



# Innovative Air Solutions



Purification



Ventilation and  
Heat Recovery



Cooling/Heating



Dehumidification





# BREATHING HEALTHIER AIR



We breathe in 18 kg of air a person a day.

Food 1.3 kg a person a day.

Water 1.2 kg a person a day.

Indoor air quality is vital to our health.

As a creator of healthy living environments, Airwoods is committed to providing integrated solutions for fresh, clean, comfortable, and healthy air.

Every innovation is for your healthy breathing!



\*1 : Iwao Uchiyama (Department of Occupational Health, National Institute of Public Health) "Air and Human Beings: from the Physiological Viewpoint" (1999) <https://ci.nii.ac.jp/naid/110008447936/>

\*2, \*3 : Heat illness Prevention (Chapter 3) in "Heat illness Environmental Health Manual 2018", P.32, Figure3-2 by Ministry of the Environment, Government of Japan. [http://www.wbgt.env.go.jp/pdf/manual/heatillness\\_manual\\_3-1.pdf](http://www.wbgt.env.go.jp/pdf/manual/heatillness_manual_3-1.pdf)

## ABOUT AIRWOODS

Founded in **2007**

- A high-tech enterprise.
- Proposed the world's first concept of BAQ - Building Air Quality.

**15 +** years of experience in the HVAC industry.

**20 +** products with multiple international certifications, including CE (European Union safety certification), UKCA, ROHS, REACH and CSA (North American safety certification).

**50 +** national invention patents, utility patents and design patents.

**100 +** countries sales network.

**1 million** providing quality products to over 1 million users.



# MANUFACTURING

## Annual production of 200,000 sets of energy recovery ventilators.

Airwoods has its own Manufacturing Base and R&D center in Nansha district, Guangzhou. The area is more than 8000 m². We have the skilled assembly lines and test lab there. Besides, we collaborate with multiple reputable domestic HVAC manufacturers to supply quality products.



Skilled Assembly Lines



Wind Tunnel Test Lab



Burn In Test Lab



Cleanroom production lines for filters and air purification products 1



Cleanroom production lines for filters and air purification products 2

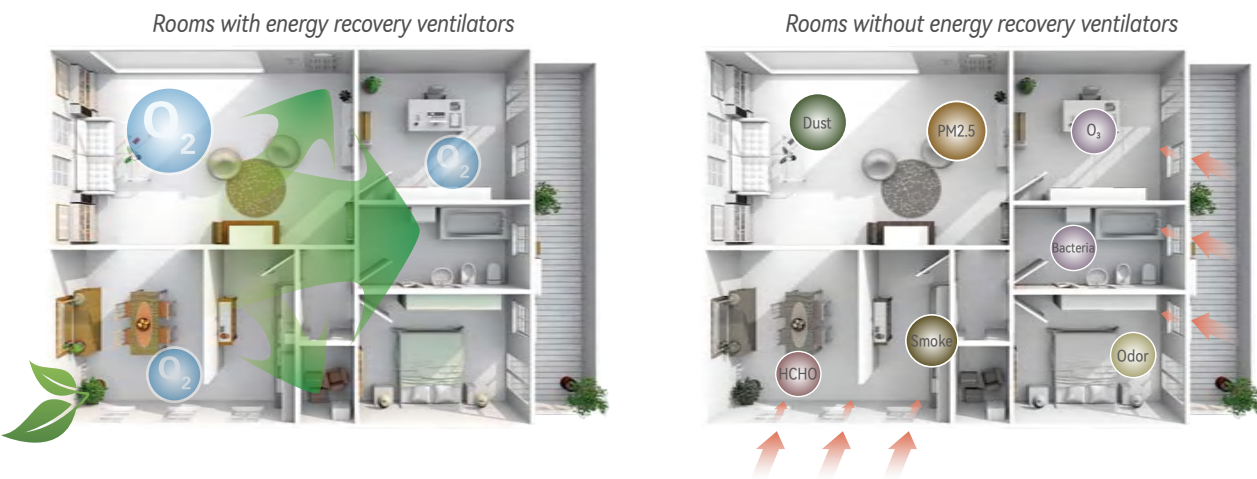
Our group has another manufacturing base in Beijing, covering area of 30,000 m².



# FIVE KEY FEATURES

## 01 Comfort and Health

Airwoods offers customers a comprehensive, comfortable, and healthy air solution. Clients can easily and conveniently select appropriate products and solutions for their needs.



### AIR PURIFICATION

Studies have found that air purifiers can effectively remove indoor air pollutants, such as allergens, pollen, bacteria, and viruses, including COVID-19. The COVID-19 virus aerosols can linger in the air for up to three hours, making the chances of indoor airborne transmission 15-20 times greater than outdoors, particularly in inadequately ventilated buildings. Improved Version: Increased airflow and improved air filtration can decrease the amount of airborne particles from an infected person's cough or exhalation.

Some buildings only have natural ventilation or exhaust fans in bathrooms, but it's important not to overlook the air quality in the living and sleeping areas where people spend most of their time at home. If a building doesn't permit the installation of a mechanical energy recovery ventilation system because of budget or space constraints, air purifiers offer a more convenient and effective solution to routinely filter and sterilize indoor air as an alternative to mechanical ventilation.



### ENRICHED FRESH AIR

After renovation, indoor building materials, furniture, and adhesives may emit pollutants like radon, benzene, or formaldehyde, and the emissions can last up to ten years. Cooking fumes, secondhand smoke, mold, and odors are just some of the indoor sources that constantly threaten the health of those inside.

Fresh air systems accelerate indoor air circulation and effectively reduce indoor CO2 levels by continuously introducing treated, fresh, clean, and comfortable air into indoor spaces. The positive pressure function prevents outdoor polluted air from infiltrating indoors through building gaps, while the bypass function allows for the enjoyment of outdoor natural air comfort during the spring and fall seasons. Some two-way ventilation systems with heat recovery capabilities can simultaneously introduce fresh air and expel indoor stale air outdoors, speeding up airflow, and reducing energy consumption.



### DEHUMIDIFICATION AND TEMPERATURE CONTROL

Airwoods' heat pump energy recovery ventilator combines full heat recovery with a DC inverter air conditioning system using patented technology, creating a unique two-way ventilation heat recovery system for customers. This system achieves whole-house air purification, dehumidification, and automatic adjustment of fresh air temperature. The coefficient of performance (COP) can exceed 6, providing more comfortable and energy-efficient air.



## 02 Energy Recovery

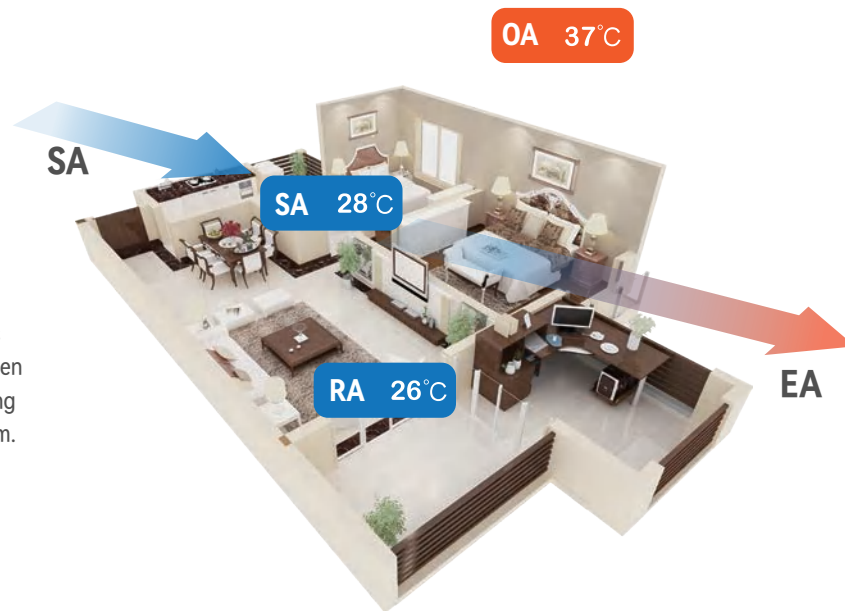
Utilizing the cold or heat from the exhaust air to pre-cool or pre-heat the fresh air helps reduce energy consumption and improve indoor comfort for occupants. Airwood's patented heat recovery technology can achieve a heat exchange efficiency of up to 90%.



**SUMMER**

### Cooling:

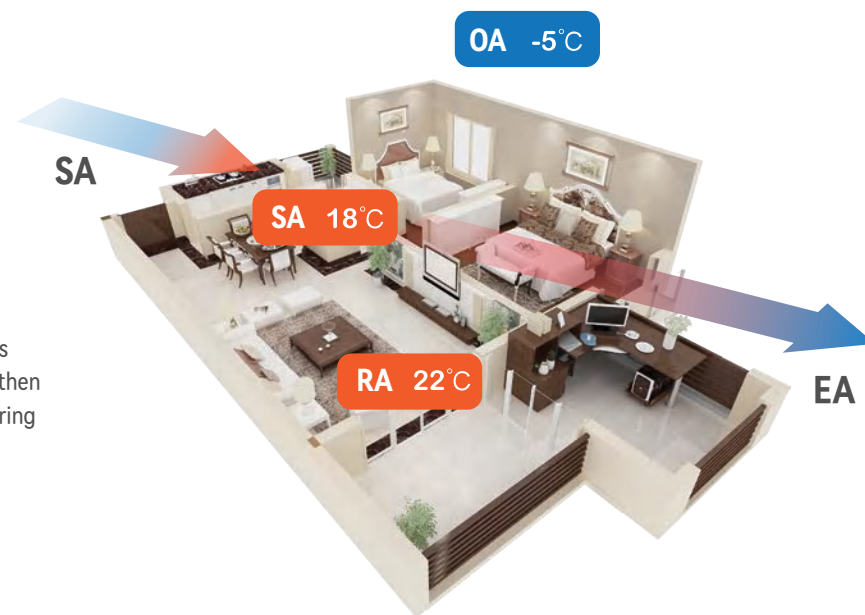
In summer, the ERV/HRV precools fresh air from 37°C to 28°C and then introduces to indoor area, lowering the working capacity of AC system.



**WINTER**

### Heating:

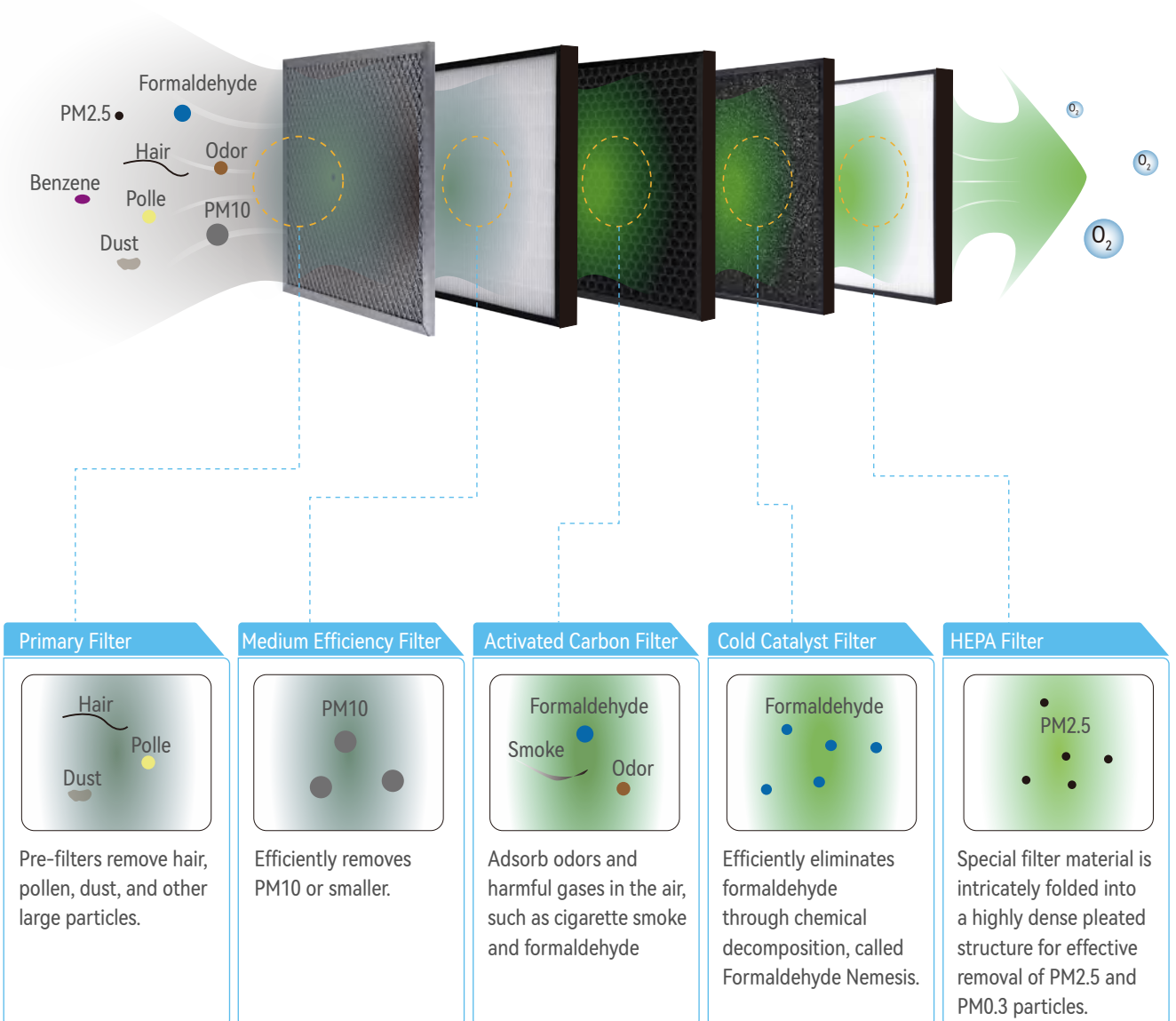
In winter, the ERV/HRV preheats fresh air from -5°C to 18°C and then introduces to indoor area, lowering the impact to indoor humidity.



## 03 Efficient Purification and Disinfection

### ► MULTIPLE FILTRATION FOR OPTIONS

The rational combination and free configuration of pre-filters, medium-efficiency filters, activated carbon filters, cold catalytic converters, and high-efficiency filters effectively remove various pollutants and achieve a purification efficiency of over 99%. Simultaneously, it reduces system resistance and minimizes fan power consumption while achieving optimal purification outcomes.



\* The filter unit combination of the model is subject to the actual machine.



UNIQUE DP DISINFECTION AND STERILIZATION TECHNOLOGY

DP Technology

Disinfection & Sterilization



World Health Organization



Food and Agriculture Organization of the United Nations

Protecting Health



Patented sterilization technology


In the United States



DP TECHNOLOGY USES POSITIVE POLARITY TO CAPTURE, INACTIVATE, AND ERADICATE VIRUSES, BACTERIA, MOLDS, FUNGI, AND POLLENS.

DP TECHNOLOGY is a plant-based material that has been approved safe by the World Health Organization and the Food and Agriculture Organization of the United Nations.





Research has shown that  
DP Technology material eliminates viruses in as little as 5 minutes.

DP Technology

5 min

UVC

25 min

SILVER ION

30 min

COPPER ION

45 min

ISO STANDARD CONTACT TIME

60 min

BIPOALR IONIZATION

120 min

DTSACI

360 min

BIPOALR IONIZATION

480 min

JUST 5 min

Kill 98% of COVID-19 (SARS CoV 2)

5X FASTER than UVC light

Air purification system with DP Technology filter protection

- Superior to other similar products -

Time to eliminate 99.99% of viruses (mins)

Item	Filtration system	DP Technology	HEPA	UVC	ISO IONIZATION
Captures Viruses Microorganisms And Pollens*		✓	✓	×	×
Eradicates Viruses Microorganisms And Pollens*		✓	×	✓ Takes longer time, less effective in fast airflow environments	×
Investment costs		LOW	LOW	LOW	HIGH
Maintenance costs		LOW	LOW	MIDDLE UVC lights have a short service life and cause system components to age more quickly.	HIGH High voltage system need to maintain every two years with high costs
Safety		HIGH Safe and non-toxic Authoritative organization certification	MIDDLE Residual biofouling of filters may lead to secondary contamination	HIGH Direct exposure easily causes cancer and eye damage, as well as accelerated filter degradation.	LOW May emit ozone, which is harmful to the lungs and increases harmful VOCs.

\* Based on third-party studies, commercial installations, and internal testing.

04 Simple, Quiet, Energy-Efficient

- SIMPLE INSTALLATION

Most of the ventilators can be installed indoors without the need for scaffolding or outdoor operations. Even the Eco-Pair ERV can be wirelessly linked for control, allowing multiple units to work simultaneously without affecting the interior decoration.
- HIGH-EFFICIENCY, LOW-NOISE FANS

Airwoods uses high efficiency, low noise fans and equips many products with energy efficient, low power consumption EC motors, which are not only safe and environmentally friendly but also help to save costs



ENERGY EFFICIENT, SAFE, AND ENVIRONMENTALLY SUSTAINABLE

EC motor with built-in thermal overload protection. Quiet running, reduced noise, energy efficiency, and safety.

6w

Running power

kw.h/D

0.228

Power consumption



High-strength ball bearings  
Longer service life

SILENT OPERATION

No sleep disturbance, quiet and comfortable.

< 12db(A)

Sleep mode

< 32db(A)

At high speed







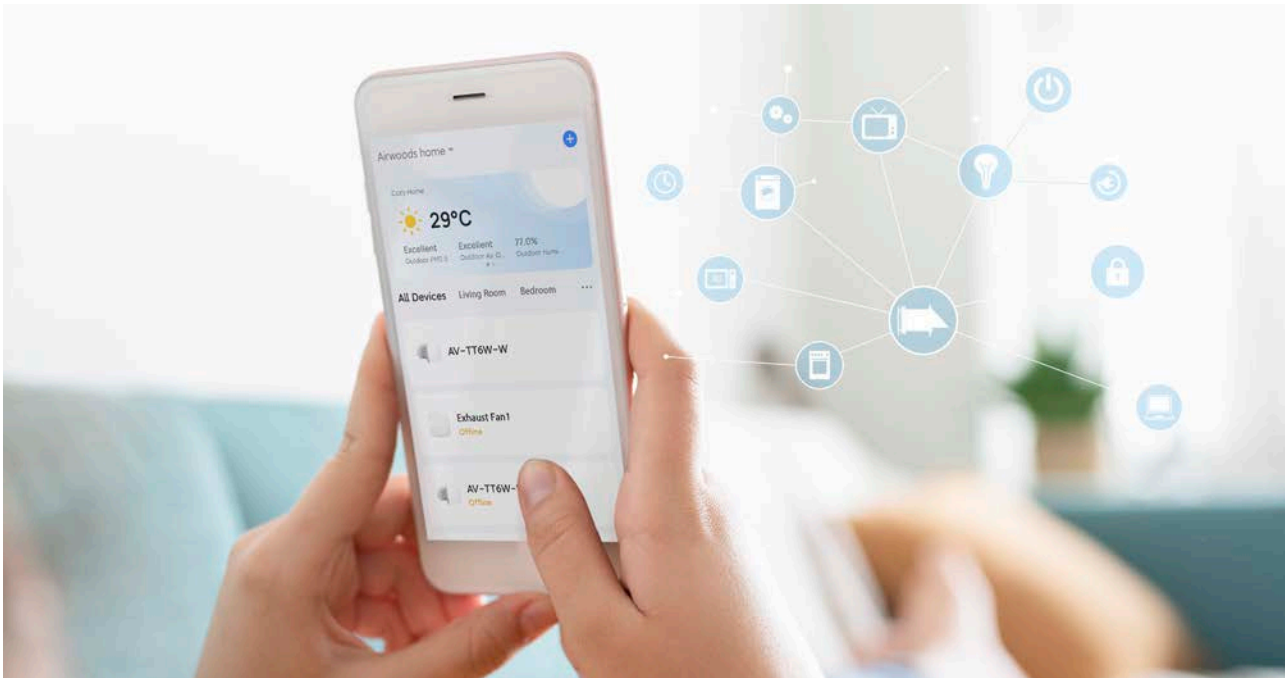
05 Smart Control

Multiple control options are at hand, comprising LCD controllers, electronic controls with touchscreens, remote controls, mobile app remote controls, and central display and control.



RICH CONTROL FUNCTIONS

User-friendly control features include manual and automatic operation, indoor temperature and humidity readings, indoor air quality monitoring, timer mode, filter cleaning reminders, RS485 communication, and wireless connectivity. WiFi control allows for group and scene control, as well as the ability to integrate with other home appliances for IoT-connected control.


























DIVERSE SAFETY MEASURES

Creating a complete and reliable electrical protection system to prevent damage to motors and electrical components during abnormal power conditions. The residential series includes child safety locks and automatic power shutdown when the door is opened to prevent personal injury.

Some products are designed with features such as anti-tilt, child lock, and automatic power-off when the door is opened. The exact control features of each product may vary. Please see product details for more information.



PRODUCT RANGE OVERVIEW

Model	Installation Type	Main Features	Photo	Air Volume									
				0-100	150	250	350	500	650	800	1000	1500	2000
Single Room Series ERV													
AV-TTW6	Through Wall												
AV-TTW6-W													
AV-TTW5-W													
Eco Clean Series ERV													
ERVQ-B150-1B1	Wall Mounting												
AV-EW15													
ERVQ-L300~L600	Floor Standing												
AV-EC50~150	Ceiling Mounting												
Comfort Fresh Series ERV													
CFA250-350T	Wall Mounting												
CFA150-2000C	Ceiling Mounting												
Heat Pump ERV													
AC-HTPF30/EI	Floor Standing	 											
Air Purifier													
AP-F18/H~F100/H	Plug and Play	/											
Supply and Exhaust Fans													
AV-C138~C366	Through wall or ceiling	/											

R Heat Recovery    H Heating    P Heat Pump System





**97<sup>up to</sup>%** Regeneration Efficiency

Suitable for **10~20 m<sup>2</sup>** rooms

# ECO-PAIR SINGLE ROOM ENERGY RECOVERY VENTILATOR

Eco-Pair single room energy recovery ventilator is an innovative ventilator with one single pipe to supply fresh air and exhaust stale air every 75s alternately. The energy can be stored in the ceramic energy regenerator and released to the fresh air via ventilation, the efficiency is up to 97%. It can be installed completely from inside without the need for any scaffolding on high buildings. It has excellent acoustic performance, reducing noise from outside and the energy consumption is less than an LED bulb.

Elegant front panel

Reversible fan

Auto shutter

Optional F7 (MERV11) filter

Silent operation

Installation can be done internally

CO2 / Humidity monitor

Mold prevention

Wireless pairing operation

Wifi and IOT

AV-TTW5-W

AV-TTW6/AV-TTW6-W

## WIRELESS OPERATION IN PAIR TO ENSURE BALANCED VENTILATION

- No Extra Controller
- No Wiring
- No Impact On Decoration



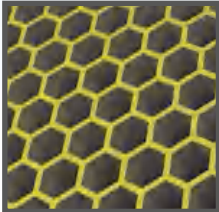
### ▶ REVERSIBLE DC FAN

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. The fan of AV-TTW5-W is installed inside the duct for silent operation.



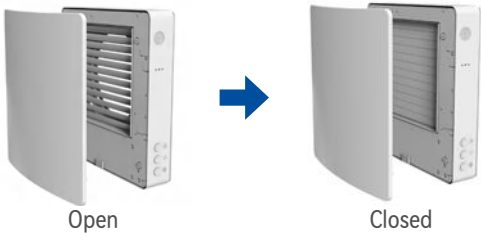
### ▶ CERAMIC ENERGY REGENERATOR

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



### ▶ AUTO SHUTTER

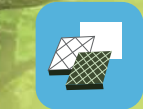
Auto shutter can prevent the insects entering and the cold air flowing backward when the unit stops. The outer hood can prevent rain draining back and birds nesting.



Model	AV-TTW5-W	AV-TTW6/AV-TTW6-W
Voltage	100V-240V AC 50-60Hz	100V-240V AC 50-60Hz
Air Flow in Supply/Exhaust mode(L/M/H))(CMH)*	20/40/50	26/55/64
Air Flow in Supply/Exhaust mode(L/M/H)(CFM)*	11.8/23.5/29.4	15.3/32.4/37.8
Current (A)	0.06	0.06
Noise (3m) dB(A)	≤31	≤31.9
Max RPM	2200	2000
Regeneration Efficiency (%)	≤97	≤97
Ingress Protect Rating	IPX4	IP22
SEC Class	A	A
Diameter of Duct (mm)	158	158
Product Size (mm)	239.6x258x499.7 (The length of duct in wall is 280-470 mm)	205x205x419 (The length of duct in wall is 230-420 mm)
Weight (kg)	4.2	3.4
WIFI Function	√	Optional
CO2 Sensor	√	×
F7 Filter (MERV11)	√	Optional



WALL  
MOUNTED  
ENERGY  
RECOVERY  
VENTILATOR



Multiple HEPA  
purification of 99%



Indoor & outdoor  
air filtration



High efficiency heat &  
humidity recovery



Silence  
operation



High efficiency  
fans with DC  
motors



Remote control



Air quality index  
(AQI) monitoring



Indoor slight  
positive pressure

Fresh Air  
+Energy Recovery  
+Purification

- Multiple HEPA purification of 99%
- Indoor&outdoor air filtration
- High efficiency heat and humidity recovery
- Indoor slight positive pressure
- High efficiency fan with DC motors
- Air quality Index(AQI) monitoring
- Silence operation
- Remote control

Innovative Multiple Filtration



Model	ERVQ-B150-1B1(H01)	ERVQ-B150-1B1(H02)
Air quality display	PM2.5, Temperature and Retilative Humidity	CO2, Temperature and Retilative Humidity
Supply airflow (m³/h)	150	
Fresh airflow (m³/h)	100	
Fan speed	DC, 8 Speeds	
Filtration efficiency (%)	99% HEPA	
Enthalpy efficiency (heating) (%)	58	
Enthalpy efficiency (cooling) (%)	52	
Transported air temperature (°C)	-15~+40	
Operational mode	Manual / Auto / Timer / Sleep	
Control	Touch Screen Panel / Remote Control/WiFi Control	



# ECO

## CLEAN HEATING AND PURIFICATION VENTILATOR



FRESH AIR



PURIFICATION



HEATING

Suitable for  
20~50 m<sup>2</sup>  
rooms

10-25 °C  
Temperature  
rise

Protected  
by DP  
disinfection  
technology



### ► FEATURES



H13+ DP HEPA filter for air disinfection



Installation can be done internally only



Silent operation



Smart phone control Android/IOS



Low energy costs



Positive pressure



Intelligent control



High efficiency DC motor

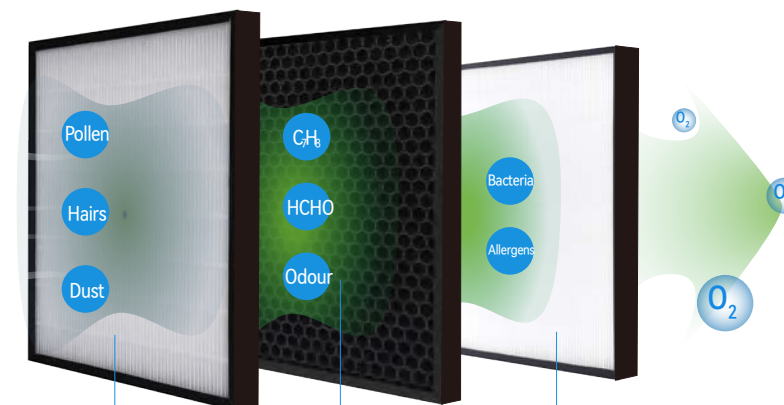


Multiple running mode



Indoor air quality monitor

### ► FAST DISINFECTION AND HIGH EFFICIENT PURIFICATION



Primary filter

Carbon filter for odor adsorption

Optional composite H13+DP filter for air disinfection

### ► CONTROL & FUNCTIONS



Timer



Filter Alarm



Air Mixing Mode



Ventilation Mode



Oxygen Mode



Recirculation Mode



Air Quality  
Monitoring



Scene Control



Heating



Humidity  
Display



Group Control



CO2  
Control



Smart Control  
According  
to Local Weather



Work with Alexa  
and Google  
Assistant



Sleeping  
Mode



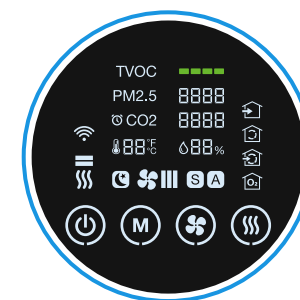
Auto Mode



Fan Boost  
Function



Multiple  
Linkage Control



Model: AV-EW15			
Max. Airflow (m <sup>3</sup> /h)	180	Product Size (mm)	600*350*170
Rated Airflow (m <sup>3</sup> /h)	150	Weight (kg)	20
Diameter of Duct (mm)	110	Rated Voltage (V)	220
Rated Frequency (Hz)	50/60	Rated Power (W)	23
Electric Heating Power (W)	500/1000	Noise dB(A)	40





# ECO-CLEAN VERTICAL ENERGY RECOVERY VENTILATOR

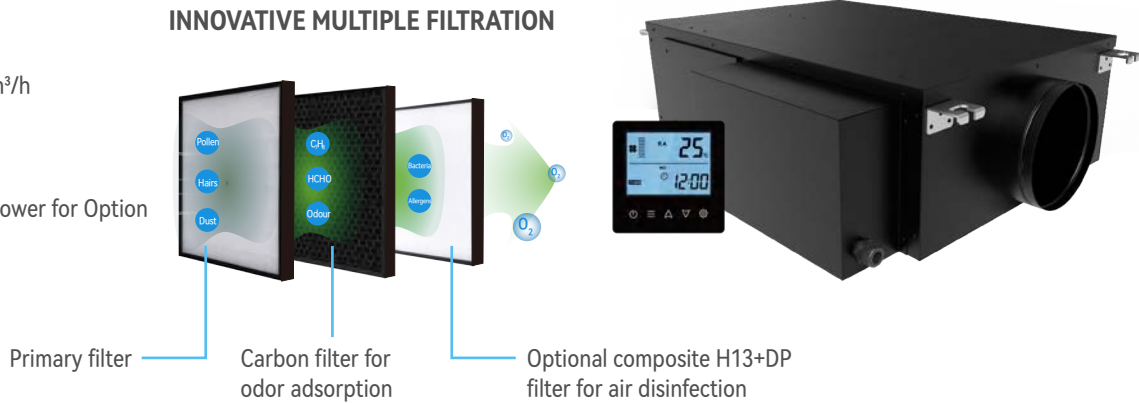
- Multiple filtration
- 99% HEPA filtration
- Slight positive indoor pressure
- Colorful design
- High efficiency energy recovery rate
- High efficiency fan with DC motors
- Visual management LCD display
- Remote control



Model	ERVQ-L300-1A1F	ERVQ-L600-1A1F
Airflow (m³/h)	300	600
Suitable Room Size (m²)	50 - 120	100 - 240
Size (L*W*H) (mm)	560*410*1580	560*460*1700
Air quality display	PM2.5, Temp & R.H	
Fan Speed	DC, 8 Speeds	
Filtration mode	Pm2.5 purify / Deep purify / Ultra purify	
Filtration efficiency (%)	99% HEPA	
Temperature Efficiency (%)	82	
Operational Mode	Manual / Auto / Timer / Sleep	
Control	Touch Screen Panel / Remote Control	

# ECO-CLEAN FRESH AIR HEATER BOX

- Multiple filtration
- Airflow 500-1500 m³/h
- DP filter optional
- EC fans
- Different Heating Power for Option
- Smart Controller



Model	AV-EC50	AV-EC90	AV-EC120	AV-EC150
Airflow (m³/h)	500	900	1200	1500
Input Power (W)	170	180	220	240
Optional Heating Power (kW)	1.7/3.4	2.4/5/9	5/9	6/9/15
Noise dB(A)	40	40	45	50
Product Size (mm) L*W*H	720*600*230	830*600*300	1000*850*350	1000*880*350
Packing Size (mm) L*W*H	880*640*340	1015*640*340	1240*890*390	1240*890*390





# COMFORT FRESH AIR HEAT RECOVERY VENTILATOR

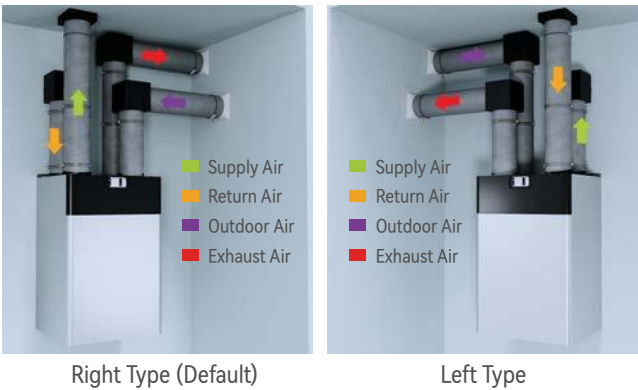
Airwoods Comfort Fresh Air HRV brings in outdoor fresh air and creates a healthy living environment with oxygen, comfortable temperature and humidity. The efficiency of the built in plastic counterflow heat exchanger is up to 95%. It is suitable to be installed in cabinet, machine room, etc., the constant EC fans supply constant air volume despite the filters are dirty. It is a perfect ventilation system for residential application.

- Counterflow Heat Exchanger
- Efficiency up to 95%
- EC Constant Fans
- Left or Right Installation
- Standard 100% Bypass
- Eco-design A or A+
- Enthalpy Exchanger Available
- EPP Structure
- Intelligent Control
- Android / IOS APP



## FLEXIBLE INSTALLATION

Left type or right type is optional. The installation type can be adjusted at site to meet different installation requirements.



## CASING

The internal structure is made by EPP material, which is light weight, heat preserve, silent, environmental friendly, no odor, etc. It has the good performance for air tightness and thermal insulation.



## HIGH EFFICIENT CROSS COUNTERFLOW HEAT EXCHANGER

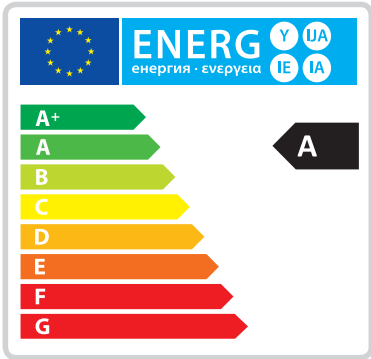


## LOCAL CONTROL PANEL

There are two control panels on the machine body. Panel 1 is for daily simple settings and Panel 2 is for advanced parameter setting.



## ENERGY EFFICIENCY CLASS OF A OR A+ ACCORDING TO EU NO. 1254/2014



## EC CONSTANT AIRFLOW FANS

Application of the unique constant airflow fans guarantees the preset air flow rates and the balance between supply and extract air. Balanced ventilation always guarantees high efficiency, independent of the resistance in the duct system or dirty filters. It also saves time when commissioning the system.



Model	CFA 250T	CFA 350T	CFA 500T
Rated Airflow (m³/h)	250	350	500
External Pressure (Pa)	130	150	160
Temperature Efficiency (%)	95	95	95
Noise dB(A)	35	37	39
Voltage (V)	230	230	230
Input Power (W)	137	272	412
N.W. (kg)	40	40	50





# COMFORT FRESH AIR CEILING ENERGY RECOVERY VENTILATOR

Comfort fresh air energy recovery ventilator is a new ventilation device that integrates air filtration and energy recovery. Composed of heat exchangers, filters, plastic-encapsulated DC fans and intelligent control system, it can effectively improve indoor air quality, increase indoor oxygen content, and at the same time greatly reduce the power load of indoor air-conditioning equipment, with high efficiency and energy saving.

- DC Fan
- 10 Speeds
- High ESP
- Auto Bypass
- 5th Generation Heat Exchanger
- New EPS Inner Structure
- Optional SA/EA Air Direction
- Occlusal Edge Sealing Technology
- Intelligent Control
- Wifi and IOT



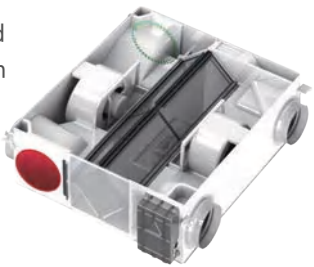
## ▶ PLASTIC-ENCAPSULATED DC FANS

The CFAC series ERV are built in plastic encapsulated brushless DC motor, which has higher processing precision and stable operation. Compared with traditional DC motor, the energy saving is up to 40%, resulting in lower power consumption, larger air volume and higher ESP.



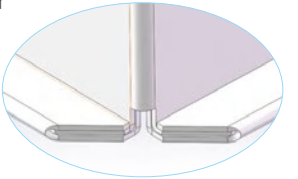
## ▶ NEW EPS INNER STRUCTURE

Good thermal insulation, sealing and sound insulation. Central fans design make the better distribution of supply air and exhaust air, heat exchange of the core is more sufficient.



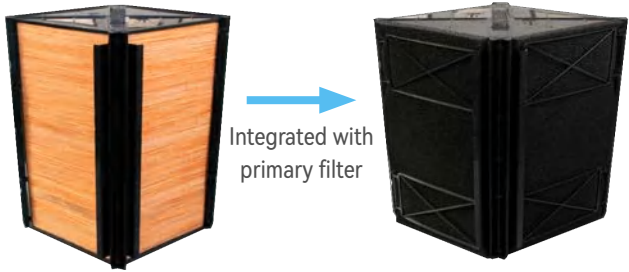
## ▶ NEW PROCESSING TECHNOLOGY

Occlusal edge sealing technology, stronger casing strength, greatly reduce the screws, and improve the appearance.

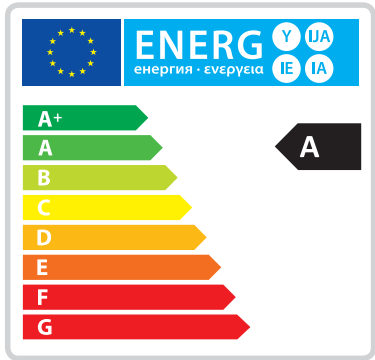


## ▶ THE 5TH GENERATION ENTHALPY HEAT EXCHANGERS

5th generation thinner membrane, with better thermal conductivity and higher heat exchange efficiency. Resin installation rail, simple structure, good sealing performance. Integrated with primary filter and optional medium filter installation rail.



## ▶ ENERGY EFFICIENCY CLASS OF A OR A+ ACCORDING TO EU NO. 1254/2014



Model	CFA 150C	CFA 250C	CFA 350C	CFA 500C	CFA 650C	CFA 800C	CFA 1000C	CFA 1500C	CFA 2000C
Rated Airflow (m³/h)	150	250	350	500	650	800	1000	1500	2000
External Pressure (Pa)	95	85	160	120	120	150	170	175	150
Enthalphy Efficiency (%)	Cooling	71-79	68-83	71-82	67-82	66-81	70-81	71-86	71-81
	Heating	73-79	70-83	72-84	69-83	69-82	71-82	73-87	72-82
Temperature Efficiency (%)	80-84	79-86	80-89	78-87	77-86	79-85	80-90	80-85	80-90
Noise dB(A)	41	42	48	49	51	54	56	59	60
Voltage (V)	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240
Input Power (W)	58	62	140	165	252	335	420	670	850
N.W. (kg)	20	23	30	33	38	48	54	105	117





► EC FANS

To save energy and meet the ERP2018 standard, it's built with the forward EC motors with 0-10 Voltage control. It has 10 speeds and is featured by small vibration, low noise, energy-saving, and longer service life.



► BYPASS

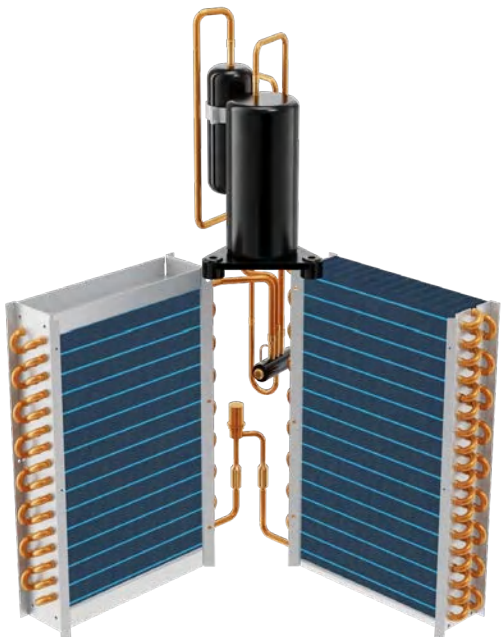
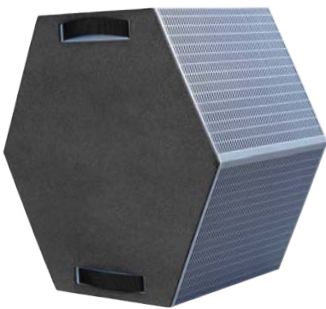
In summer, the 100% bypass contributes to improved comfort and it is controlled automatically on the basis of the measured outdoor temperatures.

► DC INVERTER COMPRESSOR

It comes from the well-known brand GMCC. It compresses and expands refrigerant to transfer heat between the outdoor and indoor air streams. It is DC inverter type which can adjust its speed and output according to the load demand, ensuring energy saving performance and low noise level. It can also operate in a wide temperature range of -15°C to 50°C. Both R32 and R410a refrigerant available.

► CROSS-COUNTERFLOW ENTHALPY HEAT EXCHANGER

It can transfer heat and moisture between the outdoor and indoor air streams without mixing them. It can recover up to 80% of the energy from the exhaust air, reducing the heating or cooling load on the compressor. It is washable and easy to maintain. It has a life time of up to 15 years.



# DC INVERTER HEAT PUMP ENERGY RECOVERY VENTILATOR

DC Inverter Heat Pump ERV offers air volume of 300 cubic meters per hour, which can meet the ventilation needs of 80-150 m<sup>2</sup> residential houses, villa, hotel, office etc.

If you are fed up with limited space in the house by adding traditional ventilation unit, dehumidifier, air purifier, split type heat pump etc, let's try one DC inverter heat pump ERV system. It is available to install in the attic, basement, cabinet in the kitchen etc which take up limited space.

Suitable for  
**50~200 m<sup>2</sup>**  
rooms  
both on  
cooling/heating  
and fresh air



-   
Purification
-   
Energy Recovery
-   
Cooling/Heating
-   
Dehumidification
-   
COP > 6
-   
DC Inverter
-   
Silent Operation
-   
Wide Working Conditions
-   
Indoor Air Quality Monitoring
-   
Wifi and IOT

Model	AC-HTPF30/EI	AC-HTPF30/EI 32
Rated Airflow (CMH)	300	300
Exhaust Airflow (Ventilation Mode) (CMH)	300	300
Exhaust Airflow (Heating/Cooling Mode) (CMH)	350	350
External Static Pressure (Pa)	100	100
Noise dB(A)	37/42	37/42
Power	220 V 1P 50/60 Hz	220 V 1P 50/60 Hz
Dimension (L*W*H) (mm)	760*600*850	760*600*850
Weight (kg)	125	125
Air Inlet/Outlet Diameter (mm)	188	188
Air Inlet/Outlet Height (mm)	60	60
Machine Base Height (mm)	61.5	61.5
Drainage Pipe (Inch)	1/2"	1/2"
Refrigerant	R410A 700 g	R32 450 g
Operation Temperature	-15~50°C	-15~50°C

Ventilation Mode	
Temperature Efficiency (Heating)	76.5%
Temperature Efficiency (Cooling)	72%
Enthalpy Efficiency (Heating)	72.6%
Enthalpy Efficiency (Cooling)	69.4%
Input Power	121 W
Input Current	1.23 A

Cooling/Heating	
Normal Cooling Capacity	3303 W
Max Cooling Capacity	3768 W
Input Power (Cooling)	832 W
Operation Current (Cooling)	5.71 A
Normal Heating Capacity	3964 W
Max Heating Capacity	4768 W
Input Power (Heating)	723 W
Operation Current (Heating)	5.2 A



# AIR DISINFECTION PURIFIER

► **MULTI-STAGE FILTERS WITH DISINFECTION FUNCTION BY DP TECHNOLOGY**  
Special layer of filtration material integrated with the DP technology HEPA and carbon filter system.



- ① **Washable Pre-Filter**  
Eliminates lint, hair, pet fur.
- ② **H13 True HEPA Filter**  
Eliminates fine dust, pollen, smoke particles, pet dander.
- ③ **High-Efficiency Activated Carbon Filter**  
Eliminates pet odor, cooking fumes, smoke, etc
- ④ **DP Filter**  
Arrests, inactivates, and eliminates viruses and bacteria by 99.9% and is approved safe by international authorities.

**5x**  
**FASTER**  
than UVC light  
Kill 98% of COVID-19 (SARS CoV 2) in just 5 minutes



► **DP TECHNOLOGY WORKS VIA POLARITY**



► **VIRUS REMOVAL EFFICIENCY**

**99.6 %**

COVID-19  
30 MINUTES

**99.9 %**

HUMAN  
CORONAVIRUS  
5 MINUTES

**99.9 %**

H1N1  
2 HOURS

**99.9 %**

STAPHYLOCOCCUS  
ALBUS  
2 HOURS

Model	AP-F18/H	AP-F50/H	AP-F60/H	AP-F80/H	AP-F100/H
Photo					
Power (W)	24	60	55	80	85
CADR (H11+DP) (m³/h)	185	500	-	-	-
Formaldehyde CADR (H11+DP) (m³/h)	50	130	-	-	-
CADR (H13+DP) (m³/h)	150	460	600	800	1000
Formaldehyde CADR (H13+DP) (m³/h)	40	128	260	350	450
Unit Demension (cm)	20.5×20.5×38.5	32*32*65.7	35.6*35.6*60.1	35.6*35.6*67.1	37.5*39.8*77.5
Fan Speed	3	4	6	6	6
Noise (Max.) dB (A)	≤60	≤ 65	≤ 68	≤ 68	≤ 68
Motor	DC motor	BLDC motor	Japan BLDC motor	Japan BLDC motor	Japan BLDC motor
Ion Release	√	√	√	√	√
Auto Mode	×	√	√	√	√
Sleep Mode	×	√	√	√	√
LED Display	×	√	√	√	√
PM2.5 Sensor	×	√	√	√	√
WIFI	×	√	√	√	√
Timer	×	√	√	√	√
Night Light	√	×	×	×	×
Filter Alarm	√	√	√	√	√
ChildLock	×	√	√	√	√
Dumping Protection	×	√	√	√	√



SUPPLY & EXHAUST FAN

Product Name	Picture	Model	Airflow (m³/h)	Power (W)	Static Pressure (Pa)	Noise dB(A)	Pipe Diameter (mm)
90° Supply Fan		AV-C145-DA	145	11.2	61	30	100
Exhaust Fan		AV-C138-DB	138	3.8	42	37	150
		AV-C246-DB	246	4.5	20	36	190
Ducted Exhaust Fan (Platic Type)		AV-C182-DD-P	182	8.4	82.7	32.8	100
Ducted Exhaust Fan (Metal Type)		AV-C156-DD-M	156	12.5	155	41	100
		AV-C366-DD-M	366	27.3	242	45	150
WIFI Touch Screen Panel		ZSTY-SM-11W-EU	<div><div> Remote Control</div><div> Running Status Display</div><div> Weekly timer</div></div> <div><div> Speech control</div><div> Linkage control</div><div> Scene control</div></div> <div>Support TUYA APP, Able to connect to Alexa and Google Home devices in the home Wi-Fi network for speech control.</div>				

ACCESSORIES LIST

Product Series		Primary Filter	PM2.5 Filter	Activated Carbon	Medium Filter	H10 Filter	H11 Filter	H13 Filter	DP Filter	Bypass	PM2.5 Sensor	CO2 Sensor	Humidity Sensor	WiFi Module
Single Room ERV	AV-TTW6	√	×	×	Δ	×	×	×	×	×	×	×	×	×
	AV-TTW6-W	√	×	×	Δ	×	×	×	×	×	×	×	×	√
	AV-TTW5-W	√	×	×	√	×	×	×	×	×	×	√	Δ	√
Eco-Clean	ERVQ-B150-1B1	√	×	√	√	√	×	Δ	Δ	×	Δ	Δ	√	√
	ERVQ-L300-1A1	√	×	√	√	√	×	Δ	Δ	×	√	×	√	×
	ERVQ-L600-1A1	√	×	√	√	√	×	Δ	Δ	×	√	×	√	×
	AV-EW15	√	Δ	Δ	Δ	√	Δ	Δ	Δ	×	Δ	Δ	Δ	Δ
Comfort Fresh Air	CFAC Series	√	Δ	×	Δ	Δ	×	Δ	Δ	√	×	Δ	Δ	Δ
	CFA Series	√	Δ	×	Δ	Δ	×	Δ	Δ	√	×	Δ	√	Δ
Heat Pump ERV	AC-HTPF30/EI	√	Δ	Δ	√	Δ	Δ	Δ	Δ	√	Δ	Δ	Δ	√
	AC-HTPF30/EI 32	√	Δ	Δ	√	Δ	Δ	Δ	Δ	√	Δ	Δ	Δ	√
Air Disinfection Purifiers	AP-F18/H	√	×	√	×	×	×	√	√	×	×	×	×	×
	AP-F50/H	√	×	√	×	×	√	Δ	√	×	√	×	×	√
	AP-F60~100/H	√	×	√	×	×	×	√	√	×	√	×	×	√
Supply/Exhaust Fan		×	×	×	×	×	×	×	×	×	×	×	×	Δ

Note: "√" Standard, "Δ" Optional, "×" Not available.



# ADVANCED LCD REMOTE CONTROL PANEL



# CONTROL SYSTEM

Controller						
	B-14000	LH-14130	14002	HDK-CK		
Suitable Series	AV-TTW6 AV-TTW6-W AV-TTW5-W	ERVQ-B150-1B1 ERVQ-L300~L600	AC-HTPF30/EI	AV-EC50~150	AV-EC50~150	CFA250-350T CFA150-2000C
Temp. Display	×	×	OA/RA/SA/FR Temp.			
IAQ Display	×	×	CO2, Humidity, PM2.5, HCHO	CO2, Humidity	CO2, Humidity	CO2, Humidity
Speed Selection	✓	✓	✓	✓	✓	✓
Timer ON/OFF	✓	✓	✓	✓	✓	✓
Bypass	×	×	✓	✓	✓	✓
Comfortable Heater Control	×	×	✓	✓	✓	✓
Defrosting	×	×	✓	✓	✓	✓
Filter Alarm	✓	✓	✓	✓	✓	✓
Fault Alarm	×	×	✓	✓	✓	✓
Sleep Mode	×	✓	×	×	×	✓
Night Free Cooling	Optional	×	✓	✓	✓	✓
BMS Integration	×	×	✓	✓	✓	✓
PM2.5 Control	×	Optional	×	×	×	×
Humidity Control	Optional	×	✓	✓	✓	✓
CO2 Control	Optional	Optional	✓	✓	✓	✓
WiFi Function	Optional	✓	✓	✓	✓	✓

## WIFI FUNCTIONS

- ▶ **MONITORING INDOOR AIR QUALITY**  
Monitor the local weather, temperature, humidity, CO2 concentration, VOC at your fingertips for a healthy life.
- ▶ **VARIABLE SETTING**  
Timer, speed settings, bypass, timer, filter alarm, and temperature control are all available.
- ▶ **GROUP CONTROL**  
One APP can control multiple units.

The app is available on the APP Store and Google PLay.



or





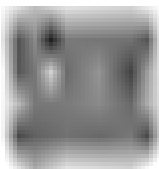


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