







Uncomplicated, individual and competent, we will work with you to find a ventilation solution that will allow you to breathe easy.

One Eco-pair Plus ERV in ventilation mode can serve room up to 500sq. Ft.\*

\*In accordance with ANSI/ASHRAE Standard 62.2-2016.

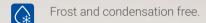




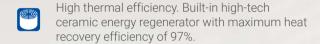
## **Features**







One-stop installation through the internal wall with a single hole.



Reversible 3 speed EC duct fan with low power consumption of 7.8W.

Free-cooling: when the unit detects that the outdoor temperature is within ±1°C of the set temperature, it automatically switches to supply more fresh air.

Prefilter and F7 (MERV11) filter as standard to keep air clean.

Flexible operation, working individually or in pairs.

High ingress protection with IPX4.

Quiet operation of less than 32.7dB(A).

Easy control. Unit can be controlled via button, remote controller and WIFI (Smart APP). With APP, user also can create scene control and group control.

Controlled by Android or iOS smartphone via the cloud server from anywhere in the world.

Smarter IAQ control. Standard CO<sub>2</sub> sensor to display realtime concentration and controls the unit to supply more fresh air to dilute the CO<sub>2</sub> concentration, and optional humidity sensor and IAQ detector.



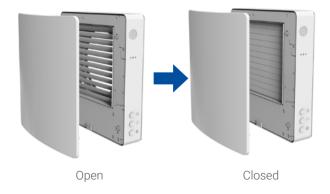
## **Elegant Decorative Front Panel**



The specially designed indoor unit can be magnetically connected to ensure maximum air tightness and protection against wind.



Built-in auto shutter prevents air back draught.



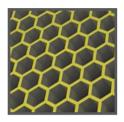


#### **Reversible DC Motor**

The reversible axial fan is with EC technology. The fan is characterised by low power consumption and silent operation. The fan motor has built-in thermal protection and ball bearings for long life.

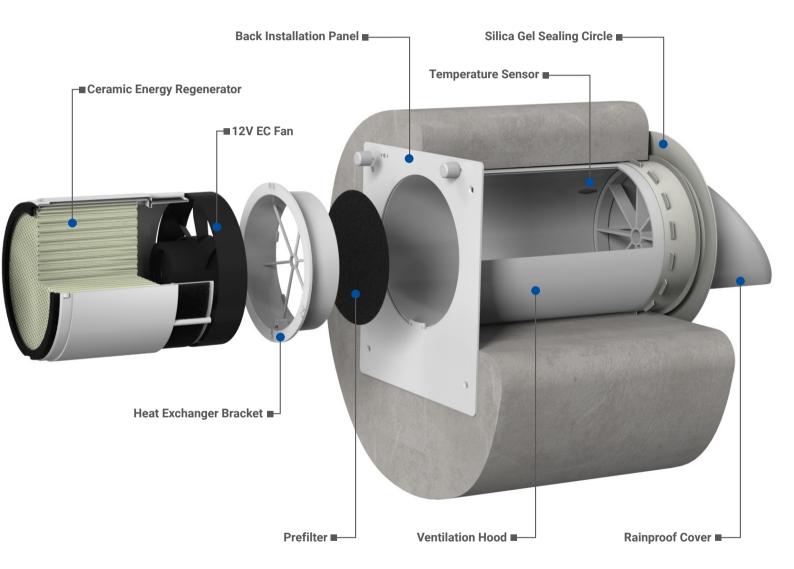


### **Ceramic Energy Regenerator**



The high-tech ceramic energy accumulator with a regeneration efficiency of up to 97% ensures heat recovery from the exhaust air to heat or cool the supply air flow. Due to its cellular structure, the unique regenerator has a large air contact surface and high heat conducting and accumulating properties.

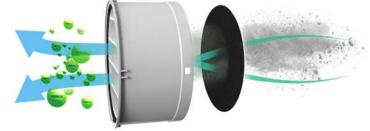
The ceramic regenerator is treated with an antibacterial composition to prevent bacterial growth inside.



#### **Air Filters**

Two integrated air pre-filters and a F7 air filter are fitted as standard to provide supply and extract air filtration. The filters prevent the ingress of dust and insects into the supply air and contamination of the fan parts. The filters are also antibacterially treated.

The filters are cleaned with a vacuum cleaner or by flushing with water. The antibacterial solution will not be removed.





## **Energy Saving**

The ventilator is designed both for reversible mode with energy regeneration and supply or exhaust mode with no regeneration.

#### WHEN IT'S COOL OUTSIDE:

The ventilator operates in the heat recovery mode with two cycles can save energy by over 30% compared with the normal exhaust fan. The heat recovery efficiency is up to 97% when the air first entering the heat regenerator. It can recover the energy in the room and reduce the load on the heating system in winter.



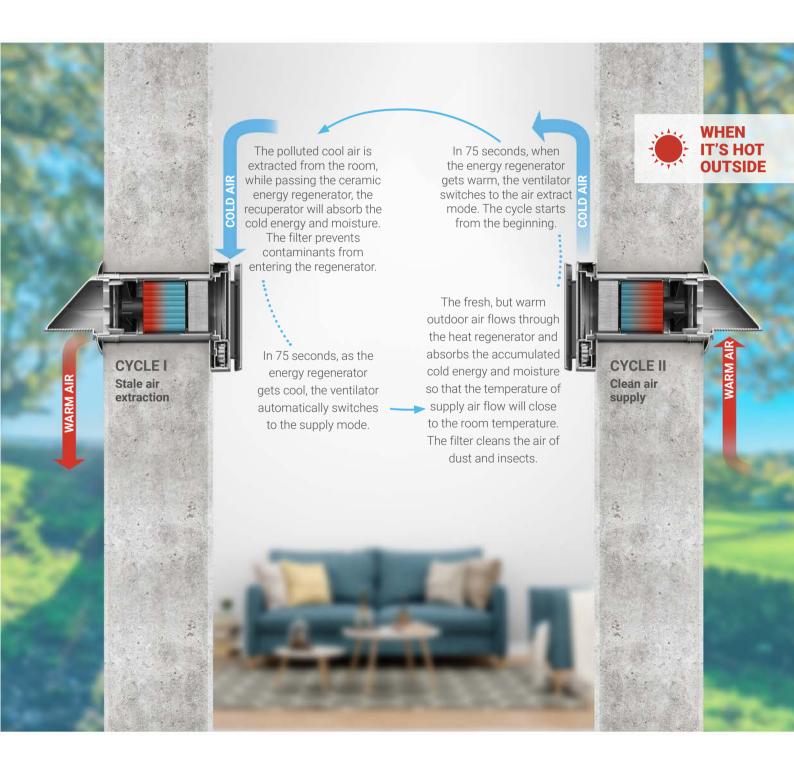
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## **Energy Recovery**

#### WHEN IT'S HOT OUTSIDE

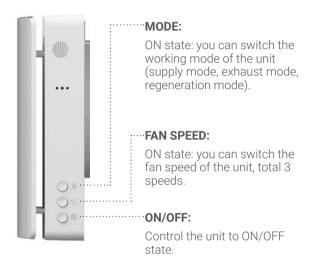
The ventilator operates in the heat recovery mode with two cycles. Two units intake/exhaust air alternately at the same time to achieve balance ventilation. It will increase the indoor comfort and make ventilation more effective. The heat and humidity in the room can be recovered during ventilating and the load on cooling system can be reduced in summer





## **Easy Control**

#### **BUTTON**



#### WIFI FUNCTION

- On/off switch
- ▶ Fan speed selection
- Working mode selection
- Pairing status
- Outdoor temperature display
- ▶ Filter alarm
- ▶ Free-Cooling function
- ▶ CO₂ concentration control
- ▶ 12 hrs timer setting
- Optional Negative ion function
- ▶ Indicator lights ON/OFF
- ▶ Weekly schedule
- ▶ Fan boost function
- Multiple linkage control
- Smart control according to local weather
- Optional humidity control



The app is available on the App Store and Google Play.



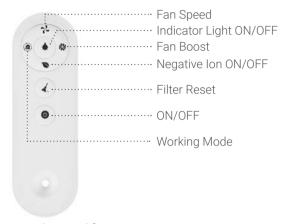




Work with Alexa and Google Assistant.



#### REMOTE CONTROL



- Using radio signal for communication.
- Longer distances communication up to 15m without barrier.
- Wider control area, multiple devices can be controlled at the same time.
- Accurate control to avoid controlling the wrong device.

#### **SCENE CONTROL**

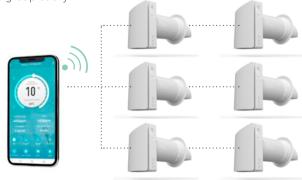
User can create scene(s) according to the weather changes, schedule or the device status changes.

For example, when the weather shows the outdoor relative humidity is higher than 85%, user can set the ventilator to stop or run at exhaust mode, to prevent the outdoor humidity coming inside. The unit will run according to the setting automatically.



#### **GROUP CONTROL**

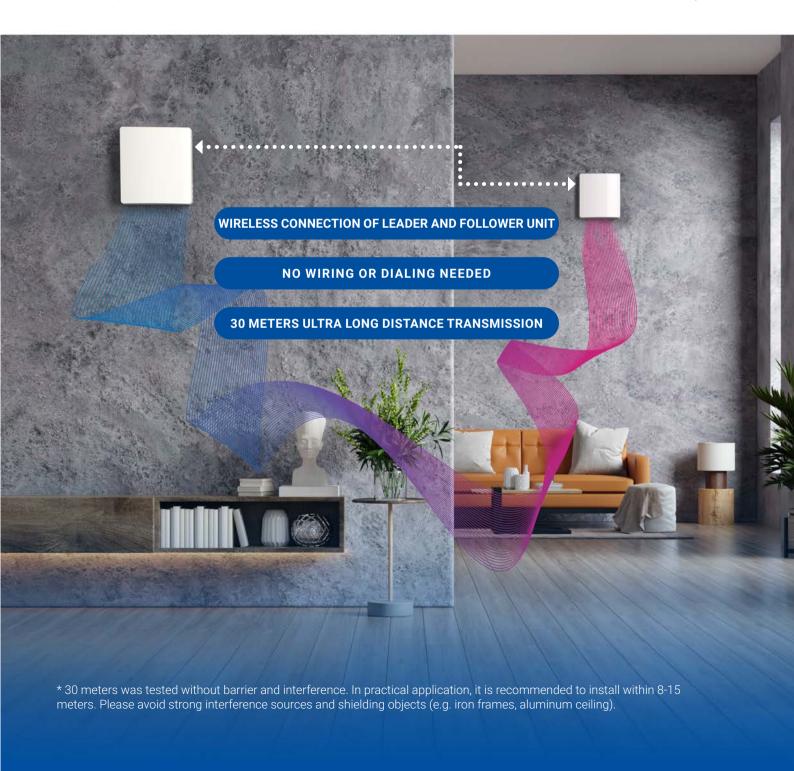
The ventilator can create group control at the APP, the quantity is not limited. User can control all the ventilators in the group easily.





## Wireless Operation In Pair **To Ensure Balanced Ventilation**

One ERV supplies fresh air for 75s, while the other ERV extracts indoor stale air for 75s, to achieve a balanced ventilation system.





# **Energy Saving And Improve Indoor Air Comfort**







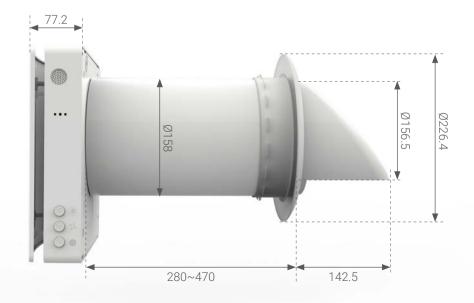
## **Technical Parameters**

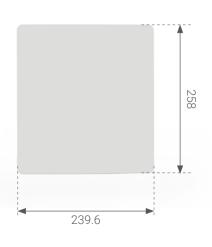
Model No.	AV-TTW5-W				
Voltage	100V~240V AC /50-60Hz				
Power (W)	6	7	7.8		
Current (A)	0.04	0.05	0.06		
Air flow in supply/exhaust mode (with F7 filter) (CMH/CFM)*	20/11.8	40/23.5	50/29.4		
Max airflow (under fan boost mode) (CMH/CFM)	60/35.3				
Sound pressure level (dBA)	32.7				
Regeneration efficiency	Up to 97%				
SEC	Class A				
Ingress protection rating	IPX4				
RPM (max)	2200				
Diameter of duct (mm)	158				
Product size (mm)	239.6x258x499.7 (The length of duct in wall is 280-470 mm)				
Net Weight (kg)	4.2				

<sup>\*</sup>Note: The airflow in supply/exhaust mode without F7 filter is about 34/56/70CMH or 20/33/41.2 CFM, and the relative parameters will be adjusted accordingly.

## **Dimensions**

(Unit: mm)







#### OPTIONAL HIGH EFFICIENCY HEAT STORAGE BALL REGENERATOR





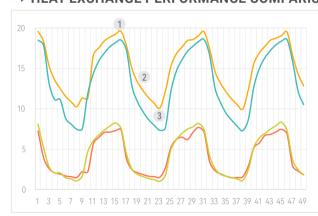




- Washable
- Service life more than 10 years
- Higher heat exchange efficiency with more energy saving
- Adaptable to the trending single room ERV in the market
- · Longer heat storage time

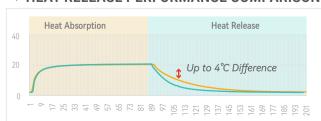
- Less temperature fluctuation
- More comfortable supply air temperature
- Patented innovative design
- Easy installation
- Customized design available
- **Environment friendly**

#### ► HEAT EXCHANGE PERFORMANCE COMPARISON



- Ball Regenerator SA temperature
- Honeycomb Regenerator SA temperature
- Ball Regenerator OA temperature
- Honeycomb Regenerator OA temperature
- 1 At the peak of heat exchange, ball regenrator SA temperature is 1.5°C higher than the honeycomb regenerator.
- 2 Heat storage time lasts longer with less temperature fluctuation.
- At the bottom of heat exchange, ball regenerator SA temperature is 2.5°C higher than the honeycomb regenerator.

#### ▶ HEAT RELEASE PERFORMANCE COMPARISON



- Ball Regenerator

- Honeycomb Regenerator

According to our test, the heat absorption capacity is similar, while the heat release time of ball regenerator is longer, and the supply air temperature is higher than the honeycomb regenerator up to 4°C at the same releasing time.



## **Design Concept**

#### FOR SINGLE ROOM ENERGY RECOVERY VENTILATOR

#### **OPTIONAL FRONT PANEL DESIGN**



Cloth Design with Different Color



Front Panel with Different Color Painting

#### **ACCESSORIES**

Picture	Accessory Name	Product Code	Picture	Accessory Name	Product Code
	Kit for the thin wall	AS-KTW001/ AS-KTW002		Plastic round grille	AS-PRG002
	Extended pipe (Ø 160, Length 390 mm, to extend the total pipe length to 600 mm)	AS-EDP001		Stainless steel round grille	AS-SRG001
	Ventilation hood for indoor mounting	AS-VHI001	641. ****  ****  ****  ****  ****  ****  ****	Smart air quality detector	AS-AQ010Z-1
	Metal outer hood with electrical heater	AS-MHE001White/ AS-MHE001-B Black		Platic hood	AS-PSG003 White/ AS-PSG003-B Black
	Metal outer hood	AS-MHN001 White/ AS-MHN001-B Black		White painted metal outer hood for thin walls	AS-MHN002 White/ AS-MHN003 Black
	Plastic square grille	AS-PSG002		F7 (MERV13) filter	AS-F7F001
The state of the s	Heat storage ball regenerator	AS-TA50-2		Negative ions air purifier	AS-A5A





#### **Guangzhou Airwoods Environment Technology Co., Ltd.**

