

# KOMFORT EC DBW 900 R S21 DTV

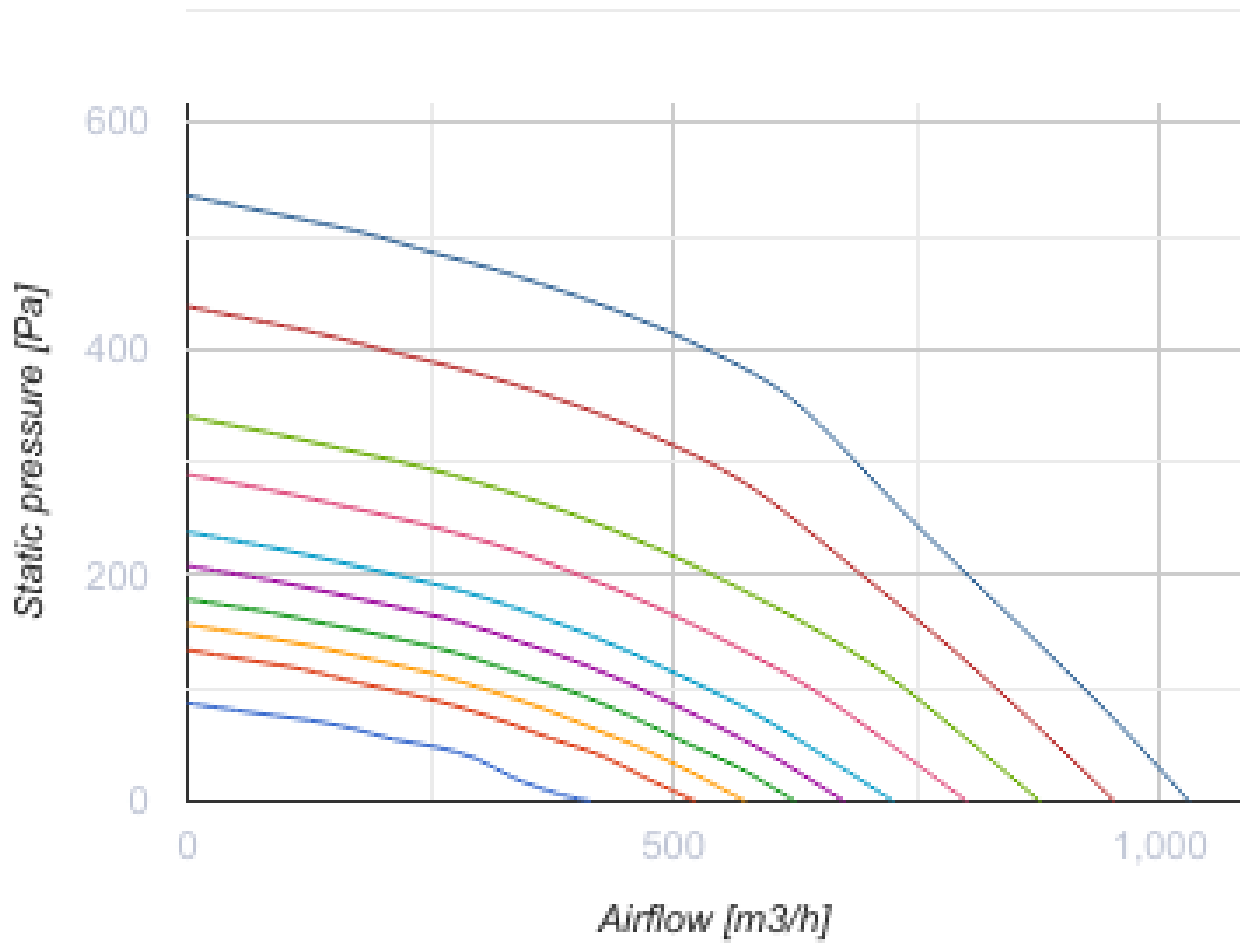
Suspended heat recovery air handling units

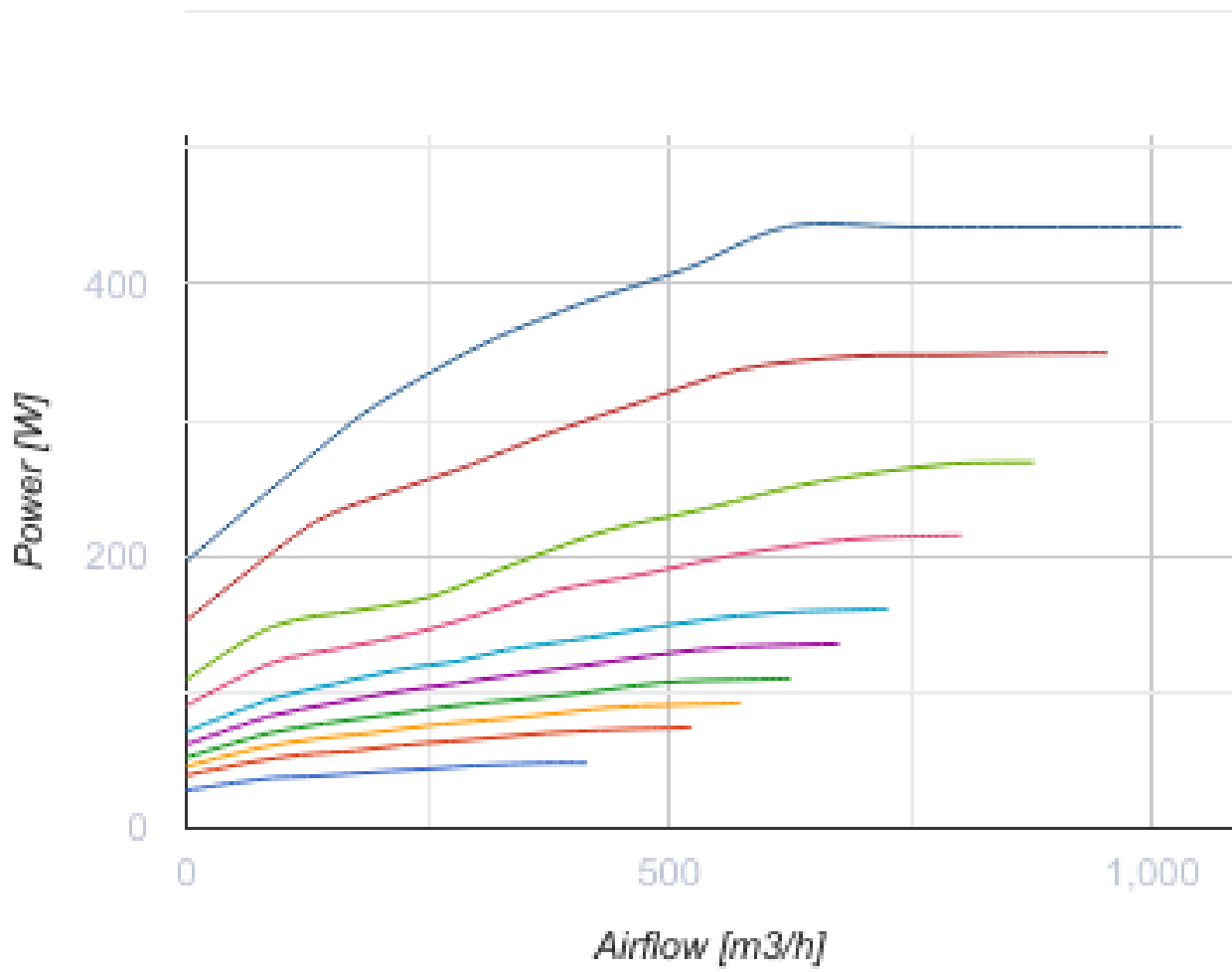


- Maximum airflow: 1030
- Sound pressure level LpA at 3 m: 33
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4 (F7 option), G4 (опция: F7)
- Sound insulation
- Motor type: EC
- Bypass: Auto
- Reheater: Water
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Galvanized steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

|                                   | Unit of measurement | KOMFORT EC DBW 900 R S21 DTV   |
|-----------------------------------|---------------------|--------------------------------|
| Connected air duct size           | mm                  | 250                            |
| Speed                             | -                   | 1                              |
| Phases                            | -                   | 1                              |
| Minimum supply voltage            | V                   | 230                            |
| Maximum supply voltage            | V                   | 230                            |
| Power supply frequency            | Hz                  | 50/60                          |
| Rated power                       | W                   | 442                            |
| Unit current                      | A                   | 3                              |
| Maximum airflow                   | m <sup>3</sup> /h   | 1030                           |
| Sound pressure level LpA at 3 m   | dB(A)               | 33                             |
| Heat recovery efficiency, max     | %                   | 88                             |
| Heat exchanger type               | -                   | Counter flow                   |
| Heat exchanger material           | -                   | Polystyrene                    |
| Weight                            | kg                  | 112                            |
| Extract filter                    | -                   | G4                             |
| Supply filter                     | -                   | G4 (F7 option), G4 (опция: F7) |
| Transported air temperature (max) | °C                  | 40                             |
| Transported air temperature (min) | °C                  | -25                            |

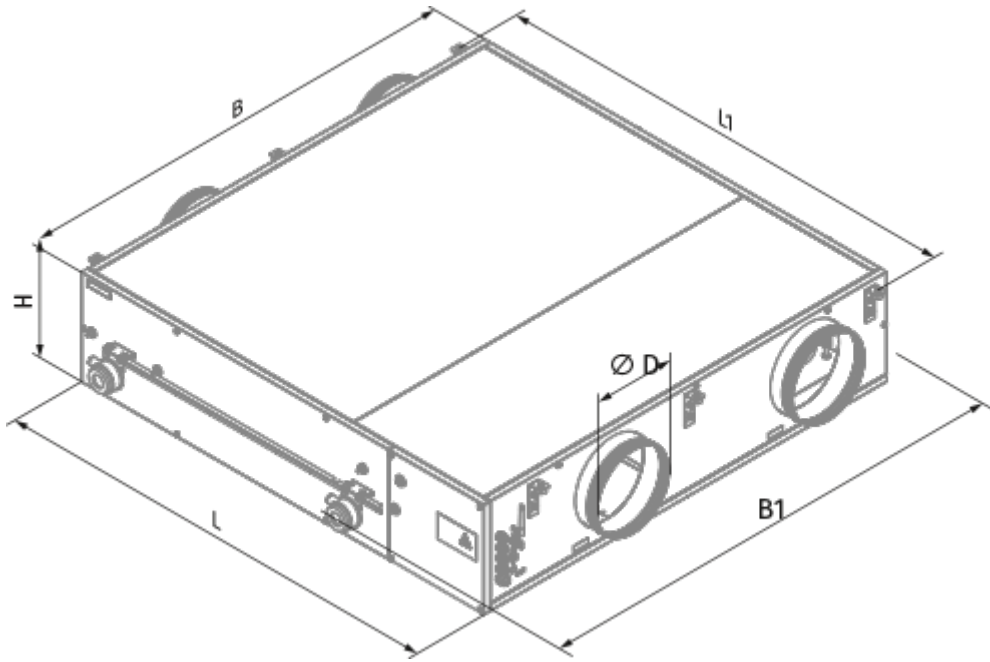
|  |    |      |
|--|----|------|
| Ambient air temperature min            | °C | 1    |
| Ambient air temperature max            | °C | 40   |
| Ambient air humidity max               | %  | 60   |
| Ingress protection rating              | -  | IP22 |
| Ingress protection rating of the drive | -  | IP44 |



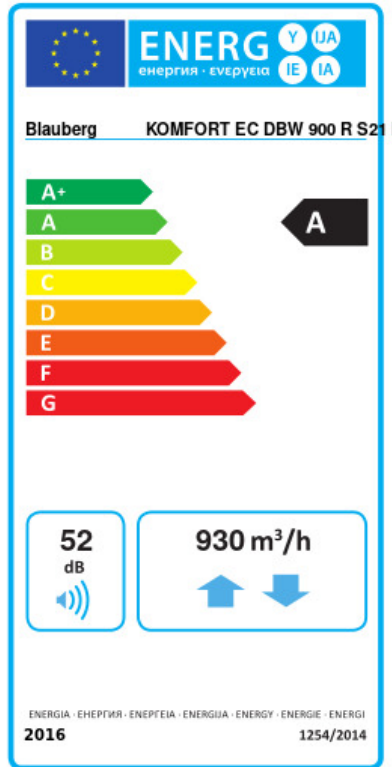


## Dimensions

| Ø D | B    | B1   | H   | L    | L1   |
|-----|------|------|-----|------|------|
| 249 | 1350 | 1485 | 317 | 1346 | 1395 |



## Ecodesign



|   |                              |    |         |   |      |   |
|---|------------------------------|----|---------|---|------|---|
| Trademark   | Blauberg                     |    |         |   |      |   |
| Model   | KOMFORT EC DBW 900 R S21 DTV |    |         |   |      |   |
| Specific energy consumption (SEC) (kWh/(m <sup>2</sup> /a)) | Cold                         |    | Average |   | Warm |   |
|   | 78.1                         | A+ | 40.8    | 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 (%)                     | 79                           |    |         |   |      |   |
| Maximum flow rate (m <sup>3</sup> /h)                       | 930                          |    |         |   |      |   |
| Electric power input (W)                                    | 442                          |    |         |   |      |   |
| Reference flow rate (m <sup>3</sup> /s)                     | 0.169                        |    |         |   |      |   |
| Reference pressure difference (Pa)                          | 50                           |    |         |   |      |   |
| Specific power input (SPI) (W/(m <sup>3</sup> /h))          | 0.261                        |    |         |   |      |   |
| Control typology  | Local demand control         |    |         |   |      |   |
| Maximum internal leakage rates (%)                          | 2.7                          |    |         |   |      |   |
| Maximum external leakage rates (%)                          | 2.7                          |    |         |   |      |   |
| Sound power level (dB(A))                                   | 52                           |    |         |   |      |   |
| Declared typology   | RVU BVU                      |    |         |   |      |   |
| The annual electricity consumption (AEC) (kWh/a)            | Cold                         |    | Average |   | Warm |   |
|   | 720                          |    | 183     |   | 138  |   |
| The annual heating saved (AHS) (kWh/a)                      | Cold                         |    | Average |   | Warm |   |
|   | 8736                         |    | 4466    |   | 2019 |   |




## Accessories

### Other accessories

| Name              | Photo | Description     |
|-------------------|-------|-----------------|
| FP 647x274x20 G4  |       | G4 panel filter |
| FPT 647x274x27 G4 |       |                 |

FPT 647x274x27 F7



### Control Panels

| Name                      | Photo   | Description       |
|---------------------------|---|-------------------|
| <a href="#">S22</a>       |  | Control panels    |
| <a href="#">S22 Wi-Fi</a> |  | Control panels    |
| <a href="#">S25</a>       |  | LCD control panel |


### Humidity sensors

| Name                | Photo  | Description     |
|---------------------|--|-----------------|
| <a href="#">FS2</a> |  | Humidity sensor |


### CO2 sensors



| Name                 | Photo   | Description |
|----------------------|---|-------------|
| <a href="#">CD-1</a> |  | CO2 sensors |
| <a href="#">CD-2</a> |  | CO2 sensors |

### Other accessories


| Name                       | Photo   | Description          |
|----------------------------|---|----------------------|
| <a href="#">DAH 251-13</a> |  | Kitchen exhaust hood |

### Electrical heaters




| Name                                  | Photo   | Description  |
|---------------------------------------|---|--|
| <a href="#">EVH 250-1.2-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |

|                                       |   |  |
|---------------------------------------|---|--|
| <a href="#">EVH 250-2.0-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |
| <a href="#">EVH 250-3.0-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |

### Condensation drainage

| Name                      | Photo   | Description                              |
|---------------------------|---|--|
| <a href="#">SFK 20x32</a> |  | Hydraulic syphon for condensate drainage |



### For round ducts









| Name                        | Photo   | Description               |
|-----------------------------|---|---------------------------|
| <a href="#">SD 250/600</a>  |    | Silencers for round ducts |
| <a href="#">SD 250/900</a>  |  | Silencers for round ducts |
| <a href="#">SD 250/1200</a> |  | Silencers for round ducts |

### For round ducts


| Name                    | Photo   | Description                                   |
|-------------------------|---|---|
| <a href="#">VRV 250</a> |  | Backdraft dampers with spring for round ducts |
| <a href="#">VKA 250</a> |  | Air dampers for round ducts                   |

### Mixing chambers

| Name                      | Photo   | Description        |
|---------------------------|---|--------------------|
| <a href="#">WMG 3/4-4</a> |  | Water mixing units |
| <a href="#">WMG 3/4-6</a> |  | Water mixing units |

|                              |   |                    |
|------------------------------|---|--------------------|
| <a href="#">WMG 1-6</a>      |    | Water mixing units |
| <a href="#">WMG 1-10</a>     |    | Water mixing units |
| <a href="#">WMG 1 1/4-10</a> |    | Water mixing units |
| <a href="#">WMG 1 1/4-16</a> |    | Water mixing units |
| <a href="#">WMG 1 1/2-16</a> |    | Water mixing units |
| <a href="#">WMG 1 1/2-25</a> |    | Water mixing units |
| <a href="#">WMG 2-25</a>     |  | Water mixing units |
| <a href="#">WMG 2-40</a>     |  | Water mixing units |

### Electric actuators

| Name                         | Photo   | Description        |
|------------------------------|---|--------------------|
| <a href="#">Belimo TF230</a> |  | Electric actuators |