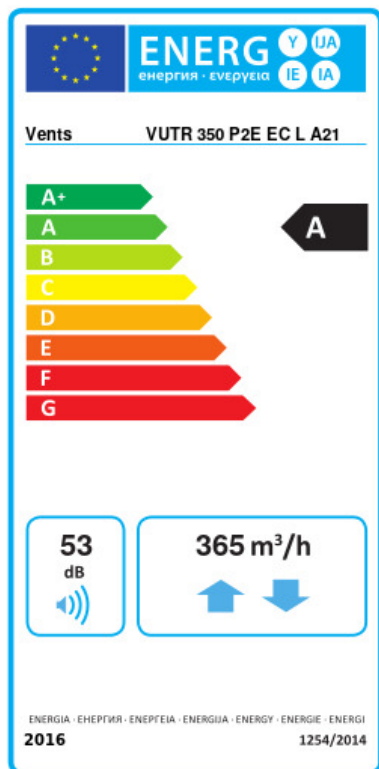
### Other accessories

| Name             | Photo   | Description     |
|------------------|---|-----------------|
| SF 372x180x48 G4 |  | Panel filter G4 |
| SF 372x180x48 F7 |  | F7 panel filter |

### Flanges

| Name                 | Photo   | Description  |
|----------------------|---|--|
| <a href="#">KH-1</a> |  | The kitchen exhaust hood is designed to clean air from combustion products, fumes, odors that form during cooking in the kitchen |

## Ecodesign



|   |                       |    |         |   |      |   |
|---|-----------------------|----|---------|---|------|---|
| Trademark   | Vents                 |    |         |   |      |   |
| Model   | VUTR 350 P2E EC L A21 |    |         |   |      |   |
| Specific energy consumption (SEC) (kWh/(m <sup>2</sup> /a)) | Cold                  |    | Average |   | Warm |   |
|   | 81.7                  | A+ | 39.6    | A | 15.4 | E |
| Type of ventilation unit                                    | Bidirectional         |    |         |   |      |   |
| Type of drive installed                                     | Variable speed        |    |         |   |      |   |
| Type of heat recovery system                                | Regenerative          |    |         |   |      |   |
| Thermal efficiency of heat recovery (%)                     | 76                    |    |         |   |      |   |
| Maximum flow rate (m <sup>3</sup> /h)                       | 365                   |    |         |   |      |   |
| Electric power input (W)                                    | 173                   |    |         |   |      |   |
| Reference flow rate (m <sup>3</sup> /s)                     | 0.081                 |    |         |   |      |   |
| Reference pressure difference (Pa)                          | 50                    |    |         |   |      |   |
| Specific power input (SPI) (W/(m <sup>3</sup> /h))          | 0.338                 |    |         |   |      |   |
| 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))                                   | 53                    |    |         |   |      |   |
| The annual electricity consumption (AEC) (kWh/a)            | Cold                  |    | Average |   | Warm |   |
|   | 179                   |    | 179     |   | 179  |   |
| The annual heating saved (AHS) (kWh/a)                      | Cold                  |    | Average |   | Warm |   |
|   | 8614                  |    | 4403    |   | 1991 |   |