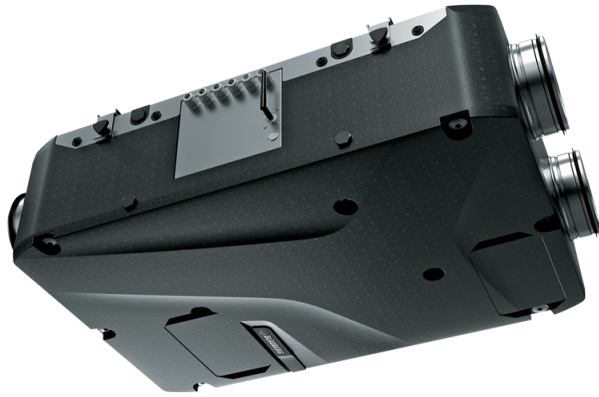


# Reneo D 180-E S21

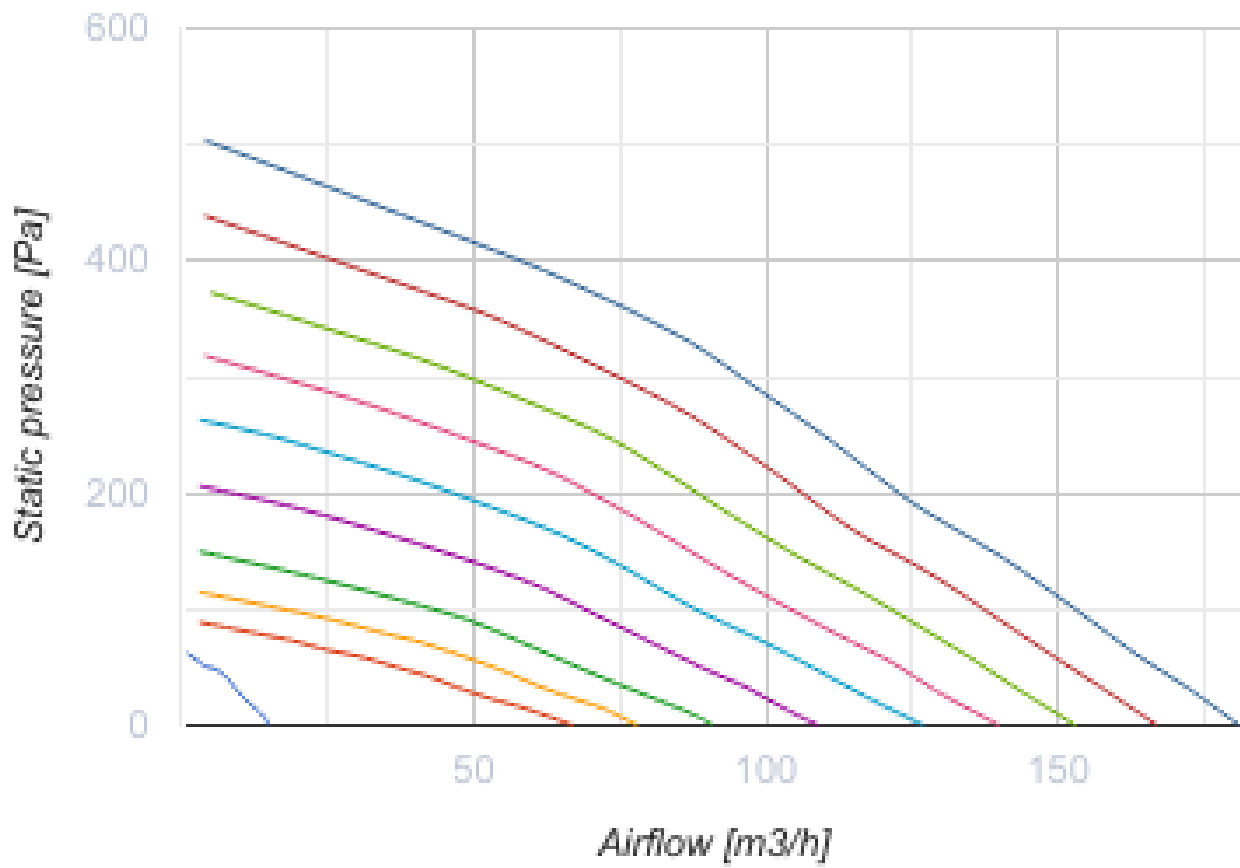
Heat and energy recovery air handling units

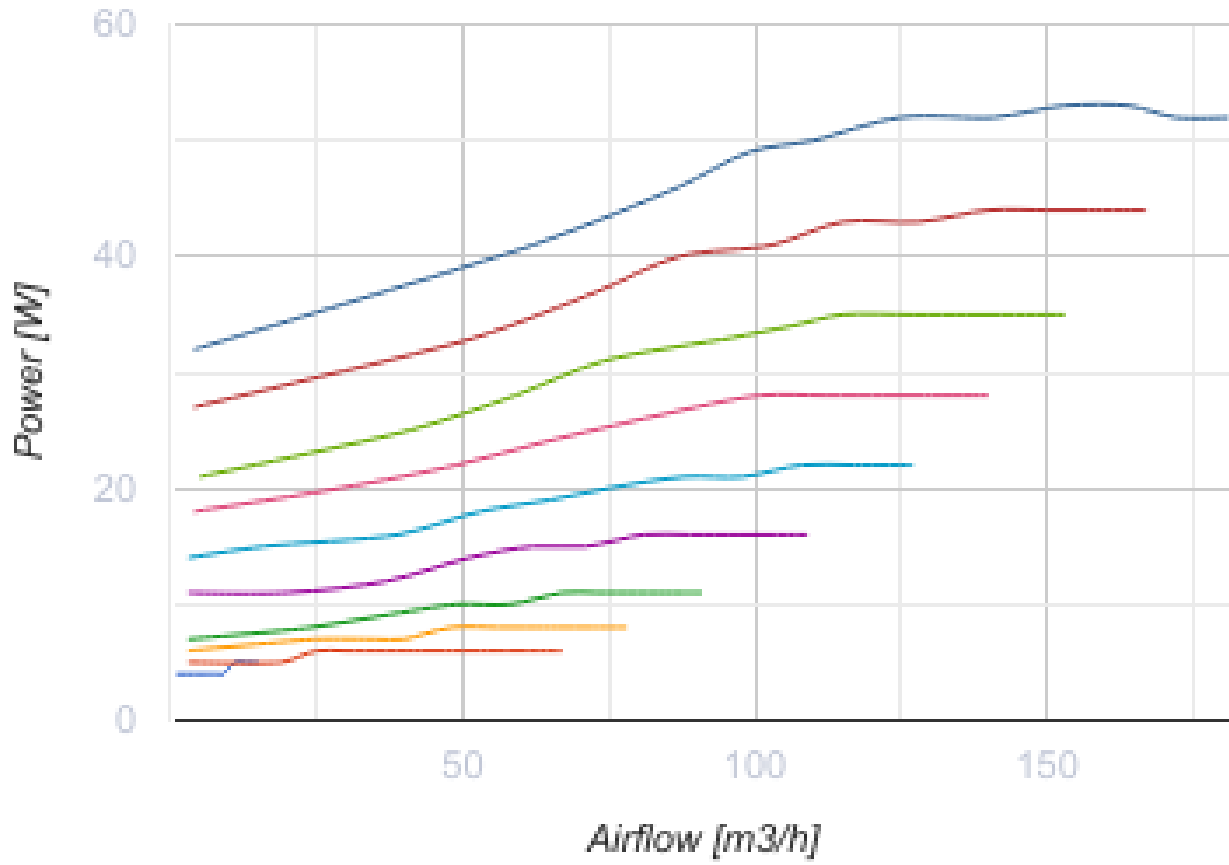


- Maximum airflow: 181
- Sound pressure level LpA at 3 m: 29
- Heat exchanger type: Counter flow
- Extract filter: Coarse 90 % (G4)
- Supply filter: ePM1 60 % (F7)
- Sound insulation
- Motor type: EC
- Enthalpy heat exchanger
- Bypass: Auto
- Reheater: Optional
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: EPP
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

|                                   | Unit of measurement | Reneo D 180-E S21 |
|-----------------------------------|---------------------|-------------------|
| Connected air duct size           | mm                  | 160               |
| Speed                             | -                   | 0                 |
| Phases                            | -                   | 1                 |
| Minimum supply voltage            | V                   | 230               |
| Maximum supply voltage            | V                   | 230               |
| Power supply frequency            | Hz                  | 50/60             |
| Rated power                       | W                   | 53                |
| Unit current                      | A                   | 0.49              |
| Maximum airflow                   | m <sup>3</sup> /h   | 181               |
| Sound pressure level LpA at 3 m   | dB(A)               | 29                |
| Heat recovery efficiency, max     | %                   | 84                |
| Heat exchanger type               | -                   | Counter flow      |
| Heat exchanger material           | -                   | Enthalpy          |
| Weight                            | kg                  | 15                |
| Extract filter                    | -                   | Coarse 90 % (G4)  |
| Supply filter                     | -                   | ePM1 60 % (F7)    |
| Transported air temperature (max) | °C                  | 45                |
| Ambient air temperature min       | °C                  | 1                 |
| Ambient air temperature max       | °C                  | 40                |

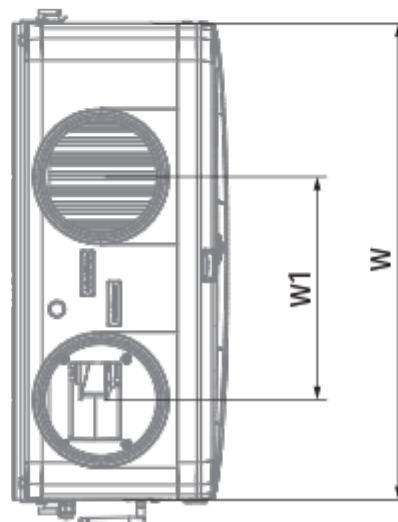
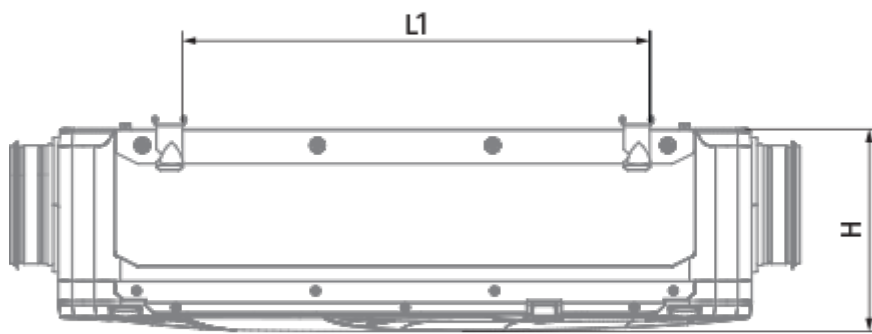
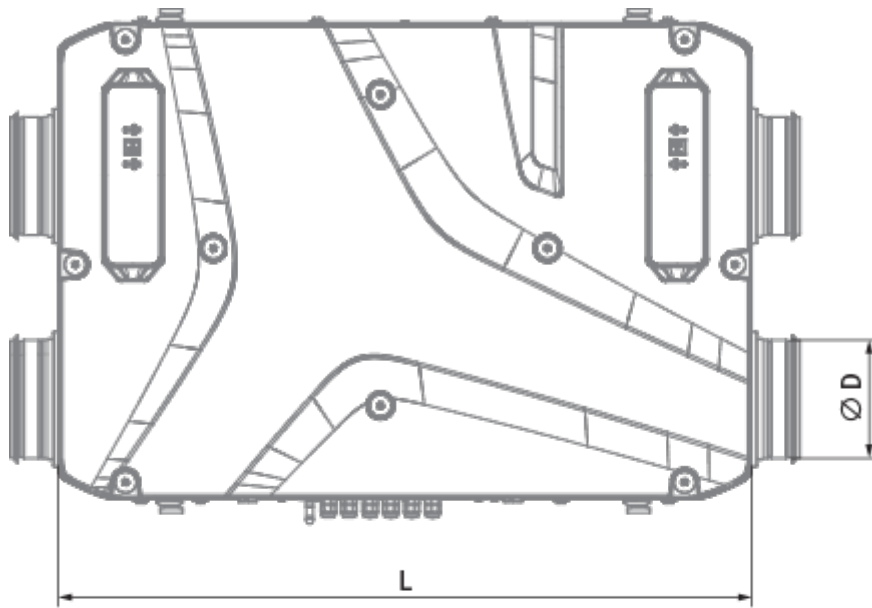
|  |   |      |
|--|---|------|
| Ambient air humidity max               | % | 60   |
| Ingress protection rating              | - | IP22 |
| Ingress protection rating of the drive | - | IP44 |



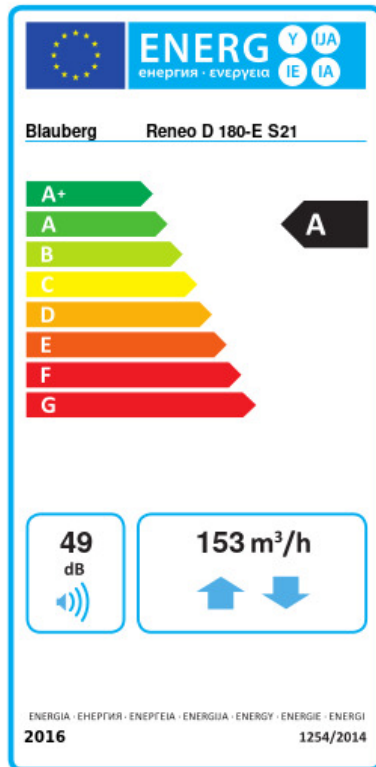


## Dimensions

| Ø D | H   | L   | L1  | W / B | W1 / B1 |
|-----|-----|-----|-----|-------|---------|
| 160 | 272 | 930 | 627 | 640   | 300     |



## Ecodesign




|   |                      |    |         |   |      |   |
|---|----------------------|----|---------|---|------|---|
| Trademark   | Blauberg             |    |         |   |      |   |
| Model   | Reneo D 180-E S21    |    |         |   |      |   |
| Specific energy consumption (SEC) (kWh/(m <sup>2</sup> /a)) | Cold                 |    | Average |   | Warm |   |
|   | 78                   | A+ | 41.1    | A | 17.3 | E |
| Type of ventilation unit                                    | Bidirectional        |    |         |   |      |   |
| Type of drive installed                                     | Variable speed       |    |         |   |      |   |
| Type of heat recovery system                                | Recuperative         |    |         |   |      |   |
| Thermal efficiency of heat recovery (%)                     | 77                   |    |         |   |      |   |
| Maximum flow rate (m <sup>3</sup> /h)                       | 153                  |    |         |   |      |   |
| Electric power input (W)                                    | 53                   |    |         |   |      |   |
| Reference flow rate (m <sup>3</sup> /s)                     | 0.03                 |    |         |   |      |   |
| Reference pressure difference (Pa)                          | 50                   |    |         |   |      |   |
| Specific power input (SPI) (W/(m <sup>3</sup> /h))          | 0.204                |    |         |   |      |   |
| Control typology  | Local demand control |    |         |   |      |   |
| Maximum internal leakage rates (%)                          | 2.7                  |    |         |   |      |   |
| Maximum external leakage rates (%)                          | 2.7                  |    |         |   |      |   |
| Sound power level (dB(A))                                   | 49                   |    |         |   |      |   |
| Declared typology   | RVU BVU              |    |         |   |      |   |
| The annual electricity consumption (AEC) (kWh/a)            | Cold                 |    | Average |   | Warm |   |
|   | 690                  |    | 153     |   | 108  |   |
| The annual heating saved (AHS) (kWh/a)                      | Cold                 |    | Average |   | Warm |   |
|   | 8655                 |    | 4424    |   | 2001 |   |




## Accessories

### Other accessories




| Name                        | Photo | Description     |
|-----------------------------|-------|-----------------|
| FP 205x200x48 Coarse 90% G4 |       | G4 panel filter |

|                           |   |                 |
|---------------------------|---|-----------------|
| FP 205x200x48 ePM1 60% F7 |  | F7 panel filter |
|---------------------------|---|-----------------|




### Other accessories






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

### Other accessories




| Name                 | Photo   | Description     |
|----------------------|---|-----------------|
| <a href="#">FS2</a>  |  | Humidity sensor |
| <a href="#">CD-3</a> |   |                 |
| <a href="#">CD-1</a> |  | CO2 sensors     |
| <a href="#">CD-2</a> |  | CO2 sensors     |

### Other accessories


| Name                                  | Photo   | Description  |
|---------------------------------------|---|--|
| <a href="#">EVH 160-0.8-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |
| <a href="#">EVH 160-1.2-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |
| <a href="#">EVH 160-1.7-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |

|                                       |   |  |
|---------------------------------------|---|--|
| <a href="#">EVH 160-2.0-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |
| <a href="#">ENH 160-0.8-1 S21 V.2</a> |  | Duct heater for supply air reheating                         |
| <a href="#">ENH 160-1.2-1 S21 V.2</a> |  | Duct heater for supply air reheating                         |
| <a href="#">ENH 160-1.7-1 S21 V.2</a> |  | Duct heater for supply air reheating                         |
| <a href="#">ENH 160-2.0-1 S21 V.2</a> |  | Duct heater for supply air reheating                         |


#### Other accessories

| Name                        | Photo   | Description               |
|-----------------------------|---|---------------------------|
| <a href="#">SD 160/600</a>  |  | Silencers for round ducts |
| <a href="#">SD 160/900</a>  |  | Silencers for round ducts |
| <a href="#">SD 160/1200</a> |  | Silencers for round ducts |

#### Other accessories

| Name                    | Photo   | Description                 |
|-------------------------|---|-----------------------------|
| <a href="#">VKA 160</a> |  | Air dampers for round ducts |

#### Other accessories

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