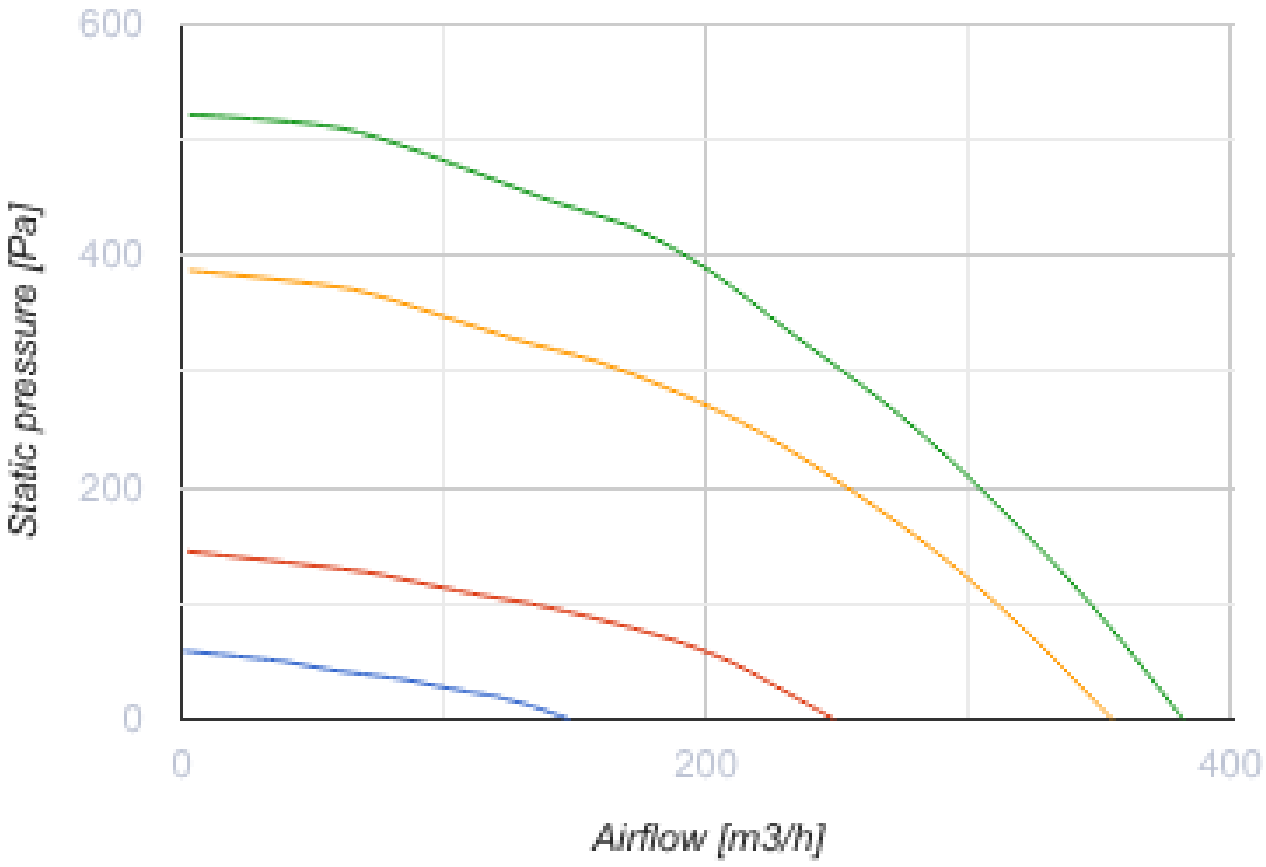


# KOMFORT Roto EC S 281-E R S21

Air handling units with rotary heat exchanger

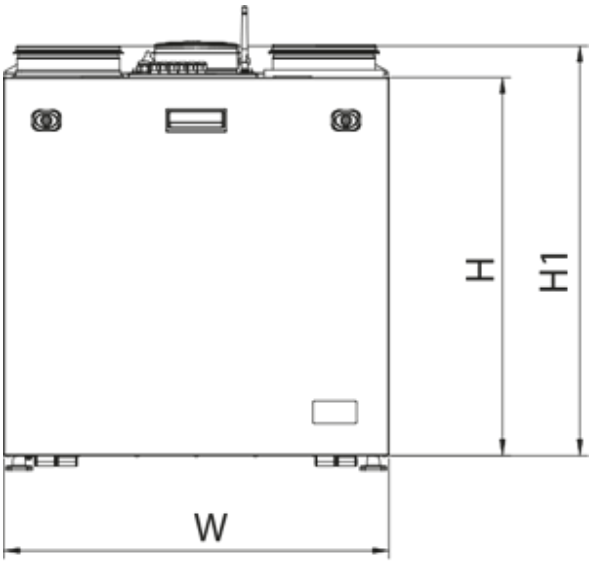
- Heat exchanger type: Sorption rotary
- Sound-insulated casing
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Coated steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

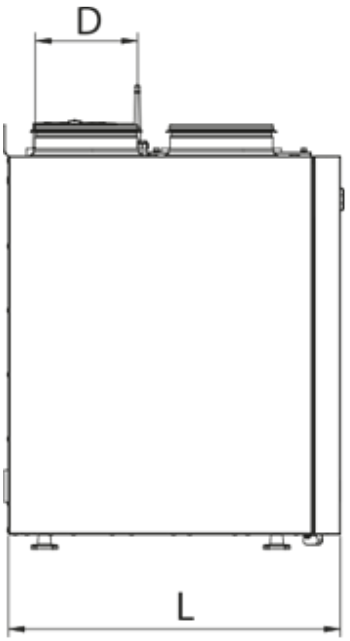
| | Unit of measurement | KOMFORT Roto EC S 281-E R S21 |
|---|---|---|
| Phases | - | 1 |
| Minimum supply voltage | V | 230 |
| Maximum supply voltage | V | 230 |
| Power supply frequency | Hz | 50/60 |
| Maximum airflow | m³/h | 382 |
| Heat recovery efficiency, max | % | 86 |
| Heat exchanger type | - | Sorption rotary |
| Weight | kg | 57 |
| 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 |

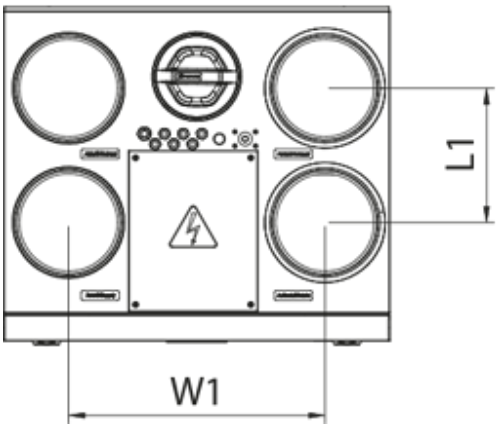



## Dimensions

| H | W | L | H1 | W1 | L1 | D |
|---|---|---|---|---|---|---|
| 588 | 598 | 515 | 638 | 397 | 209 | 160 |


H
H1
W


D
L


L1
W1

## Ecodesign

| Trademark | Blauberg | | | | | |
|---|---|---|---|---|---|---|
| Model | KOMFORT Roto EC S 281-E R S21 | | | | | |
| Specific energy consumption (SEC) (kWh/(m²/a)) | Cold | | Average | | Warm | |
| | -86.2 | A+ | -42.5 | A+ | -17.5 | E |
| Type of ventilation unit | Bidirectional | | | | | |
| Type of drive installed | Variable speed | | | | | |
| Type of heat recovery system | Regenerative | | | | | |
| Thermal efficiency of heat recovery (%) | 84 | | | | | |
| Maximum flow rate (m³/h) | 311 | | | | | |
| Electric power input (W) | 133 | | | | | |
| Reference flow rate (m³/s) | 0.061 | | | | | |
| Reference pressure difference (Pa) | 50 | | | | | |
| Specific power input (SPI) (W/(m³/h)) | 0.239 | | | | | |
| Control typology | Local demand control | | | | | |
| Maximum internal leakage rates (%) | 2.7 | | | | | |
| Maximum external leakage rates (%) | 2.7 | | | | | |
| Sound power level (dB(A)) | 47 | | | | | |
| The annual electricity consumption (AEC) (kWh/a) | Cold | | Average | | Warm | |
| | 126 | | 126 | | 126 | |
| The annual heating saved (AHS) (kWh/a) | Cold | | Average | | Warm | |
| | 8938 | | 4569 | | 2066 | |

## Accessories

### Control Panels

| Name | Photo | Description |
|---|---|---|
| S25 |  | LCD control panel |
| S22 |  | Control panels |

| | | |
|---|---|---|
| S22 Wi-Fi |  | Control panels |

### CO2 sensors

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

### Humidity sensors

| Name | Photo | Description |
|---|---|---|
| FS2 |  | Humidity sensor |

### Other accessories

| Name | Photo | Description |
|---|---|---|
| FP 428x220x40 ePM1 60% F7 |  | F7 panel filter |
| FP 428x220x40 Coarse 90% G4 |  | G4 panel filter |