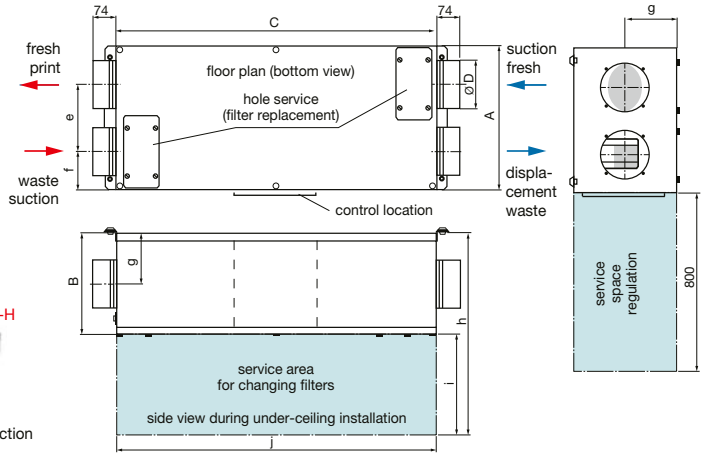
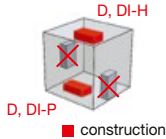


ROVENTO evo



RAL7016



86%

maximum efficiency regeneration



rotational exchanger

| Type | A [mm] | B [mm] | C [mm] | Ø D [mm] | e [mm] | f [mm] | g [mm] | h [mm] | i [mm] | j [mm] |
|-------------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|
| ROVENTO 220 | 450 | 314 | 1000 | 150 | 210 | 120 | 157 | 714 | 400 | 1000 |
| ROVENTO 320 | 550 | 414 | 1050 | 180 | 260 | 145 | 207 | 864 | 450 | 1050 |
| ROVENTO 520 | 650 | 524 | 1050 | 225 | 330 | 159 | 261 | 1074 | 550 | 1050 |

Technical parameters

The cabinet

is frameless, made of sandwich panels, 20 mm thick, with thermal and noise insulation. The inlet and outlet connections are round necks fitted with a sealing rubber sleeve.

Fan with

backward curved blades in special shaped spiral housing with EC electric motor. Protection IP44, insulation class B.

Electric heater

The heating spirals of the heater are made of stainless steel. The heater is equipped with an operating thermostat with a temperature of 60°C and a non-automatic thermal fuse at 120°C.

Regeneration

The rotary heat and moisture transfer heat exchanger has a thermal efficiency of up to 81–83% at nominal air flow. The sealing of the impeller around the perimeter and in the dividing plane ensures a high tightness of the wheel against the housing. The heat exchanger is accessible after opening the front cover. The flexibly mounted rotor drive is realized by a motor with a front gearbox with an output of 6 W and a supply voltage of 230 V/50 Hz.

Filters

There are ZLW cassette filters of filtration class G4 (ISO Coarse 60%) on the outlet and inlet. Alternatively, you can choose an M5 (ISO Coarse 90%) or F7 (ISO ePM10 50%) filter on the inlet. Another variant of the supply filter is the use of a G4 filter (ISO Coarse 60%) in combination with a carbon filter UF2 limiting the transmission of odors.

Electrical connection

is a mains cord with a terminal for 230V/50Hz power supply. There is also a service switch on the casing of the unit for the possibility of easy disconnection from the power supply.

Regulation

Built-in Neoreg digital regulation for PLUG & PLAY connection. Easy to connect wired CP-TFT color touch controller. The temperature sensors are located and connected inside the unit. The free cooling function is solved by turning off the rotation of the rotary regenerative exchanger. Communication with the unit takes place via a remote control with the option of setting the unit's performance, the desired operating state, the desired temperature and the weekly program of operation. Shut-off

dampers are not part of the unit's delivery, but it is possible to control external dampers directly from the Neoreg control system. CO₂/VOC/RH sensors with 0–10 V output can be connected to the unit for continuous control of the unit's performance.

Construction

In a horizontal position on the floor or ceiling with side-by-side nozzles. When installing the unit, it is necessary to have a handling space around the unit for removing the filters and for carrying out periodic revisions.

Noise

Listed in the tables are the acoustic power levels at the individual throats of the unit with weight filter A correction and the acoustic power level of the unit casing with weight filter A correction.

| Type | ventilator | | | heater | | | Motor ROV | power unit | | | mass [kg] |
|----------------|-------------|-----------------|-------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------|
| | Tension [V] | input power [W] | current [A] | Tension [V] | input power [W] | current [A] | input power [W] | Tension [V] | input power [W] | current [A] | |
| ROVENTO 220 D | 230 | 136 | 0,59 | – | – | – | 6 | 230 | 142 | 0,62 | 45,5 |
| ROVENTO 220 DI | 230 | 136 | 0,59 | 230 | 400 | 1,7 | 6 | 230 | 542 | 2,30 | 46,5 |
| ROVENTO 320 D | 230 | 196 | 0,80 | – | – | – | 6 | 230 | 202 | 0,88 | 60,0 |
| ROVENTO 320 DI | 230 | 196 | 0,80 | 230 | 700 | 3,0 | 6 | 230 | 902 | 3,90 | 61,0 |
| ROVENTO 520 D | 230 | 340 | 1,48 | – | – | – | 6 | 230 | 346 | 1,50 | 79,5 |
| ROVENTO 520 DI | 230 | 340 | 1,48 | 230 | 1200 | 5,2 | 6 | 230 | 1546 | 6,70 | 80,5 |

Unit order code

R O V E N T O 2 2 0 D I - H - L G 4 / G 4 e v o
1 2 3 4 5

1 – unit size: **220, 320, 520**

2 – variant resolution with or without heater:

D – without an additional heater in the supply part of the unit

DI – with an additional electric heater in the supply part of the unit

3 – installation position of the unit:

H – horizontal under the ceiling
P – horizontal on the floor

4 – side of the regulation location (see supplementary illustration):

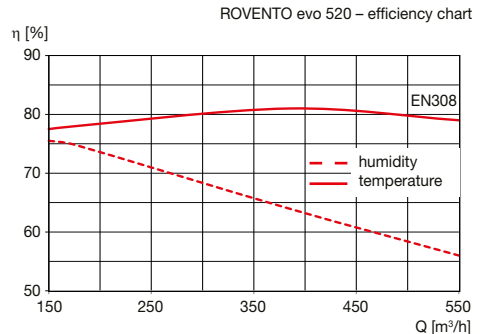
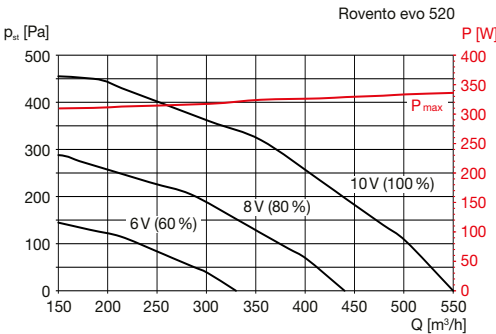
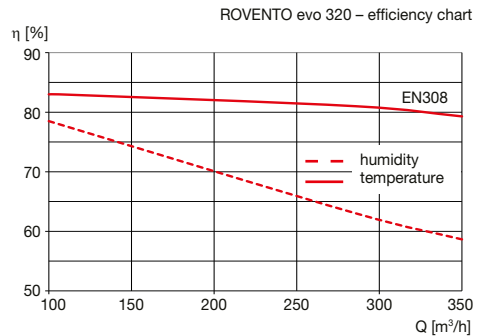
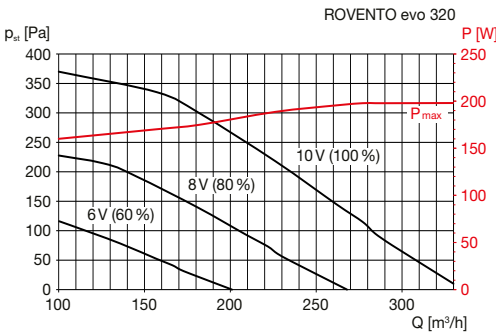
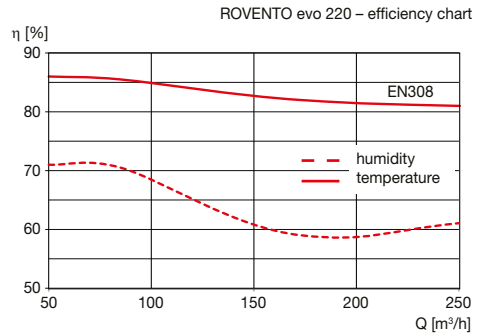
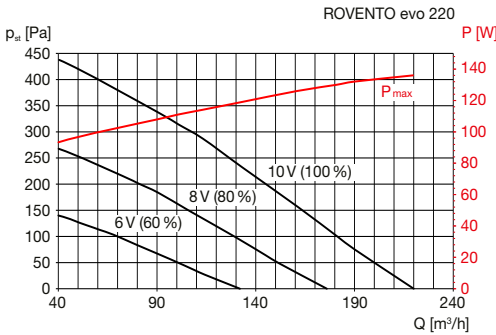
L – left
P – right

5 – type of inlet and outlet filter:

G4/G4 – inlet filter G4, outlet filter G4
M5/G4 – inlet filter M5, outlet filter G4

F7/G4 – input filter F7, output filter G4
G4UF2/G4 – inlet filter G4 with modification UF2, drain filter G4

Characteristics



Legend:

- Q [m³/h] air flow, external
- ps [Pa] static pressure of the unit
- P [W] maximum electrical input of fans (W)
- η (%) recovery efficiency

Characteristics of the ROVENTO unit measured for the version of the unit with G4/G4 filters.

ROVENTO **evo**

ROVENTO 220 – acoustic power level in octave bands (dB(A))

U=10V, n=3920 min⁻¹

| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 36 | 46 | 57 | 57 | 53 | 51 | 45 | 36 | 61 |
| supply (SUP) | 42 | 52 | 64 | 66 | 66 | 69 | 63 | 50 | 73 |
| L _{WA} towing (ETA) | 36 | 46 | 57 | 57 | 53 | 51 | 45 | 36 | 61 |
| waste (EHA) | 42 | 52 | 64 | 66 | 66 | 69 | 63 | 50 | 73 |
| plastic | 37 | 49 | 59 | 54 | 45 | 41 | 34 | 18 | 61 |

U=6V, n=2352 min⁻¹

| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 25 | 35 | 46 | 46 | 42 | 40 | 34 | 25 | 50 |
| supply (SUP) | 31 | 41 | 53 | 55 | 55 | 58 | 52 | 39 | 62 |
| L _{WA} towing (ETA) | 25 | 35 | 46 | 46 | 42 | 40 | 34 | 25 | 50 |
| waste (EHA) | 31 | 41 | 53 | 55 | 55 | 58 | 52 | 39 | 62 |
| plastic | 26 | 38 | 48 | 43 | 34 | 30 | 23 | 7 | 50 |

U=8V, n=3136 min⁻¹

| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 31 | 41 | 52 | 52 | 48 | 46 | 40 | 31 | 57 |
| supply (SUP) | 37 | 47 | 59 | 61 | 61 | 64 | 58 | 45 | 68 |
| L _{WA} towing (ETA) | 31 | 41 | 52 | 52 | 48 | 46 | 40 | 31 | 57 |
| waste (EHA) | 37 | 47 | 59 | 61 | 61 | 64 | 58 | 45 | 68 |
| plastic | 32 | 44 | 54 | 49 | 40 | 36 | 29 | 13 | 56 |

Acoustic data were determined assuming laboratory conditions.
The tolerance of the given acoustic data is +/- 2dB.

ROVENTO 320 – acoustic power level in octave bands (dB(A))

U=10V, n=3275 min⁻¹

| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 28 | 38 | 49 | 59 | 58 | 57 | 54 | 40 | 64 |
| supply (SUP) | 37 | 44 | 58 | 66 | 73 | 76 | 70 | 59 | 79 |
| L _{WA} towing (ETA) | 28 | 38 | 49 | 59 | 58 | 57 | 54 | 40 | 64 |
| waste (EHA) | 37 | 44 | 58 | 66 | 73 | 76 | 70 | 59 | 79 |
| plastic | 32 | 41 | 53 | 54 | 52 | 48 | 41 | 27 | 58 |

U=6V, n=1965 min⁻¹

| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 17 | 27 | 38 | 48 | 47 | 46 | 43 | 29 | 52 |
| supply (SUP) | 26 | 33 | 47 | 55 | 62 | 65 | 59 | 48 | 68 |
| L _{WA} towing (ETA) | 17 | 27 | 38 | 48 | 47 | 46 | 43 | 29 | 52 |
| waste (EHA) | 26 | 33 | 47 | 55 | 62 | 65 | 59 | 48 | 68 |
| plastic | 21 | 30 | 42 | 43 | 41 | 37 | 30 | 16 | 47 |

U=8V, n=2620 min⁻¹

| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 23 | 33 | 44 | 54 | 53 | 52 | 49 | 35 | 59 |
| supply (SUP) | 32 | 39 | 53 | 61 | 68 | 71 | 65 | 54 | 74 |
| L _{WA} towing (ETA) | 23 | 33 | 44 | 54 | 53 | 52 | 49 | 35 | 59 |
| waste (EHA) | 32 | 39 | 53 | 61 | 68 | 71 | 65 | 54 | 74 |
| plastic | 27 | 36 | 48 | 49 | 47 | 43 | 36 | 22 | 54 |

Acoustic data were determined assuming laboratory conditions.
The tolerance of the given acoustic data is +/- 2dB.

ROVENTO 520 – acoustic power level in octave bands (dB(A))

U=10V, n=2850 min⁻¹

| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 33 | 46 | 57 | 59 | 56 | 51 | 45 | 37 | 63 |
| supply (SUP) | 43 | 56 | 68 | 72 | 72 | 68 | 63 | 57 | 77 |
| L _{WA} towing (ETA) | 33 | 46 | 57 | 59 | 56 | 51 | 45 | 37 | 63 |
| waste (EHA) | 43 | 56 | 68 | 72 | 72 | 68 | 63 | 57 | 77 |
| plastic | 38 | 53 | 63 | 60 | 51 | 40 | 34 | 25 | 65 |

U=6V, n=1710 min⁻¹

| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 22 | 34 | 46 | 48 | 45 | 40 | 34 | 26 | 52 |
| supply (SUP) | 32 | 44 | 57 | 61 | 61 | 57 | 52 | 46 | 66 |
| L _{WA} towing (ETA) | 22 | 34 | 46 | 48 | 45 | 40 | 34 | 26 | 52 |
| waste (EHA) | 32 | 44 | 57 | 61 | 61 | 57 | 52 | 46 | 66 |
| plastic | 27 | 41 | 52 | 49 | 40 | 29 | 23 | 14 | 54 |

U=8V, n=2280 min⁻¹

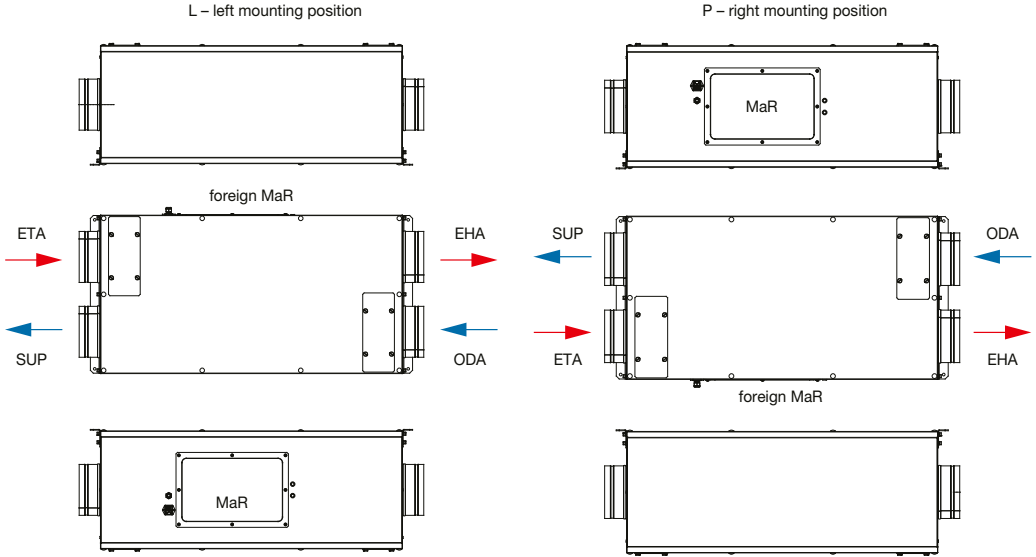
| f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | total |
|------------------------------|----|-----|-----|-----|------|------|------|------|-------|
| fresh (ODA) | 28 | 41 | 52 | 55 | 51 | 46 | 41 | 32 | 58 |
| supply (SUP) | 38 | 51 | 63 | 68 | 67 | 63 | 59 | 52 | 72 |
| L _{WA} towing (ETA) | 28 | 41 | 52 | 55 | 51 | 46 | 41 | 32 | 58 |
| waste (EHA) | 38 | 51 | 63 | 68 | 67 | 63 | 59 | 52 | 72 |
| plastic | 33 | 48 | 58 | 56 | 46 | 35 | 30 | 20 | 60 |

Acoustic data were determined assuming laboratory conditions.
The tolerance of the given acoustic data is +/- 2dB.

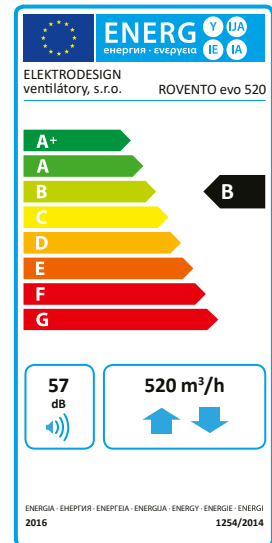
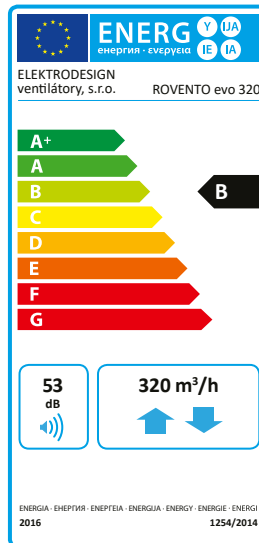
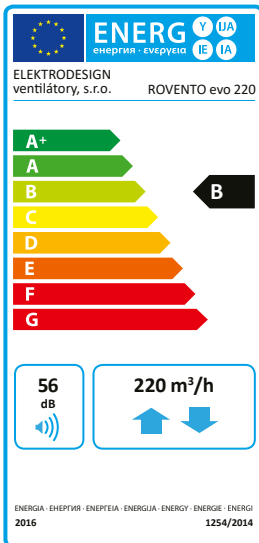
Supplementary image

Control location

- ODA fresh air intake
- SUP displacement of fresh conditioned air
- ETA exhaust air intake
- EHA discharge of exhaust air into the outdoor environment



Unit energy labels



Accessories



Digireg® CP-TFT touch controller



horizontal combined facade grids EDF-VXZ



vertical combined facade grids EDF-VXY



AIRSENS-CO₂
CO₂ sensor



AIRSENS-VOC
air quality sensor



AIRSENS-RH
relative humidity sensor

ED FLEX® System

