

13. SPECIFICATIONS

Purpose of control.....	Operating-Control
Construction of control.....	Independently Mounted Control
Type of Action.....	Type 1.B Action
Pollution Degree.....	2
Rated Impulse Voltage.....	330 V
The display range of temperature.....	32°F to 97°F (0°C to 36°C)
The control range of temperature.....	45°F to 90°F (7°C to 32°C)
Load rating.....	1 amp per terminal, 1.5 amp maximum all terminals combined
Display accuracy	± 0.5°C
Power source.....	18 to 30 VAC, For Use in Class 2 Circuit Only, 50/60 Hz for hardwire (common wire)
Operating ambient.....	41°F to +95°F(5°C to +35°C)
Operating humidity.....	90% non-condensing maximum
Dimensions of thermostat.....	130mm*83mm*27mm

If there are any questions or concerns please contact: admin@skemastech.com



INSTALLATION MANUAL

SK-T05

Touch-Screen Programmable Thermostat



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1. Preface

Dear client:

Thank you for choosing SK-T05 thermostat series. It is our hope to add convenience to your daily life. Before installing, please read the User's Manual carefully to ensure proper safety and correct usage.

2. Production Function Overview

2.1 Application

Description	
1 stage Heat and 1 stage Cool	Yes
Gas or Oil Heat	Yes
Electric Furnace	Yes
Heat Pump (NO Aux. or Emergency Heat)	Yes
Heat Only Systems	Yes
Heat Only Systems - Floor or Wall Furnaces	Yes
Cool Only Systems	Yes
Millivolt	Yes

2.2 Feature

- Be able to operate your air conditioner whenever and wherever you are with your mobile phone.
- Mobile phone control and suitable for Android & IOS systems.
- Programmable thermostat
- Everyday Programmable
- Easy to program
- Easy to install
- Full and touch screen
- 24V Hardwire
- Operate on 1 stage Heat and 1 stage cool
- Heat Pump without Aux or Emergency Heat
- Separate heating and cooling swing (cyclerate) adjustments
- 5 minutes compressor delay protection (selectable on or off)
- Gas, Electric or Oil
- Optional temperature display of Fahrenheit or Celsius scale.
- Display temperature calibration

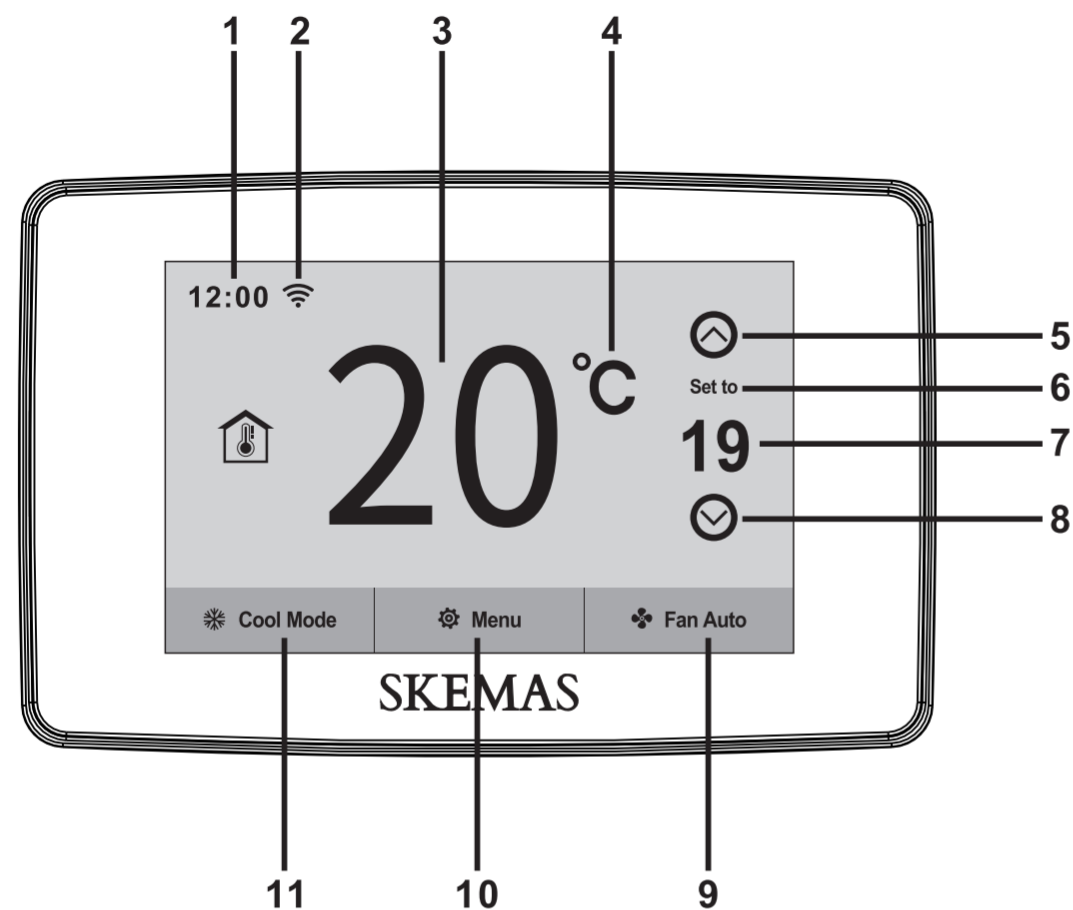


A trained, experienced technician must install this product.

Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

Ce produit doit être installé par des techniciens formés et expérimentés.
Lisez attentivement ces instructions. Si vous ne suivez pas ces instructions, cela peut endommager ce produit ou créer un danger.

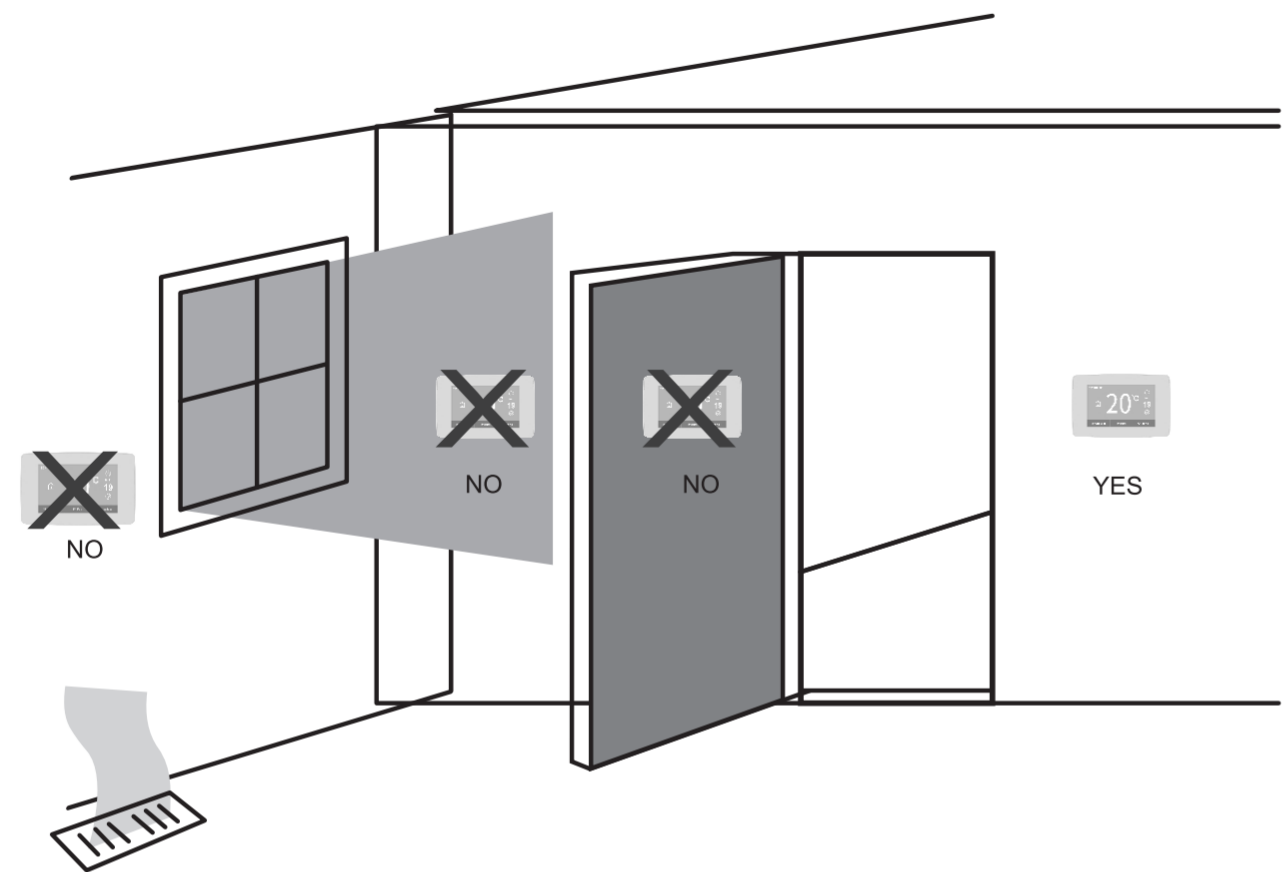
3. Diagram and Description



Item	Description
1	System clock: The network time is displayed when the network is connected and the local time is displayed when the network is not connected.
2	WiFi icon: This icon is displayed after connected to the network, and the icon will flash when configuring the network.
3	Ambient temperature: Displays the current ambient temperature.
4	Temperature: To display the current temperature.

5	Temperature up: Increase the temperature by 1 degree with each touch.
6	Running status: When manual mode is running, displays “Set to”; when programming state is running, displays “Schedule”.
7	Set temperature: Display the current set temperature.
8	Temperature down: Decrease the temperature by 1 degree with each touch.
9	Fan mode: Select “always on” or stop automatically once the temperature reaches the set degree.
10	Parameter setting: Sleep setting, interface setting, WiFi distribution network, weekly timing setting, operation parameter setting and factory settings can be restored respectively.
11	Mode button: Select Cooling, Heating, or Power OFF.

The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation.



Do not install thermostat in following places:

- Close to hot or cold air ducts
- With direct sunlight
- With an outside wall behind the thermostat
- The areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where there might be concealed chimneys or pipes

Installation Tip

Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.



Caution:
Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

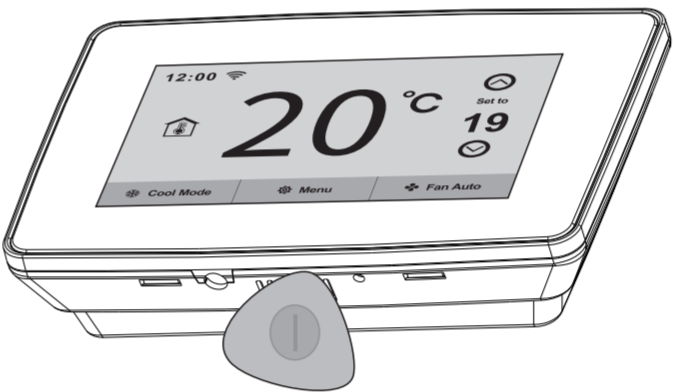
Attention:
Dangers électriques
Ne pas débrancher l'alimentation avant de commencer l'installation de ce produit peut entraîner une électrocution ou des dommages à l'équipement.



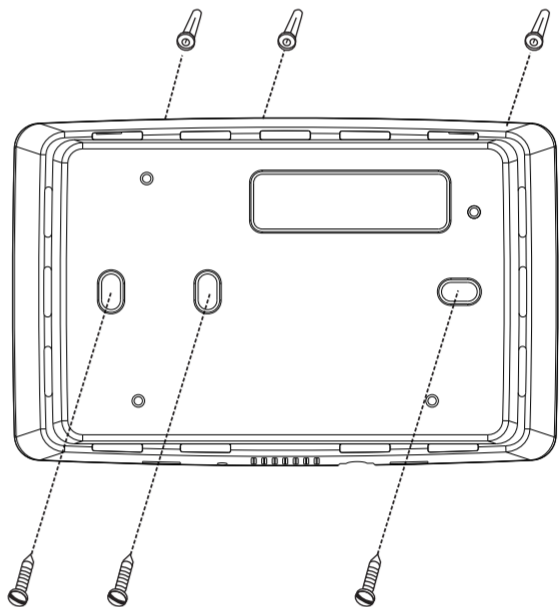
Caution:
Equipment damage hazard

Do not operate the cooling system if the outdoor temperature is below 50° F (10° C) to prevent possible compressor damage.

Attention:
Risque de dommages à l'équipement
Si la température extérieure est inférieure à 10 °C (50 °F), n'utilisez pas le système de refroidissement pour éviter que le compresseur ne soit endommagé.



Insert the awl into the slot and pry up the front part of the panel to open it.



For horizontal mount put one screw left and one screw right.

6. WIRING



Caution: Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

Attention: danger électrique

Ne pas débrancher l'alimentation avant de commencer l'installation de ce produit peut entraîner une électrocution ou des dommages à l'équipement.

Wiring

1. If you are replacing a thermostat, take notice of the terminal connections on the cases, the wiring connections may not be color coded. For example, the green wire may not be connected to the G terminal.
2. Loosen the terminal block screws. Insert wires then retighten terminal block screws.
3. Place nonflammable insulation into wall opening to prevent drafts.

Terminal Designation

- C Common wire from secondary side of cooling system transformer
- O Heat pump changeover valve energizes in cooling
- B Heat pump changeover valve energizes in heating
- W Heat relay

- RH Transformer power for heating
- RC Transformer power for cooling
- R Transformer power for cooling
- G Fan relay
- Y Compressor relay

Wiring Tips:

RH & RC terminals

For single transformer systems, leave the jumper wire in place between RH and RC. Remove jumper wire for two transformer systems.

Wire specifications

Use shielded or non-shielded 18 - 22 gauge thermostat wire.



Warning :

All components of the control system and the thermostat installation must conform to Class III circuits per the NEC Code.

Avertissement:

Tous les composants du système de commande et de l'installation du thermostat doivent être conformes aux circuits de classe III des spécifications NEC.



Caution:

Do not over tighten terminal block screws, as this can damage terminal block, and keep the thermostat fitting on the sub-base correctly or it will cause system operation issues.

Max Torque = 6in-lbs

Attention:

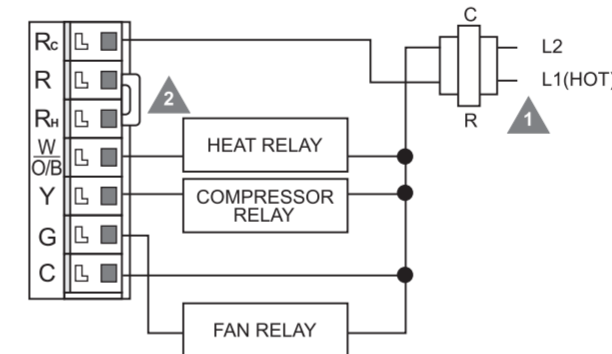
Ne serrez pas trop les vis du bornier, car cela pourrait endommager le bornier et installer correctement le thermostat sur la base, sinon cela pourrait causer des problèmes de fonctionnement du système.

Couple maximal = 6in - LBS

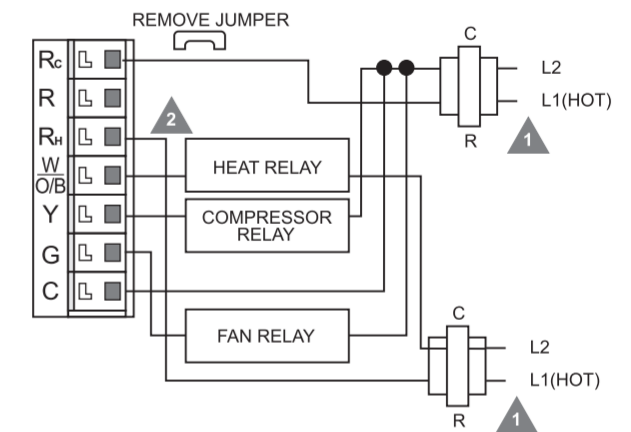
7. WIRING DIAGRAMS

- 1 Power supply
- 2 Factory-installed jumper. Remove only when installing on 2-transformer systems
- 3 In heat pump mode, please check the reversing valve to see whether it is in **O** or **B** position, and enter the system to set reversing valve to the position you need.
- 4 The system is in the electronic mode in default setting. If the system is gas or oil supported, enter the setting interface to set it in the gas mode.

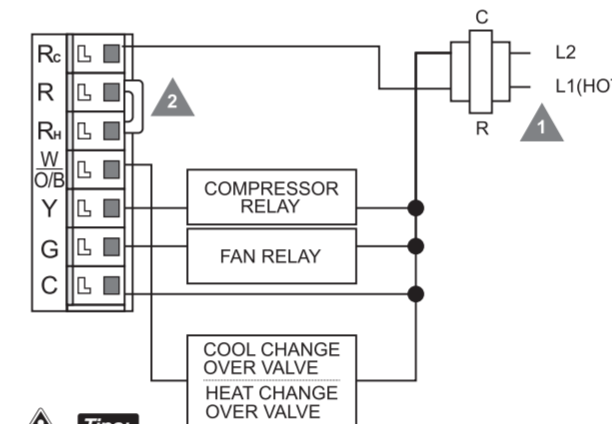
Typical 1H/1C system: 1 transformer



Typical 1H/1C system: 2 transformer



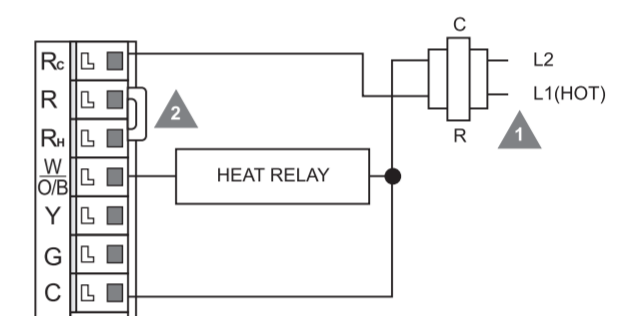
Typical 1H/1C heat pump system



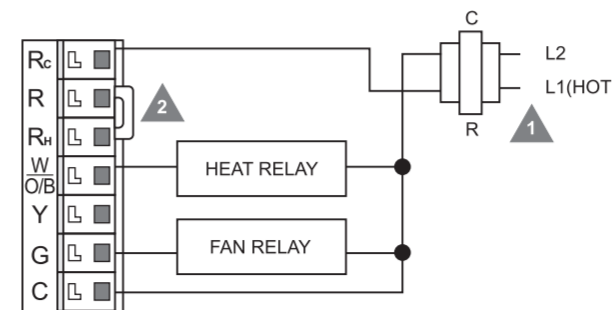
Tips:

1. Please set on the heat pump system first.
1. Veuillez d'abord régler le système de pompe à chaleur.
2. Please set the valve as heating/cooling system.
2. Veuillez régler la vanne comme système de chauffage/refroidissement.

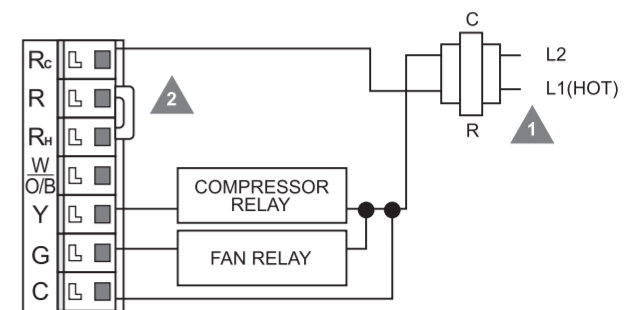
Typical heat-only system



Typical heat-only system with fan



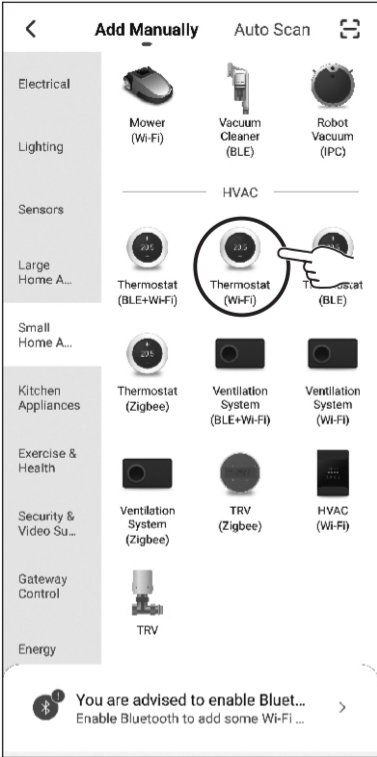
Typical cool-only system



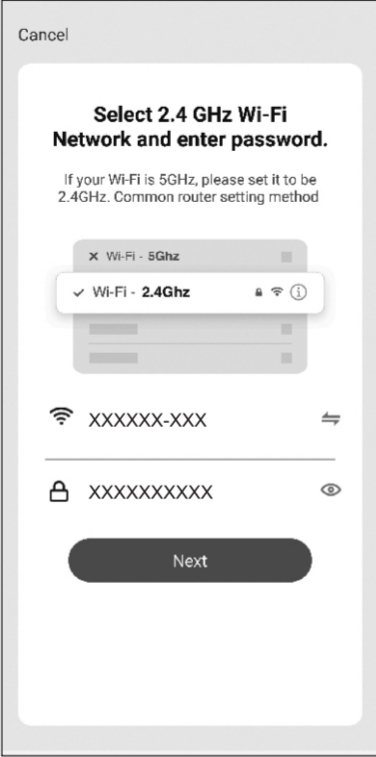
8. How to connect WIFI

Connect your phone to the WIFI internet, and download Smart Life  from APP market. Then register according to the hint.

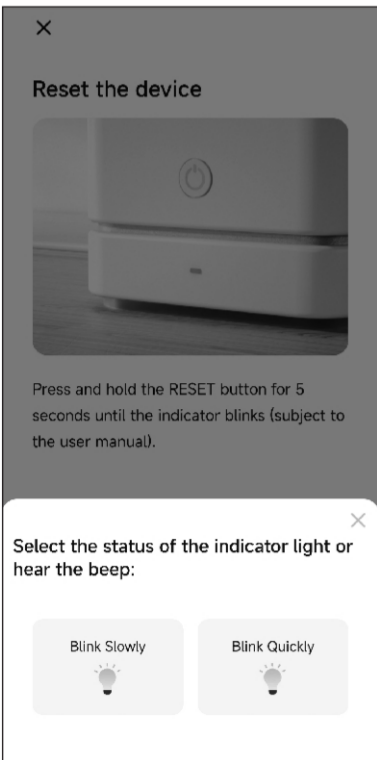
8.1 Network configuration(EZ mode).



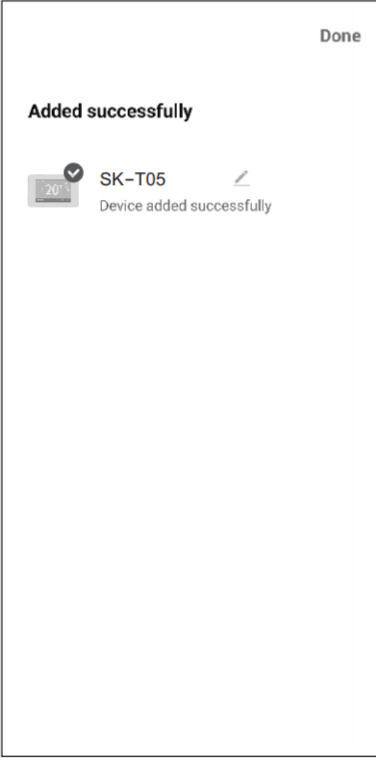
8.1.1 Choose the thermostat on the list of home appliances.



8.1.2 Choose WIFI and enter the correct password.

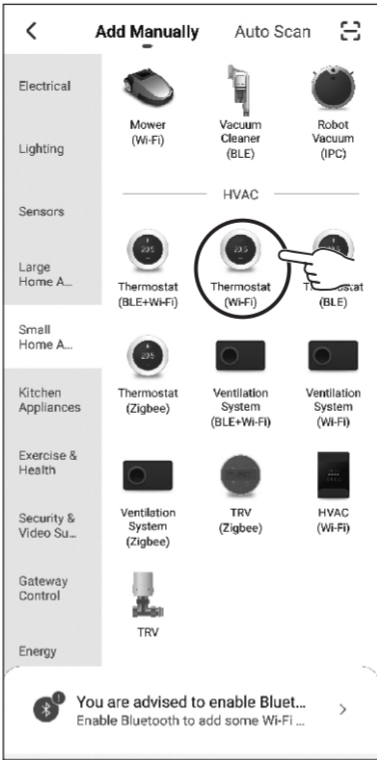


8.1.3 Choose EZ setup for the WIFI setting on the thermostat, then choose “blink quickly” on the APP.

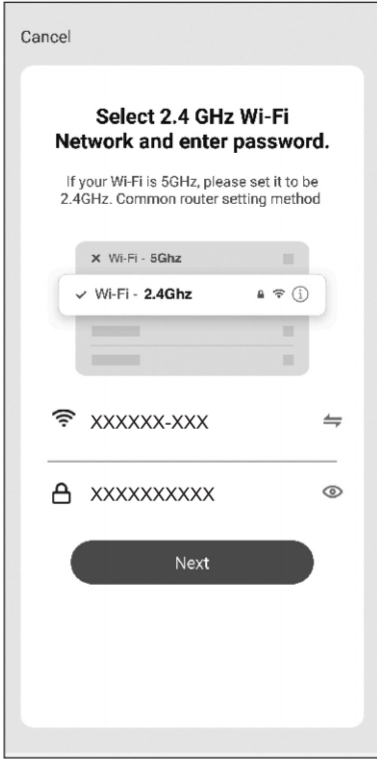


8.1.4 Indicate the successful connection, then click Done.

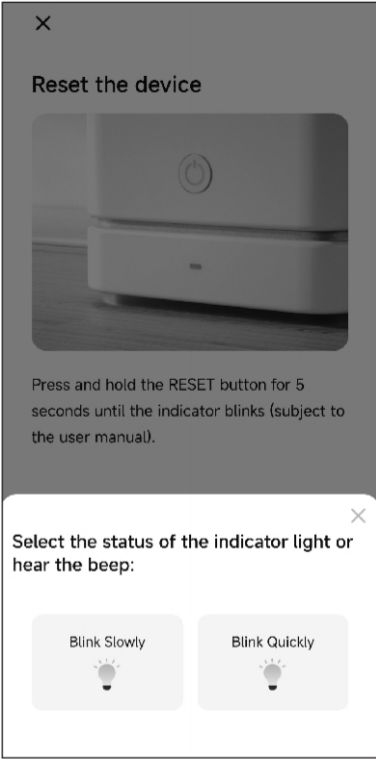
8.2 Network configuration(AP mode).



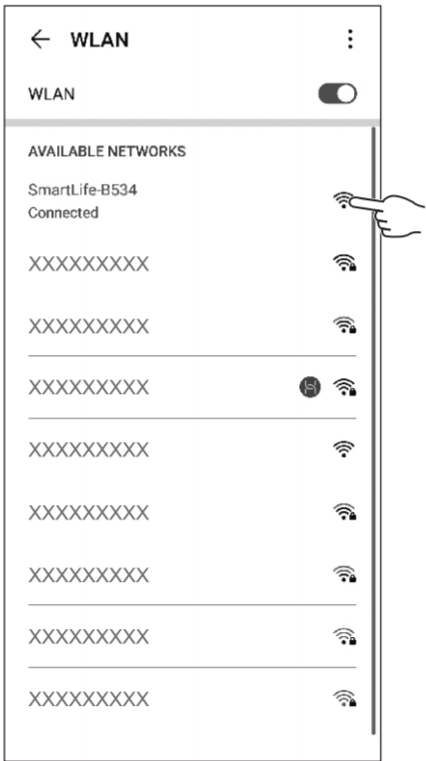
8.2.1 Choose the thermostat on the list of home appliances.



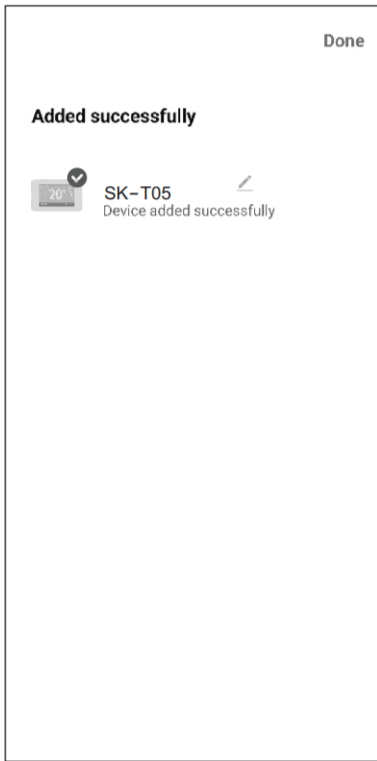
8.2.2 Choose WIFI and enter the correct password.



8.2.3 Choose AP setup for the WIFI setting on the thermostat choose “blink slowly” on the APP.

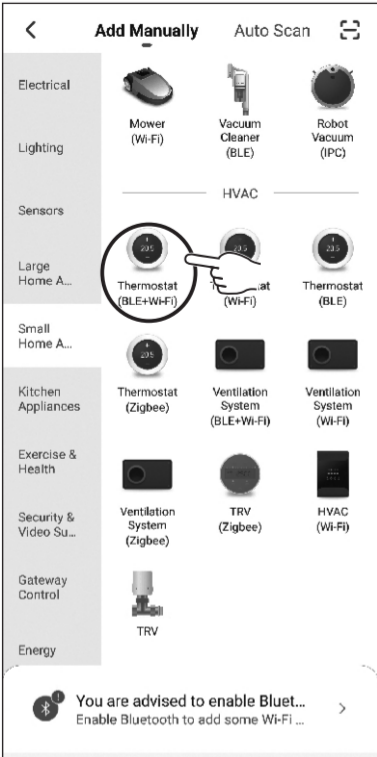


8.2.4 Find the corresponding SmartLife-XXXX or SL-XXXX and connect it.

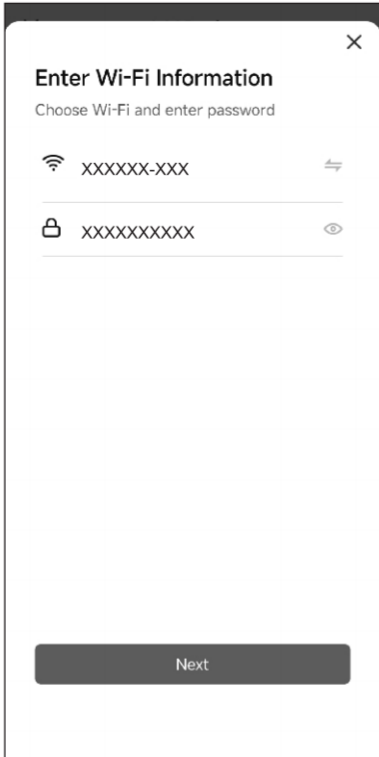


8.2.5 Indicate the successful connection, then click Done.

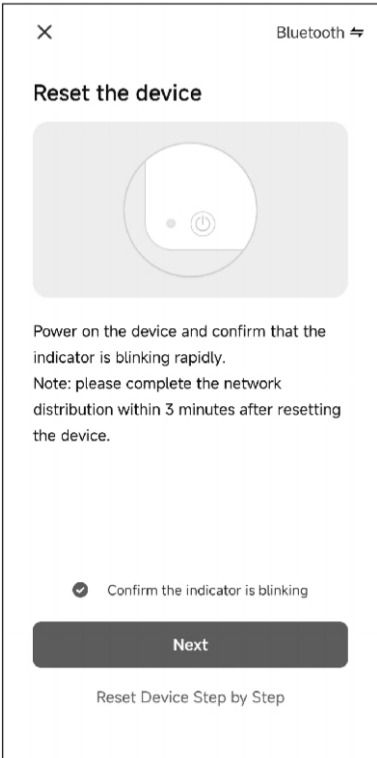
8.3 Network configuration (Bluetooth)



8.3.1 Choose the thermostat on the list of home appliances.



8.3.2 Choose WIFI and enter the correct password.



8.3.3 Choose Bluetooth setup for the WIFI setting on the thermostat, Select Bluetooth at the top-left corner.



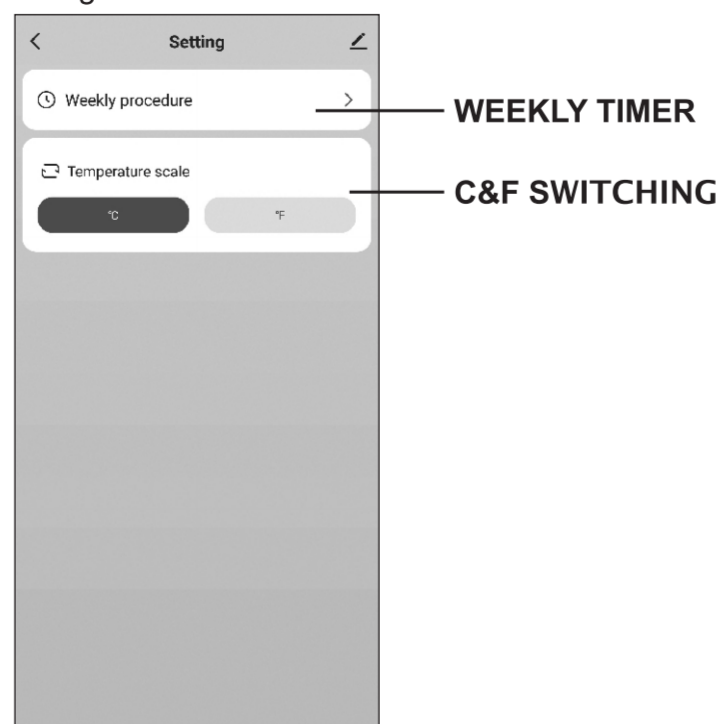
8.3.4 Indicate the successful connection, then click Done.

8.4 Description of the control interface

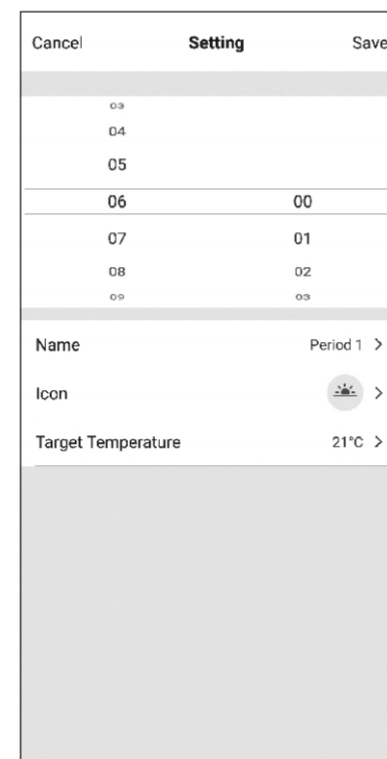
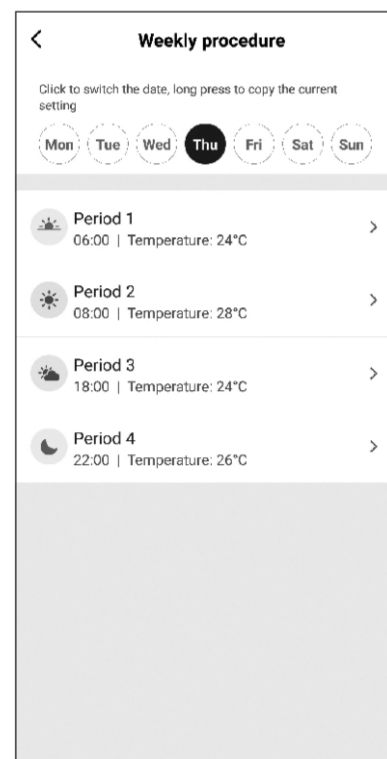


- 8.4.1 Set temperature:**
Slide the circle to adjust the setting temperature.
- 8.4.2 Room temperature:**
Indicates the current room temperature.
- 8.4.3 Working mode:**
Click mode symbol to switch the corresponding working modes.
- 8.4.4 Working condition:**
Indicates all the operations.
- 8.4.5 Power:**
To turn on or turn off the power.
Fan mode:
To choose the fan mode Auto or ON.
Run mode:
To choose the working mode is Manual or Program. Manual corresponds with Hold mode on the thermostat, and Program corresponds with Run mode.

Setting: Click setting to enter the interface.



C & F switching: Click the temperature unit symbol.
Weekly timer: Click Weekly procedure to enter the setting.

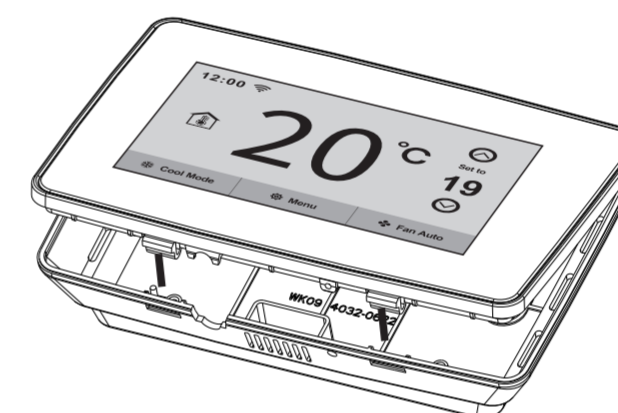


Weekly timer contains seven days a week, and four time periods. Included start time and temperature, click any one of them to enter the setting interface to set time, name, symbol, target temperature.

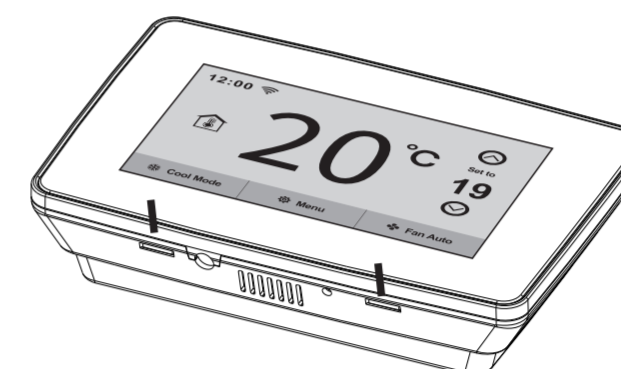
MOUNT THERMOSTAT



Step 1: Aim at the inner snaps in the higher part of the thermostat.



Step 2: Hang the two hooks of the front part at 30°right to the snaps.



Step 3: Press the lower part of the front display panel to complete the installation.



In Step 3, if the user think that it is hard to connect the pin, please move the display panel slightly. Then it will work.

À l'étape 3, si l'utilisateur pense qu'il est difficile de connecter la broche, veuillez déplacer légèrement le panneau d'affichage. Alors ce sera du travail.

10. Programming setting

1. Weekly Timer

In the main interface, press the "menu" to enter the setting interface, select "Schedule" to enter the weekly timer setting. Then you can set the weekly timer according to your needs, you can set the time and temperature in the cooling and heating mode, seven days a week, four periods in a day. Meanwhile , all the operations can be completed on the APP. The factory default Settings are as follows.

EXAMPLE:
Heating/Cooling Schedule Plan (Factory default program setting)

		Everyday	
Mode	Period	Start Time	Temperature
Heat	Wake 	6:00 AM	21°C
	Leave 	8:00 AM	17°C
	Return 	6:00 PM	21°C
	Sleep 	10:00 PM	17°C
Cool	Wake 	6:00 AM	24°C
	Leave 	8:00 AM	28°C
	Return 	6:00 PM	24°C
	Sleep 	10:00 PM	26°C

(Note: Before the weekly timer works, the product needs to be connected to the network, otherwise the weekly timer cannot be used normally)

2. Setting parameters

In the main interface, press the "menu" to enter the setting interface.

2.1 Sleep function

In the setting interface,press “Sleep Mode” to start the setting.

2.1.1 Backlight: To choose the state of the screen brightness in the sleep mode , there are four levels: Off, Low, Med, High

2.1.2 Sleep time: Without any operations, the system will enter the sleep state. The time is optional: 30sec , 1min, 2min.

2.1.3 Clock: To choose whether or not to display clock when the system enters the sleep state.

2.1.4 Temperature: To choose whether or not to display temperature when the system enters the sleep state.

2.2 Screen And Buzzer Setting

In the setting interface, press “Screen And Buzzer” to enter screen and buzzer setting.

2.2.1 Buzzer: To choose the buzzer on or off.

2.2.2 Time display: To choose displaying clock or not.

2.2.3 C&F: To choose °C or °F

2.3 Parameter Settings

In the setting interface, press “Parameter Settings” to enter parameter Settings. There are 8 parameters can be set, please check the details on the thermostat.

2.4 Restore Factory Setting

In the setting interface, press “About Thermostat” to restore factory setting.

2.5 Lock function: When lock function enabled, all the functions are unavailable In the main interface, long press “Fan” for 5sec to enable the lock function, the lock symbol will also display on the screen. Long press “Fan” for 5sec again to cancel the lock function.

11. CAUTION

1. There is preservative on the LCD when out of the factory, users can remove it or not.
2. If you need to remove the preservative, just pull it from the corner and no need to open the thermostat.
3. Don't forcibly install.
4. It is a precision electronic product. Don't knock into or fall against it.
5. Don't let debris such as water or mud enter the thermostat.

12. Notes

1. Do not operate with wet hands, as this can potentially result in touch screen failure.
2. Please don't operate the touch screen with hard objects, to prevent scratching the surface.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body