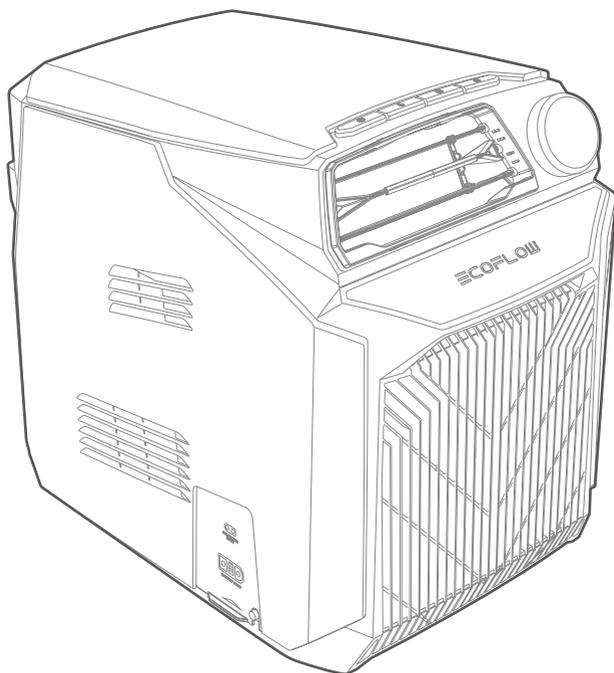


ECOFLOW

EcoFlow WAVE | User Manual



DISCLAIMER

Read all safety tips, warning messages, terms of use, and disclaimers carefully. Refer to the terms of use and disclaimer at <https://ecoflow.com/pages/terms-of-use> and stickers on the product before use. Users take full responsibility for all usage and operations. Familiarize yourself with the related regulations in your area. You are solely responsible for being aware of all relevant regulations and using EcoFlow products in a way that is compliant.

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1. Specifications

General Information

Model number	EFH200
Net weight	17.5kg
Dimensions	20.39 x 12.2 x 16.38 in
Wi-Fi	Supported
Bluetooth	Supported

Input Specifications

AC input voltage/frequency	100-240V ~ 50/60Hz
AC input power	Max 700W
Add-On Battery power	Max 600W
Solar charging input	11-35V \Rightarrow Max 12A Max 200W
Car charging input	12 V/24V \Rightarrow Max 8A Max 200W

Cooling Specifications

Ambient temperature	5°C ~ 50°C (41°F ~ 122°F)
Cooling temperature settings	16°C ~ 30°C (60.8°F ~ 86°F)
Cooling capacity	1200W
Circulation air volume	290m ³ /h
Refrigerant/amount	R134a/0.4kg
Cooling input power (AC/DC)	460W/410W
Max cooling power	600W
Noise	<55dB
No-Drain Function	Supported
Shut Down When Full Function	Supported

Other Specifications

EcoFlow Wave Add-On Battery	Supported
EcoFlow DELTA Max	Supported
EcoFlow DELTA Max Extra Battery	Supported
EcoFlow DELTA Pro	Supported
EcoFlow DELTA Pro Extra Battery	Supported

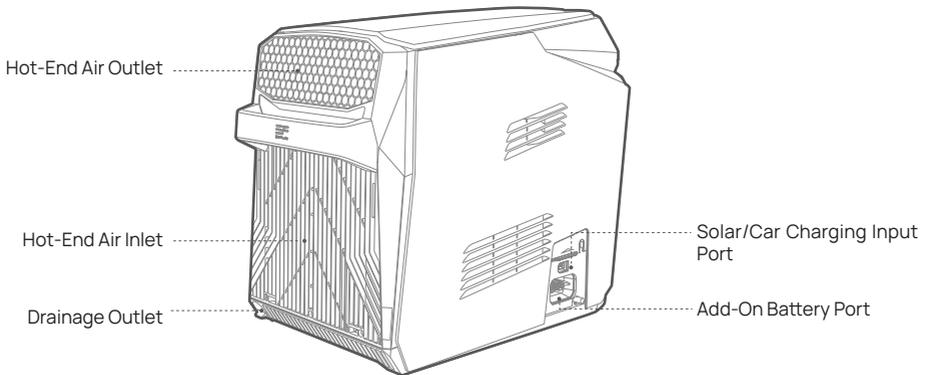
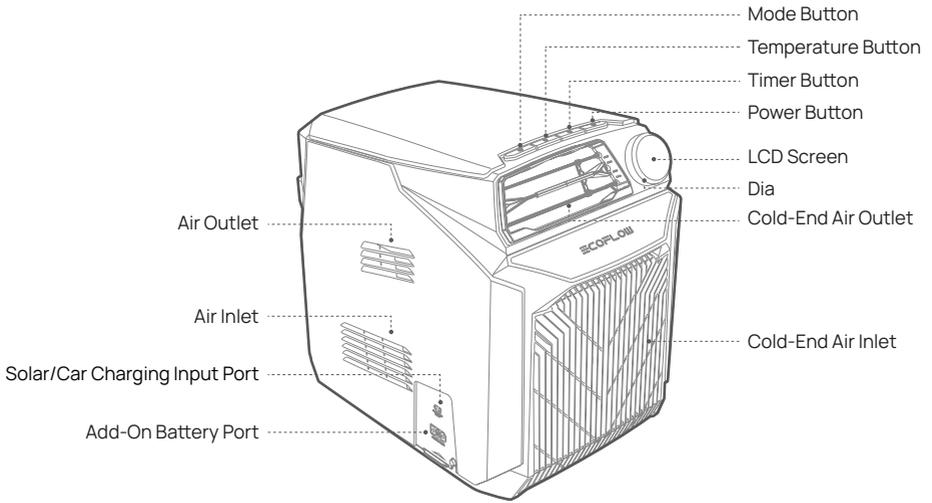
This device contains a radio transmission module with type approval code CMIIT ID:2021DP3313.

2. Safety Guidelines

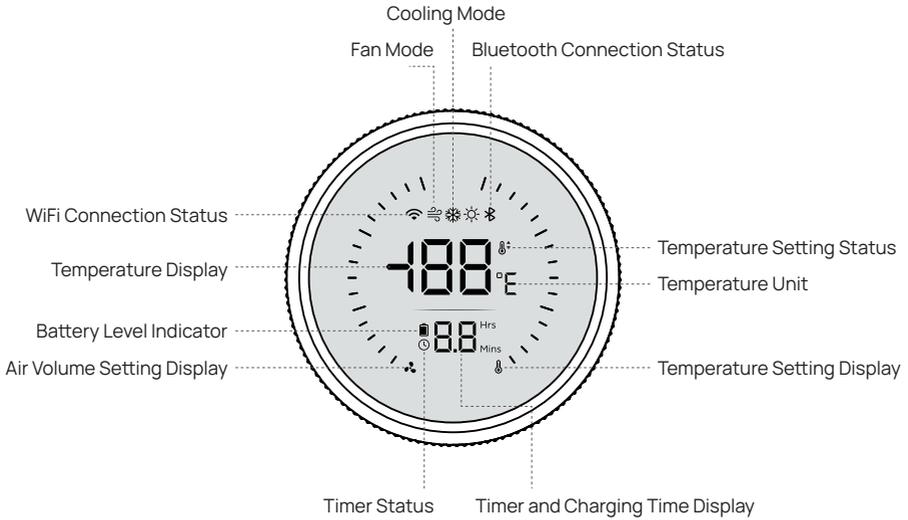
1. It is strictly prohibited to place this product near heat sources, such as fire or heating furnaces.
2. It is prohibited to use this product in strong static or strong magnetic field environments.
3. It is prohibited to disassemble this product in any way or puncture this product with sharp objects.
4. It is prohibited to use wires or other metal objects to cause this product to short circuit.
5. Do not use unofficial components or accessories. If replacements are necessary, please visit EcoFlow's official sales channel for the relevant purchase information.
6. It is strictly prohibited to stack other heavy objects on this product.
7. Avoid impacts, falling, dropping or strong vibrations. In the case of severe external impact, please turn off the power immediately and stop using the product. Keep the product properly secured during transport to avoid vibration and impact.
8. Handle this product with care to prevent it from being damaged due to overturning. If the product is overturned and badly damaged, switch it off immediately.
9. It is strictly prohibited to block or obstruct the inlet or outlets of this product.
10. It is strictly prohibited to overturn this product, as there is a risk of damaging the compressor.
11. Keep this product out of the reach of children and pets. Please supervise children during use and ensure they do not play with the equipment.
12. Store the product in a dry and ventilated place.
13. If the interface of this product becomes dirty, wipe it with a dry cloth.
14. Do not expose this product to rain or sunlight.
15. Handle this product with care. If it is accidentally overturned, it must be left for six hours.
16. It is prohibited to forcibly block the fan during use.
17. Do not drop foreign objects into the fan inlets and outlets as these could damage the fans.
18. Keep the inlets and outlets of the appliance at least 0.5 m away from any walls and other obstructions that interfere with the air inlet and outlet.
19. If the power cable is damaged, it must be replaced by the manufacturer, their service agent or similarly qualified personnel in order to avoid hazards.
20. Do not immerse this product in water or allow it to get wet. Do not use this product in the rain, damp conditions or wet environments.
21. Operating the equipment in a residential environment may cause radio interference.
22. Do not allow persons with reduced physical, sensory or mental abilities or lack of experience and knowledge (including children) to use the appliance unless they are supervised or instructed

3. Getting Started

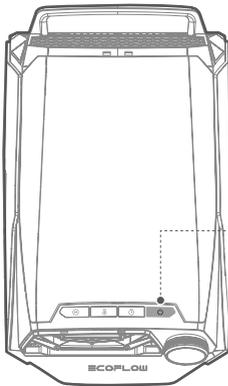
3.1 Description of Appearance



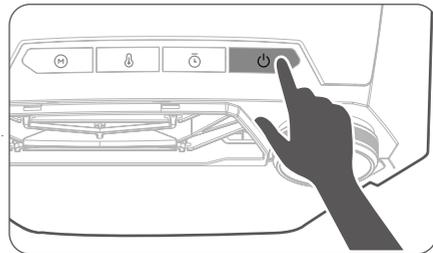
3.2 Icons on the LCD Screen



3.3 Using the Product



Short press the main power button to power on the device
Press and hold the main power button to switch off the device



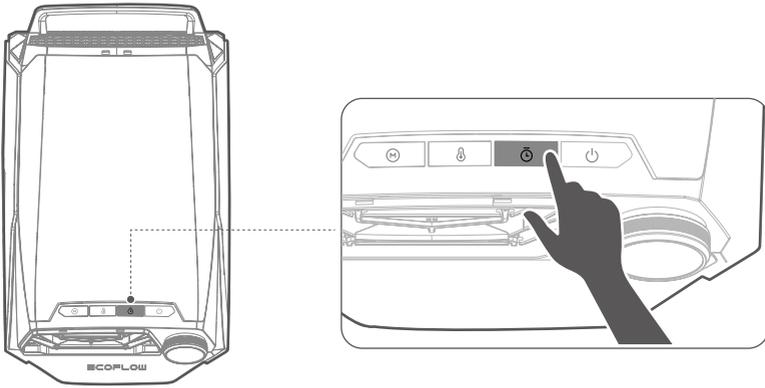
Short press the main power button to power on the device. After the device has started, the LCD screen will be illuminated and the main power indicator light will pulse.

The product will enter Sleep Mode if left idle for 5 minutes without any activity, and the LCD screen will automatically switch off. If the product is then operated, the LCD screen will automatically illuminate. To turn the LCD screen on or off, short press the main power button.

Press and hold the main power button to switch off the machine.

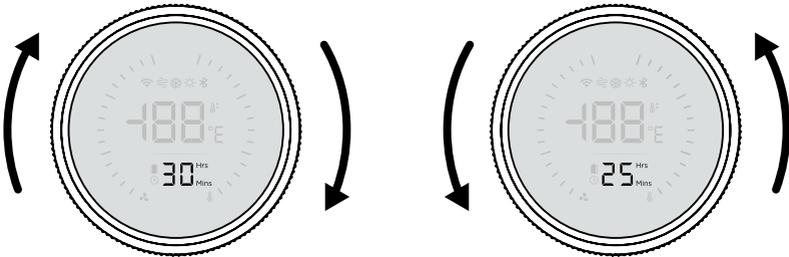
When the Add-On Battery is the only power supply, pressing and holding the main power button will also switch off the Add-On Battery.

Setting the Timer



Short press the timer button. The timer icon and time will flash to indicate that you have entered the timer adjustment interface. Turn the dial to adjust the time – turn clockwise to increase the time or counter-clockwise to decrease the time.

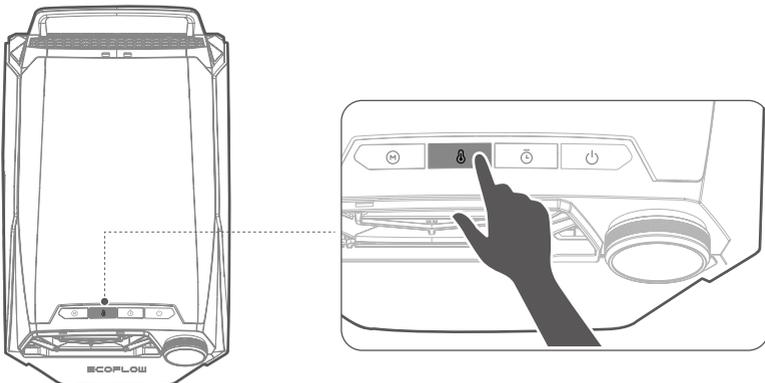
When connected to an AC power supply, the machine automatically shuts down at the set time;
When connected to the Add-On Battery alone, the machine automatically shuts down when the screen battery has enough charge to be used for longer than the set time. If the screen battery cannot be used for the entire set time, the air conditioning has a built-in intelligent power distribution algorithm that reduces the cooling effect by a certain amount to achieve a longer run time.



Turn clockwise to increase the time

Counter-clockwise to decrease the time

Setting the Temperature



Short press the temperature button. The temperature icon and the temperature will flash to indicate that you have entered the temperature adjustment interface. Turn the dial clockwise to decrease the temperature and counter-clockwise to increase the temperature.



Default is air volume setting
Clockwise to decrease the air volume



Default is air volume setting
Counter-clockwise to increase the air volume

Setting the Temperature Unit

Press and hold the temperature button for three seconds to toggle the temperature between Fahrenheit and Celsius.

Intelligent power distribution function: Extends the run time of the machine when connected only to the Add-On Battery/EcoFlow Power Station and when the remaining charge is limited.

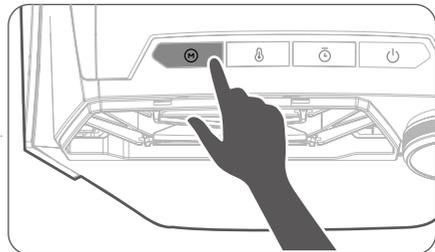
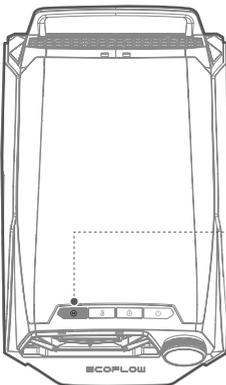


Celsius



Degrees fahrenheit

Setting the Operating Mode



Short press the Mode button to switch to Cooling Mode; short press again to switch to Fan Mode (Fan Mode is only available in Car Charging or Solar Charging Mode)



Air supply mode



Refrigeration mode

No-Drain Function

This product has a self-evaporating, drain-free system that sprays condensation water from the evaporator to the condenser for heat dissipation and evaporation, eliminating the need for frequent drainage in environments with low humidity.

Note: Some water droplets may not evaporate and it is normal for the hot-zone outlet to blow out a few water droplets. The no-drain function drains most of the condensation, but a small amount of water may still remain in the base. To avoid retaining water that may breed bacteria, tilt the machine slightly when not in use to completely drain the remaining water through the drainage port.

Shut Down When Full Function

The product is equipped with a function that shuts it down when it is full of water. When the ambient humidity is high, the air conditioner condensation cannot be completely drained by the no-drain system and the internal water level gradually rises. The machine has an overflow to prevent excessive water storage. After reaching a predetermined water level, the function is triggered to shut down the machine and prompt the user to connect the drainage tube to manually drain the water.

Note: Tilting the product can affect detection of the water level. Excessive tilting can cause the water level to be inaccurately detected, leading to unnecessary shutdown or the product not shutting down when full of water. The product should be positioned as horizontally as possible during use.

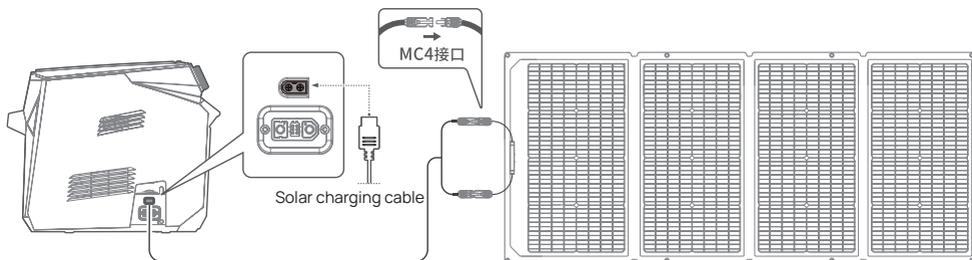
3.4 AC Power Supply

An AC power supply can be connected to power or charge the product.

When the product is connected to AC power, press and hold the main power button and the machine will enter Standby Mode. If a battery is connected, the battery pack will be charged at maximum power.

When the product is connected to AC power, short press the main power button and the device will operate normally. If a battery is connected, the product will prioritize providing power to the air conditioner via the built-in intelligent charging algorithm while simultaneously charging the battery pack at the optimum power.

3.5 Solar Charging

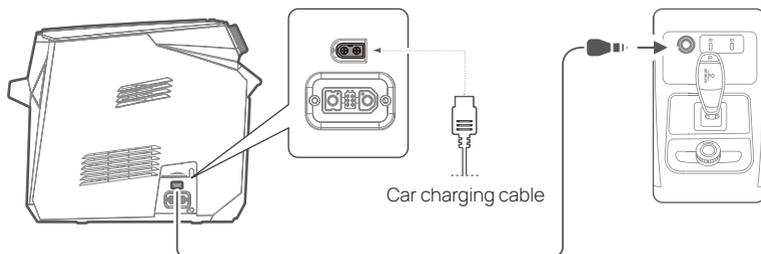


The product can be powered by solar energy. If a battery is connected when the product is in Standby Mode, the battery can be charged at a maximum rate of 200W.

The operating state is limited by the power of the port and can only be operated in Fan Mode when powered separately. There are no restrictions when connected to other power sources (battery pack, AC power). If a battery is connected, it can operate in Fan Mode and charge the battery simultaneously.

Recommendation: Where possible, a battery should be connected when using car or solar charging.

3.6 Car Charging



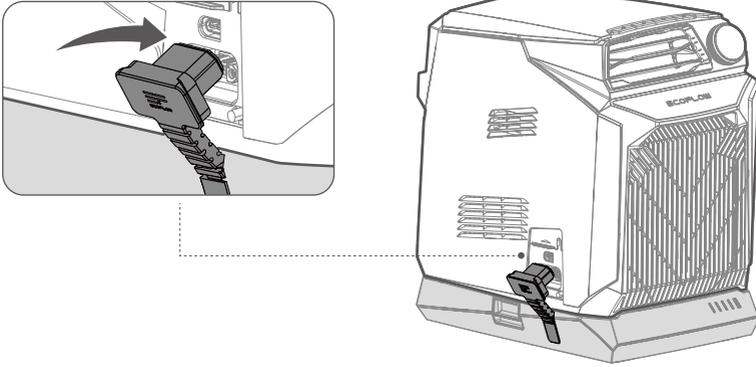
The product can be powered via the in-car charging connector, which can supply a maximum current of 8A (supports 12V/24V) for charging when in standby mode.

The operating state is limited by the power of the port and can only be operated in Fan Mode when powered separately. There are no restrictions when connected to other power sources (battery, AC power). If a battery is connected, it can operate in Fan Mode and charge the battery simultaneously.

Recommendation: Where possible, a battery should be connected when using car or solar charging.

3.7 Connecting the Add-On Battery

EcoFlow Wave Add-On Battery

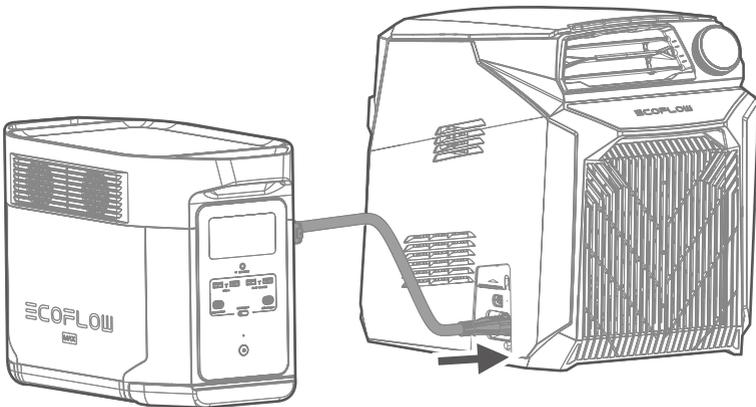


Place the main unit on the top of the battery pack and slide into place. A clicking sound indicates that the main unit is properly connected to the battery pack. Then, insert the battery plug into the battery connector of the air conditioner.

(See battery pack instructions for further details)

Wave supports the following batteries: EcoFlow Wave Add-On Battery, DELTA Max, DELTA Max Extra Battery, DELTA Pro, DELTA Pro Extra Battery.

(If using a portable power station such as DELTA Max)



Take the DELTA Max cable and connect it to the air conditioner; the air conditioner does not come with a separate cable for this.

To connect the DELTA Pro cable to the air conditioner, the adapter must be connected first; the air conditioner does not come with a separate cable and adapter for this.

3.8 Using the App



EcoFlow APP

Control, monitor and customize your portable power station from afar with the EcoFlow App.

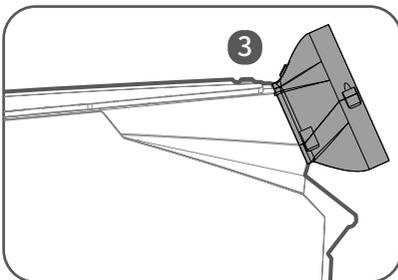
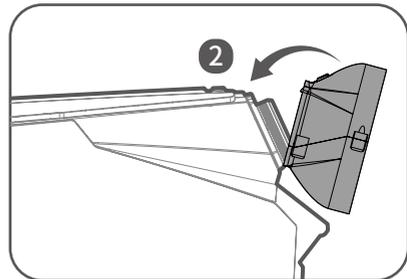
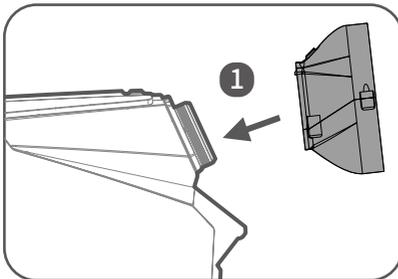
Download at: <https://download.ecoflow.com/app>

Privacy Policy

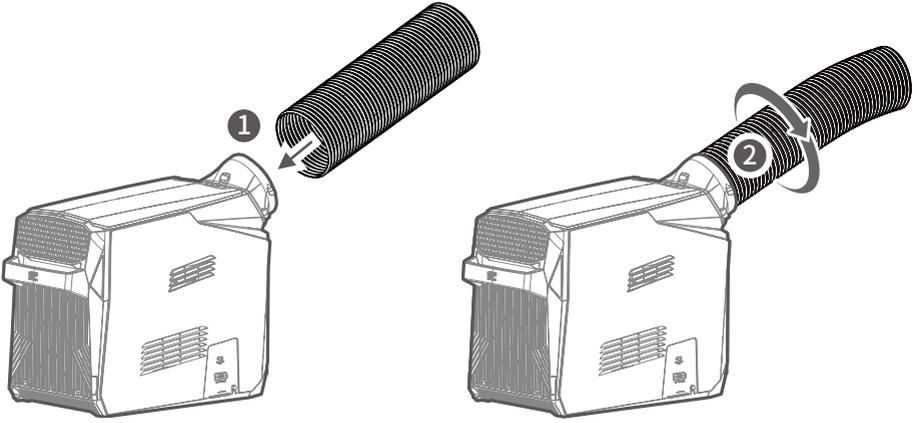
By using EcoFlow Products, Applications and Services, you consent to the EcoFlow Term of Use and Privacy Policy, which you can access via the "About" section of the "User" page on the EcoFlow App or on the official EcoFlow website at <https://www.ecoflow.com/policy/terms-of-use> and <https://www.ecoflow.com/policy/privacy-policy>

3.9 Installation

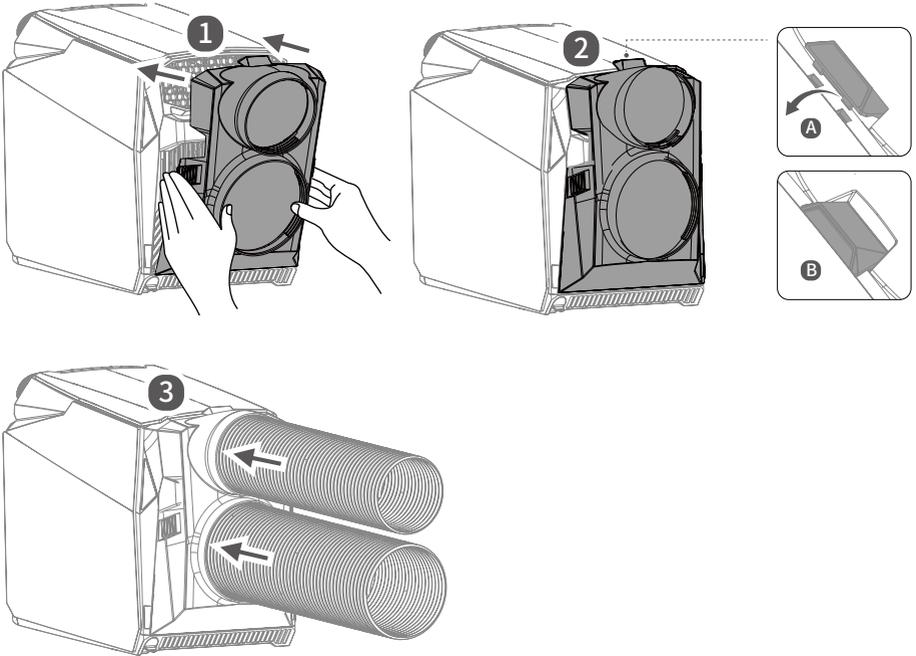
Installing the cold-end fan shroud and duct



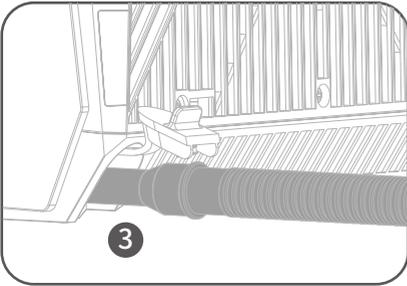
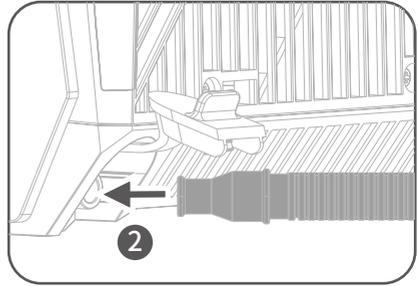
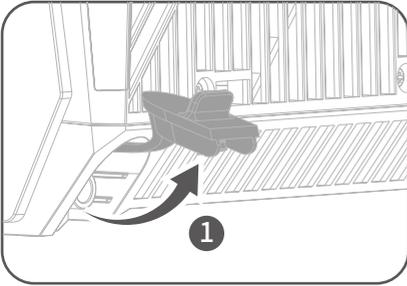
Installing ventilation ducts



Installing the hot-end fan shroud and duct



Installing the drainage tube



Pull the plug upward
Insert the drainage tube

3.10 Use Scenarios

Tent

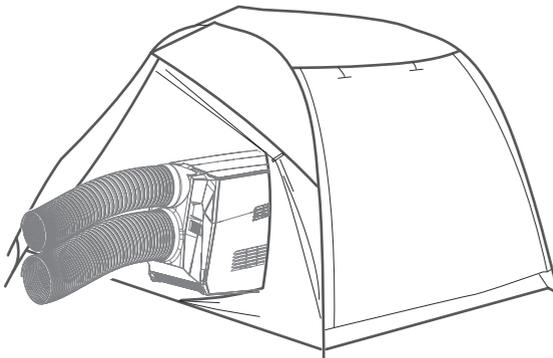
1. Place in an opening in the tent zipper with the cold end inside the tent and the hot end outside the tent



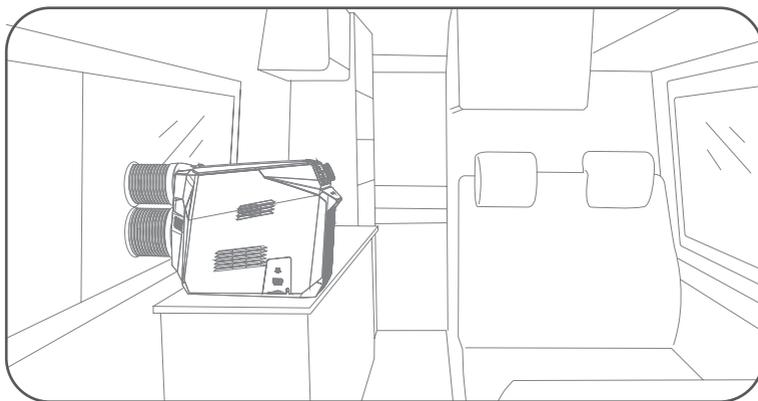
2. Place outside the tent with the cold air vent directed into the tent



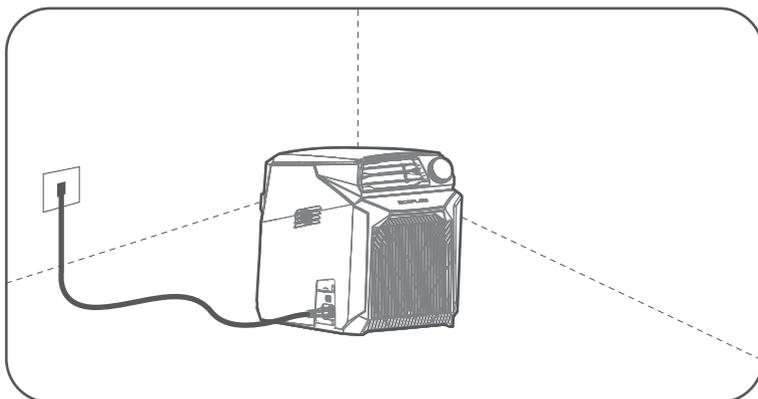
3. Place inside the tent with the hot air vent directed outside the tent



RV



Indoors/kitchen



4. Frequently Asked Questions

No.	Question category	Analysis of cause	Troubleshooting
1	The air outlet does not blow air or blows out little air	<ul style="list-style-type: none"> ① The machine is not powered on or it is not switched on; ② The air intake is obstructed or the blades are too dusty; ③ The fan is not running; 	<ul style="list-style-type: none"> ① Check the power supply or connection, power on properly and switch on the machine; ② Clean the debris from the air intake and regularly clean the dust from the blades with a brush; ③ Check the fan (see no.3);
2	The unit does not cool or performance is poor	<ul style="list-style-type: none"> ① It is not in Cooling Mode; ② The ambient temperature is already at the set temperature; ③ It is outside the usable ambient temperature range or near the upper limit; ④ The machine is mounted incorrectly so that the air inlets and outlets are blocked; ⑤ The compressor is not running; ⑥ Refrigerant leakage; ⑦ Capillary tubes are clogged; 	<ul style="list-style-type: none"> ① Check that the operating mode and temperature are set correctly; ② Refer to the operating temperature range in the user manual. It is normal for the machine to be under a heavier load when the ambient temperature is high and the cooling effect to thus be less; ③ Refer to the user manual to ensure the air conditioner is installed correctly; ④ Check the compressor (see no.4); ⑤ If the compressor is operating normally, there may be a refrigerant leakage or the capillary tubes may be clogged. Consult a professional for service;
3	The fan is not running	<ul style="list-style-type: none"> ① There is a fault with the fan; ② The fan wiring is disconnected or the power cable is broken; ③ The fan is damaged; ④ The main board is damaged; 	<ul style="list-style-type: none"> ① Check the screen for error codes, rectify the fault and try again; ② Check the fan wiring; ③ Replace the fan to confirm whether the fan is damaged; ④ Replace the main board to confirm whether there is a fault;
4	The compressor is not running	<ul style="list-style-type: none"> ① There is a fault with the compressor; ② The compressor wiring is disconnected or the power cable is broken; ② The main board is damaged; ③ The compressor is damaged; 	<ul style="list-style-type: none"> ① Check the screen for error codes, rectify the fault and try again; ② Check the compressor wiring; ③ Replace the main board to confirm whether there is a fault; ④ If the above items are all normal, the problem is most likely with the compressor. The compressor winding resistance can also be checked and it can be checked for abnormal noise, etc. before referring to a professional for service;

No.	Question category	Analysis of cause	Troubleshooting
5	Water is leaking from the base	① The machine is tilted excessively; ② The internal water flow path of the machine is blocked; ③ The internal water pump is not working; ④ The ambient humidity is too high and the drainage pipe is not connected;	① The tilt of the machine should be less than 15°; ② Check the interior for any debris blocking the condensation flow path; ③ Check that the water pump is functioning properly (see no.6); ④ When the ambient humidity is high, there is increased condensation and the drainage pipe must be connected to assist in draining the water;
6	The water pump is faulty	① The water pump wiring is disconnected or the power cable is broken; ② The main board is damaged; ③ The water pump is damaged or the water pump impeller is damaged;	① Check the water pump wiring; ② Replace the main board to confirm whether there is a fault; ③ Replace the water pump or the water pump impeller;

Considerations for use:

- The operation of the air conditioner depends mainly on the exchange of heat from one end to the other. Therefore, when installing avoid blocking or obstructing the air inlet or outlet as this will reduce the cooling effect.
- It is recommended that the area to be cooled be less than 5m² and without direct sunlight, since sunlight can increase the temperature in the space and reduce the cooling effect.
- Air conditioners can be used in different scenarios using air ducts, which should be installed as short as possible and with a good bending curve to avoid causing excessive air resistance and affecting the efficiency of the air conditioner.
- The air conditioner has a built-in water pump to provide the no-drain function. However, if the ambient humidity is high the drainage pipe must be connected to assist in draining the water.
- The air conditioner should be switched off via the power switch, and users should avoid directly pulling the plug out or shutting off the power to switch it off, as this may reduce the service life of the air conditioner.
- The power cable provided by EcoFlow should be used as the AC power cable for the air conditioner. The power plug should be plugged in firmly and not be loose, as this will result in poor contact and damage the air conditioner.
- To avoid frequent stopping and starting of the compressor, the compressor is set to stop for at least two minutes after switching off. It is normal for the compressor to not move for two minutes when switching on and off within a short period of time.
- The air conditioner must be placed as horizontally as possible; it is not recommended to exceed the maximum tilt angle of 15°, otherwise the reliability of the system operation will be reduced.
- Avoid exposure to rain or sunlight during operation, otherwise air conditioner components could be damaged.

5. Troubleshooting

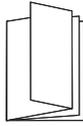
Fault code	Fault name	Solution
5	Wireless module failure	Disconnect the power supply (including the battery) and restart the machine
10-12	Electric drive board fault	Disconnect the power supply (including the battery) and restart the machine. If the problem persists, upgrade the system via the app and ensure it has the latest firmware version
20-35	Power board fault	Disconnect the power supply (including the battery pack) and restart the machine. If the problem persists, upgrade the system via the app and ensure it has the latest firmware version
40-44	Temperature sensor fault	Disconnect the power supply (including the battery) and restart the machine
60	Water level fault	Open the drainage port to drain the water, then restart the machine
61	Cold zone fan fault	Disconnect the power supply (including the battery) and restart the machine
62	Hot zone fan fault	Disconnect the power supply (including the battery) and restart the machine
63 or 65	Overheat protection	Remove any obstructions at the hot zone inlet and outlet, leave the machine for five minutes then restart the machine
64	Overcooling protection	Remove any obstructions at the cold zone inlet and outlet, leave the machine for five minutes then restart the machine

Note: If the user still cannot solve the fault after handling the above solutions, please contact the after-sales personnel for maintenance.

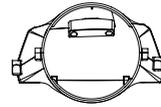
6. What's In the Box



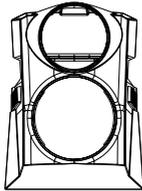
Air conditioning unit



User Manual & Warranty Card
& App Quick Guide



Cold-end outlet shroud



Hot-end outlet shroud



Air duct (diameter 6.3 in,
length 39.37 in)



Air duct (diameter 5.12 in,
length 39.37 in)



Drainage tube (diameter
0.71 in, length 39.37 in)

7. Maintenance

1. After the machine has been shut down for storage, close the socket cover to prevent the ingress of dust.
2. After the machine has been shut down for storage, any water droplets must be manually removed from inside the machine to prevent the formation of bacteria during long-term storage and avoid water spillage when the machine is moved.
3. It is recommended that this product be stored at 20°C to 30°C (68°F to 86°F) and kept away from water, heat sources and other metal objects.

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