



Wi-Fi



30 000 H



IP RATING

Decentralized ventilation

Decentralized ventilation ensures comfort by supplying the optimal amount of fresh air without the need to open windows, which results in significant cooling of the room in winter and the influx of insects in summer. The ventilation system consists of several smaller units located in different rooms of the house.

Thanks to the use of energy-efficient fans and high-efficiency heat exchangers, the installation of AHR devices also brings economic benefits.

Heat recovery takes place through the two-way operation of the devices. During the exhaust cycle, the used air flows through the heat exchanger, which collects its thermal energy, while during the supply cycle, the heat accumulated in the heat exchanger is collected and then transferred to the room. The use of temperature hysteresis eliminates frequent switching between operating modes. Ventilation responds to actual temperature changes rather than the passage of time, which increases energy efficiency and user comfort. The length of the cycle depends on temperature measurement only in the AHR PLUS version. An additional aspect is the reduction of interference with the building compared to a traditional recuperation system. The devices are located directly in the external wall of the building, without the need for ventilation ducts or major renovation work. This significantly reduces installation costs, especially in older buildings.

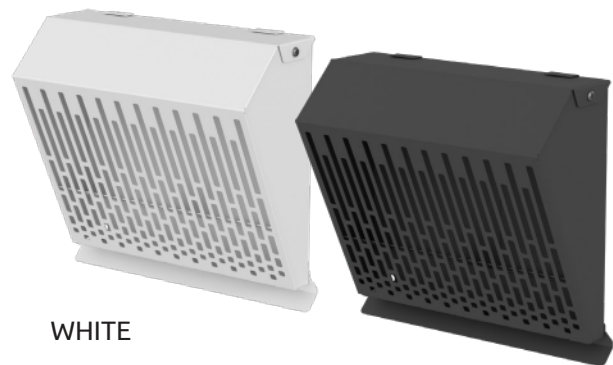


Exhaust grille/intake grille to decentralized AHR unit

A dedicated air intake and exhaust grilles designed for outdoor installation is available for AHR decentralized ventilation systems. The product has been designed for outdoor use. Its construction ensures resistance to weather conditions. The solution allows for aesthetic and orderly installation through a building partition.

They are not standard equipment for AHR devices. They can be used depending on project requirements and local conditions.

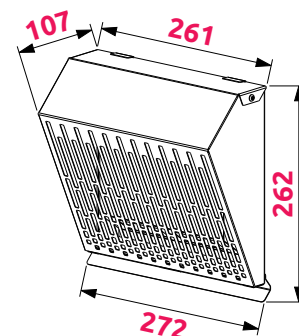
The product is intended for outdoor use. The installation of the components facilitates the maintenance of the correct air flow direction. The solution supports the correct operation of the ventilation system.



WHITE

GRAPHITE

DIMENSIONS



AHR

AHR is a new generation of decentralized ventilation devices facilitating ventilation while reducing heat loss.

Thanks to the use of an accumulation heat exchanger, the AHR retains and stores heat energy to transfer it to the cooler, supplied air. The applied electronics control the operation of the device and adjusts its parameters depending on the conditions in the room where the AHR is installed.

In addition, the AHR series has possibility to pair multiple devices thanks to automatic wireless communication.





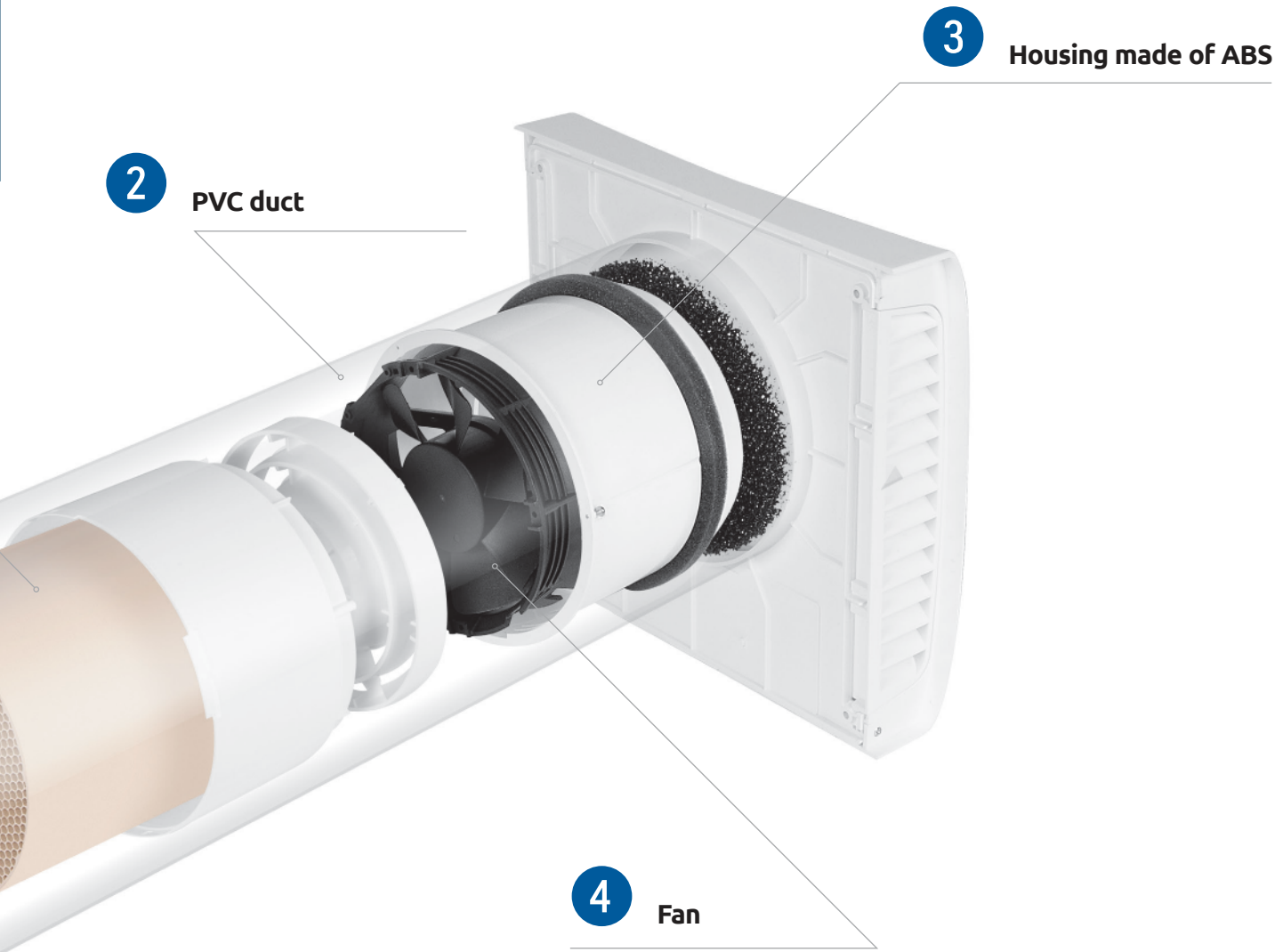
Wi-Fi



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IP RATING



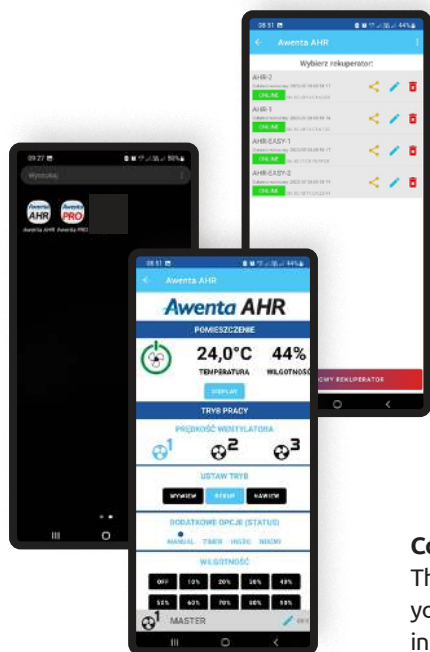
5 Filters

8 Temperature and humidity sensor



AHRP160 PLUS

AHRP160

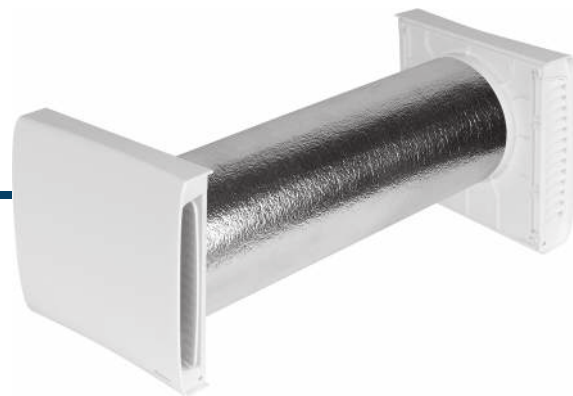


Awenta AHR app available on **Android** and **iOS**.

With the mobile app you can remotely manage your AHR family fans without the need for a remote control.

Comprehensive application

The extensive virtual control panel allows you to manage the functions of the AHR160 in detail..



I	24 dB (A)	23 m ³ /h	18 m ³ /h	4 W
II	34 dB (A)	36 m ³ /h	30 m ³ /h	5 W
III	39 dB (A)	52 m ³ /h	45 m ³ /h	7 W

Filter G3



G3 class filter included

Functionality of the application:

Switching on/off	Synchronised operation - info+activation
Current temperature	Night mode (time setting + activation)
Current humidity	Time to filter change
Gear shift	Reset time to filter change
Recuperation mode	Remote timer setting on the unit
Supply air mode	Info master/slave
Exhaust mode	Info current gear
Hygro mode	
Timer mode	

EQUIPMENT



Wi-Fi



Terminal block



3 speed



Remote Controller



Timer

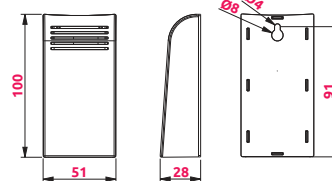
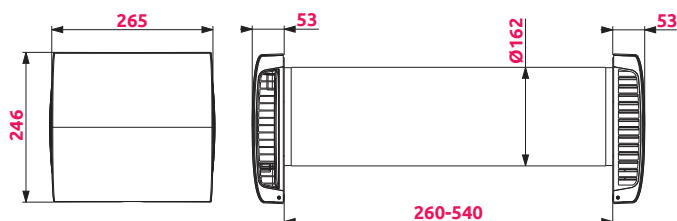


Humidity sensor



BALL BEARINGS

DIMENSIONS



4 RAWLPLUGS AND SCREWS



30 000 H



IP RATING



1 The ceramic exchanger is the heart of the device and one of its most important elements. In AHR, a hexagonal exchanger was used, thanks to which one of the highest heat recovery rates in decentralized ventilation devices available on the market was obtained.



2 Duct was made of PVC with addition of silver ions to prevent proliferating of bacteria inside of it. Additional insulation was used to reduce condensation and heat loss.



3 Main components are made of ABS plastic with addition of UV stabilizer increasing resistance to sunlight.



4 Energy - saving brushless motor 24V DC.



5 The AHR is equipped with two air purifying filters.



6 The AHRP160 is equipped with an infrared remote control, enabling the device to be operated in the full range of changing operating modes, operating speed as well as switching on and off.



7 Automatic shutters that cut off the air flow when the device is turned off and a soundproofed internal panel increase the comfort of use.



8 The wireless temperature and humidity sensor enables automatic operation of the device, which, based on the measurements, adjusts the operating speed.



Additional filter: G3 class. Included as standard.



For thick walls it is possible to obtain longer isolation duct AHR160KO-075 at length 750 mm.



9

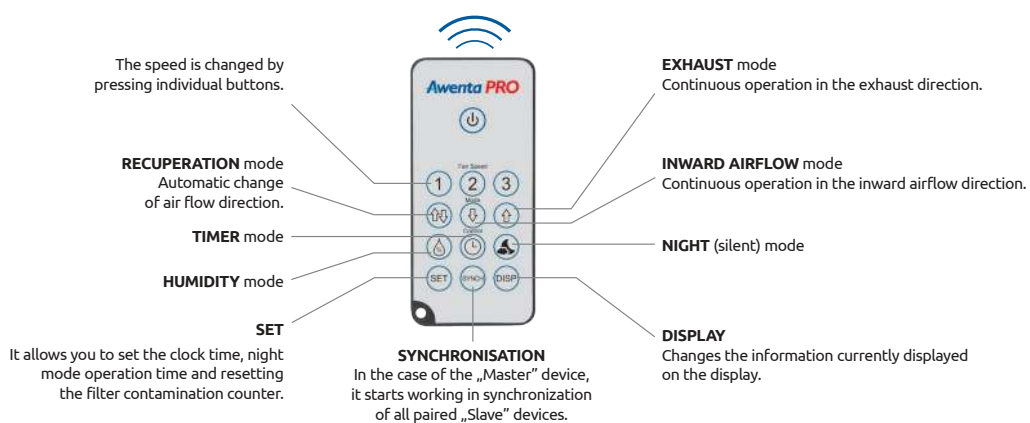
Display mode 1
The display is dimmed (a blinking dot indicates active ventilation, continuous light indicates off mode)

Display mode 2
Display is showing the air flow direction, set gear and current room humidity level

Display mode 3
Display is showing the air flow direction, set gear and current room temperature

Display mode 4
The current time is displayed

Display mode 5
Sequential change of display modes (2, 3, 4) every 5 seconds



RECUPERATION mode
The air flow direction is changed automatically based on the measurement temperature.



AIR SUPPLY / EXHAUST mode
Continuous operation in the inward or exhaust airflow direction at the room.



HUMIDITY mode
The speed depends on the settings and currently measured humidity.



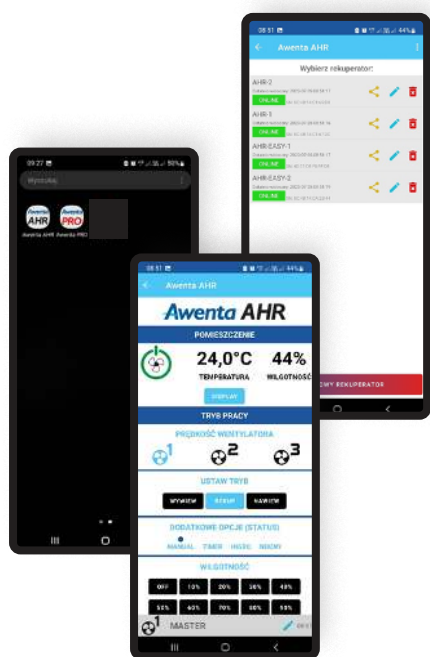
TIMER mode
Enables automatic shutdown of the device after 5-180 minutes.



NIGHT (silent) mode
The night mode is activated at the user-set clock time, reducing the efficiency of the device.

AHRE160 EASY

AHRE160

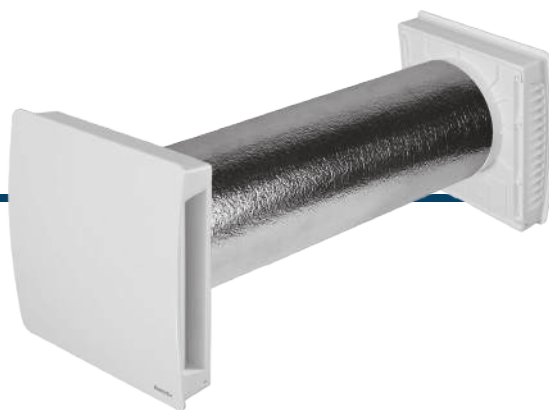


Awenta AHR app available on **Android** and **iOS**.

With the mobile app you can remotely manage your AHR family fans and external temperature, humidity sensor* without the need for a remote control.

EASY TO USE

The simplified interface allows quick and easy management of the AHR160 Easy and external temperature and humidity sensor*.



I	24 dB (A)	23 m³/h	4 W
II	34 dB (A)	36 m³/h	5 W
III	39 dB (A)	52 m³/h	7 W

*optional product, sold separately

Functionality of the application:

Master mode

- Switching on / off
- Gear shift
- Recuperation mode
- Supply air mode
- Exhaust mode
- Night mode (OFF or 8h)
- Ventilation mode (OFF or 30min)
- Synchronised operation - info
- Time to filter change
- Reset time until filter change
- Info Master/Slave
- Info current gear

Slave mode

- Information on synchronisation operation
- Time until filter change
- Reset of time until filter change
- Info Master/Slave
- Info of current gear

EQUIPMENT



Wi-Fi



Terminal box

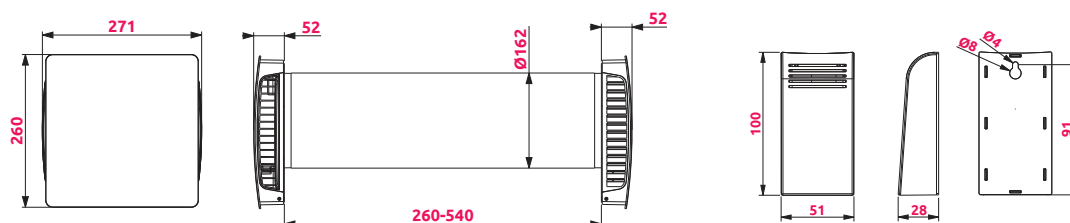


3 speed



Remote controller

DIMENSIONS



BALL BEARINGS



4 RAWLPLUGS AND SCREWS



30 000 H



IP RATING



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The ceramic exchanger is the heart of the device and one of its most important elements. In AHR, a hexagonal exchanger was used, thanks to which one of the highest heat recovery rates in decentralized ventilation devices available on the market was obtained.



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Duct was made of PVC with addition of silver ions to prevent proliferating of bacteria inside of it. Additional insulation was used to reduce condensation and heat loss.



3

Main components are made of ABS plastic with addition of UV stabilizer increasing resistance to sunlight.



4

Energy - saving brushless motor 24V DC.



5

The AHR is equipped with two air purifying filters.



6

The AHRE160 is equipped with an infrared remote control, enabling the device to be operated in the full range of changing operating modes, operating speed as well as switching on and off.



7

Automatic shutters that cut off the air flow when the device is turned off and a soundproofed internal panel increase the comfort of use.



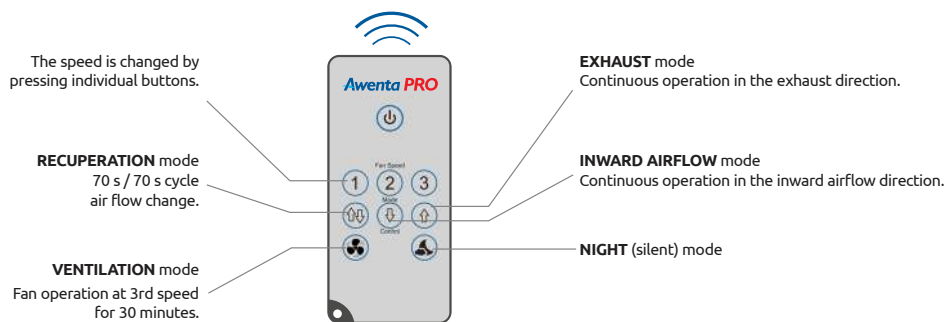
8

The wireless temperature and humidity sensor enables automatic operation of the device, which, based on the measurements, adjusts the operating speed.



For thick walls it is possible to obtain longer isolation duct AHR160KO-075 at length 750 mm.

*optional product sold separately



RECUPERATION mode

The direction of airflow is changed every 70 seconds.



AIR SUPPLY / EXHAUST mode

Continuous operation in the inward or exhaust airflow direction at the room.



NIGHT (silent) mode

The night mode is activated for 8 clock hours, reducing the efficiency of the device



VENTILATION mode

Fan operation at 3rd speed for 30 minutes in the currently selected direction (mode)

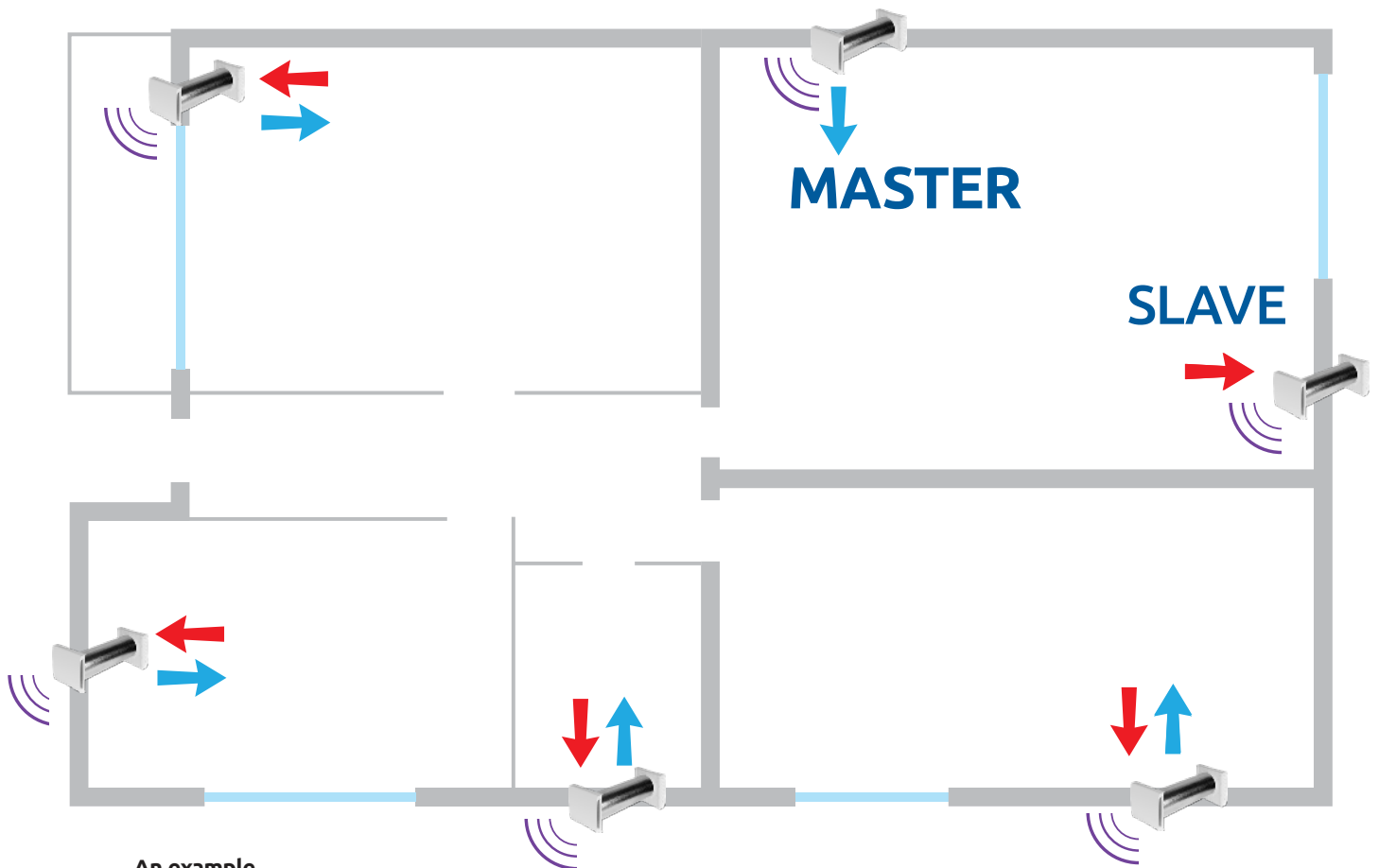
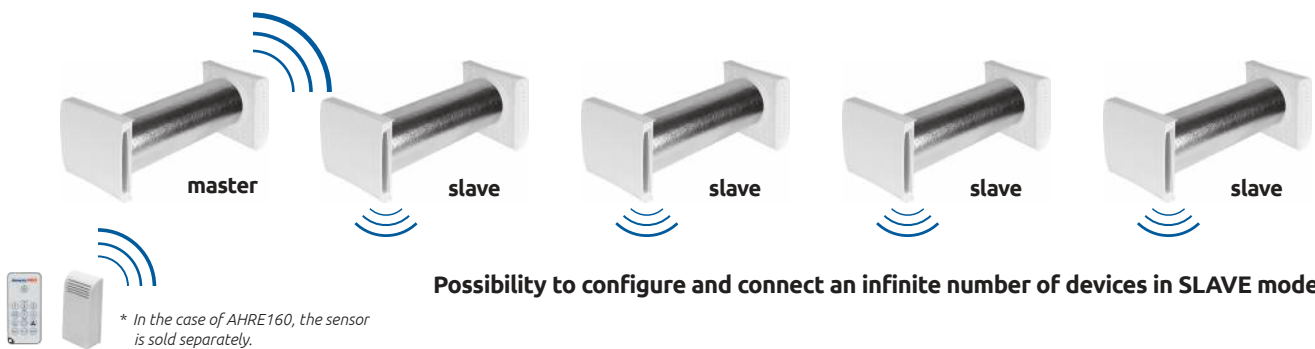
Switching off by pressing the remote control button again or when changing to a speed other than 3rd.

AHR160 PLUS, AHR160 EASY

AHRP160, AHRE160

The AHR series has the ability to connect several devices installed in one or more rooms with the possibility of pairing them via wireless communication. No hassle of connecting devices with a power cord.

Connection possible in various modes, e.g. both units only supply or only exhaust and alternate operation, one unit blows in and the other blows out.



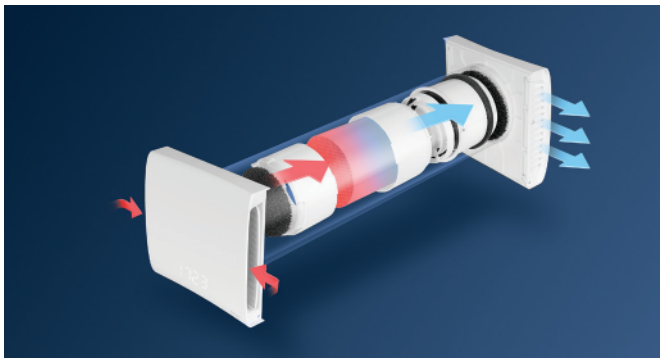
An example of AHR devices arrangement



30 000 H

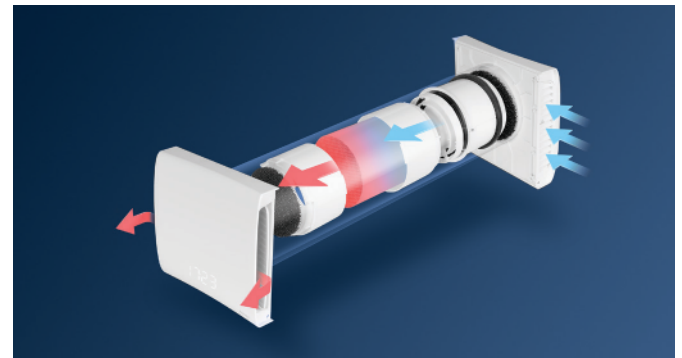


IP RATING



EXHAUST

During exhaust operation, the heat is stored in a ceramic heat exchanger. After the exchanger is completely warmed up, it automatically changes the direction of operation.



AIR FLOW

The heat accumulated in the exchanger is collected by the supply air stream and then transferred to the room. After the exchanger cools down, it automatically changes the direction of operation.

The optimal one-way operation time is determined by the temperature readings from sensors located upstream and downstream of the heat exchanger.

The principle of AHR devices operation

