ECO Pair ERV

Single Room Energy Recovery Ventilator

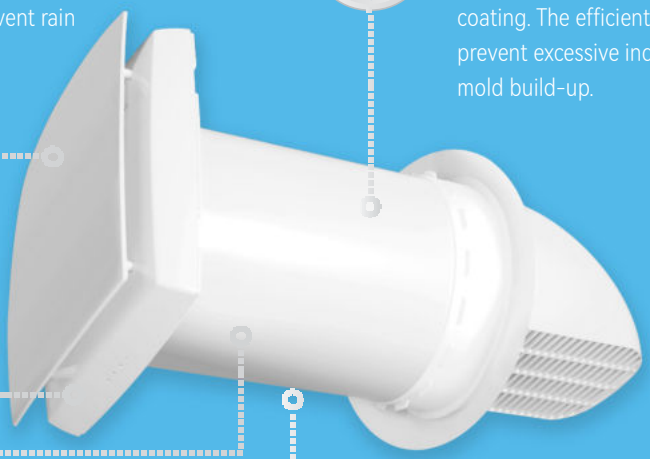


SAFE

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.

MOLD PREVENTION

The ceramic energy regenerators cover with anti bacteria and anti mildew coating. The efficient ventilation can prevent excessive indoor humidity and mold build-up.



FLEXIBLE

Unit can work individually or in pairs.

EFFICIENT

High heat recovery efficiency of up to 97% is achieved due to the use of a cellular regenerator.

EASY INSTALLATION

One-stop install through internal wall with a single hole.



EASY 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.



ON/OFF | Regeneration mode | Supply mode | Exhaust mode | Fan speed increase | Fan speed decrease | LED light switch



WIFI FUNCTION

Master the indoor air quality anywhere and anytime

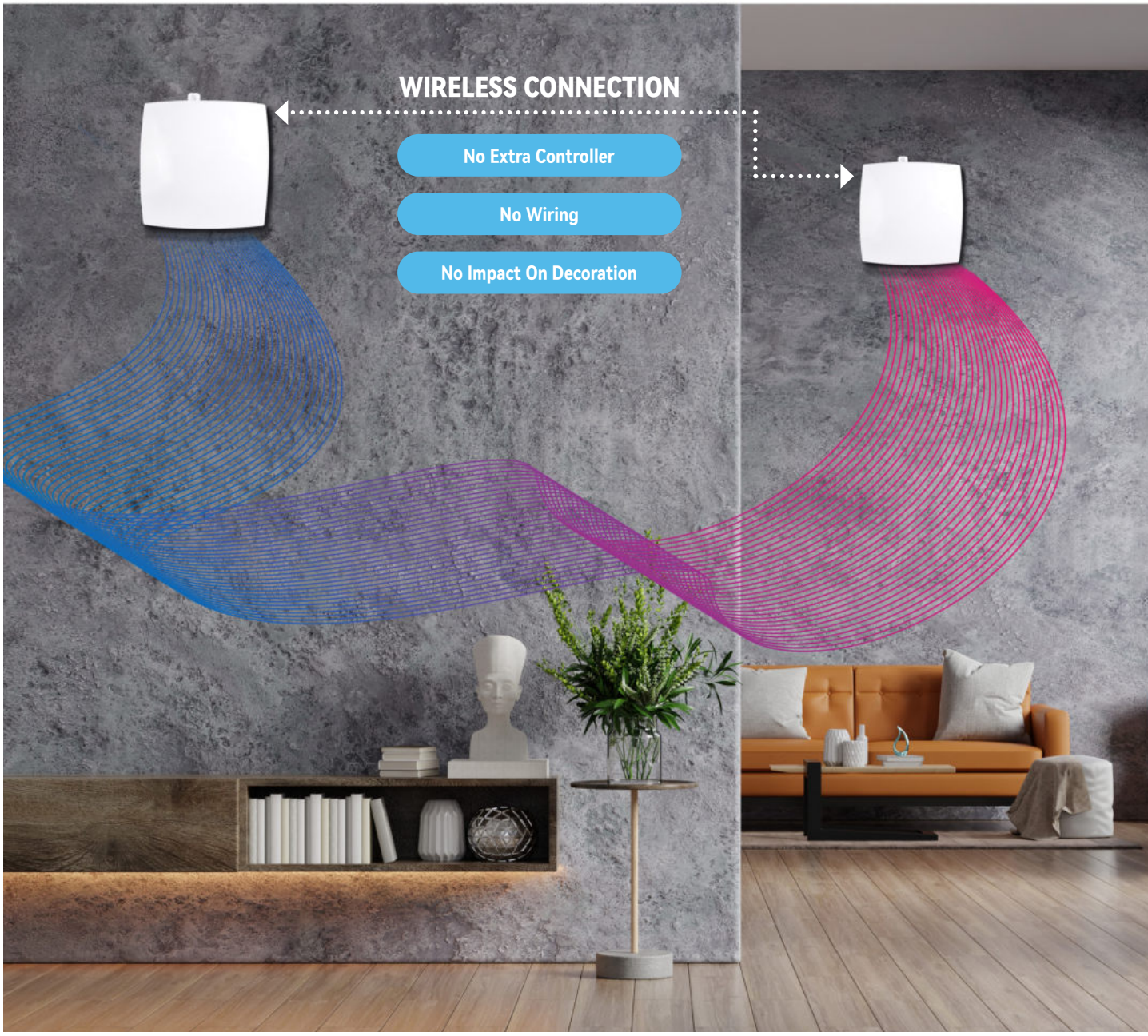
- On/off setting
- Fan speed control
- Working mode selection
- LED lights on/off
- 7*24 hours timer setting
- Error display
- Online/offline display
- Linkage status display
- Smart control according to local weather
- Linkage control with other appliances with Tuya IoT



WIRELESS OPERATION IN PAIR TO ENSURE BALANCED VENTILATION

Wireless connection of Leader and Follower unit, no wiring or dialing needed, 30 meters ultra long distance transmission.

* 30 meters was tested without barrier and interference. In practical application, it is recommended to install within 8-15 meters. Please avoid the strong interference sources and shielding objects (e.g. iron frames, aluminum ceiling).



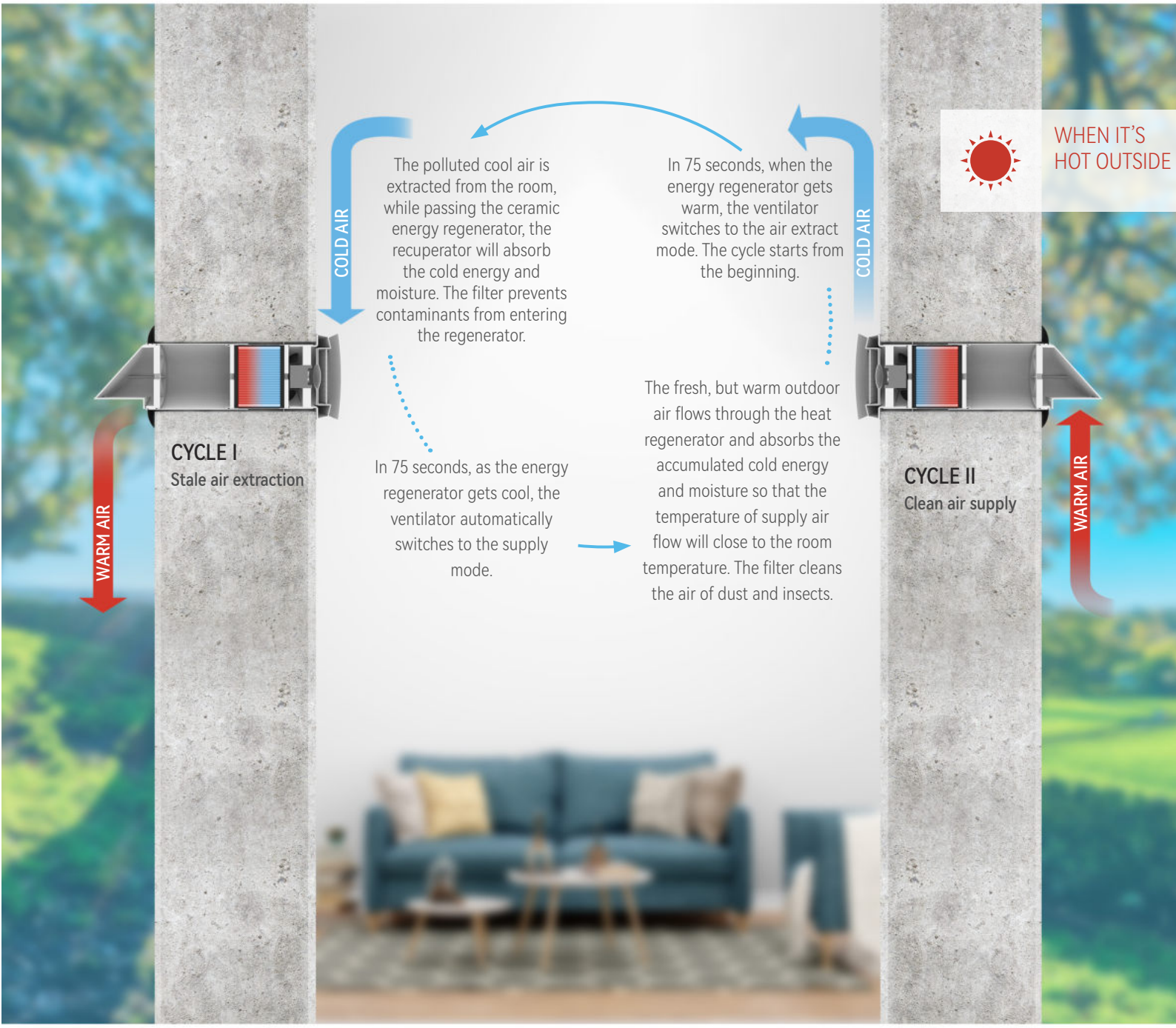
ENERGY SAVING

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.



ENERGY RECOVERY

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.



PRODUCT STRUCTURE

Reversible EC-Fan

The reversible axial fan with a EC motor. Due to the applied EC technology the fan is featured with low power consumption and silent operation. The fan motor has integrated thermal overheating protection and ball bearings for long service life.

Air Filters

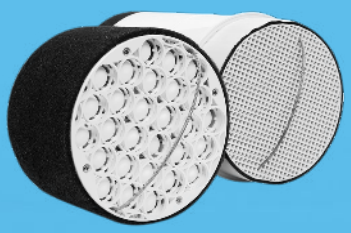
The two integrated air filters with total filtration rate G3 provide supply and extract air filtration. The filters prevent ingress of dust and insects into the supply air and contamination of the ventilator parts. The filters also have antibacterial treatment.

The filter cleaning is done with a vacuum cleaner or water flushing. The antibacterial solution is not removed. F7 filter is available as a specially ordered accessory, but when installed, it reduces the air flow down to 40 m^3/h.

High Efficiency Energy Regenerator

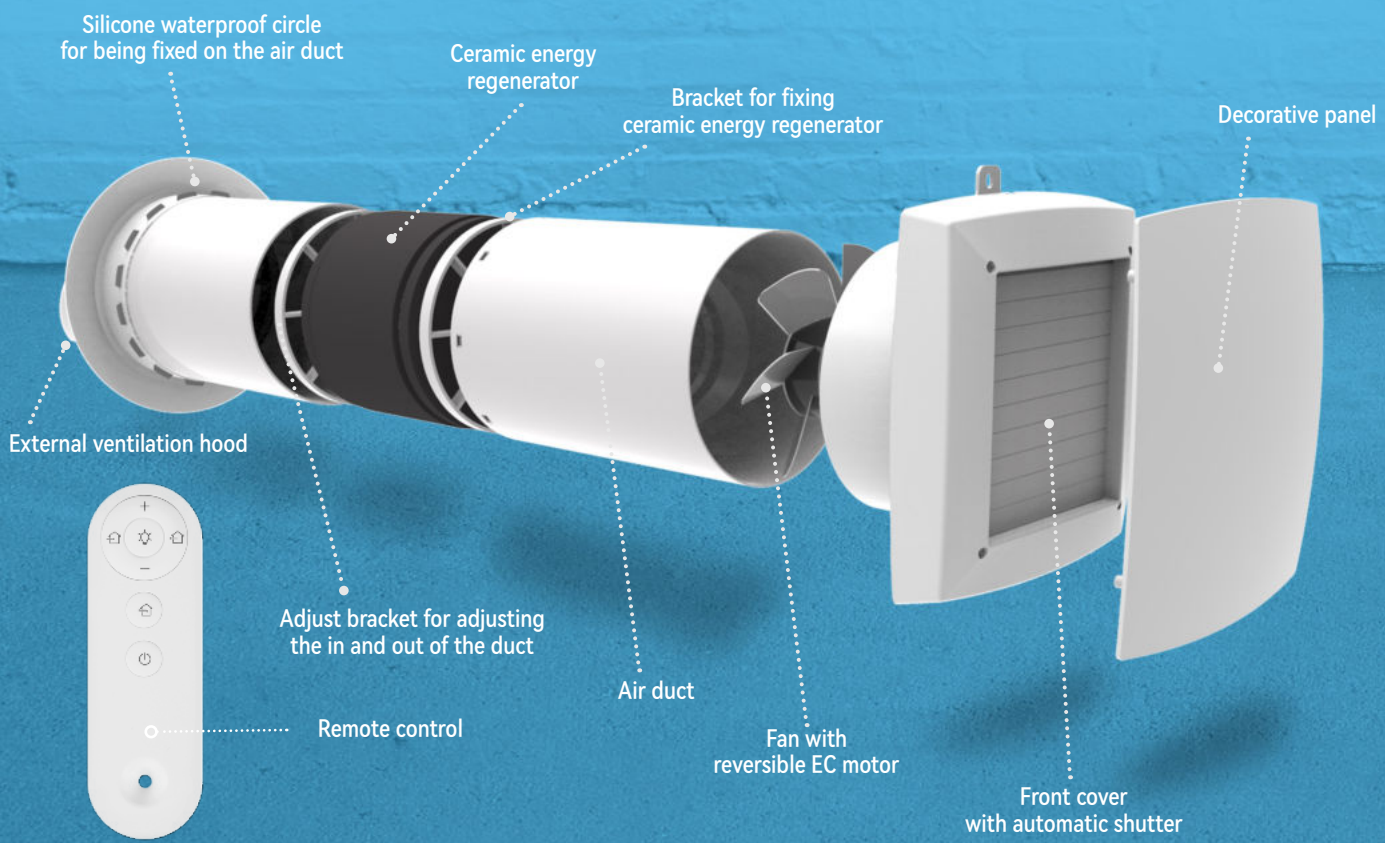
The high-tech ceramic energy accumulator with a regeneration efficiency of up to 97% ensures heat recovery from the exhaust air to heat or cool the supply air flow.

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



Honeycomb Regenerator

Heat Storage Ball Regenerator



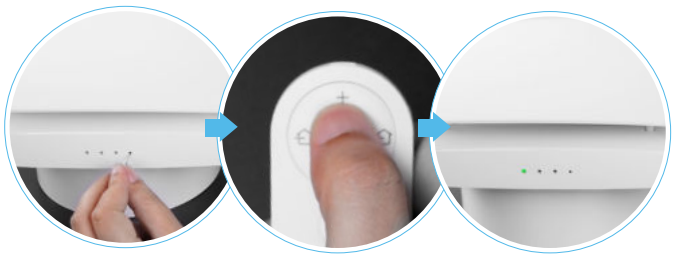


LED DISPLAY

LED Indicator

- The three leds only show the running status, you can turn off the led by the remote controller.
- The green shows as air supply.
- The red shows as air exhaust .
- The yellow shows as regeneration mode which is changed in 75s between the air supply and the air exhsust.
- 3 speed fan control for lighting the number of the led.
- The LED light is switchable.

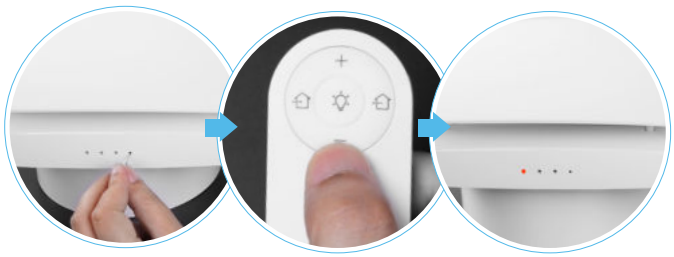
HOW TO WORK IN PAIRS



Step 1 Leader Ventilator Setting

When the ventilator is powered on and switched off, use the needle to poke the reset button and press it twice quickly. The green LED will flash slowly, the unit enters the matching mode.

Then direct the remote to the unit with flashing light and press the button “+” on the remote to set the Leader unit. After the green LED flashes five times, the setting is done. (Note: One remote can only set one Leader unit.)



Step 2 Follower Ventilator Setting

When the other ventilator is powered on and switched off, use the needle to poke the reset button and press it twice quickly. The green LED will flash slowly, the unit enters the matching mode.

Then use the same remote and direct it to the unit with flashing light and press the button “-” on the remote to set the Follower unit. After the red LED flashes five times, the setting is done. (Note: Multiple units can be set as Follower.)

How To Delete The Setting

When the ventilator is powered on and switched off, use the needle to poke the reset button and long press it for 10s, the yellow LED light will flash three times, then the unit will return to factory state.

Operation In Different Mode

The ON/OFF, LED light switch, and the increase and decrease of fan speed of the two ventilators are synchronized.

Regeneration Mode

Under regeneration model, the ventilators work in pair, one will extract air and the other will supply air. The fans rotate in different direction.

Supply Mode

Under supply mode, two ventilators will run simultaneously to supply air to the room.

Exhaust Mode

Under exhaust mode, two ventilators will exhaust air simultaneously.

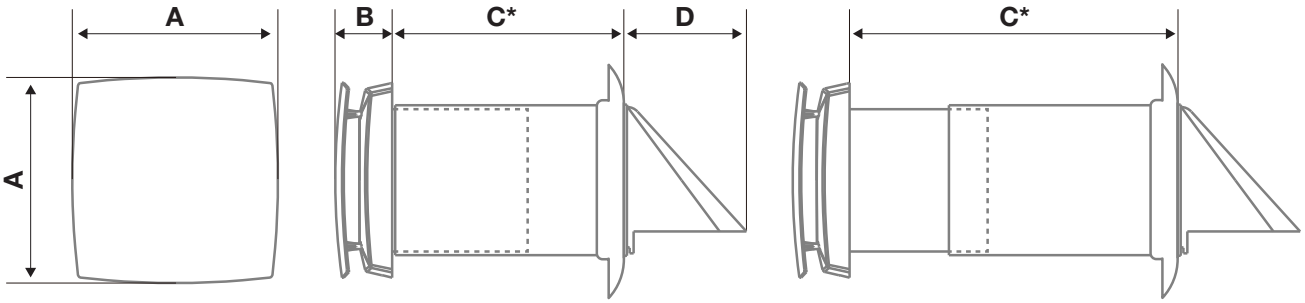
TECHNICAL DATA

IPX2

A SEC CLASS

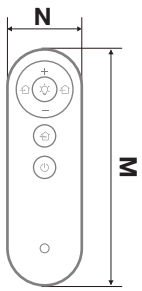
Model No.		AV-TTW6-W	
Voltage		100V~240V AC /50-60Hz	
Power [W]	5.9	8.8	11.3
Current [A]	0.03	0.05	0.06
Air flow in supply/exhaust mode [m^3/h]	26	55	64
Air flow in regeneration mode [m^3/h]	14	27	32
SFP [W/m^3/h]	0.43	0.31	0.35
Sound pressure level at 1 m distance [dBA]	28	32.9	36.7
Sound pressure level at 3 m distance [dBA]	12	27.5	31.9
Regeneration Efficiency		Up to 97%	
SEC		Class A	
Transported air temperature [℃]		-20~50	
Ingress Protection Rating		IPX2	
RPM		2000 (max)	
Diameter of duct [mm|		159mm	
Type of installation		Wall mounting	
Net Weight		3.4kg	

DIMENSIONS



A	B	C*	D	M	N	Unit
205	60	230~420	143	128	38.5	mm

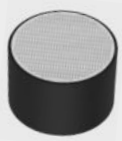
C*: Size is customized, the length of 600 mm is optional.



OTHER FANS AND ACCESSORIES

Product Name	Model	Airflow (m^3/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	Support TUYA APP, Able to connect to Alexa and Google Home devices in the home Wi-Fi network for speech control. Remote Control; Running Status Display; Weekly timer Speech control; Linkage control; Scene control				
 Smart Air Quality Detector	AS-AQ011Z	Functions: Carbon dioxide detecting; PM2.5 detecting; PM10 detecting; Formaldehyde detecting; C6H6 detecting; TVOC; AQI; AQI excess alert; Temperature; Humidity; Time; Calendar Support TUYA APP, able to connect with Eco pair ERV in the home Wi-Fi network for operation control.				
 F7 Filter	AS-AQF7	Filter Class F7 - ASHRAE MERV11, EN779 F7. The F7 filter is a particulate filter, which filters coarse to very fine dust particles, pollen and animal hair from the air. Suitable for people with allergies. *The airflow of the ERV will reduce to 40 m^3/h when installed.				

ACCESSORIES

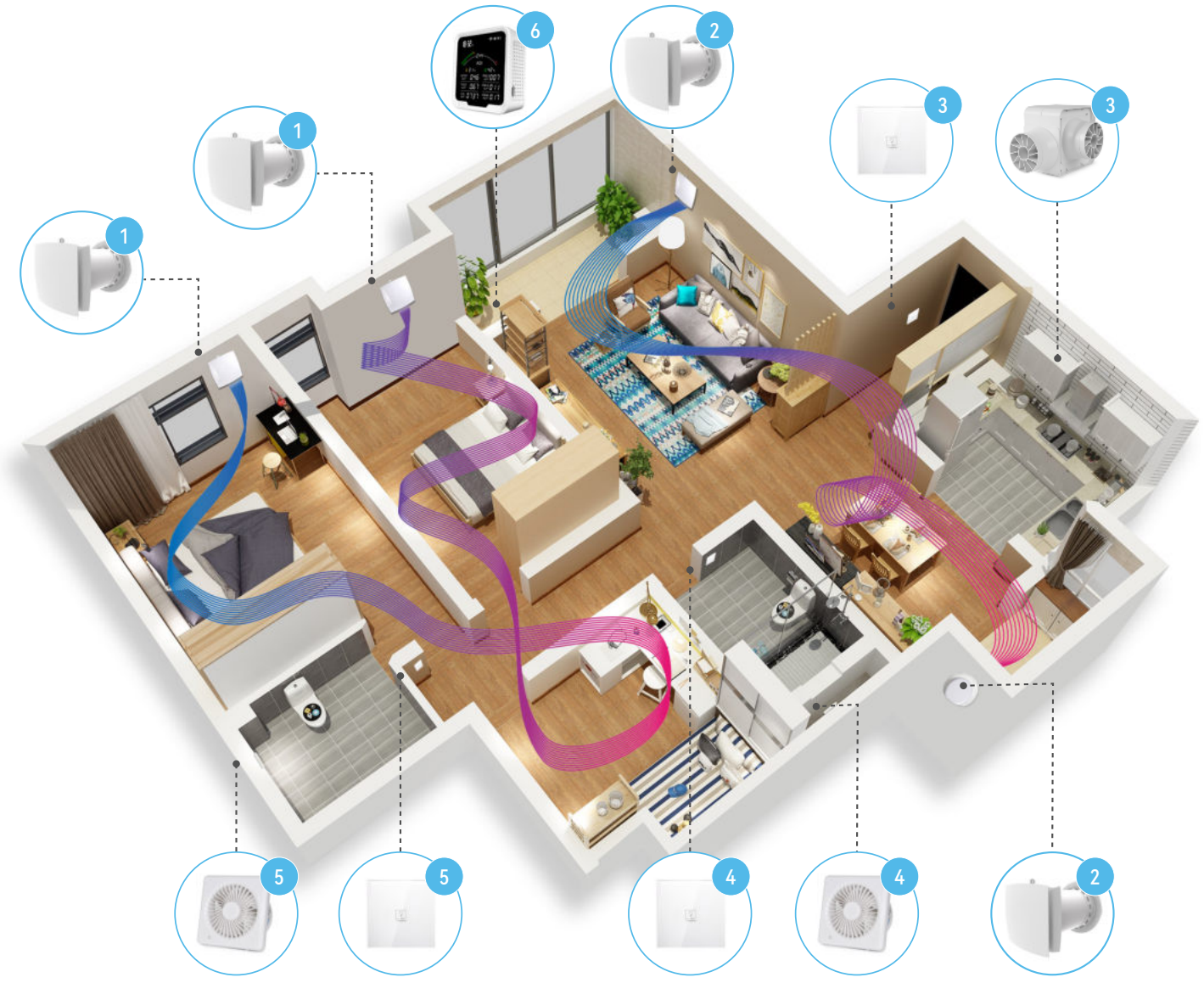
Picture	Accessory Name	Product Code	Picture	Accessory Name	Product Code
	Kit for the thin wall	AS-KTW001		Plastic round grille	AS-PRG002
	Extended pipe (Ø 160, Length 390 mm, to extend the total pipe length to 600 mm)	AS-EDP001		Stainless steel round grille	AS-SRG001
	Ventilation hood for indoor mounting	AS-VHI001		Remote controller	QB09-IR-PYJ01
	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	Ø143*35 **01000000840**
	Heat storage ball regenerator	AS-TA50-2		Honeycomb regenerator	01000000097
	Coarse filter	AS-PFN001		Indoor Unit	01000001151

PROVIDES COMFORTABLE BREATHING ENVIRONMENT IN VARIOUS PREMISES

The room area for the ventilators in pairs is up to 50m^2. For example, if the room size is 100m^2, it's suitable to use two pairs of AV-TTW6-W.

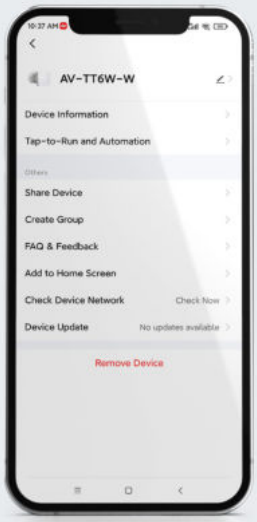
No.	Picture	Model	Number
1		AV-TTW6-W	2 pcs
2		AV-TTW6-W	2 pcs
3		AV-C145-DA, ZSTY-SM-11W-EU	1 set
4		AV-C138-DB, ZSTY-SM-11W-EU	1 set
5		AV-C138-DB, ZSTY-SM-11W-EU	1 set
6		AS-AQ011Z	1 pc

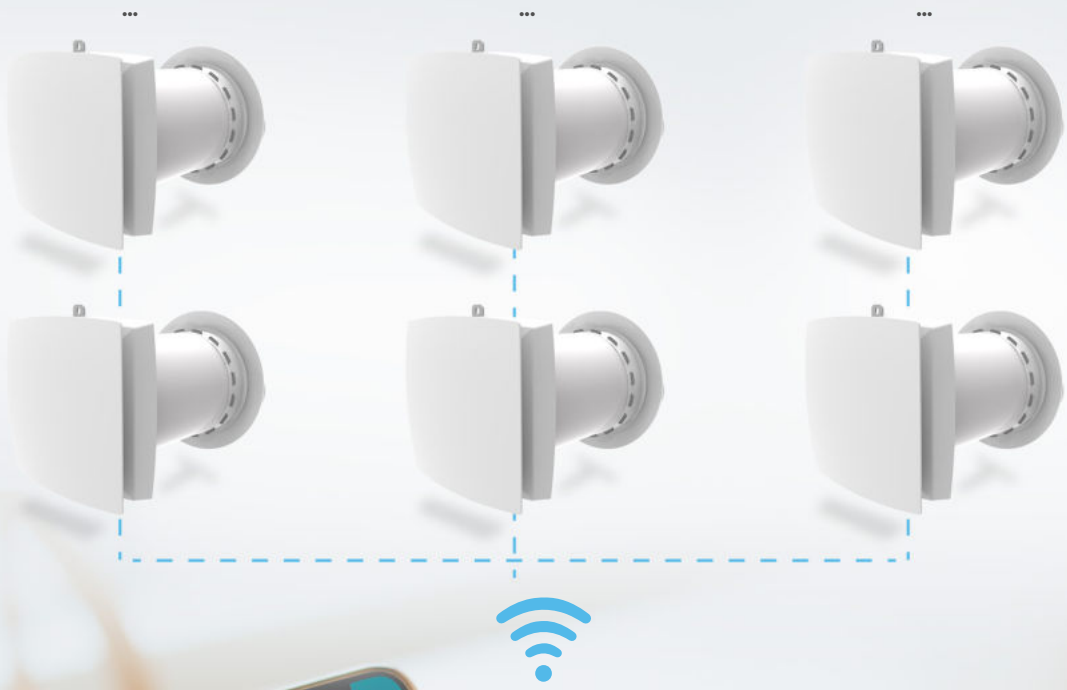
*The area is approximate and depends on the ventilation standards in the user's country.



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.



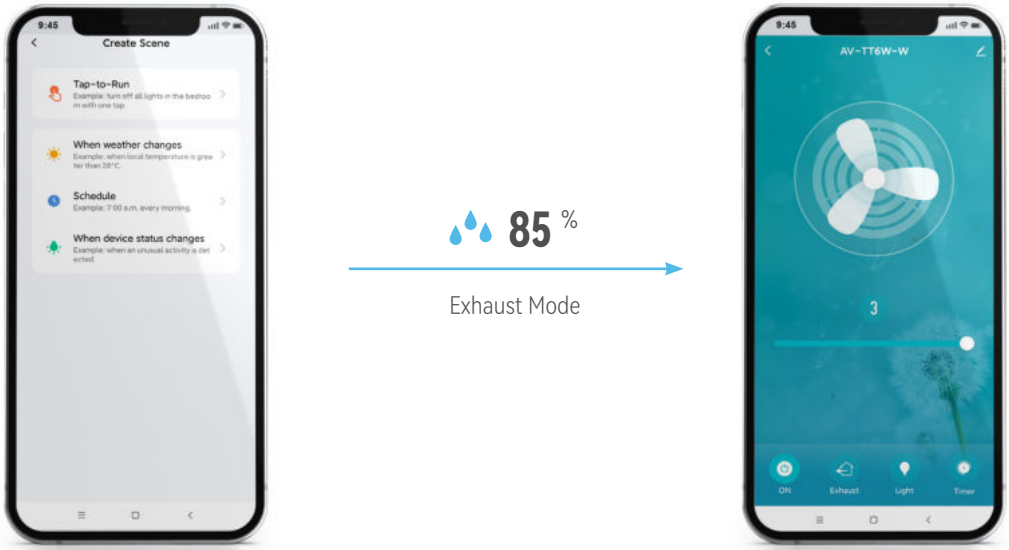




SCENE CONTROL

User can create the scene 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.



LINKAGE CONTROL

Users can add the devices with Tuya APP to their home screen. For example, they can add all the single room ventilators, exhaust fans or light switches in the APP and control them at their will.





SMART AIR QUALITY DETECTOR

WiFi READY

Track 6 air quality factors. Accurately detect the current CO2 concentration, temperature, humidity and PM2.5 in the air. Wifi function available, connect device with Tuya App and view the data in realtime. It can connect with Eco Pair ERV without wire, and control them according to the detected data to ensure air quality at any time. The operation functions can be designed according to the preference of users.

AUTOMATIC MODE

Adjustment of the fan speed to the aimed humidity level.

BOOST MODE

Activating the device and run at full fan speed when CO2/TVOC/HCHO/PM2.5/PM10/C6H6 exceed setting value.

SURVEILLANCE MODE

Activating the device when an increase of humidity is detected.

ECO PAIR ERV, EASIER ACCESS TO HEALTHY BREATH

2101, Tower 25 Headquarter Center, Tian An Park, 555 Panyu Ave., Guangzhou, China
T: +86-20-39141701 E: info@airwoods.com