

# AERIS MINI-WHI



## ENERGY RECOVERY SINGLE-ROOM VENTILATION UNITS

Air flow: up to 30 m<sup>3</sup>/h

Heat recovery efficiency: up to 81 %

# AERIS MINI-WHI

## ENERGY RECOVERY SINGLE-ROOM UNITS

### Features

- o Arrangement of efficient energy-saving, supply and exhaust, single-room ventilation in flats, houses, cottages, social and commercial premises.
- o Protection from outdoor noise.
- o Reducing heat losses caused by ventilation due to heat recovery.
- o Humidity balance and controllable air exchange create individually controlled microclimate.



**Air flow:**  
up to 30 m<sup>3</sup>/h  
8 l/s



**Heat recovery efficiency:**  
up to 81 %



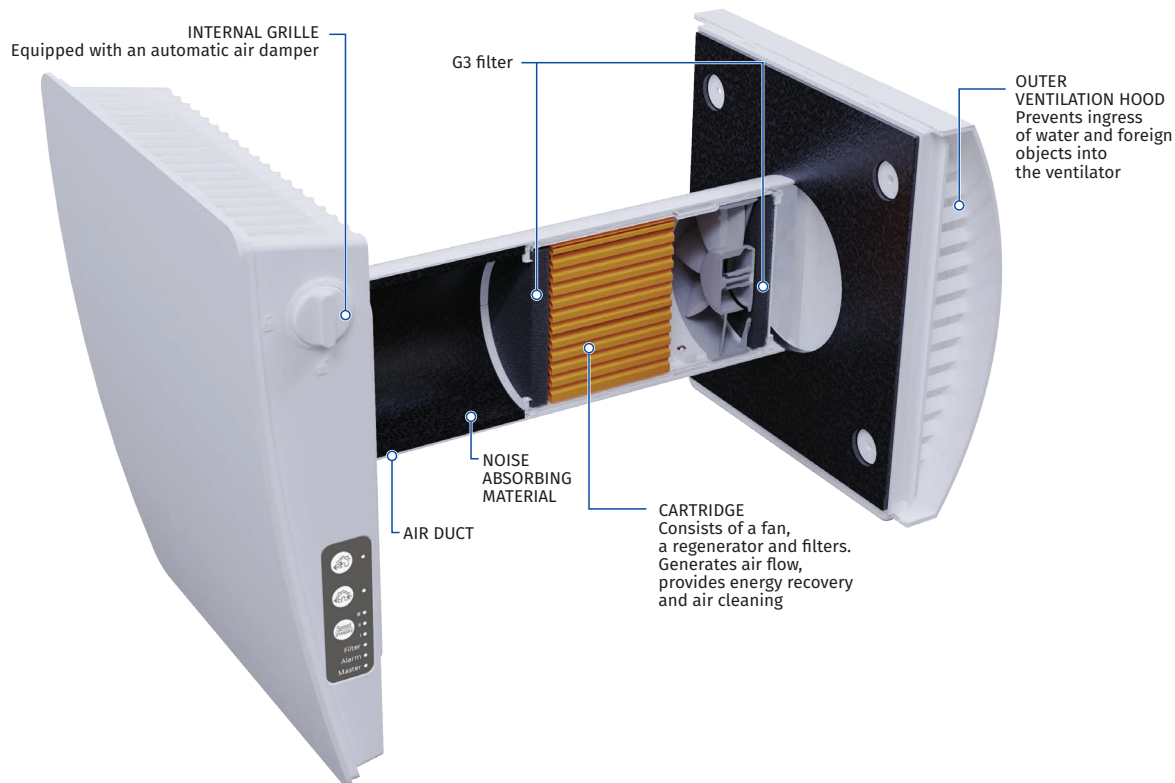
**Power:** from 2 W  
**SFP:** from 0.96 W/l/s



**Noise level:**  
from 21 dBA



### Design



### Designation key

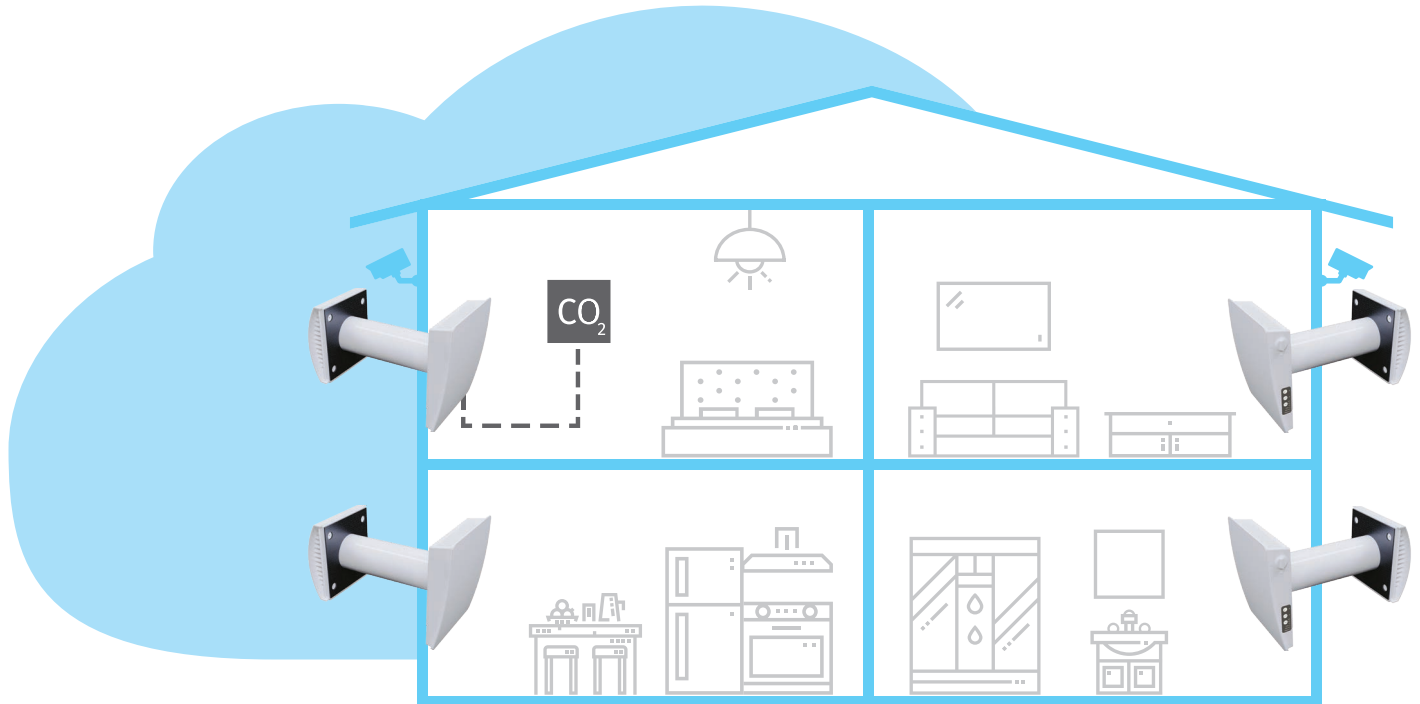
Model	Air duct	Maximum air flow [m <sup>3</sup> /h]	Ventilation hood type	Control
AERIS MIDI-WHI	A: round air duct	30	<b>S10:</b> plastic hood with a plate with brushed stainless steel effect finish (for standard walls) <b>S:</b> metal hood (for thin walls)	The unit modes are controlled via the sensor control panel located on the casing of the unit and via the remote control.

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## 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

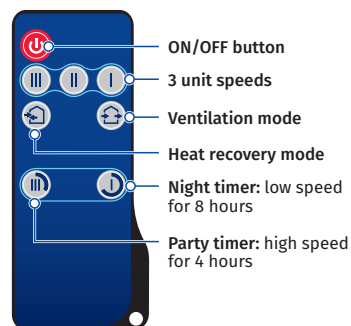


- AERIS MINI-WHI** either can operate as independent unit or can be connected with other units in a house and controlled with a master unit. In this case, only the master unit receives a signal from the remote control.
- Control of the unit operation mode is also performed by means of the sensor control 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.



AERIS MINI-WHI



#### Operation modes:

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

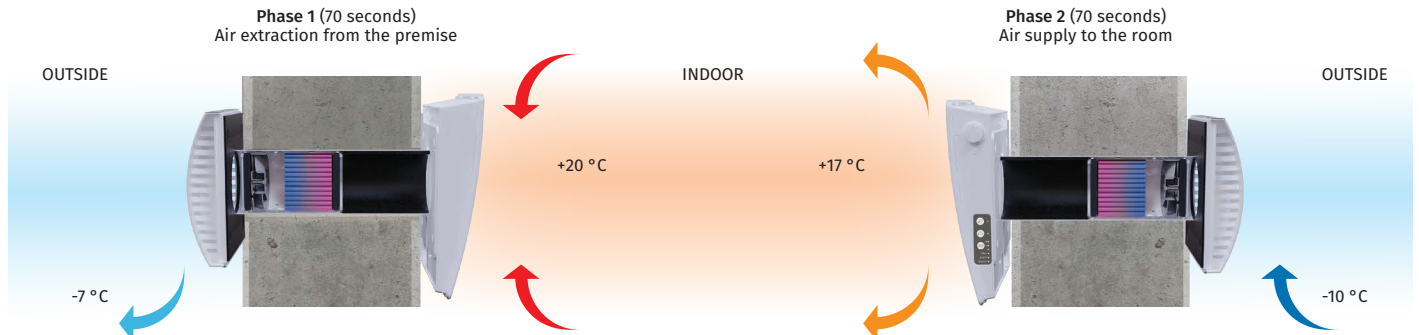


# AERIS MINI-WHI

## ENERGY RECOVERY SINGLE-ROOM UNITS

### Energy recovery

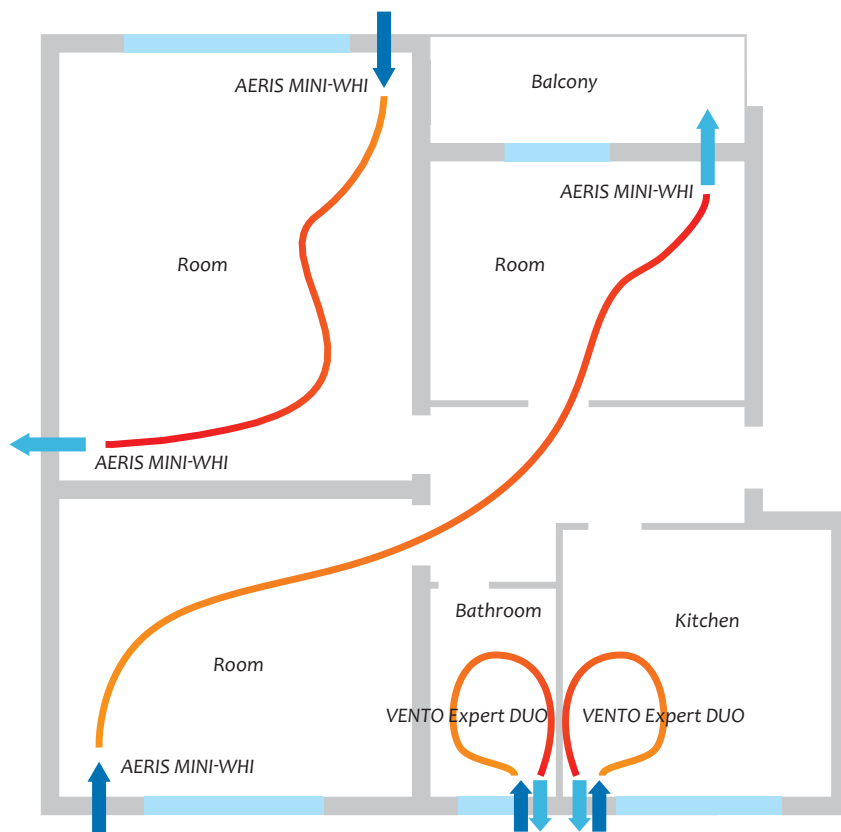
#### UNIT OPERATING LOGIC IN WINTER PERIOD



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

### 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 100 / KIT BlauPlast chrome 100



Unit installation example with the hood for thin walls AH-S grey 100 / AH-S chrome 100

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## ENERGY RECOVERY SINGLE-ROOM UNITS

### Technical data

Parameters	AERIS MINI-WHI		
	I	II	III
Speed			
Unit voltage [V/50 (60) Hz]	100-240 / 50-60		
Power [W]	1.10	2.40	3.80
Current [A]	0.02	0.03	0.05
Air flow in ventilation mode [m³/h (l/s)]	10(3)	20(6)	30(8)
Air flow in energy recovery mode [m³/h (l/s)]	5(1)	10(3)	15(4)
SFP [W/l/s]	0.79	0.86	0.91
Transported air temperature [°C]	-15...+40		
Sound pressure level at 1 m distance [dBA]	30	37	40
Sound pressure level at 3 m distance [dBA]	21	28	31
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	42		
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	≤ 81		
Classification of the indoor/outdoor air tightness, according to EN 13141-8	D1		
Filter	G3		

ENERGY LABEL: AERIS MINI-WHI

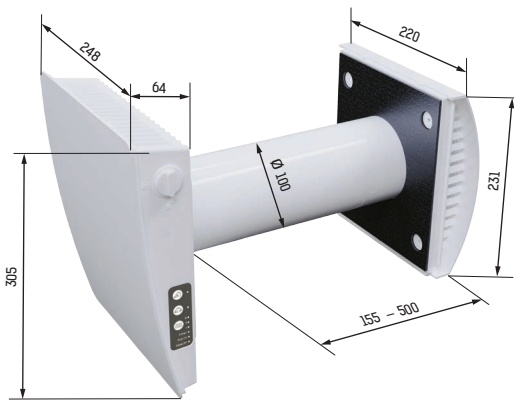
Energy efficiency class: **A**

Sound power level: **48 dB**

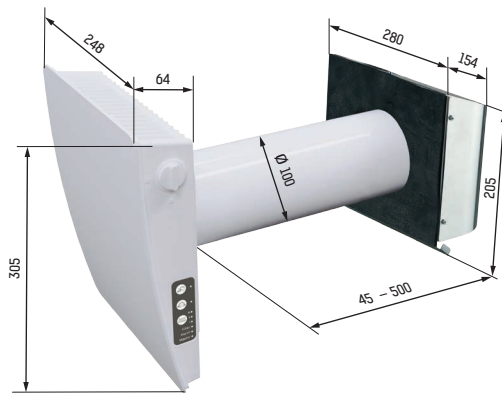
Air flow: **15 m³/h**

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### Overall dimensions [mm]



AERIS MINI-WHI























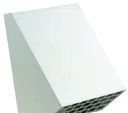








AERIS MINI-WHI  
(for thin walls)

# AERIS MINI-WHI






## ENERGY RECOVERY SINGLE-ROOM UNITS

### Accessories

Name		Description												
AH-10 colour 100		Plastic outer ventilation hood. Available in colours: <table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;">white</td> <td style="text-align: center;">black</td> <td style="text-align: center;">grey</td> <td style="text-align: center;">terracotta</td> <td style="text-align: center;">brown</td> <td style="text-align: center;">vintage</td> </tr> </table>							white	black	grey	terracotta	brown	vintage
														
white	black	grey	terracotta	brown	vintage									
AH-10 chrome 100		Grey plastic outer hood with a brushed stainless steel cover												
AH-S white 100		Grey painted stainless steel outer hood for thin walls												
AH-S chrome 100		Polished stainless steel hood for thin walls												
AH-8 white 100		White painted aluminium outer hood for cold climate												
AH-8 chrome 100		Stainless steel ventilation hood for cold climate												
KIT BlauPlast white 100		Kit for angular mounting with white colour grille												
KIT BlauPlast chrome 100		Kit for angular mounting with stainless steel outer grille												
Duct 100 -500		Round air duct with a diameter of 100 mm and a length of 500 mm with a foam plug												
Duct 100 -700		Round air duct with a diameter of 100 mm and a length of 700 mm with a foam plug												
Cardboard mounting plate		Cardboard template for indoor installation of the unit												

# AERIS MINI-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.)

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