

# AERIS MIDI-WHI



## ENERGY RECOVERY SINGLE-ROOM VENTILATION UNITS

Air flow: up to 50 m<sup>3</sup>/h

Heat recovery efficiency: up to 90 %

## AERIS MIDI-WHI

### ENERGY RECOVERY SINGLE-ROOM UNITS

#### Features

- 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 controllable air exchange create individually controlled microclimate.



**Air flow:**  
up to 50 m³/h  
14 l/s



**Heat recovery efficiency:**  
up to 90 %



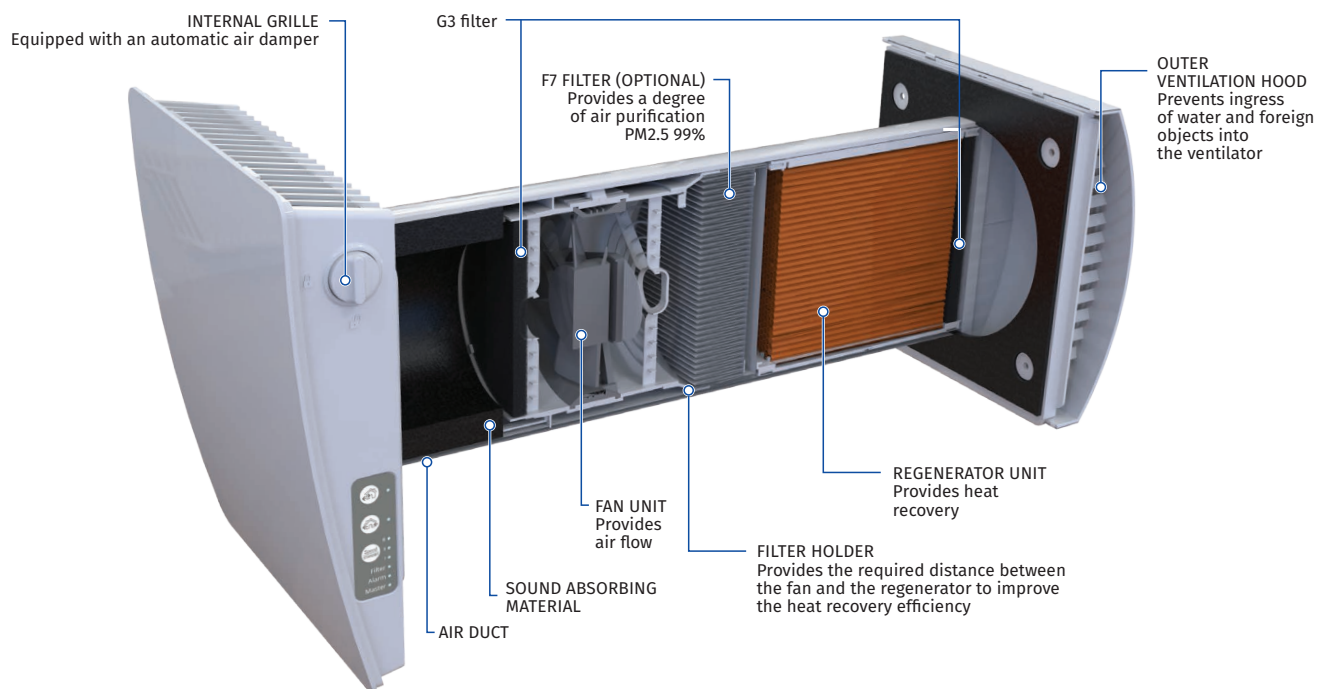
**Power:** from 2 W  
**SFP:** from 0.96 W/l/s



**Noise level:**  
from 10 dBA



#### Design



#### Designation key

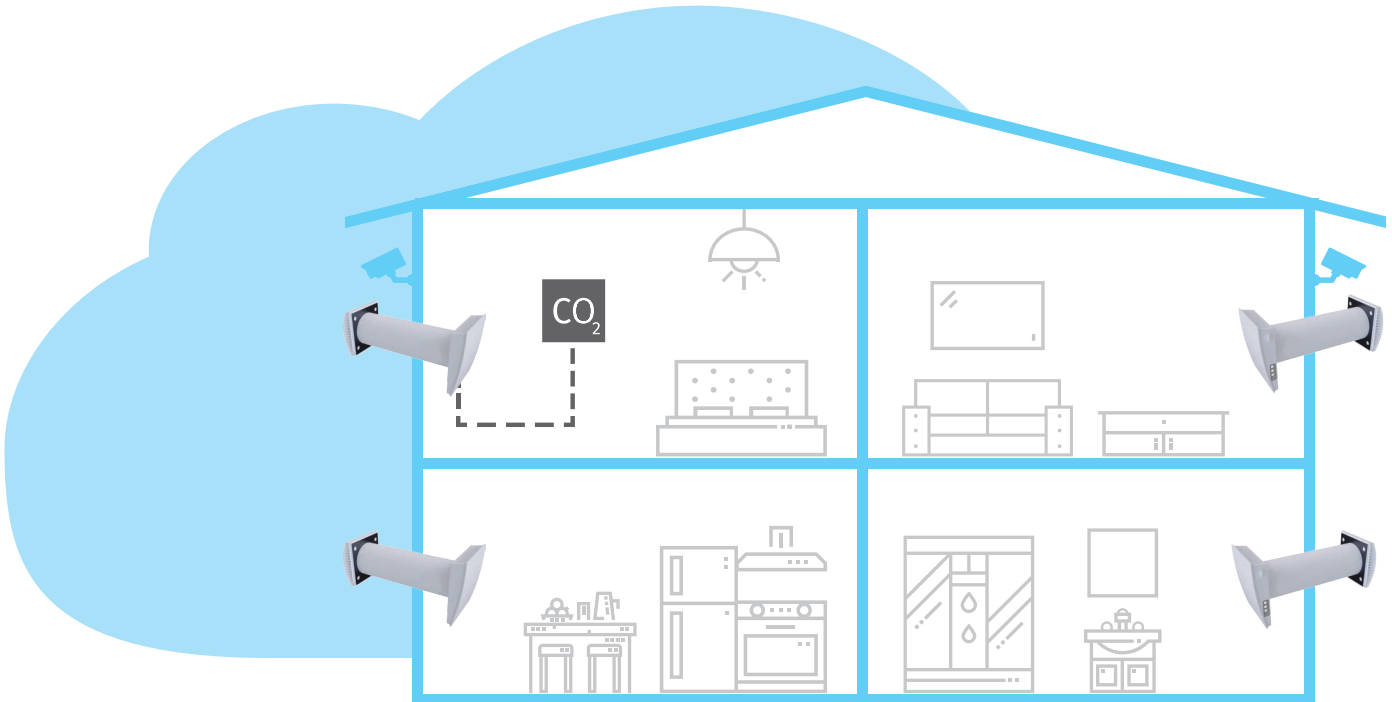
| Model          | Air duct          | Maximum air flow [m³/h] | Ventilation hood type                                                                                                                          | Control                                                                                                                  |
|----------------|-------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| AERIS MIDI-WHI | A: round air duct | 50                      | <b>S10:</b> plastic hood with a plate with brushed stainless steel effect finish (for standard walls)<br><b>S:</b> metal hood (for thin walls) | The unit modes are controlled via the sensor control panel located on the casing of the unit and via the remote control. |

# AERIS MIDI-WHI

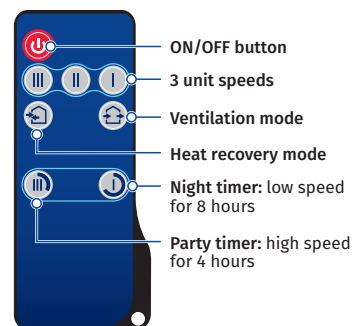
## ENERGY RECOVERY SINGLE-ROOM UNITS

### Control

- The unit modes are controlled via the sensor control panel located on the casing of the unit and via the remote control



- AERIS MIDI-WHI** either can operate as independent unit or can be connected with other units in a house and controlled with a master unit. In this case, only the master unit receives a signal from the remote control.
- Control of the unit operation mode is also performed by means of the sensor control panel located on the unit casing or the remote control.
- It is possible to control all the ventilators simultaneously by connecting them to a single network. In this case, all ventilators (Secondaries) will respond to a signal from the Primary ventilator only.



### Operation modes:

- ventilation with energy recovery
- ventilation
- speed switching and ventilator turning off

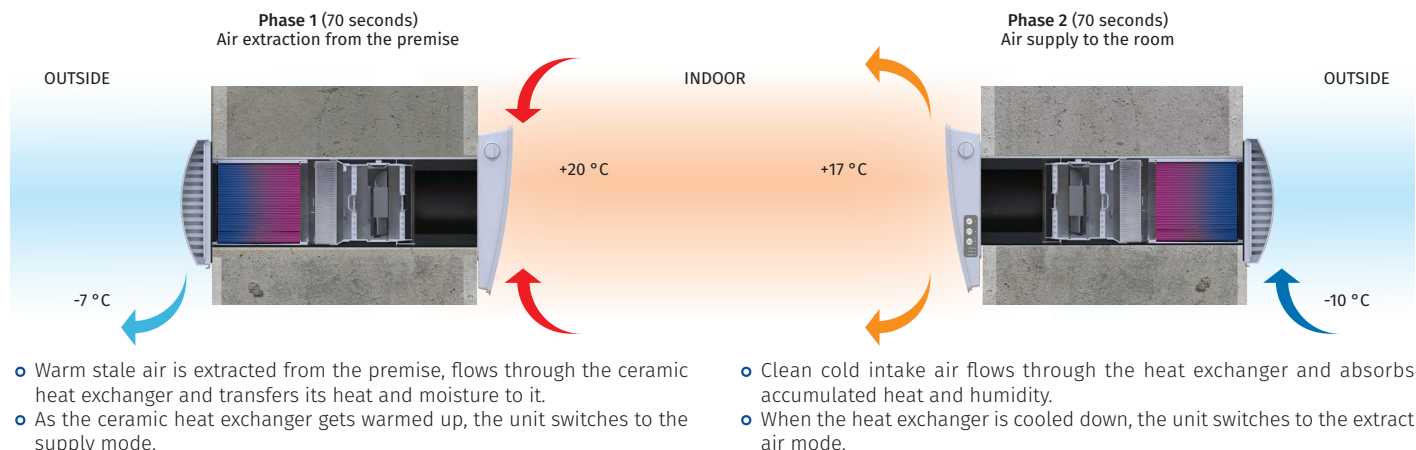


# AERIS MIDI-WHI

## ENERGY RECOVERY SINGLE-ROOM UNITS

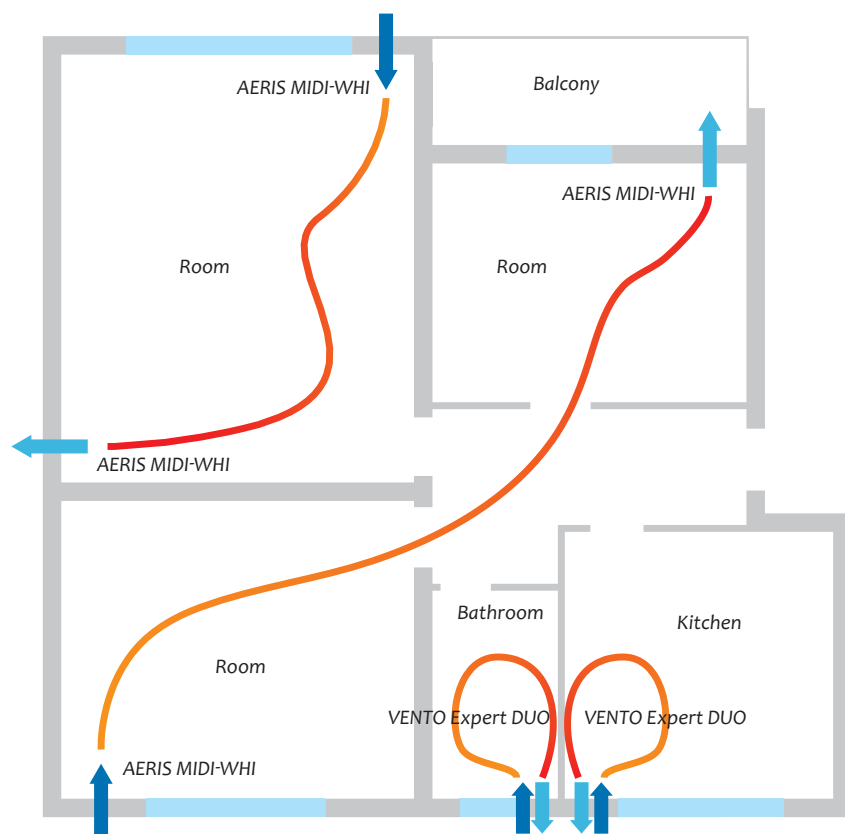
### Energy recovery

#### UNIT OPERATING LOGIC IN WINTER PERIOD



### Mounting

- The unit is designed for through-the-wall installation inside a prepared hole in an outer wall of the building.
- The best ventilation solution is pairwise installation of reverse phase synchronized units. Some units ensure supply of fresh air to the room and the other units extract air from the premise. This way the most efficient balanced ventilation is arranged.
- In case of brand new construction, units are mounted in two stages:
  - Pre-installation of an air duct and an outer ventilation hood at the stage of indoor finishing and outer decorative wall finishing.
  - Completion of the installation before commissioning of a house. It includes installation of the indoor unit with controller and shutters, the cartridge, the heat exchanger, the fan and the filters.



#### Mounting examples



Wall mounting with standard thickness using the AH-10 hood



Angular mounting into a wall with standard thickness using KIT BlauPlast white 160 / KIT BlauPlast chrome 160



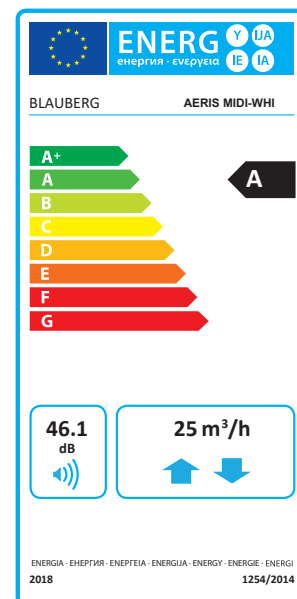
Unit installation example with the hood for thin walls AH-S grey 160 / AH-S chrome 160

# AERIS MIDI-WHI

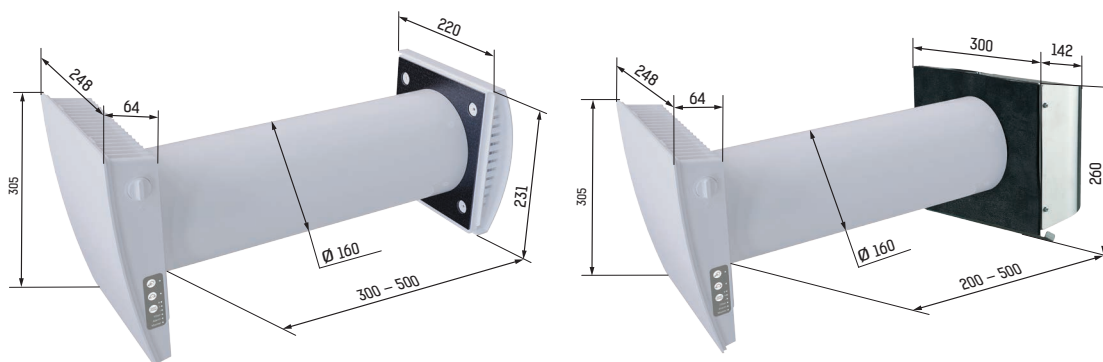
## ENERGY RECOVERY SINGLE-ROOM UNITS

### Technical data

| Parameters                                                                  | AERIS MIDI-WHI |                       |        |
|-----------------------------------------------------------------------------|----------------|-----------------------|--------|
| Speed                                                                       | I              | II                    | III    |
| Unit voltage [V/50 (60) Hz]                                                 |                | 100-240 / 50-60       |        |
| Power [W]                                                                   | 2.0            | 3.5                   | 5.5    |
| Current [A]                                                                 | 0.03           | 0.03                  | 0.06   |
| Air flow in ventilation mode [m³/h (l/s)]                                   | 15(4)          | 35(10)                | 50(14) |
| Air flow in energy recovery mode [m³/h (l/s)]                               | 8(2)           | 18(5)                 | 25(7)  |
| SFP [W/(l/s)]                                                               | 0.96           | 0.84                  | 0.79   |
| Transported air temperature [°C]                                            |                | -20...+40             |        |
| Sound pressure level at 1 m distance [dBA]                                  | 10             | 28                    | 35     |
| Sound pressure level at 3 m distance [dBA]                                  | 4              | 19                    | 26     |
| Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]    |                | 40                    |        |
| Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]                |                | ≤ 90                  |        |
| Classification of the indoor/outdoor air tightness, according to EN 13141-8 |                | D1                    |        |
| Filter                                                                      |                | G3 (G4, F7 optional*) |        |
| PM2.5 removal efficiency of F7 filter [%]                                   |                | 99                    |        |



### Overall dimensions [mm]



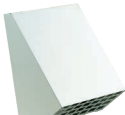
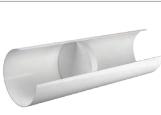
AERIS MIDI-WHI

AERIS MIDI-WHI  
(for thin walls)

# AERIS MIDI-WHI

## ENERGY RECOVERY SINGLE-ROOM UNITS

### Accessories

| Name                     |                                                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AH-10 colour 160         |    | Plastic outer ventilation hood. Available in colours:  white  black  grey  terracotta  brown  vintage |
| AH-10 chrome 160         |    | Grey plastic outer hood with a brushed stainless steel cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AH-S white 160           |    | Grey painted stainless steel outer hood for thin walls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AH-S chrome 160          |    | Polished stainless steel hood for thin walls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AH-8 white 160           |   | White painted aluminium outer hood for cold climate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| AH-8 chrome 160          |  | Stainless steel ventilation hood for cold climate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PP 160/0.5               |  | Hood for mounting from inside                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| KIT BlauPlast white 160  |  | Kit for angular mounting with white colour grille                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| KIT BlauPlast chrome 160 |  | Kit for angular mounting with stainless steel outer grille                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Duct 160 -500            |  | Round air duct with a diameter of 160 mm and a length of 500 mm with a foam plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Duct 160 -700            |  | Round air duct with a diameter of 160 mm and a length of 700 mm with a foam plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cardboard mounting plate |  | Cardboard template for indoor installation of the unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

# AERIS MIDI-WHI

## ENERGY RECOVERY SINGLE-ROOM UNITS

| Name                             |                                                                                     | Description                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| FB-AERIS                         |    | Remote control                                                                                                                                  |
| CO2-1                            |    | CO <sub>2</sub> sensor with LED indication and sensor buttons                                                                                   |
| CO2-2                            |    | CO <sub>2</sub> sensor                                                                                                                          |
| TRF-220/24-1,6 or TRF-120/24-1,6 |    | Power supply for CO <sub>2</sub> sensors                                                                                                        |
| FP2 G3                           |   | G3 filter kit (2 pcs.)                                                                                                                          |
| FP2 G4                           |  | Coarse filter G4<br>Contents:<br>• plastic filter holder (1 pc.)<br>• G4 filter (1 pc.)                                                         |
| FP2 F7                           |  | Fine filter F7<br>Contents:<br>• plastic filter holder (1 pc.)<br>• F7 filter (1 pc.)<br>The F7 filter reduces air flow to 40 m <sup>3</sup> /h |

Blauberg Ventilatoren GmbH  
Aidenbachstr. 52  
D-81379 Munich

[info@blaubergventilatoren.de](mailto:info@blaubergventilatoren.de)  
[www.blaubergventilatoren.de](http://www.blaubergventilatoren.de)

Technical changes reserved.  
Illustrations and texts are non-binding.

02/2022