

## DV EC



**Extremely weather-resistant EC roof fan in plastic design for an extensive range of applications, diagonal outlet.**

## Common features

## DV EC Pro und DV EC Eco

## ■ Casing

Aerodynamically designed plastic casing made of grey polypropylene with diagonal air outlet direction. Air flow temperatures from -30 to +60 °C.

## ■ Impeller

Diagonal impeller made of aluminium, the motor impeller unit is dynamically balanced for low-noise operation.

## ■ Drive

Energy-efficient EC external rotor motor in protection category IP54. Optimised efficiency even with speed control for low operating costs. Continuously variable speed control. Maintenance-free and radio interference-free, ball bearing mounted.

## ■ Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

## ■ Electrical connection

Standard operating switch (protection category IP65) mounted on the outside of the casing. Connection voltage 1~, 230 V, 50 Hz.

## ■ Installation

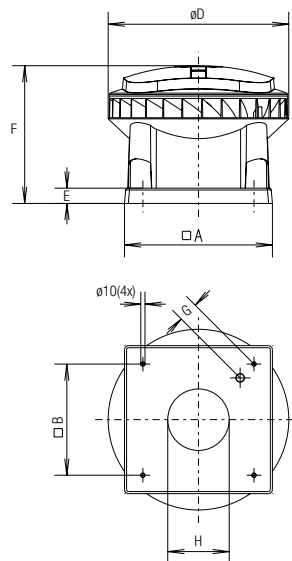
Horizontal alignment on the roof. In case of sloping roofs, a corresponding base formation must be used to prevent water ingress. A range of accessories facilitates the installation of the fan in the building duct system.

## ■ Noise

The total level and range are specified above the performance diagram for:

- Inlet side sound power
  - Outlet side sound power.
- The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and the table below the performance curve.

## Dimensions DV EC



Dimensions in mm

## PRO

## Description DV EC Pro

## ■ Power control

- Ideal as a central extract air fan for multi-floor residential construction in accordance with DIN 18017-3.
- When combined with other components (accessories), a complete central ventilation system in accordance with DIN 18017-3 can be created with demand-driven ventilation.
- Integrated pressure control for constant volume flow control in the connected rooms through automatic speed adjustment at almost constantly high efficiency.
- Integrated pressure sensor 0–300 Pa.
- Short amortisation period due to high energy saving.
- Operating data setting at the 4 potentiometers integrated in the control system to set the desired operating point on site.
- Integrated serial bus interface (RS 485) for connection to a PC/laptop in connection with the interface (accessories).

## Dimensions in mm

| Type | DV EC 200 | DV EC 250 | DV EC 400 |
|------|-----------|-----------|-----------|
| □ A  | 460       | 580       | 665       |
| □ B  | 330       | 450       | 535       |
| Ø D  | 575       | 708       | 863       |
| E    | 60        | 60        | 60        |
| F    | 473       | 540       | 601       |
| G    | 44        | 48        | 64        |
| H    | 196       | 241       | 302       |

## ECO

## Description DV EC Eco

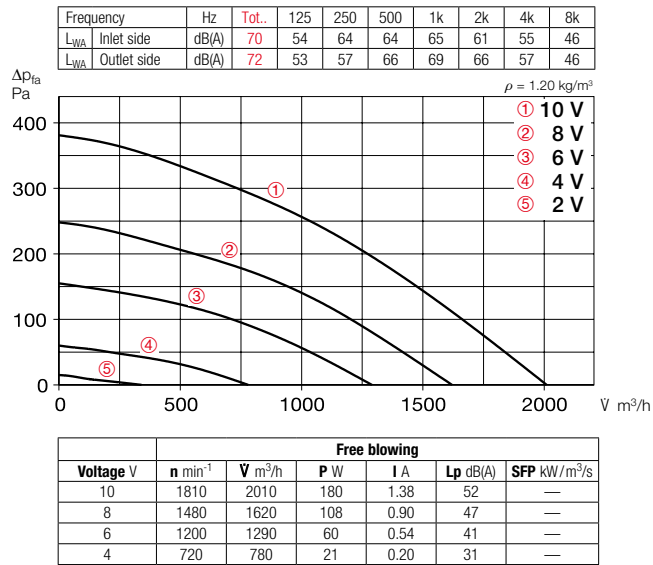
## ■ Power control

- Continuously variable speed control with speed potentiometer PU/PA 10 (accessories, see type table).
  - When combined with the universal control system EUR EC or electronic pressure/temperature controllers EDR/ETR (accessories, see type table), the fan can be used for the continuously variable control of differential pressure, differential temperature or flow velocity.
- Performance levels are shown in the performance curve as an example.

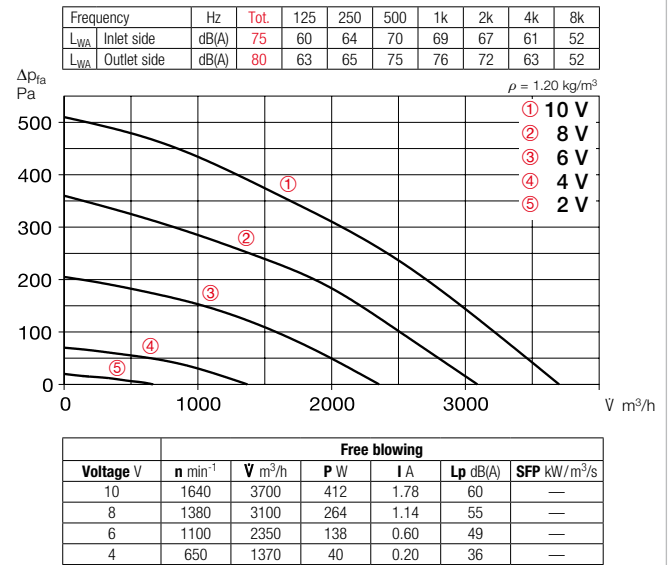
| Type                                                                                         | Ref. no. | Maximum speed approx. | Flow rate free blowing | Noise sound pressure | Power consumption at maximum speed | Wiring diagram | max. air flow temperature | Weight net approx. | Timer / Universal control system | Speed potentiometer | Flush-mounted       | Surface-mounted |
|----------------------------------------------------------------------------------------------|----------|-----------------------|------------------------|----------------------|------------------------------------|----------------|---------------------------|--------------------|----------------------------------|---------------------|---------------------|-----------------|
|                                                                                              |          | min <sup>-1</sup>     | m <sup>3</sup> /h      | dB(A) at 4 m         | kW                                 | A              | °C                        | kg                 | Type                             | Ref. no.            | Type                | Ref. no.        |
| <b>PRO Type DV EC Pro, single phase alternating current, 230 V, 50/60 Hz, EC motor, IP54</b> |          |                       |                        |                      |                                    |                |                           |                    |                                  | Timer               |                     |                 |
| DV EC 200 Pro                                                                                | 08385    | 1810                  | 2010                   | 52                   | 0.18                               | 1.38           | 60                        | 17.0               | ZLS-ZU 31                        | 08388               | —                   | —               |
| DV EC 250 Pro                                                                                | 08386    | 1640                  | 3700                   | 60                   | 0.41                               | 1.78           | 60                        | 23.0               | ZLS-ZU 31                        | 08388               | —                   | —               |
| DV EC 400 A Pro                                                                              | 08387    | 1020                  | 4070                   | 51                   | 0.30                               | 1.33           | 60                        | 33.0               | ZLS-ZU 31                        | 08388               | —                   | —               |
| DV EC 400 B Pro                                                                              | 08389    | 1425                  | 5650                   | 65                   | 0.75                               | 3.32           | 60                        | 35.0               | ZLS-ZU 31                        | 08388               | —                   | —               |
| <b>ECO Type DV EC Eco, single phase alternating current, 230 V, 50/60 Hz, EC motor, IP54</b> |          |                       |                        |                      |                                    |                |                           |                    |                                  | Control system      |                     |                 |
| DV EC 200 Eco                                                                                | 08320    | 1810                  | 2010                   | 52                   | 0.18                               | 1.38           | 60                        | 17.0               | EUR EC <sup>1)2)</sup>           | 01347               | PU 10 <sup>3)</sup> | 01734           |
| DV EC 250 Eco                                                                                | 08322    | 1640                  | 3700                   | 60                   | 0.41                               | 1.78           | 60                        | 23.0               | EUR EC <sup>1)2)</sup>           | 01347               | PU 10 <sup>3)</sup> | 01734           |
| DV EC 400 A Eco                                                                              | 08324    | 1020                  | 4070                   | 51                   | 0.30                               | 1.33           | 60                        | 33.0               | EUR EC <sup>1)2)</sup>           | 01347               | PU 10 <sup>3)</sup> | 01734           |
| DV EC 400 B Eco                                                                              | 08326    | 1425                  | 5650                   | 65                   | 0.75                               | 3.32           | 60                        | 35.0               | EUR EC <sup>1)2)</sup>           | 01347               | PU 10 <sup>3)</sup> | 01734           |

<sup>1)</sup> Multiple EC fans can normally be connected. <sup>2)</sup> Alternative elec. pressure/temp. controller (EDR/ETR, no. 01437/01438) in combination with mains adapter NG 24, no. 01439, see accessories. <sup>3)</sup> Without LED power supply.

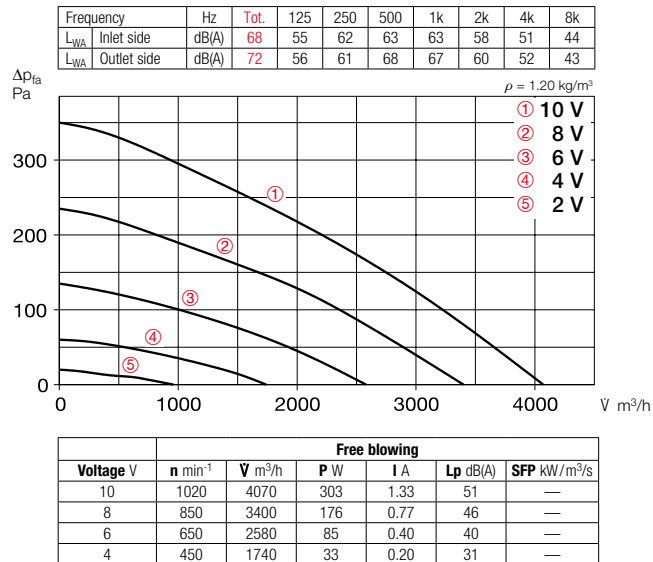
### Performance curves DV EC 200



### Performance curves DV EC 250



### Performance curves DV EC 400 A



### Performance curves DV EC 400 B

