EcoNet-HP Heat Pump Thermostat

(User Guide)

Service

Your thermostat carries an 24 months warranty from date of purchase. Service out with the warranty period may incur a charge. More detail please contact with us directly.

CAUTION

1.Electrical Shock or Equipment Damage Hazard.
Can shock individuals or short equipment circuitry.
Disconnect power supply before installation.
2.Check whether the power supply is 24V, if it is 95-220V
Thermostat can't be used.

Overview of this guide

Welcome

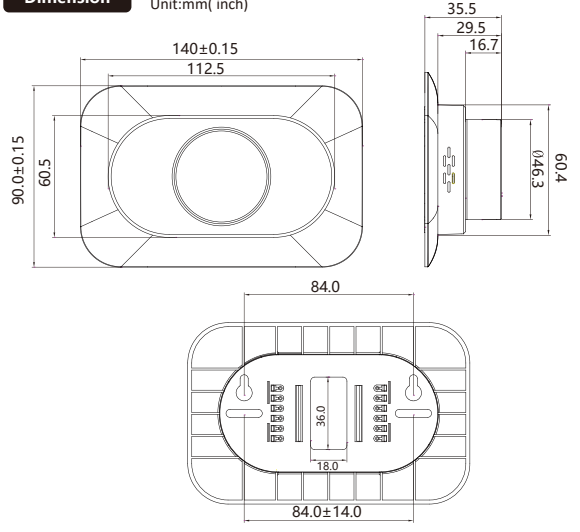
Thank you for your purchase.
Your new thermostat will provide uniform and comfortable temperature Control throughout every room in your property.
We bring together technology craftsmanship and the highest quality materials to provide you with a safe, reliable product combined with sleek, contemporary design. Please read this installation/programming manual for comprehensive instructions on installing and operating your thermostat. Please also ensure a suitably qualified person installs your thermostat and complies with all local regulations.

In The Box

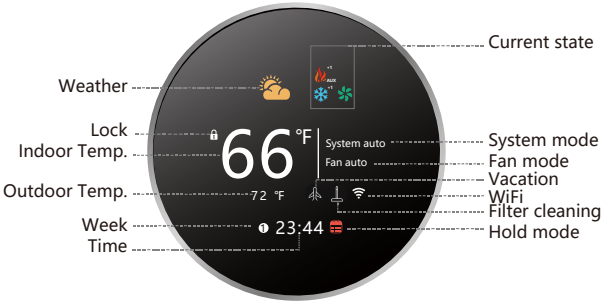
Thermostat *1;	Marking tape *1;	Screws *4;
QC Passed *1;	User Guide *1;	Power Module *1 (Optional) ;

Dimension

Unit:mm(inch)



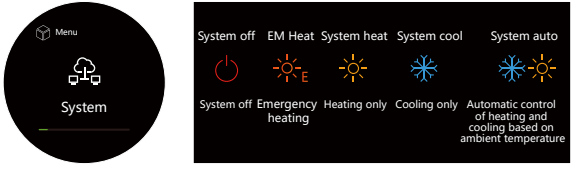
Main Page



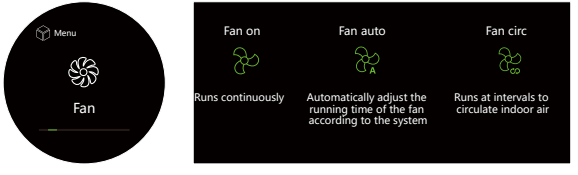
Click the on-screen button to enter menu:

System; Fan; Hold; WiFi; ℃/℉ switch; Clock; Child lock; Temp Calibration; Brightness; Setting

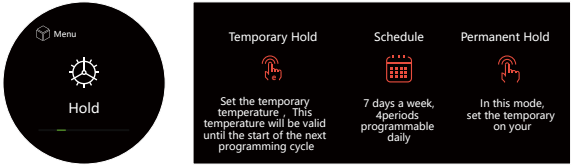
1. System mode



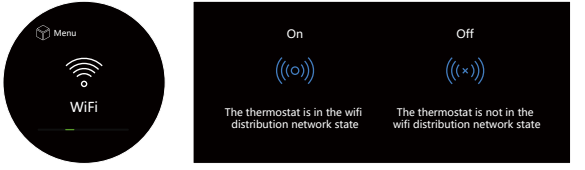
2. Fan mode



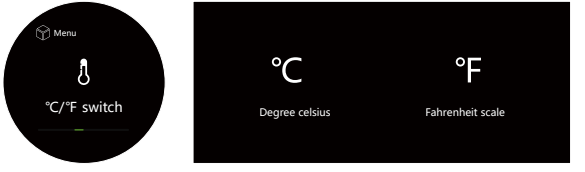
3. Hold mode



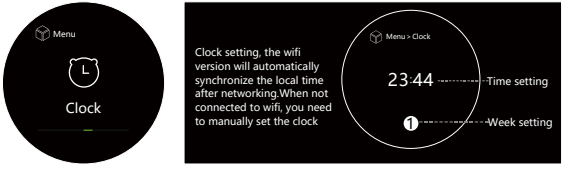
4. WiFi



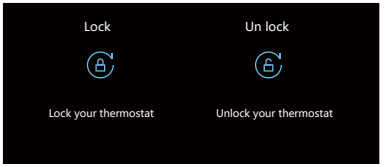
5.℃/℉ switch



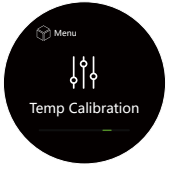
6. Clock setting

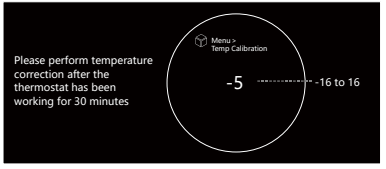


7. Child lock

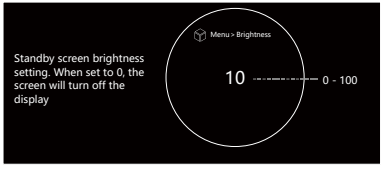


8. Temp Calibration

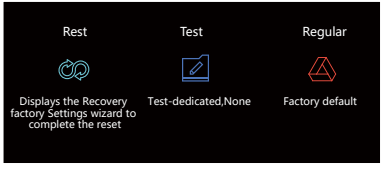




9. Brightness

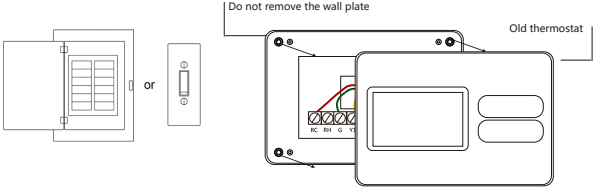


10. Setting



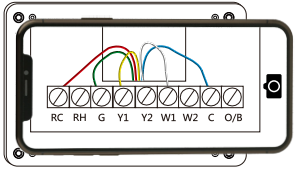
Installation

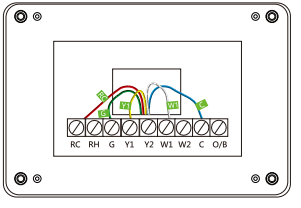
1. Power off, remove the old thermostat.
Note: Do not remove the wall plate;



2. Take a picture of your old thermostat wires how to connect to the terminal;

3. Label the wires with Tags;

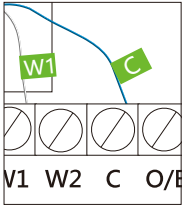




4. Please confirm old thermostat if have C wiring(Blue line).

Yes → Plan A

No → Plan B



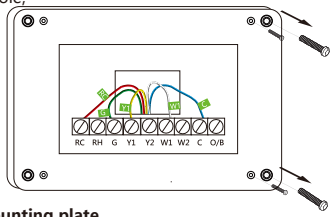
Terminal designation

Terminals	What it means
Rh	24VAC primary for heating
Rc	24VAC primary for cooling
C	24VAC Common Wire
W1	Heat Relay (Stage 1)
W2	Heat Relay (Stage 2)
Y1	Compress Relay (Stage 1)
Y2	Compress Relay (Stage 2)
G	Fan Relay
O/B	Heat Pump Changeover Valve
S	Optional wiring module terminal to combine Y and G, while reserve an extra in-wall wire to power on the thermostat

Plan A:

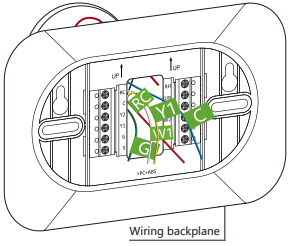
1. Remove the wall plate

Unscrew the wall plate from the wall and gently pull it to ensure the wires do not fall back into the hole;



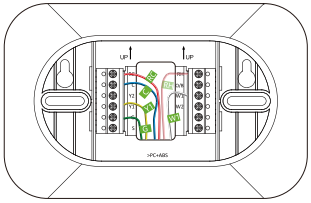
2. Connect the mounting plate

Wire the cables through the holes in the temperature controller mounting plate;



3. Connect the wires to the base

Note: Connect the R or RC wire into the RC terminal, Connect other wires to the corresponding terminals;



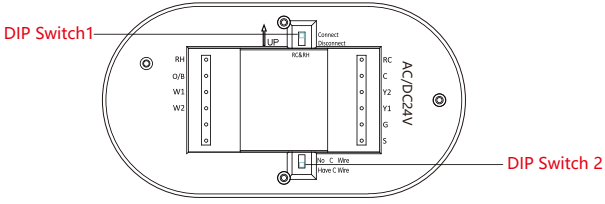
4. DIP Switch

DIP Switch 1

If you have connected both the RC-wire and the RH-wire to the wall plate, adjust the DIP on the back of the thermostat to Disconnect ,otherwise switch it to Connect;

DIP Switch 2

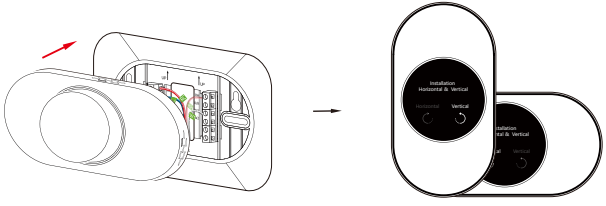
About whether you need to link the C wire， adjust the DIP on the back of the thermostat to have C wire ;



5. Attach the thermostat on base

6. Power on your system

Once powered up, the thermostat screen will light up and display the setup wizard to complete configuration.

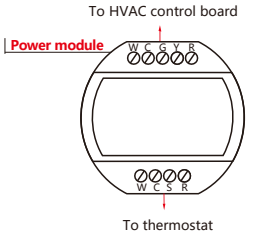


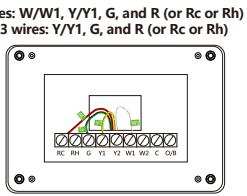
Plan B:

What is Power Module?

Power module requires your system to have the following wires:

The C-wire is used to provide power to the thermostat. If your system does not have the "C" wire, can use the power module to power your thermostat using the existing wires.There are 2 sides with connections, 4 terminals is for thermostat, 5 terminals is for the control board connections.



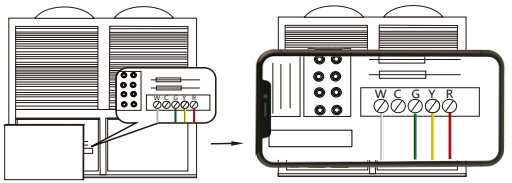


If you do not have these wires, your system may not be compatible with the power module.

Install the Power Module

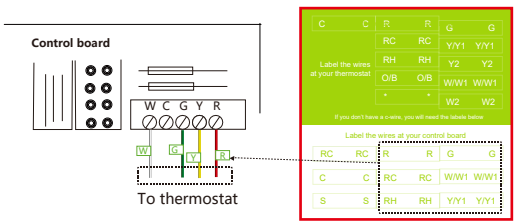
1. Find the HVAC terminals

Find and open the HVAC system's cover. take a picture of the wires connected to the terminals of your old thermostat, you may need to reference this photo later;



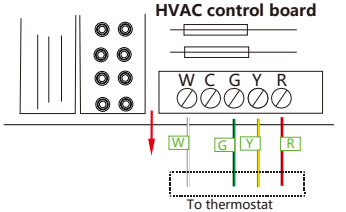
2. Label the wires

Only label the wires from the control board to the old thermostat;



3. Disconnect the wires

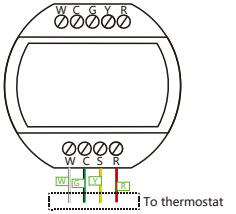
Disconnect wires of W/W1, Y/Y1, R to thermostat from control board;



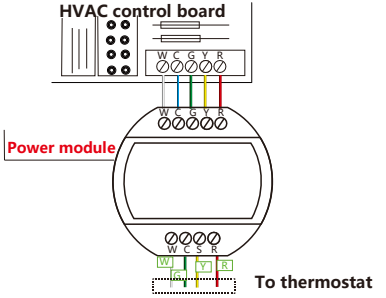
4. Connect the wiring module

Reconnect these wires to the 4-terminal side of the power module.
The wires and corresponding terminals are show below;

W/W1→W; G→C; Y/Y1→S; R→R

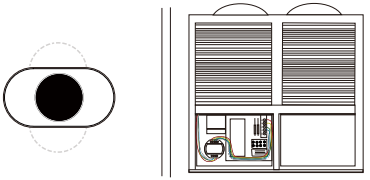


5. Connect the wires 5-terminal connect to HVAC control board side;



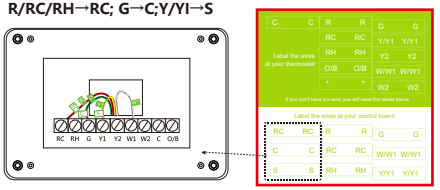
6. Position the wiring module

The power module should be installed between your thermostat wiring and your control board. Install it at the right position then close the HVAC cover panel securely and return to your thermostat;

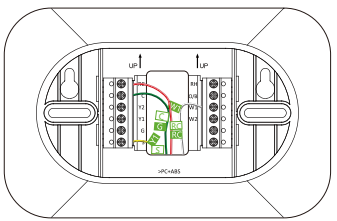


7. Add new tags : Add new taps to the following tags to simplify your wiring;

R/RC/RH→RC; G→C;Y/YI→S



8. Connect the wires to the wallplate : First connect 3 wires as shown below;



RC,C,S

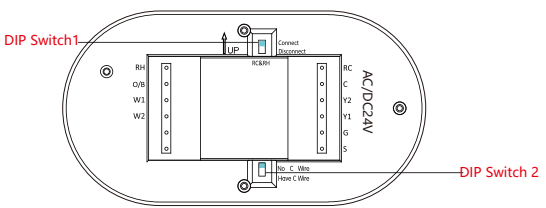
9. DIP Switch

DIP Switch 1

If you have connected both the RC-wire and the RH-wire to the wall plate, adjust the DIP on the back of the thermostat to Disconnect ,otherwise switch it to Connect;

DIP Switch 2

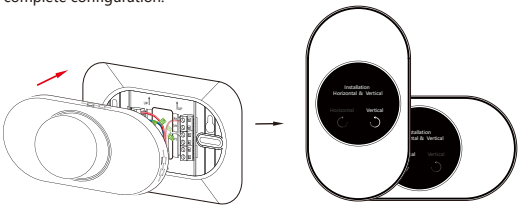
About whether you need to link the C wire, adjust the DIP on the back of the thermostat to No C wire ;



10. Attach the thermostat on base

11. Power on your system

Once powered up, the thermostat screen will light up and display the setup wizard to complete configuration.



After the initial thermostat is powered on, the following settings are required:

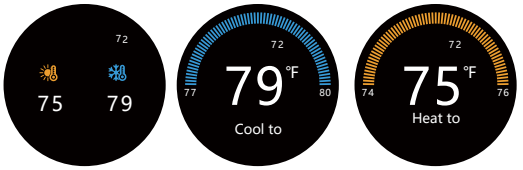
1、Installation horizontal &vertical;
2、Is it a heat pump?
3、Is there O/B wire?
4、How to control heat fan? →By thermostat/By furnace;
5、How to set O/B? →O/B on cool/O/B on heat;

Technical date

Power Supply	•	24VDC/AC +10%
Current Load	•	1A (Inductive) 3A (Resistance)
Sensor	•	NTC3950, 10K
Set Temp. Range	•	41-95 ℉ (5~35℃)
Accuracy	•	1 ℉ (0.5℃)
Display Temp. Range	•	41~95 ℉ (5~35℃)
Ambient Temp.	•	32~113 ℉ (0~45℃)
Ambient Humidity	•	5~95%RH(Non Condensing)
Storage Temp.	•	23~113℉ (-5~45℃)
Timing Error	•	<1%
Power Consumption	•	<1.5W
Shell Material	•	PC+ABS(Fireproof)
Available Installation	•	Wall mounted
Wire Terminals	•	Wire 2x1.5mm² or 1x2.5mm²
Protection Class	•	IP20

Operation

During Power On the rotary knob can set the temperature directly at the main display boundary. In the system automatic mode, the heating and cooling temperatures need to be set respectively.



1. Click on the screen to enter the menu screen.
2. The rotation knob selects 10 functions in turn (including system, fan, hold, WiFi, temperature unit switch, time, child lock, temperature compensation, brightness, setting)
3. Press the screen in the menu interface to enter the next level submenu and rotate the knob to set the function.
4. Set the completion point to press the screen to return to the previous level menu, and long press the screen to return to the main display interface.

1. System
Enter the menu interface to select the system, click the screen to enter the next level sub-menu, Rotate the control interface to select
EM heat(Emergency heating);
Off(Off system). **Cool**(Cooling only); **Heat**(Heat only);
Auto(Automatic control of heating and cooling based on ambient temperature);

2. Fan
Enter the menu interface to select the Fan, click the screen to enter0 the next level sub-menu, Rotate the control interface to select
On(Runs continuously);
Auto(Automatically adjust the running time of the fan according to the system);
Circ(Runs at intervals to circulate indoor air)

3. Hold
Enter the menu interface to select the Hold, click the screen to enter the next level sub-menu, Rotate the control interface to select
Schedule: Using Schedule.7 days a week,4periods programmable daily.
Permanent hold-manual: In this mode,set the temporary on your App or Press the control interface to confirm.
Temporary hold: During using schedule or in this mode， set the temporary temperature on your app. This temperature will be valid until the start of the next programming cycle.

Such as:

Schedule	Time	Heat	Cool
Wake	8:30AM	73℉ (23℃)	78℉ (25℃)
Away	11:30AM	73℉ (23℃)	78℉ (25℃)
Home	13:30PM	73℉ (23℃)	78℉ (25℃)
Sleep	17:30PM	73℉ (23℃)	78℉ (25℃)

4. WiFi
Enter the menu interface to select the WIfi, click the screen to enter the next level sub-menu, Rotate the control interface to select
OFF: The thermostat is not in the wifi distribution network state.(default OFF)
ON: The thermostat is in the wifi distribution network state.

5. ℃/℉ Switch
Enter the menu interface to select the ℃/℉ Switch , click the screen to enter the next level sub-menu, Rotate the control interface to select (default ℉);
℃: degree celsius
℉: Fahrenheit scale

6. Clock
Enter the menu interface to select the Clock , click the screen to enter the next level sub-menu, Rotate the control interface to select
Clock setting, the wifi version will automatically synchronize the local time after networking. When not connected to wifi, you need to manually set the clock.

7. Child lock
Enter the menu interface to select the Child lock , click the screen to enter the next level sub-menu, Rotate the control interface to select
unlocked :unlock your thermostat;
lock:lock your thermostat

8. Temp calibration
Enter the menu interface to select temperature compensation, click the screen to enter the next submenu, and select through the knob (-16 to 16, default -5); please perform temperature correction after the thermostat has been working for 30 minutes.

9. Brightness
Enter the menu interface to select the Brightness , click the screen to enter the next level sub-menu, Rotate the control interface to select (0 to 100 , default 10);Standby screen brightness setting. When set to 0, the screen will turn off the display.

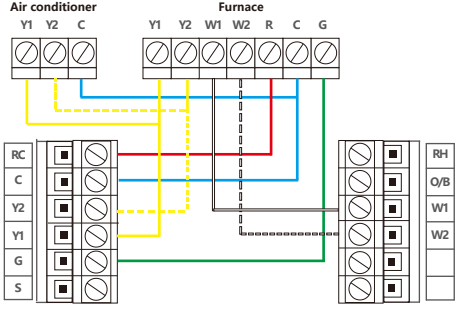
10.setting
Enter the menu interface to select the setting , click the screen to enter the next level sub-menu, Rotate the control interface to select
Regular: Factory default
Test:Test-dedicated,None
Rest: Displays the Recovery factory Settings wizard to complete the reset

11. Advance Options:
Please set it in the APP advanced options submenu after the thermostat network distribution is completed

Wiring diagrams

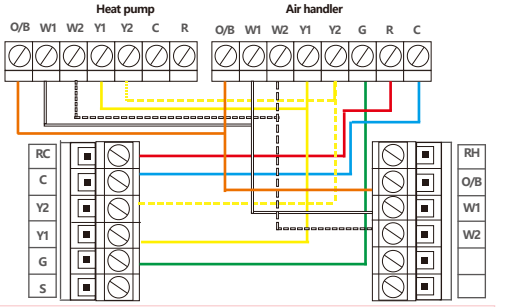
Below are the wiring diagrams for common HVAC equipment.

Conventional heating and cooling system



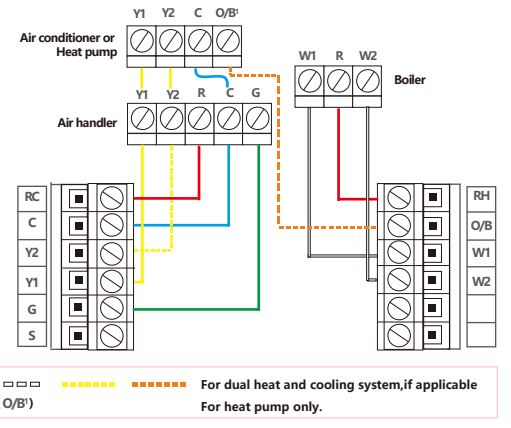
Remove the jumper between Rh, Rc, or R terminals, adjust the DIP switch on t he back of the thermostat to 'Disconnect' if you have connected both RC-wire and RH-wire to the wallplate, otherwise switch it to the 'Connect' side

Heat pump (air or geothermal) with auxiliary heat



Remove the jumper between Rh, Rc, or R terminals, adjust the DIP switch on the back of the thermostat to 'Disconnect' if you have connected both RC-wire and RH-wire to the wallplate, otherwise switch it to the 'Connect' side.

Boiler or radiant system with air handler and conventional cooling or heat pump



Remove the jumper between Rh, Rc, or R terminals, adjust the DIP switch on the back of the thermostat to 'Disconnect' if you have connected both RC-wire and RH-wire to the wallplate, otherwise switch it to the 'Connect' side.

ABOUT WIFI
CONNECTION

Before using your Wi-Fi thermostat for the first time, you must configure the Wi-Fi signal and settings using your smartphone or tablet. This enables communication between your devices.

Step 1 Download your APP (Fig1-1)

Fig 1-1

Fig 1-2 IOS/Android

Search for "Smartlife" in Apple Store or Google Play or use a browser to scan the QR code above (Fig 1-2), and complete account registration and installation according to the guidance of the APP.

Step 2. Connect the thermostat
Check the tutorial below to complete the connection and set up

Method 1: When the thermostat WiFi is turned on(Fig2.1-Fig.2.2) , Connect the mobile phone to WiFi and turn on Bluetooth. Add according to figure (Fig 2.3-Fig2.6)

Fig2.1

Icon flashing

Fig2.2

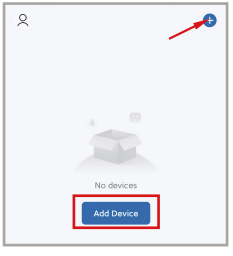


Fig2.3

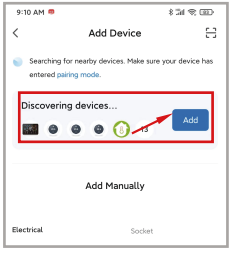


Fig2.4

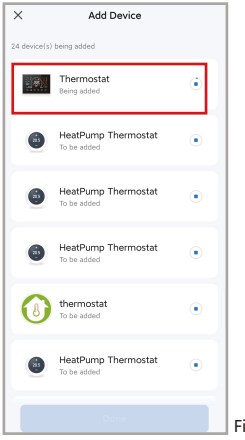


Fig2.5

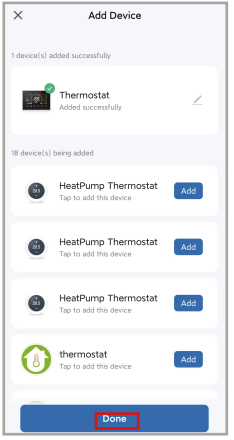


Fig2.6

Method 2: Scan the QR code to configure the network guide
(Fig 2.3&Fig 2.7-Fig 2.9)

This QR code must be scanned in the APP,
Quick jump thermostat pairing.

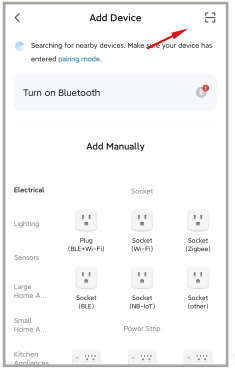


Fig2.7

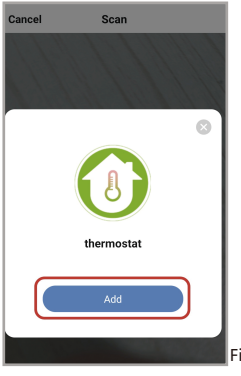


Fig2.8

Method 3: Ordinary distribution network guidance (Fig. 2. 3&Fig. 2.7.1-Fig.2.9)

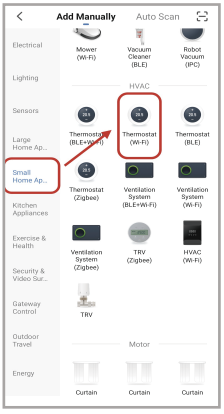


Fig2.7.1

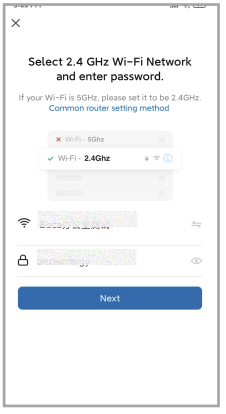


Fig2.9

Network distribution mode:

EZ Mode

Set the thermostat wifi to ON state, the "" icon on the main interface screen will flash, then follow the steps below (Fig 2.10-Fig 2.13.

Fig2.10

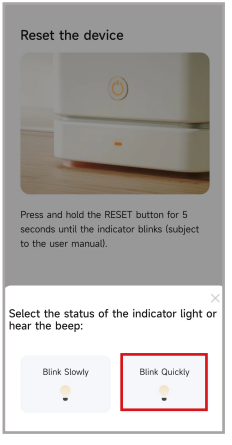


Fig2.11

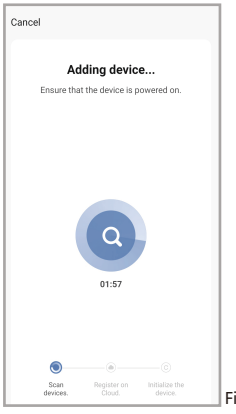


Fig2.12

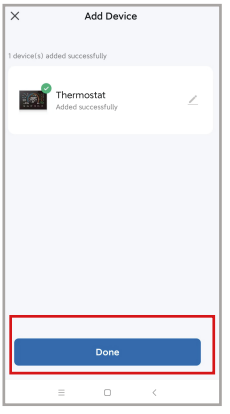
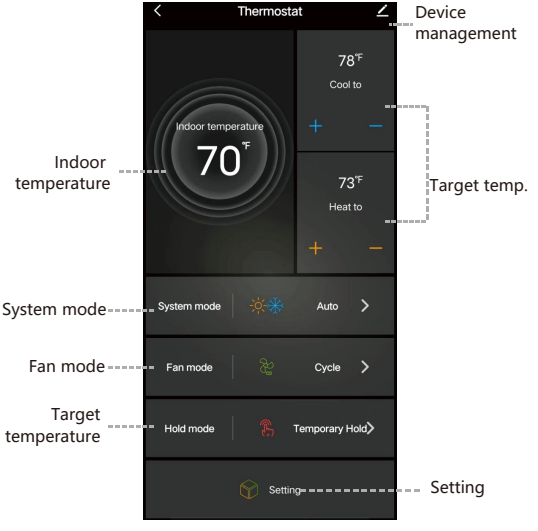


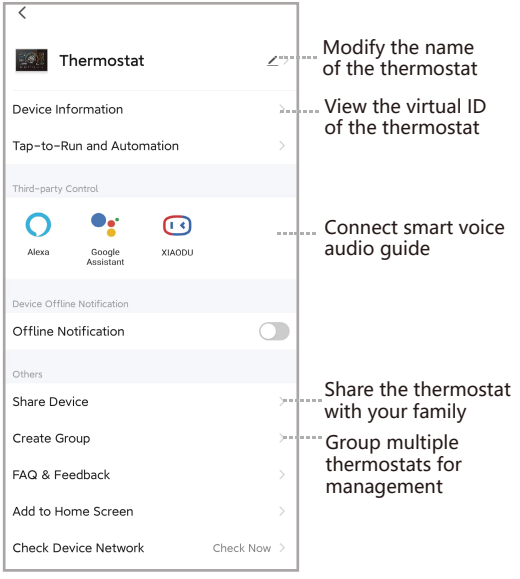
Fig2.13

APP operation interface description (Heat pump thermostat)



System mode: Display the current system mode.tap it to switch the mode.
Fan mode: Display the current fan mode. Tap it to switch the mode.
Hold mode: Display's the current hold mode,Tap it to switch the mode.
Target temperature: Turn up/down the target temperature.
Setting: You can edit the setting of device, such as Schedule, Holiday mode, Fan run time etc.

Device setting



More settings