

# VENTO ECO2 A50-4 S11 PRO

## HEAT RECOVERY SINGLE-ROOM UNITS

### Features

- Two units operating in opposite phases ensure balanced ventilation.
- Arrangement of efficient energy-saving supply and exhaust single-room ventilation in flats, houses, cottages, social and commercial premises.
- Air purification with optional F8 filter PM2.5 > 99 %.
- Protection from outdoor noise.
- Reducing heat losses caused by ventilation due to heat recovery.
- Humidity balance and regulated air exchange create individually controlled microclimate.



**Air flow:**  
up to 50 m<sup>3</sup>/h  
14 l/s



**Heat recovery efficiency:**  
up to 92 %



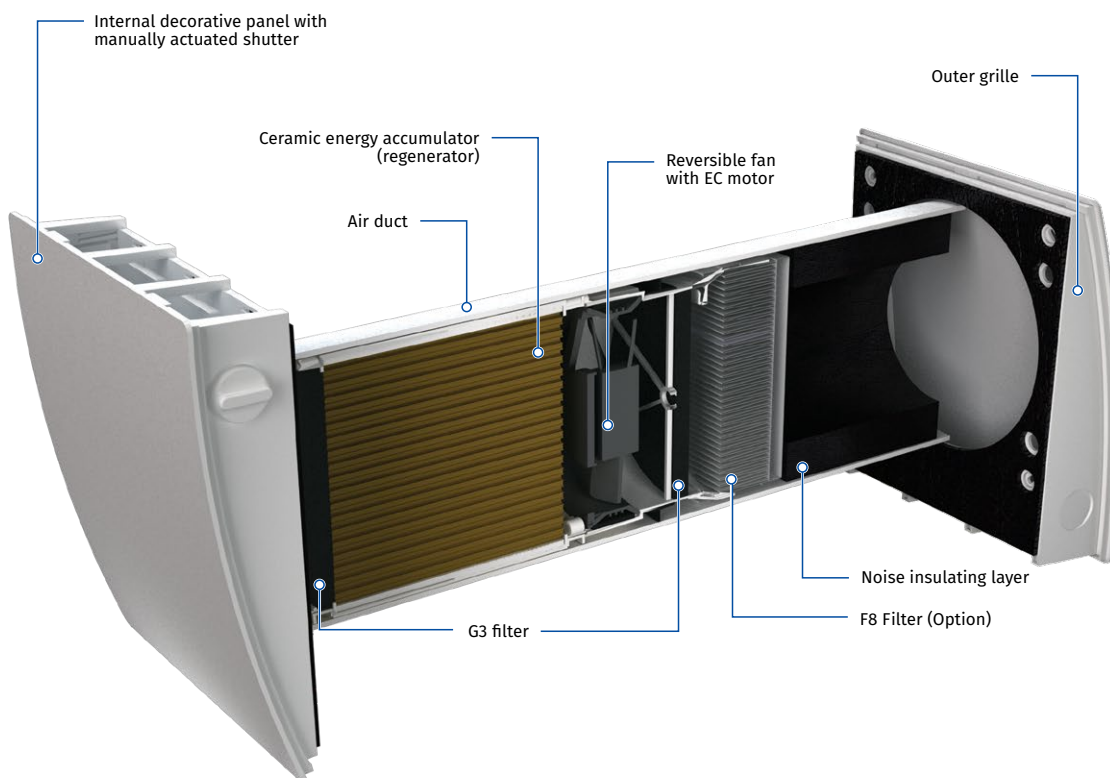
**Power:** from 2.37 W  
**SFP:** from 0.46 W/l/s



**Noise level:**  
from 12 dBA



### Design



### Designation key

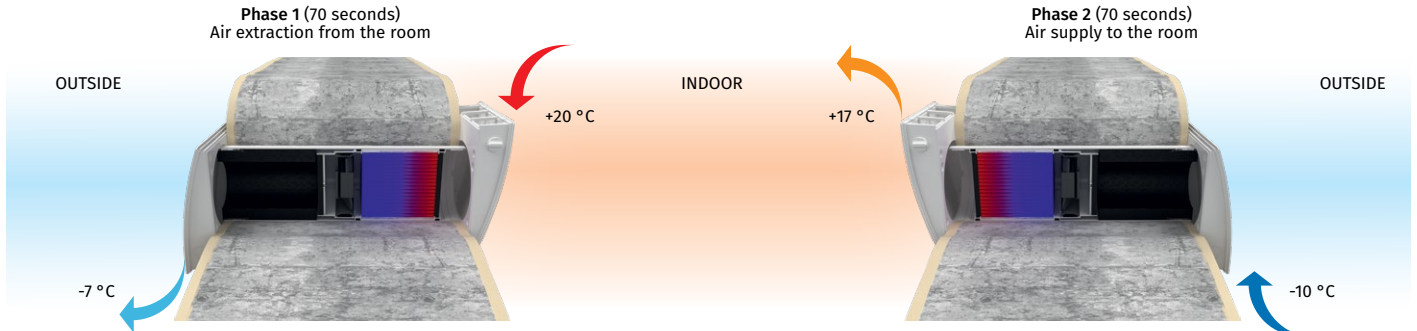
| Model      | Air duct          | Rated air flow [m <sup>3</sup> /h] | Internal grille type | Ventilation hood type  | Control                   |
|------------|-------------------|------------------------------------|----------------------|--|---------------------------|
| Vento Eco2 | A: round air duct | 50                                 | -4                   | S11: plastic hood for standard walls<br>S: metal hood for thin walls | Pro: sensor control panel |

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## HEAT RECOVERY SINGLE-ROOM UNITS

### Heat and humidity regeneration

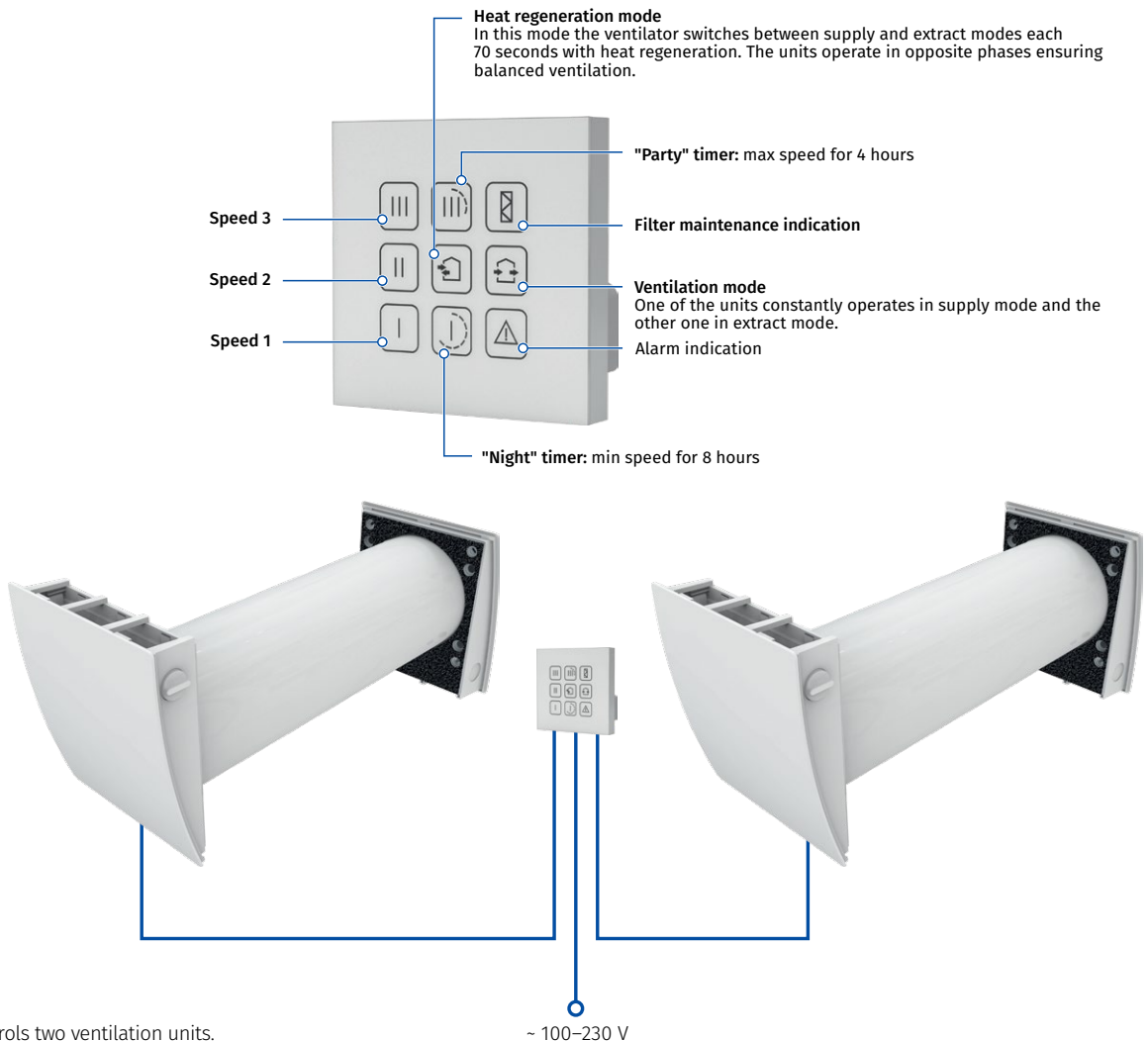
#### UNIT OPERATING LOGIC IN WINTER PERIOD



- Warm stale air is extracted from the premise, flows through the ceramic regenerator and transfers its heat energy and moisture to it.
- As the ceramic regenerator gets warmed up, the unit switches to the supply mode.
- Clean cold intake air flows through the regenerator and absorbs accumulated heat and humidity.
- When the ceramic regenerator is cooled down, the unit switches to the extract air mode.

### Control

- Control of the unit operation mode is performed by means of the sensor control panel.



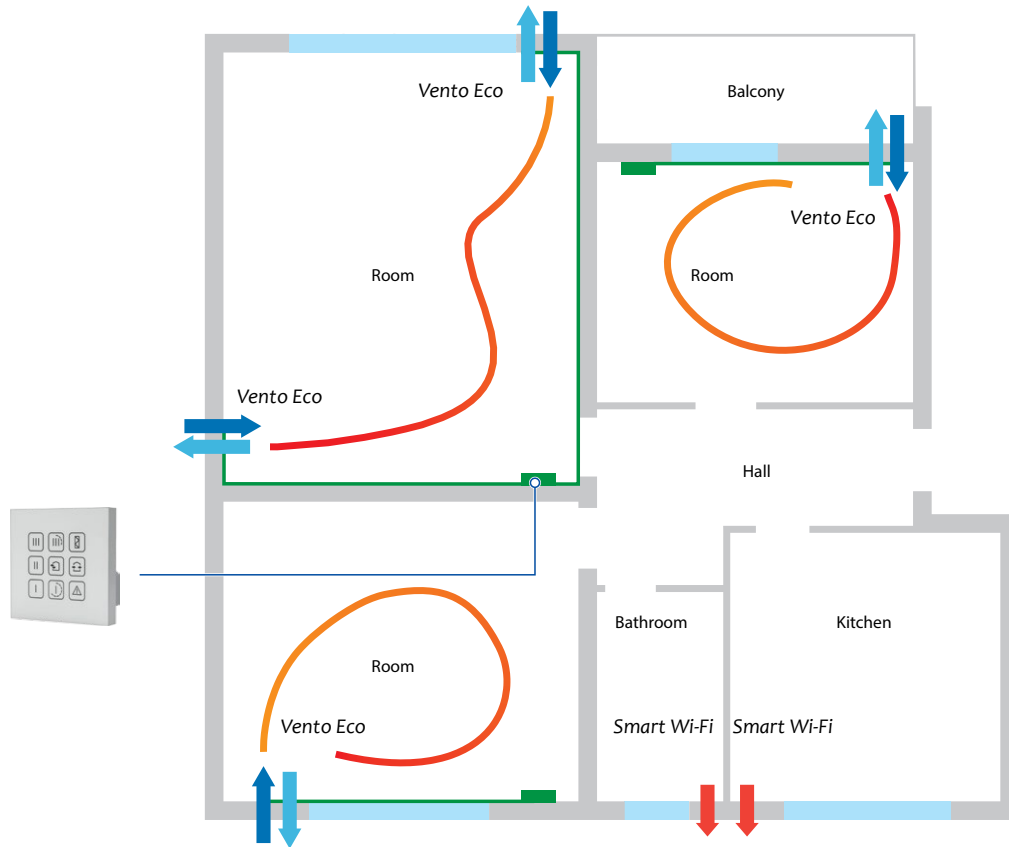
- One LCD panel controls two ventilation units.
- Low voltage (12 V) power supply between control panel and **Vento Eco** units.

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### Mounting

- The unit is designed for through-the-wall installation inside a prepared hole in an outer wall of the building.
- One unit is able to ventilate a room up to 25 m<sup>2</sup>. For bigger rooms two or more units must be installed.



# VENTO ECO2 A50-4 S11 PRO

HEAT RECOVERY SINGLE-ROOM UNITS

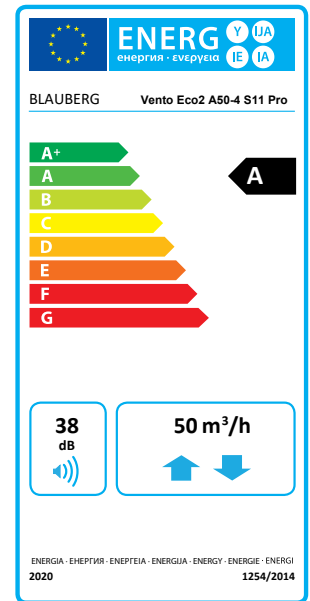
## Technical data

| Parameters   | Vento Eco2 A50-4 S11 Pro<br>Vento Eco2 A50-4 S Pro |         |         |
|--|--|---------|---------|
|  | I  | II      | III     |
| Speed  |  |         |         |
| Voltage [V / 50 (60) Hz]   |  | 100-240 |         |
| Power [W]  | 2.37   | 3.80    | 7.61    |
| Current [A]  | 0.033  | 0.047   | 0.080   |
| RPM [min <sup>-1</sup> ]   | 915  | 1555    | 2330    |
| Air flow in ventilation mode [m <sup>3</sup> /h (l/s)]   | 15 (4)   | 30 (8)  | 50 (14) |
| Air flow in recuperation mode [m <sup>3</sup> /h (l/s)]  | 15 (4)   | 30 (8)  | 50 (14) |
| SFP [W/l/s]  | 0.57   | 0.46    | 0.55    |
| Filter   | G3 (Option: F8 PM2.5 > 99 %*)                      |         |         |
| Transported air temperature [°C]   | -20(-30**)...+40                                   |         |         |
| Outdoor sound pressure attenuation according to DIN EN 20140 [dBA]                                     | 41   |         |         |
| Heat recovery efficiency according to DIBt LÜ-A 20 [%]   | up to 92   |         |         |
| Sound pressure level at 1 m according to ISO 3741: 2004 [dBA]  | 21   | 27      | 29      |
| Sound pressure level at 3 m according to ISO 3741: 2004 [dBA]  | 12   | 18      | 20      |
| Classification of air flow sensitivity to pressure difference variations in accordance with EN 13141-8 | S3***  |         |         |
| Indoor/outdoor airtightness classification of the complete unit in accordance with EN 13141-8          | D1   |         |         |
| Ingress protection rating  | IP24   |         |         |

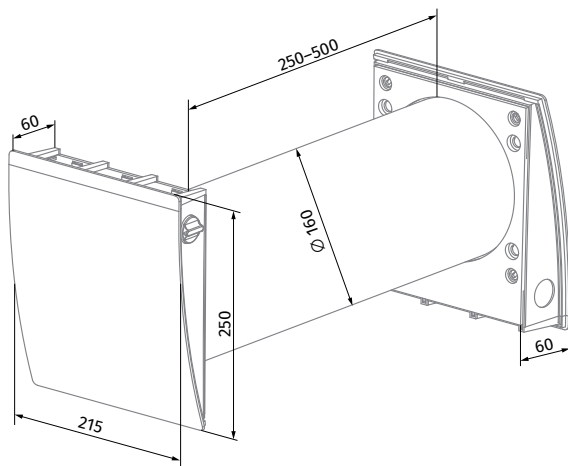
\* maximum air flow 40 m<sup>3</sup>/h

\*\* with ZL1 Vento 160/150 cartridge and AH-8 outer hood applied

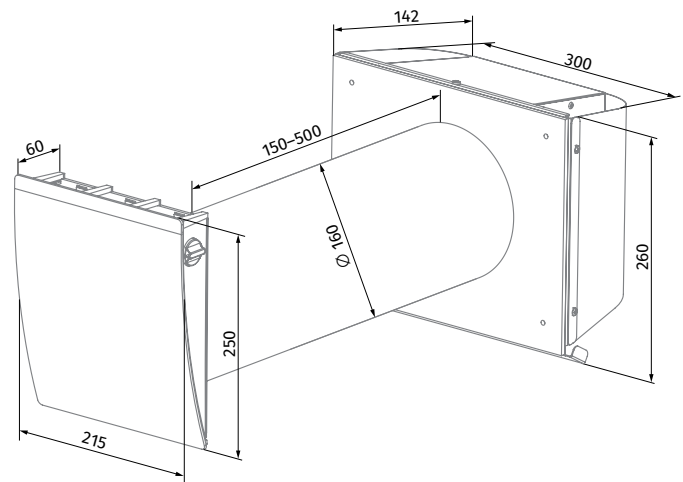
\*\*\* at III speed



## Overall dimensions [mm]



Vento Eco2 A50-4 S11 Pro


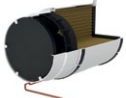

























Vento Eco2 A50-4 S Pro  
(for thin walls)

# VENTO ECO2 A50-4 S11 PRO



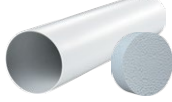

## HEAT RECOVERY SINGLE-ROOM UNITS

### Accessories

| Name                           |   | Description  |
|--------------------------------|---|--|
| Completion Kit Vento Eco A50-4 |    | Indoor grille and cartridge with heat regenerator, fan and G3 filters  |
| ZL1 Vento 160/150              |    | Cartridge with heat regenerator for cold climate   |
| FP Vento Eco A50 G3            |    | G3 filters (2 pcs.)  |
| FP Vento Eco A50 F8            |    | G2 + F8 filters (1 pc.). Filtration rate PM2.5 > 99 %. Combination of G2 + F8 filters reduces air flow down to 40 m³/h   |
| AH-8 white 160                 |   | White painted aluminium outer ventilation hood with frost protection for a cold climate  |
| AH-8 chrome 160                |  | Brushed stainless steel outer ventilation hood with frost protection for a cold climate  |
| AH-10 *colour* 160             |  | Plastic outer ventilation hood. Available in colours:      <br>white black grey terracotta brown vintage |
| AH-10 chrome 160               |  | Plastic outer ventilation hood with a plate with brushed stainless steel effect finish   |
| AH-11 *colour* 160             |  | Plastic outer ventilation hood. Available in colours:      <br>white black grey terracotta brown vintage |
| AH-S chrome 160                |  | Outer ventilation hood for thin wall made of brushed stainless steel   |
| AH-S grey 160                  |  | Outer ventilation hood for thin wall, painted grey   |
| PP 160/0.5                     |  | Outer plastic ventilation hood for mounting from inside  |
| KIT BlauPlast white 160        |  | Kit for angular mounting with white color grille (for walls with standard thickness)   |

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| Name                     |   | Description  |
|--------------------------|---|--|
| KIT BlauPlast chrome 160 |  | Kit for angular mounting with stainless steel outer grille (for walls with standard thickness) |
| R 160-500                |  | 500 mm air duct and plastic foam plug  |
| R 160-700                |  | 700 mm air duct and plastic foam plug  |
| SE Vento Eco A50 Pro     |  | Sensor control panel   |