AHR160

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 difference between the AHR and HRV series lies in the solutions used to automate its operation. 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.



The ceramic exchanger









Temperature and humidity sensor

TECHNICAL CATALOGUE 2024

AHRP160 PLUS

NOVELTY

AHRP160



Awenta AHR app available on Android.

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.





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





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260-540

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Additional filter: G3 class.

Main components are made of ABS plastic with

increasing resistance to sunlight.

addition of UV stabilizer

Included as standard.



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

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

Energy - saving brushless motor 24V DC.

obtained.



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5

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

Duct was made of PVC with addition of silver ions to prevent

proliferating of bacteria inside

of it. Additional insulation was

The AHR is equipped with two air purifying filters.

heat loss.

used to reduce condensation and

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> EXHAUST mode Continuous operation in the exhaust direction.

INWARD AIRFLOW mode Continuous operation in the inward airflow direction.

NIGHT (silent) mode

DISPLAY Changes the information currently displayed on the display.

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.



to obtain longer isolation duct AHR160KO-075 at length 750 mm.

For thick walls it are possible



The speed is changed by pressing individual buttons.

RECUPERATION mode

Automatic change of air flow direction.

TIMER mode

HUMIDITY mode

SFT

It allows you to set the clock time, night mode operation time and resetting the filter contamination counter.



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.

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SYNCHRONISATION

In the case of the "Master" device,

it starts working in synchronization of all paired "Slave" devices.



AHRE160 EASY

NOVELTY

AHRE160



Awenta AHR app available on **Android.**

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*.

*optional product, sold separetly

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Functionality of the application:

Master mode	Slave mode
Switching on / off	Information on synchronisation operation
Gear shift	Time until filter change
Recuperation mode	Reset of time until filter change
Supply air mode	Info Master/Slave
Exhaust mode	Info of current gear
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	

EQUIPMENT







4

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.

Energy - saving brushless

motor 24V DC.



5

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.

The AHR is equipped with

two air purifying filters.



6

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

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.



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



The wireless temperature and humidity sensor enables automatic operation of the device, which, based on the measurements, adjusts the operating speed. Sensor functionality avaible only via smartphone application. *optional product, sold separetly



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





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.









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.



AIRFLOW

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.

