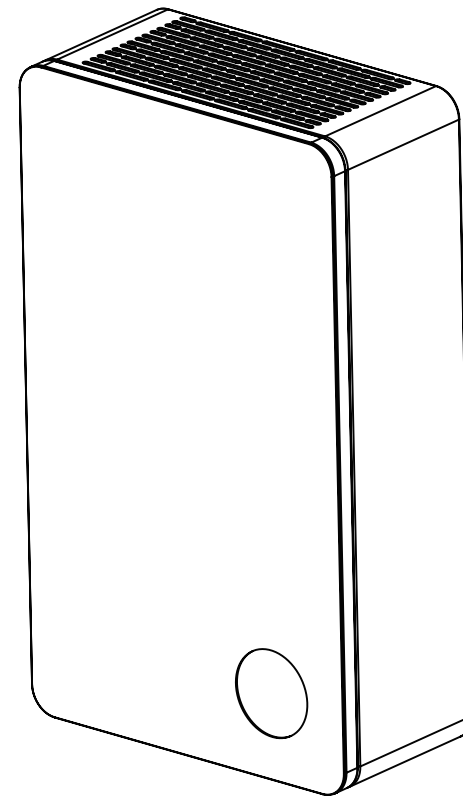


ECO CLEAN

Heating and Purification Ventilator

User Manual

AV-EW15



Thanks for purchase our product. Please read the operating instructions carefully before installing, using and maintenance.

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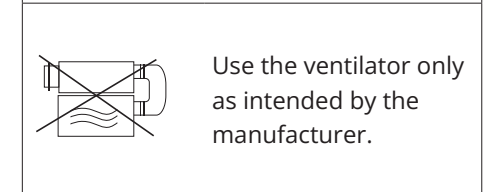
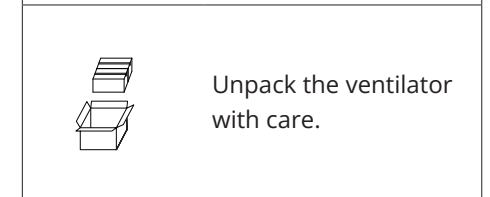
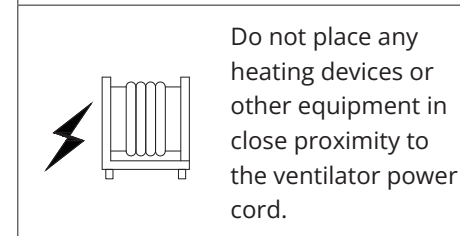
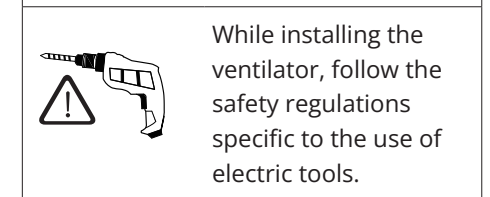
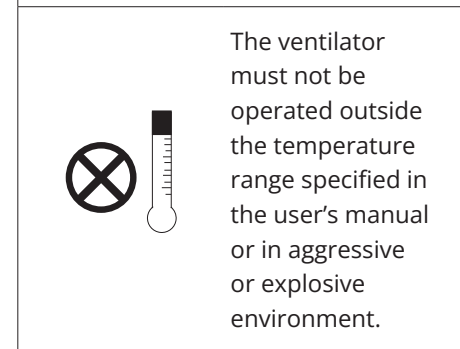
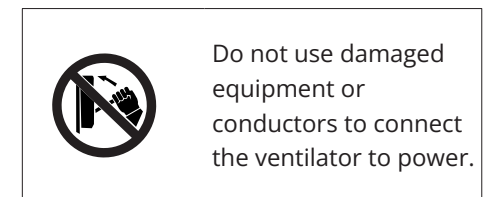
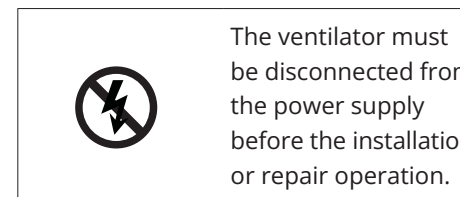
► **SAFETY REQUIREMENTS**

- Read the user's manual carefully before operation and installation of AV-EW15.
- Installation and operation of the ventilator shall be performed in accordance with the present user's manual as well as the provisions of all the applicable local and national construction, electrical and technical codes and standards.
- The warnings contained in the present user's manual must be considered seriously since they contain vital personal safety information.
- Failure to follow the safety instructions may result in personal injury or ventilator damage.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved.
- Do not use products in places with flammable or explosive materials. It may cause fires or explosions.
- Stop using this product if encountering biochemical or toxic and harmful gas outdoors.
- Before installation, please place the device in room temperature for 2 hours to avoid low-temperature transportation or storage that may cause equipment malfunction, condensation, or damage to parts.
- Please do not use this product in high temperature or humid environments such as bathrooms or laundry rooms. The device is permitted for use in indoor environments with temperatures ranging from +5°C to +40°C. The indoor humidity should not exceed 75%.
- To prevent component freezing, the outdoor temperature below -10°C disables the fresh air damper function (the system automatically defaults to closing).
- Please do not place this product near a heat source to avoid causing damage.
- The device is not intended for heating room temperature use.
- Do not block the air outlet to prevent overheating.
- Do not use flammable liquids to spray on the equipment, and do not place heavy objects on the machine.
- To avoid danger, it must be replaced by professional maintenance personnel if the machine is damaged.



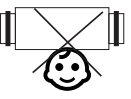
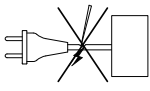
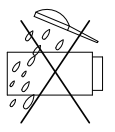
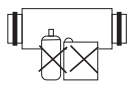
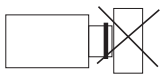
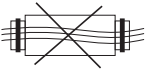
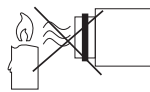
► **SYMBOL USED IN THE MANUAL**



► **VENTILATOR INSTALLATION SAFETY PRECAUTIONS**



► **VENTILATOR INSTALLATION SAFETY PRECAUTIONS**

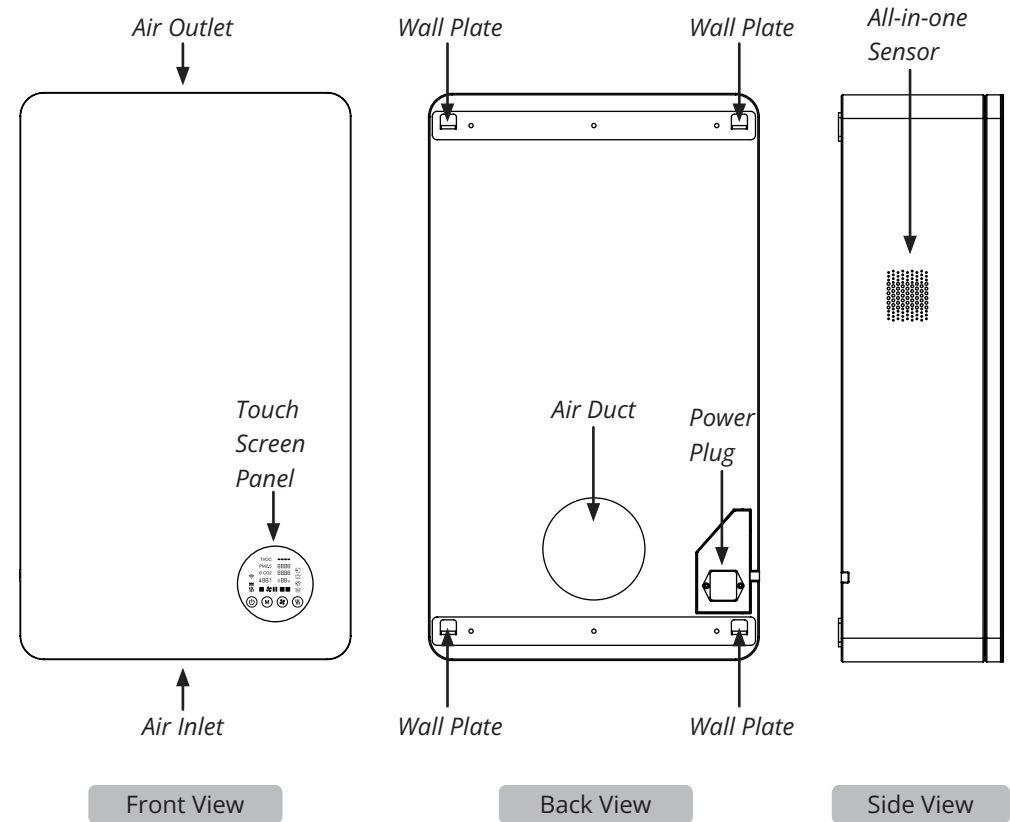
 <p>Do not touch the controller or the remote control with wet hands. Do not carry out the ventilator maintenance with wet hands.</p>	 <p>Disconnect the ventilator from the power supply before maintenance.</p>
 <p>Do not allow children operate the ventilator.</p>	 <p>Do not damage the power cable while operating the ventilator. Do not put any objects on the power cable.</p>
 <p>Do not clean the ventilator with water. Protect the electric parts from water ingress.</p>	 <p>Keep explosive and inflammable products away from the ventilator.</p>
 <p>Do not block the air duct when the ventilator is on.</p>	 <p>Do not open the operating ventilator.</p>  <p>Do not direct airflow from the ventilator onto the open flames or candles.</p>

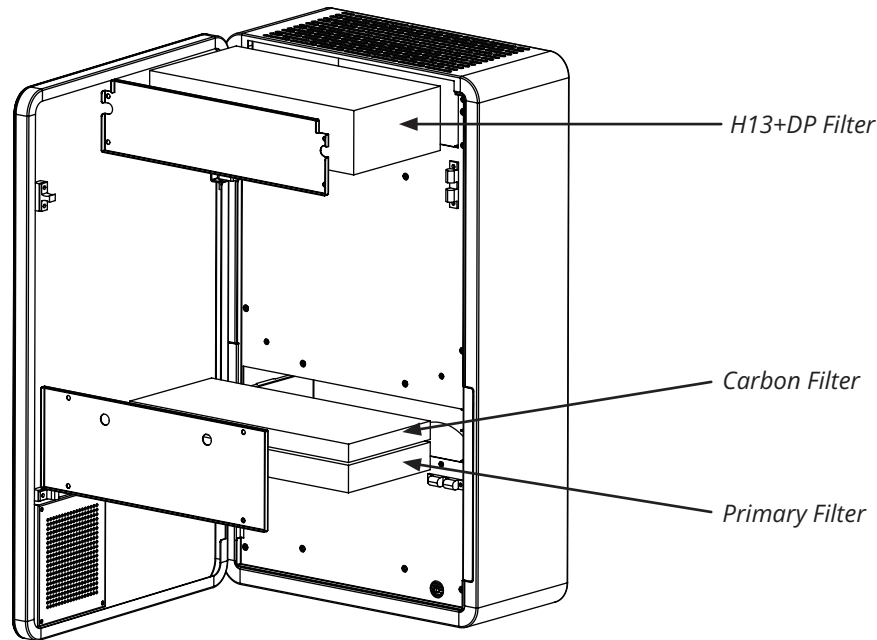
► **PACKING LIST**

Ventilator	1 pc
Accessories bag	1 pc
Remote controller	1 pc
User's manual	1 pc
hanging board	2 pc
Power line	1 pc
Integrated exterior wall windproof hood	1 pc

► **PRODUCT INTRODUCTION**

The product illustrations, accessories, and user interface diagrams in this manual are for reference only and are schematic. Please note that there may be slight variations between the actual product and the schematic diagrams due to product updates and upgrades. For accurate information, please refer to the actual product.





► TECHNICAL PARAMETERS

Model	AV-EW15	Dimension (mm)	600*350*170
Weight (kg)	20	Rated Airflow (m³/h)	60 / 90 / 120 / 150 / 180
Suitable Area (m²)	≤50	Rated Voltage (V)	220
Rated Frequency (Hz)	50	Rated Power (W)	25
Maximum Power (W)	1000	Noise dB(A)	39
Outdoor Working Temperature (°C)	-10~+40	Filtration Level (%)	99.95

► DISPLAY

PM2.5 • TVOC
Green: Good
Yellow: General
Orange: Poor
Red: Very Poor

CO₂/Timer •

WIFI •
On: connected
Flash: pairing
Off: disconnected

Temperature •

Electric Heating
On: heater is on
Off: heater is off
Flash: Temperature too high, temporarily unable to turn on the heater.

ON/OFF •

Mode Switch •

TVOC
 Green: Good
 Yellow: General
 Orange: Poor
 Red: Very Poor

PM2.5 8888

CO₂ 8888

Temperature 88.8°C

R. Humidity 88%

Ventilation Mode •
The air valve opens to bring fresh outdoor air inside.

Recirculation Mode •
When the air valve is closed, the indoor air circulates within the room.

Air Mixing Mode •
When the air valve opens to the set angle, indoor and outdoor air mix through the system and are circulated indoors.

Oxygen Mode (Auto) •
Automatically adjust the air valve switch based on indoor CO₂ levels.

Electric Heater Switch

Fan Speed Switch

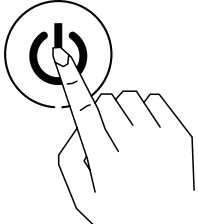
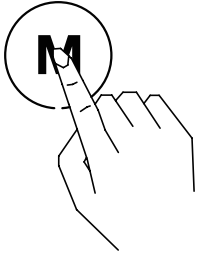
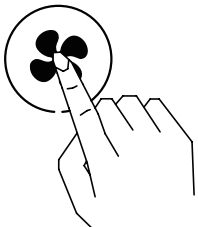

Sleep Mode •
Operates with ultra-low noise to create a comfortable sleeping environment.

Manual Mode •
Adjust the appropriate fan speed based on the actual working conditions.

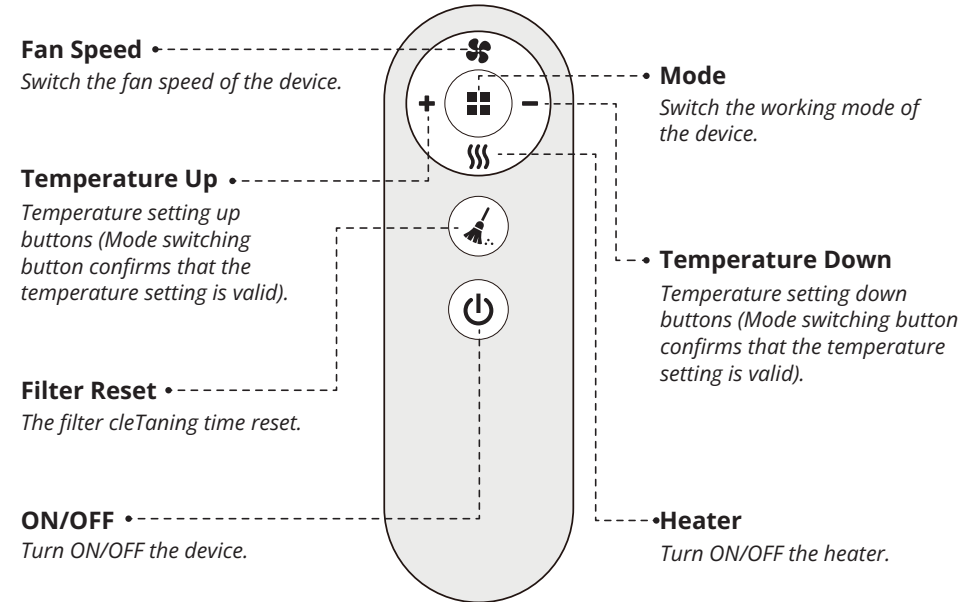
Fan Boost Mode •
Operating at maximum fan speed for rapid air purification.

Auto Mode •
Automatically adjust fan speed based on indoor PM2.5 concentration.

► DISPLAY FOR TOUCH SCREEN PANEL

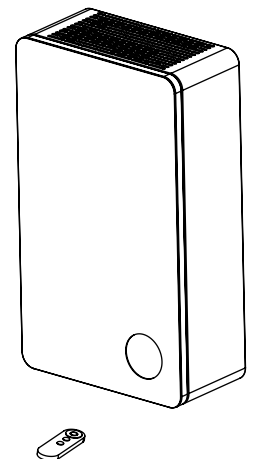
	<p>ON/OFF & WiFi Network Setting</p> <ol style="list-style-type: none"> 1. Press "⏻" to start. Hold for 1-2 seconds to power on or off. 2. When the device is powered off, press "⏻" and hold for 3 - 4 seconds, and the machine's WiFi indicator will flash. At this time, the device enters WiFi Network Setting.
	<p>Mode Switch/Countdown Timer Setting</p> <ol style="list-style-type: none"> 1. Press "M" to switch different mode. 2. When the device is powered on, press "M" and hold for 3 - 4 seconds to enter the Countdown Timer settings. The "🕒" will appear, and the numbers will blink. Press the "🌀" to increase the time, the "🌀" to decrease the time, and the "M" to confirm the countdown setting. Press the "⏻" to cancel the setting. If there's no key operation for 60 seconds, the setting will become invalid, and the shutdown countdown operation will exit automatically.
	<p>Fan Speed / Filter Reset</p> <ol style="list-style-type: none"> 1. Press "🌀" to switch different fan speeds. 2. When the device is powered on, press "🌀" and hold for 3 - 4 seconds to enter the filter reset.
	<p>Heater/Temperature Setting</p> <ol style="list-style-type: none"> 1. Press "🔥" to turn on/off the heater. 2. When the device is powered on, press "🔥" and hold for 3 - 4 seconds to enter the temperature settings. The "🌡️" will appear, and the numbers will blink. Press the "🌀" to increase the temperature, the "🌀" to decrease the temperature, and the "M" to confirm the temperature setting. Press the "⏻" to cancel the setting. If there's no key operation for 60 seconds, the setting will become invalid, and the shutdown countdown operation will exit automatically.

► DISPLAY FOR REMOTE CONTROLLER



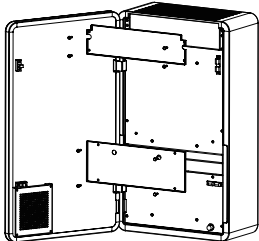
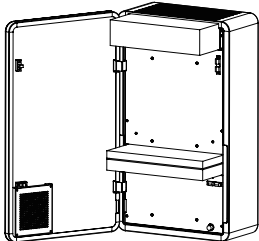
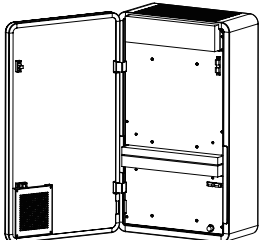
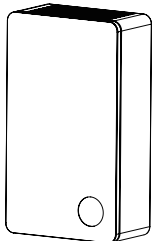
- Fan Speed** • Switch the fan speed of the device.
- Mode** • Switch the working mode of the device.
- Temperature Up** • Temperature setting up buttons (Mode switching button confirms that the temperature setting is valid).
- Temperature Down** • Temperature setting down buttons (Mode switching button confirms that the temperature setting is valid).
- Filter Reset** • The filter cleaning time reset.
- ON/OFF** • Turn ON/OFF the device.
- Heater** • Turn ON/OFF the heater.

* To power off the device, press and hold the mode key on the remote control for a duration of 4 - 5 seconds. During this operation, observe the indicator light's transition from a continuous red illumination to a blinking state. Upon powering on the device, the remote control will automatically establish synchronization with the device. The cessation of the blinking indicator signifies the successful completion of the pairing process between the remote control and the device.



► FILTER REPLACEMENT

The filter is replaced as shown below.

<p>1. With the power turned off, open the front cover from right to left and use a tool to remove the screws and the filter cover.</p>	
<p>2. Pull the filter out horizontally.</p>	
<p>3. Take out the new filter from the packaging bag and insert it along the horizontal direction into the filter slot/chamber.</p>	
<p>4. Reinstall the filter cover, close the front panel, completing the installation. Reset the filter lifespan.</p>	

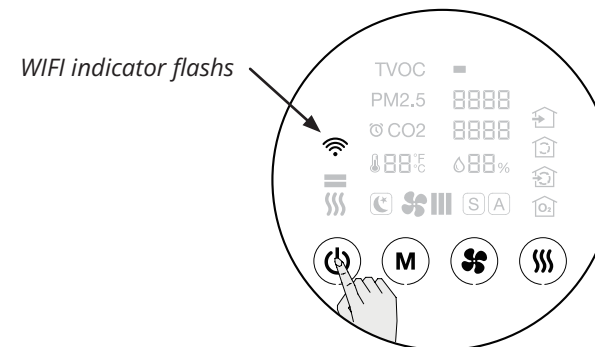
► APP DOWNLOAD INSTRUCTIONS

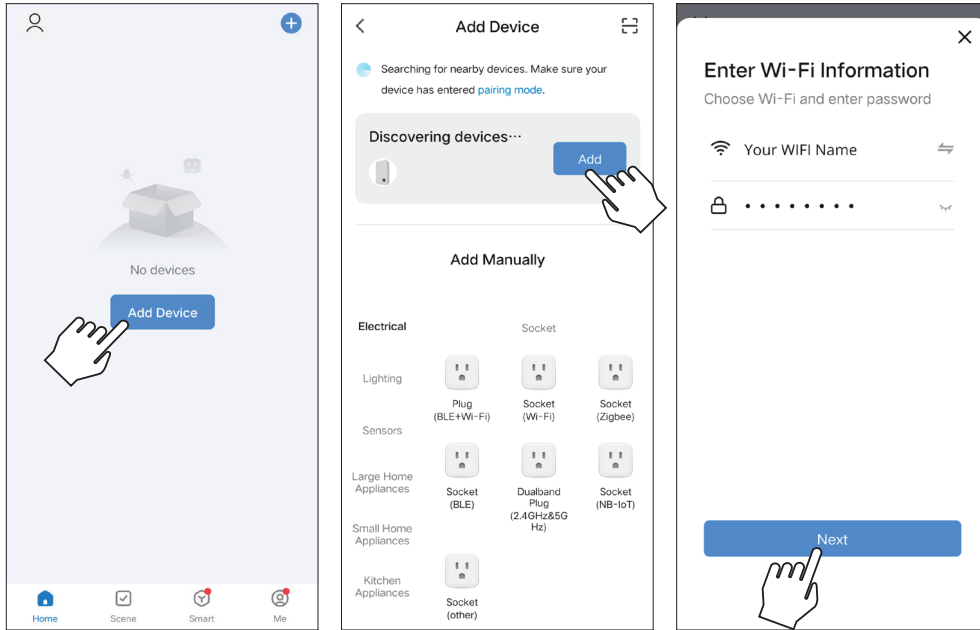
Scan the QR code on the right to download the app, or search "smart life" in the Apple store and Google play store to install the app, download, and install using the device's WIFI connection. It's available for the mobile app to control the device and support Google and Alexa Smart speaker control function.



► IOT NETWORKING OPERATION STEPS

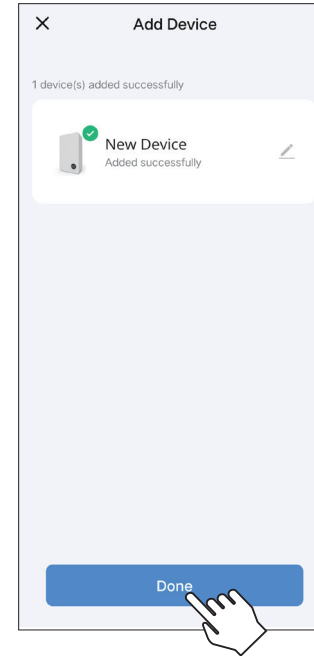
When the device is powered off, press "⏻" and hold for 3 to 4 seconds, and the machine's WIFI indicator will flash. At this time, the device enters WiFi Network Setting.





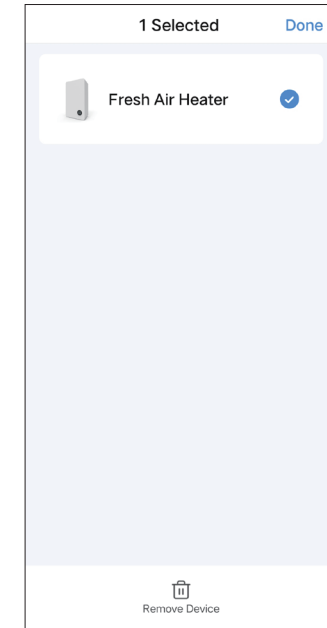
1. Before enabling Lot networking operation, please connect your cell phone to your home router WIFI, turn on the Bluetooth function of your cell phone, and ensure that the device and cell phone are within the WIFI signal coverage (make sure the router WIFI is enabled for 2.4G network).
2. When the device is powered on, in the OFF state, long press the “” button of any device for 5 seconds, the device status indicator will flash red slowly,
3. Open the downloaded Smart Vent app, enter the operation page, click the “Add Device” button, and search for devices.
4. At this time the app receives the signal from the device, then clicks to add the device for network connection.

then the device will enter the WIFI distribution state, and the cell phone will be available for operation and connection.



5. Click the “Add” button to find the WIFI signal of your home router, and make sure the WIFI name on the app is the same as the name of the WIFI connection to your phone, then log in with the WIFI password.
6. After successful WIFI connection, the device will be connected to the network, and after the connection is completed, you can enter the operation page to operate.

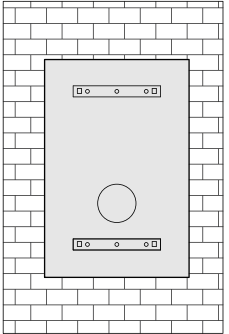
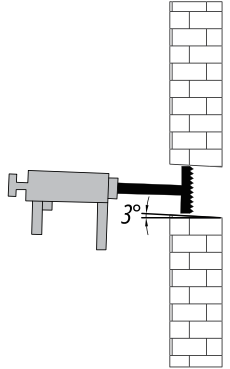
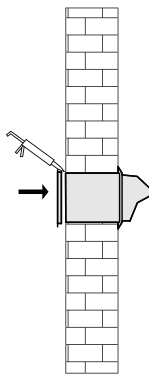
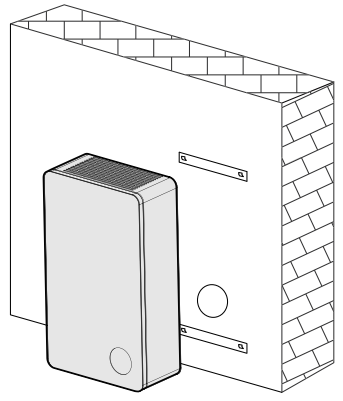
► WIFI RESET AND CANCELLATION



Remove the device from the app as follows:

1. Return to the app operation connection page, long press the device that needs to be disconnected, then the option to remove the device will appear at the bottom.
2. Click on the remove device option and confirm to successfully disconnect the device from the WIFI.

► **INSTALLATION**

 <p>1. Refer to the mounting bracket installation diagram to identify the hole positions and proper bracket placement.</p>	 <p>2. Selected drilling position at 120mm apart confirmed.</p>
 <p>3. Install the air duct and seal around all sides with filler.</p>	 <p>4. Install the device.</p>

► **TROUBLESHOOTING**

Fault	Possible reasons	Troubleshooting
The fan does not start up.	No power supply.	Make sure that the ventilator is properly connected to the power and make any corrections, if necessary.
	The motor is stuck, or the impellers are clogged.	Turn the ventilator off. Troubleshoot the motor jam and the impeller dogging. Clean the blades. Restart the ventilator.
Low airflow.	Low fan speed setting.	Set higher speed.
	Filter, fan, or exchanger are dirty.	Clean or replace the filter, and clean the fan and the exchanger. For exchanger and filter maintenance, see page 14.
Noise, vibration.	The impeller is dirty.	Clean the impeller.
	Loose screw Connection of the ventilator casing or the ventilation hood.	Tighten the screws of the ventilator or the outer hood.
WIFI connection failed.	The mobile phone is connected to the WiFi 5G network.	Please switch to the 2.4G frequency/ network to connect.
	Wrong connected to public WiFi (such as WiFi in shopping malls, hotels, etc. That need to be registered and logged in).	Please set up the WIFI router correctly.
	The router has not yet set up an account and password.	
	The router is set to a higher security level.	
	You have exceeded the limit of devices that can be connected to the router.	
Bluetooth on the mobile phone is off.	Enable Bluetooth on the mobile phone to improve the success rate of networking.	

► ERROR INFORMATION

Error Code	Meaning	Solution
Er00	Damper malfunction.	Check the air valve and limit switches for faults.
Er01	Abnormal communication with the air quality module.	Check the air quality module.
Er02	Malfunction of the outlet temperature sensor.	Check the temperature sensor.
Er03	Malfunction of the outdoor temperature sensor.	Check the temperature sensor
Er04	Overheat protection.	Automatic restoration after temperature decrease.
Er05	Protective door cover open.	Inspect the door cover switch for normal operation.
Er06	Fire signal.	Inspect the fire input signal for normalcy.
Er07	Filter expired.	Reset filter time after replacing the filter.
Er08	Malfunction of the DC fan.	Check the fan. Try restarting by turning off and then turning on again.