



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

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

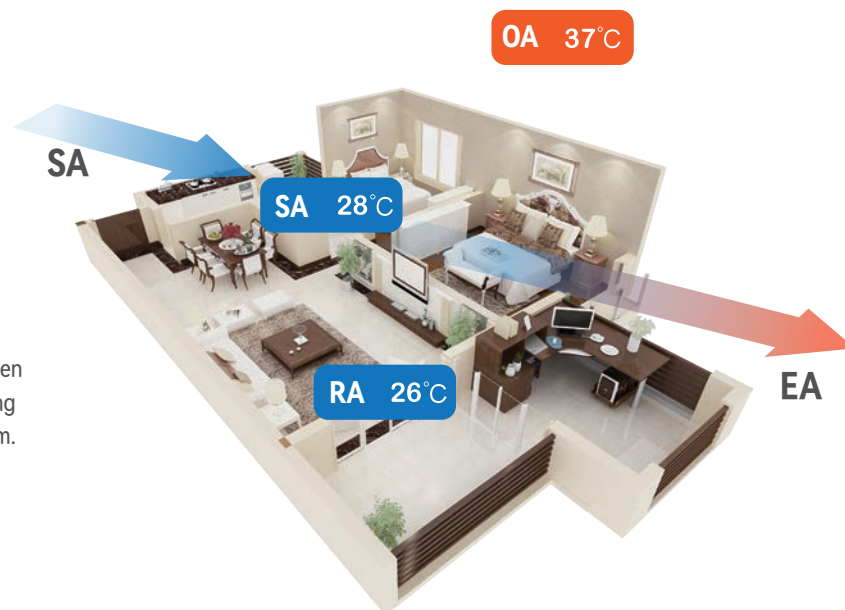
Utilizing the cold or heat from the exhaust air to pre-cool or pre-heat the fresh air helps reduce energy consumption and improve indoor comfort for occupants. Airwood's patented heat recovery technology can achieve a heat exchange efficiency of up to 90%.



SUMMER

Cooling:

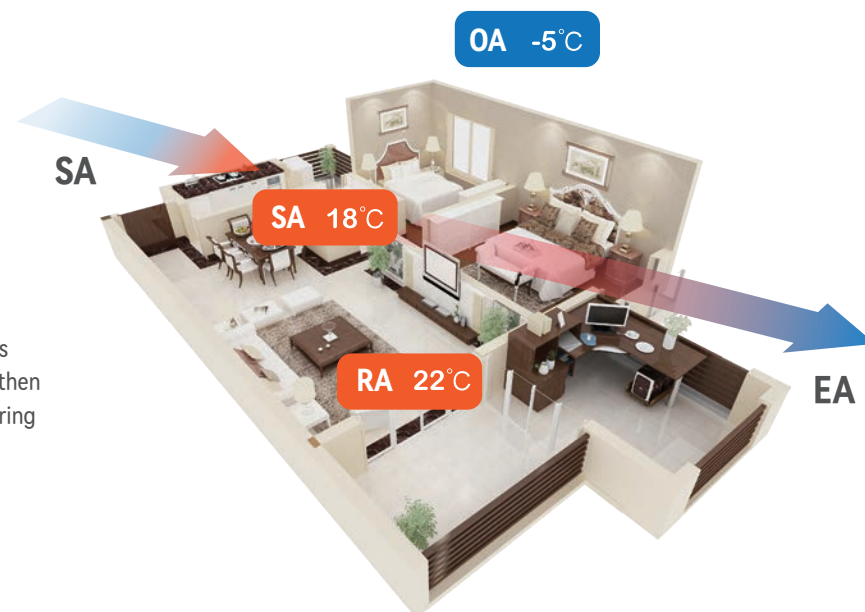
In summer, the ERV/HRV precools fresh air from 37°C to 28°C and then introduces to indoor area, lowering the working capacity of AC system.



WINTER

Heating:

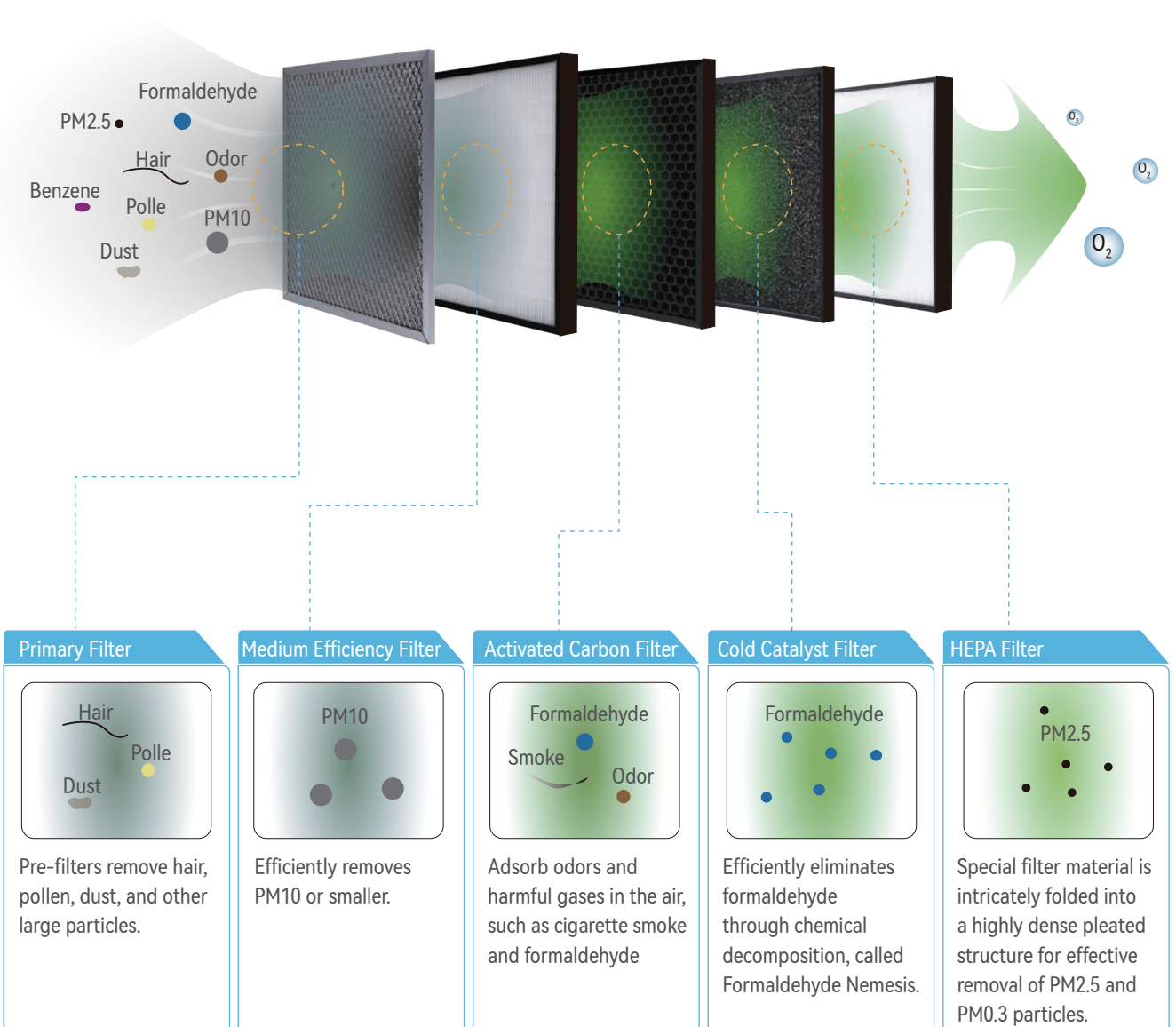
In winter, the ERV/HRV preheats fresh air from -5°C to 18°C and then introduces to indoor area, lowering the impact to indoor humidity.



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

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.

World Health Organization

Food and Agriculture Organization of the United Nations

Protecting Health

Patented sterilization technology In the United States



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

PHOTO-CATALYST 60 min

ISO STANDARD CONTACT TIME 120 min

DTSACI 360 min

BIPOALR IONIZATION 480 min

Time to eliminate 99.99% of viruses (mins)

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 -

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 at low speed

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 (m³/h)										
				0-100	150	250	350	500	650	800	1000	1500	2000	
Single Room Series Ventilator														
AV-TTW6	Through Wall	R												
AV-TTW6-W		R												
AV-TTW5-W		R												
AV-TTW5SC-N7		R												
AV-EW8/DF		H												
AV-TTW6-W S11CIC/ S13CIC1/S13CIC2		/												
Eco Clean Series Ventilator														
ERVQ-B150-1B1		R												
AV-EW15		H												
ERVQ-L300~L600	Floor Standing	R												
AV-EC50~150	Ceiling Mounting	H												
Comfort Fresh Series ERV														
CFA250-500T	Wall Mounting	R												
CFA150-2000C	Ceiling Mounting	R												
Heat Pump ERV														
AC-HTPF35~HTPF90	Floor Standing	R P												
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



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 (MERV13) 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

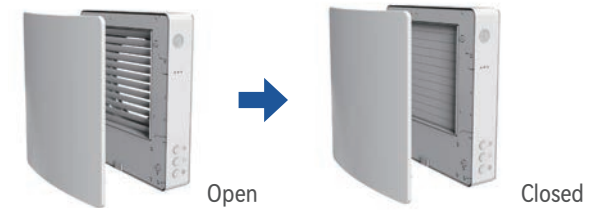
The reversible axial fan is with EC technology. The fan is characterised by low power consumption and silent operation. The fan motor has built-in thermal protection and ball bearings for long life. The fan of AV-TTW5-W is installed inside the duct for silent operation.

HIGH EFFICIENCY 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. The ceramic regenerator is treated with an antibacterial composition to prevent bacterial growth inside. Both honeycomb type and heat storage ball regenerator are optional.

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.



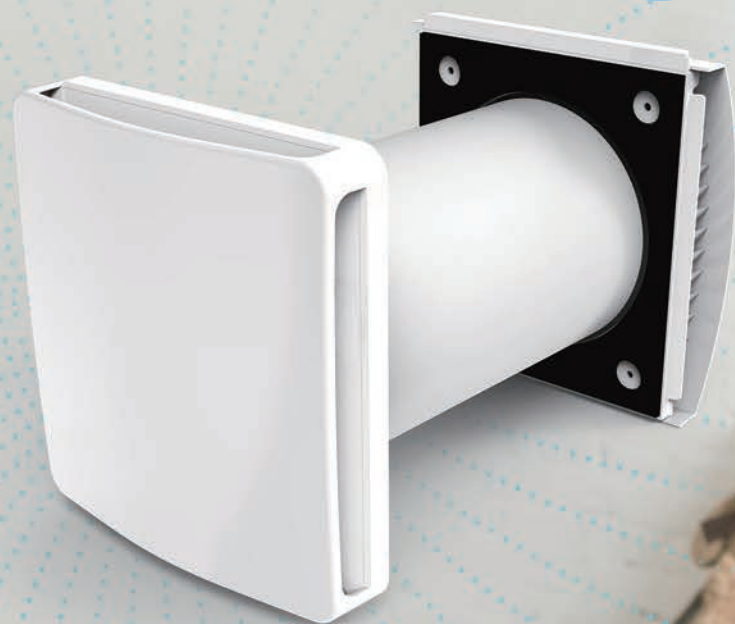
Model	AV-TTW5-W	AV-TTW6/AV-TTW6-W
Voltage	100V-240V AC 50-60Hz	100V-240V AC 50-60Hz
Air Flow in Supply/Exhaust mode(L/M/H))(CMH)*	20/40/50	26/55/64
Air Flow in Supply/Exhaust mode(L/M/H)(CFM)*	11.8/23.5/29.4	15.3/32.4/37.8
Input Power [L/M/L] (W)	6/7/7.8	5.9/8.8/11.3
Current (A)	0.06	0.06
Noise (3m) 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
CO ₂ Sensor	√	×
F7 Filter (MERV13)	√	Optional

*Note: The airflow of AV-TTW5-W 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.

97^{up to}%

Regeneration Efficiency

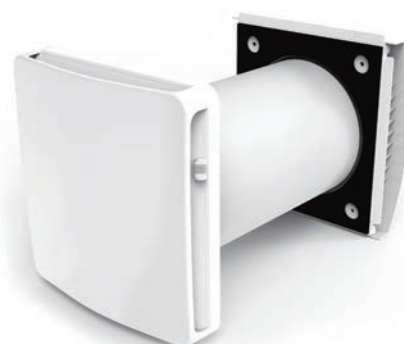
Suitable for 10~20 m² rooms



ECO-LINK SINGLE ROOM ENERGY RECOVERY VENTILATOR

ECO-LINK Single Room Energy Recovery Ventilator offers a compact, highly efficient solution for ventilation in individual spaces, combining fresh air supply with energy-saving technology.

- Elegant Front Panel
- Reversible Fan
- Manual Shutter
- Standard F7 (MERV13) Filter
- Silent Operation
- Installation Can Be Done Internally
- Optional Humidity Monitor
- Mold Prevention
- Wired Linkage Control
- Wifi and IOT



AV-TTW5SC-N7

Wired Linkage for Pairing Operation or Central Control

- Multi-functional control: LCD Controller, WIFI Control or Remote Controller (optional).
- Stable signal with good connection.
- Multiple running modes: Regeneration mode / Exhaust mode / Supply mode / One intake & One exhaust mode.
- Suitable for residential or commercial projects.



► DUCT DC FAN

AV-TTW5SC-N7 uses the duct DC fan for silent operation. It's reversible to supply fresh air and exhaust stale air every 75s alternately. Featured by low energy consumption and long service life.



► WIRED LCD CONTROLLER

Wired LCD Controller AS-WSC01 can be used for a single unit control or pairing control. And the remote control is optional. It has the functions of running mode selection, fan speed control, children lock, filter alarm, backlight off, timer, weekly schedule, holiday setting and optional humidity control. It works with Tuya APP and can connect with Yuya network appliances




Optional


Model	AV-TTW5SC-N7
Voltage	100V-240V AC 50-60Hz
Air Flow in Supply/Exhaust mode(L/M/H))(CMH)*	20/40/50
Air Flow in Supply/Exhaust mode(L/M/H)(CFM)*	11.8/23.5/29.4
Current (A)	0.06
Noise (3m) dB(A)	≤31
Max RPM	1800
Regeneration Efficiency (%)	≤97
Ingress Protect Rating	IPX4
SEC Class	A
Diameter of Duct (mm)	158
Product Size (mm)	230.56x220.56x500 (The length of duct in wall is 373-500 mm)
Weight (kg)	3.2




SINGLE ROOM HEATING AND PURIFICATION VENTILATOR



FRESH AIR



PURIFICATION



HEATING

Fresh Airflow
80 m³/h

25°C
Temperature Rise



Auto Shutter



Fresh Air Supply



DC Fan



Multiple Safety Protection



Energy Efficient



Easy Installation



Silence Operation




Efficient Purification


► TECHNICAL PARAMETERS

Model: AV-EW8/DF			
Fresh Airflow	80 m³/h	Current	2.2 A
Filtration Class	F7	Sound Pressure Level	39 dB(A)
Voltage	200-240 V AC	Duct Diameter	160 mm
Frequency	50/60 Hz	SEC	Class A
Heater Power	500 W	Installation	Wall Mounted
Input Power	8 W	Net Weight	3.7 kg


SINGLE ROOM FRESH AIR PURIFICATION VENTILATOR



Auto Shutter




Fresh Air Supply



DC Fan




Wireless Pairing




Energy Efficient



Easy Installation



Silence Operation




Efficient Purification

► TECHNICAL PARAMETERS

Model	AV-TTW6-W S11CIC	AV-TTW6-W S13CIC1	AV-TTW6-W S13CIC2
Fresh Airflow (L/M/H) (m³/h)	25/45/55	20/35/45	20/35/45
Filtration Class	H11	H13	H13+DP Disinfection Filter
Voltage	100-240V AC	100-240V AC	100-240V AC
Frequency (Hz)	50/60	50/60	50/60
Input Power (W)	12	12	12
Current (A)	0.06	0.06	0.06
RPM (max)	2000	2000	2000
Sound Pressure Level dB(A)	36.7	36.7	36.7
IP Class	IPX2	IPX2	IPX2
Duct Diameter (mm)	159	159	159
SEC	Class A	Class A	Class A
Installation	Wall Mounted	Wall Mounted	Wall Mounted
Net Weight (kg)	3.4	3.4	3.4

OPTIONAL NEGATIVE IONS AIR PURIFICATION FUNCTION



It can work with Airwoods negative ions air purifier to create millions of negative ion to purify the air and keep it clean and fresh. The negative ions are good for health, they can reduce dust, pollen, smoke, bacteria and viruses in the air. Research from the United Nations has confirmed that ecological-grade negative ionizers can actively capture small particles of dust, causing them to condense and precipitate, effectively removes fine dust 2.5 microns (PM2.5) and smaller particles in the air. The smaller the diameter of the flying dust, the easier it is to be precipitated by negative ions.

Here are the test reports showing the removal rate of PM2.5 and bacteria by Airwoods negative ions air purifier.

UPTO 98% Killing Rate Bacterial (Staphylococcus albus 8032)

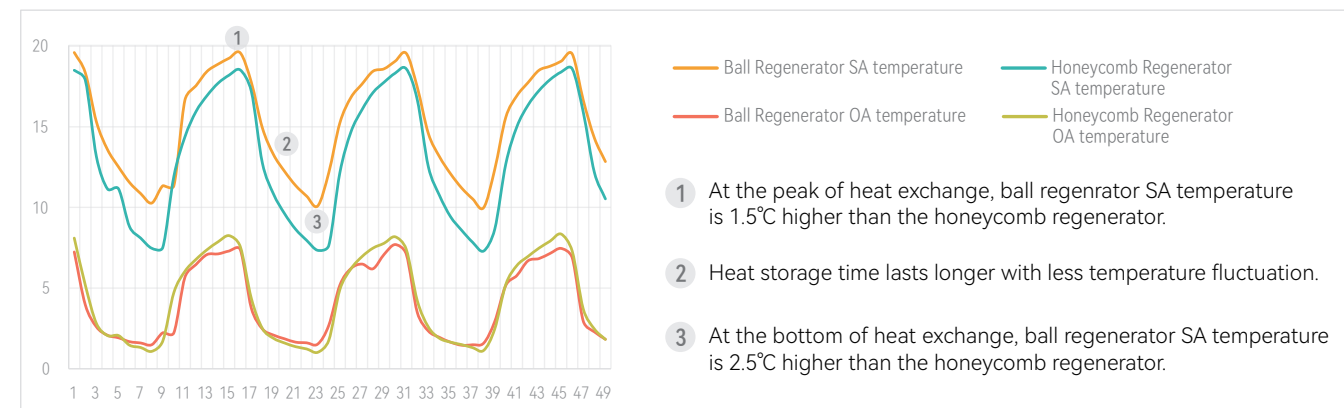
UPTO 99.08% PM2.5 Purifying Efficiency

OPTIONAL HIGH EFFICIENCY HEAT STORAGE BALL REGENERATOR

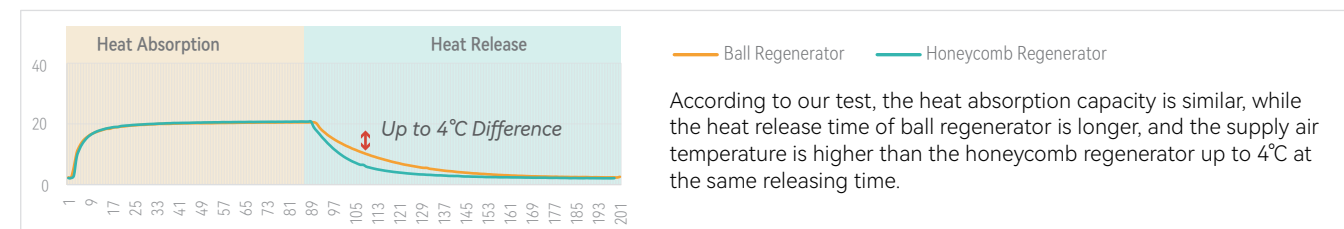


- Washable
- Service life more than 10 years
- Higher heat exchange efficiency with more energy saving
- Adaptable to the trending single room ERV in the market
- Longer heat storage time
- Less temperature fluctuation
- More comfortable supply air temperature
- Patented innovative design
- Easy installation
- Customized design available
- Environment friendly

HEAT EXCHANGE PERFORMANCE COMPARISON



HEAT RELEASE PERFORMANCE COMPARISON



DESIGN CONCEPT FOR SINGLE ROOM ENERGY RECOVERY VENTILATOR

OPTIONAL FRONT PANEL DESIGN





Cloth Design with Different Color

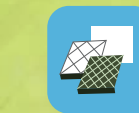


Front Panel with Different Color Painting

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		Smart air quality detector	AS-AQ010Z-1
	Metal outer hood with electrical heater	AS-MHE001		Plastic hood	AS-PSG003 White/ AS-PSG003-B Black
	Metal outer hood	AS-MHN001		White painted metal outer hood for thin walls	AS-MHN002 White/ AS-MHN003 Black
	Plastic square grille	AS-PSG002		F7 (MERV13) filter	AS-F7F001

ECO-CLEAN
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

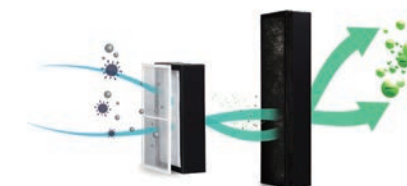


Indoor slight
positive pressure

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 Relative Humidity	CO ₂ , Temperature and Relative Humidity
Supply Airflow (CMH/CFM)	150/88	
Fresh Airflow (CMH/CFM)	100/59	
Fan Speed	DC, 8 Speeds	
PM2.5 Filtration Efficiency (%)	99% HEPA	
Temperature Efficiency (%)	80	
Enthalpy Efficiency (heating) (%)	58	
Enthalpy Efficiency (cooling) (%)	52	
Noise dB(A)	36	
Input Power (W)	35	
Power Supply	110-220V/50-60HZ/1ph	
N. W. (kg)	10	
Diameter of Duct (mm)	85	
Product Size (mm)	450*155*660	
Operational Mode	Manual / Auto / Timer / Sleep	
Control	Touch Screen Panel / Remote Control/WiFi Control	

ECO

CLEAN HEATING and Purification Ventilator



Suitable for
20~50 m²
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

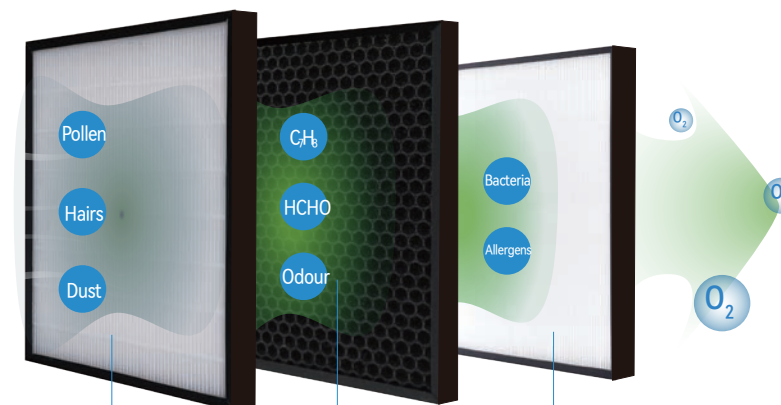


Multiple running mode



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



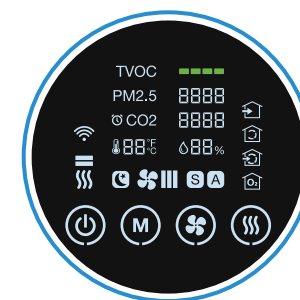
Auto Mode



Fan Boost
Function



Multiple
Linkage Control



Model: AV-EW15			
Max. Airflow (m ³ /h)	180	Product Size (mm)	600*350*170
Rated Airflow (m ³ /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

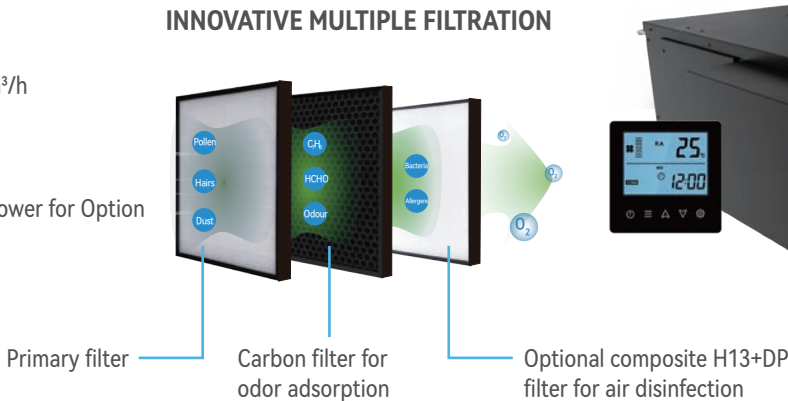
- Multiple filtration
- 99% HEPA filtration
- Slight positive indoor pressure
- Colorful design
- High efficiency energy recovery rate
- High efficiency fan with DC motors
- Visual management LCD display
- Remote control



Model	ERVQ-L300-1A1F	ERVQ-L600-1A1F
Airflow (m³/h)	300	600
Suitable Room Size (m²)	50 - 120	100 - 240
Temperature Efficiency (%)	82	82
Enthalpy Efficiency (Cooling) (%)	57	57
Enthalpy Efficiency (Heating) (%)	62	62
PM2.5 Filtration Efficiency (%)	99% HEPA	99% HEPA
Noise dB(A)	36	36
Input Power (W)	70	125
Power Supply	220V/50Hz	220V/50Hz
N.W.(kg)	55	65
Diameter of Duct (mm)	144	144
Product Size (mm)	560*410*1580	560*460*1700
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

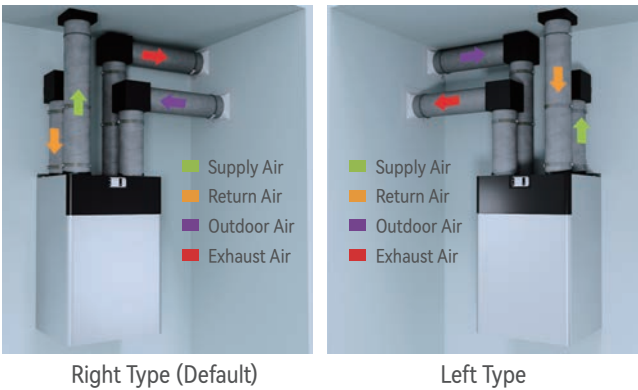
Airwoods Comfort Fresh Air HRV brings in outdoor fresh air and creates a healthy living environment with oxygen, comfortable temperature and humidity. The efficiency of the built in plastic counterflow heat exchanger is up to 95%. It is suitable to be installed in cabinet, machine room, etc., the constant 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



Both sensible and enthalpy cross counterflow heat exchanger are available.

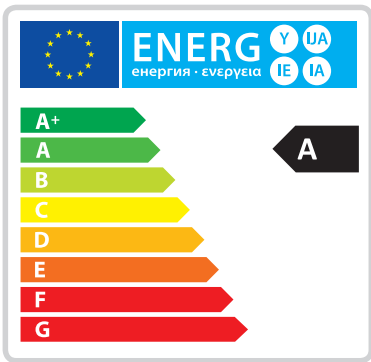
Model	CFA 250T	CFA 350T	CFA 500T
Rated Airflow (m³/h)	250	350	500
External Pressure (Pa)	130	150	160
Max. Temperature Efficiency (%)	95	95	95
Noise dB(A)	35	37	39
Voltage (V)	230	230	230
Max. Power (W)	137	272	412
Diameter of Duct (mm)	144	144	196
Product Size (mm)	595*480*975	595*480*975	655*625*1085
N.W. (kg)	40	40	50

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.








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
- 

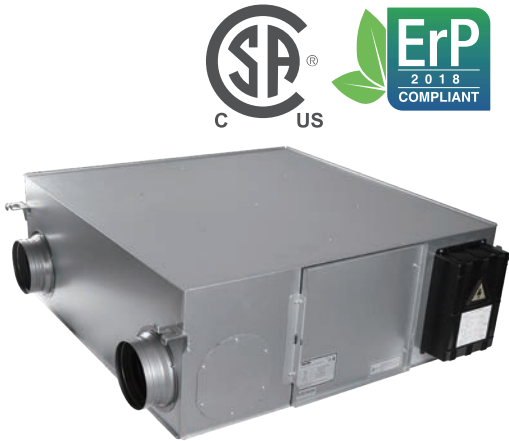
New EPS Inner Structure
- 

Optional SA/EA Air Direction
- 

Occlusal Edge Sealing Technology
- 

Intelligent Control
- 

Wifi and IOT



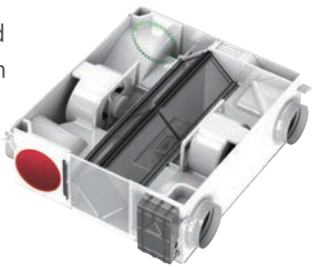
▶ PLASTIC-ENCAPSULATED DC FANS

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.



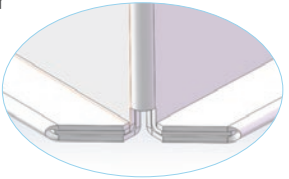
▶ NEW EPS INNER STRUCTURE

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.



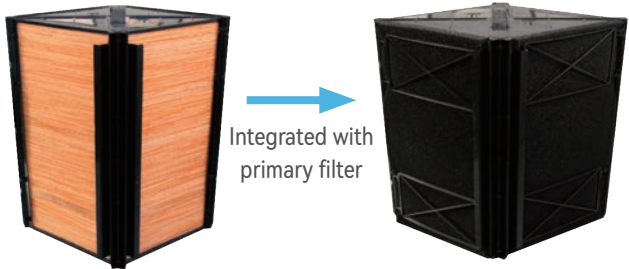
▶ NEW PROCESSING TECHNOLOGY

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

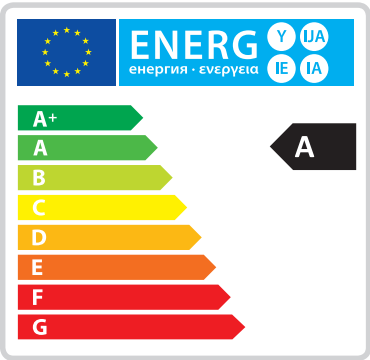


▶ THE 5TH GENERATION ENTHALPY HEAT EXCHANGERS

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	71-86
	Heating	73-79	70-83	72-84	69-83	69-82	71-82	73-87	72-82	73-87
Temperature Efficiency (%)		80-84	79-86	80-89	78-87	77-86	79-85	80-90	80-85	80-90
Noise dB(A)		29	28	32	34	35	35	37	39	40
Diameter of Duct (mm)		100	150	150	200	200	250	250	289*718	289*718
Product Size (mm)		610*780*289	735*780*289	874*884*331	1016*884*331	954*908*404	1004*1144*404	1231*1144*404	1004*1144*808	1231*1144*808
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



DC INVERTER HEAT PUMP ENERGY RECOVERY VENTILATOR

DC Inverter Heat Pump ERV offers air volume of 350–900 cubic meters per hour, which can meet the ventilation needs of 50–650 m² residential houses, villa, hotel, office and light commercial applications, 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
50–650 m²
Airflow from
350–950 m³/h



Purification



Energy Recovery



Cooling/Heating



Dehumidification



COP > 6



DC Inverter



Silent Operation



Wide Working Conditions



Indoor Air Quality Monitoring



Wifi and IOT



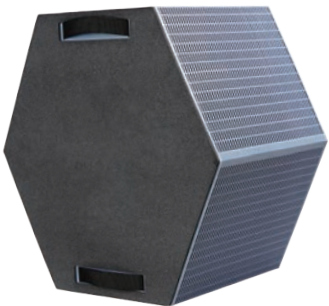
► EC FANS

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.



► 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.



► 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.



Model			AC-HTPF35	AV-HTPF60	AV-HTPF90
Rated Airflow		CMH	350	620	950
Exhaust Airflow (Ventilation mode)		CMH	350	620	950
Exhaust Airflow (Heating/Cooling mode)		CMH	350	620	950
External Static Pressure			100	100	100
Ventilation Mode	Temperature Efficiency (Heating)	%	77	78	77
	Temperature Efficiency (Cooling)	%	72	72	73
	Enthalpy Efficiency (Heating)	%	76	77	70
	Enthalpy Efficiency (Cooling)	%	70	65	66
	Input Power	W	185	451	788
	Input Current	A	1.67	3.77	3.93
Cooling/Heating	Normal Cooling Capacity	W	3798	6394	8293
	Max Cooling Capacity	W	4173	6946	8801
	Input Power (Cooling)	W	847	1243	1487
	Operation Current (Cooling)	A	4.43	6.55	6.95
	Normal Heating Capacity	W	4631	6287	8870
	Max Heating Capacity	W	4981	6921	9110
	Input Power (Heating)	W	790	1033	1427
	Operation Current (Heating)	A	3.91	5.74	6.76
Noise	dB(A)	37 / 42	40/44.6	41/46	
Power			220V 1Ph 50/60Hz		
Dimension (W*L*H)		mm	600*760*1040	740*1050*1030	740*1090*1170
Weight		Kg	135	165	190
Air Inlet/Outlet Diameter		mm	195	245	245
Air Inlet/Outlet Height		mm	40		
Machine Base Height		mm	40		
Drainage Pipe			G1/2 21mm		
Refrigerant			R32		
Refrigerant Charge		g	370	500	660

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.



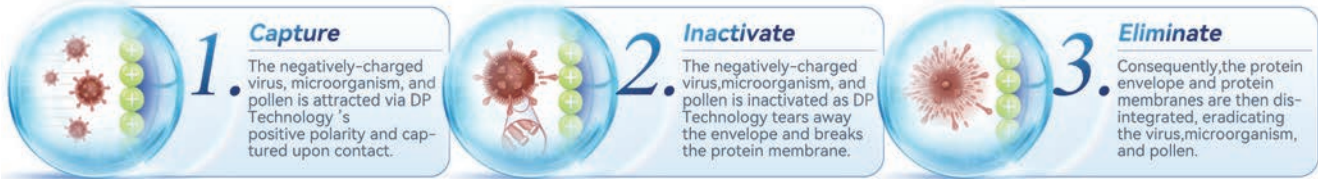
- 1 Washable Pre-Filter**
Eliminates lint, hair, pet fur.
- 2 H13 True HEPA Filter**
Eliminates fine dust, pollen, smoke particles, pet dander.
- 3 High-Efficiency Activated Carbon Filter**
Eliminates pet odor, cooking fumes, smoke, etc
- 4 DP Filter**
Arrests, inactivates, and eliminates viruses and 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)	-	500	-	-	-
Formaldehyde CADR (H11+DP) (m³/h)	-	130	-	-	-
CADR (H13+DP) (m³/h)	150	460	600	800	1000
Formaldehyde CADR (H13+DP) (m³/h)	40	128	260	350	450
Unit Dimension (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	√
	AV-TTW5SC-N7	√	×	×	√	×	×	×	×	×	×	×	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-HTPF35~HTPF90	√	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						
Suitable Series	AV-TTW6 AV-TTW6-W AV-TTW5-W	ERVQ-B150-1B1 ERVQ-L300~L600	AC-HTPF35/EI 32	AV-EC50~150	AV-EC50~150	CFA250-500T CFA150-2000C
Temp. Display	×	×	OA/RA/SA/FR Temp.			
IAQ Display	×	×	CO ₂ , Humidity, PM2.5, HCHO	CO ₂ , Humidity	CO ₂ , Humidity	CO ₂ , 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	×	✓	✓	✓	✓
CO ₂ 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.





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