LAKE plus

User Guide

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Caution: Equipment damage hazard

⚠ This thermostat works on 24 volt systems. It will not work on 120/240 volt systems.

⚠ To prevent possible compressor damage, do not operate cooling system when outdoor temperature is below 50°F(10°C).

⚠ Never use sharp instruments, such as pencil or pen, to press touch screen keys. To prevent damage to the thermostat, always press keys with your fingertip.

Features

- 5-inch touch & color screen
- Humanized operator interface
- Two kinds of display style
- Schedule setting in simple way
- Control your device with your cell-phone
- Compressor protection
- 12 wiring connections supported

Specifications

Temperature Setting Range:
Heating: 40°F to 90°F(4°C to 32°C)
Cooling: 50°F to 99°F(10°C to 37°C)
Ambient Temperature:
32°F to 122°F(0°C to 50°C)
Humidity Display Range:
0% to 99%
Screen lock & configuration password:
7463

FCC Warning

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

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.

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.This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

FCC Warning

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.

Operations

Introductions of keys

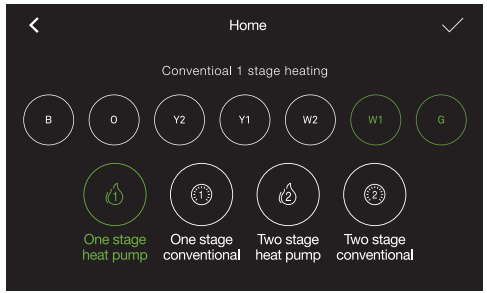
Symbols	Function description
〈	Return to previous page
“—” or“∨”	Reduce value
“+” or“∧”	Increase value
✓	Save setting and exit
×	Not save setting and exit
“ OFF ON ”or“ °C °F ”	Select the near side of the key
Home	Return to home page
⟲	Refresh Wifi hotspot

Operations

The first time using

Please set it according to the following steps for the first time using:

1.Power on, and press the screen and enter the home page, and then press “Setting” ->“System Configuration”, and input password 7463, and choose the equipment model.
(**Note:** the model selection must be match with the wiring connection.)



2.Press “ ✓ ” to confirm the setting, and leave the setting page, and press “ ✕ ” to enter home page

3.Press“Mode” to choose Cool/Heat and set temperature.

Operations

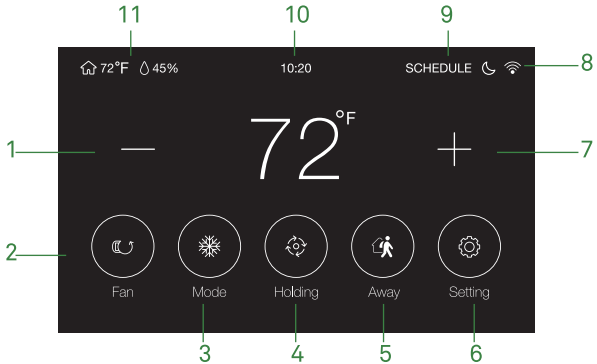
Introduction of main pages

Standby Page

- If there is no operations within 1minute,will enter the standby page.
- Touch any point in standby page can enter home page.
- Touch any space blank in home page also can switch to standby page.
- On home page, press away to switch to Away mode.
- In standby, the screen display brightness can be adaptive in order to energy saving.

Operations

Home page

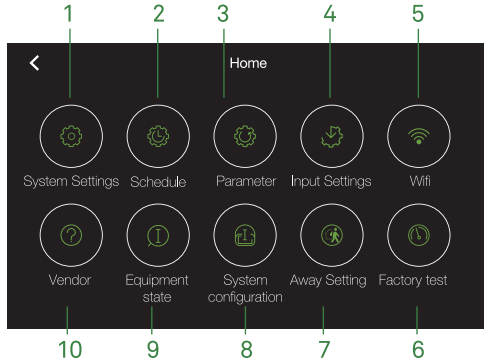


Definition

1. Reduce the presetting temperature
2. State selection of fan mode
3. Selection of operation mode
4. Switch to permanent override mode
5. Away standby changing-over
6. Switch to setting page
7. Increase the presetting temperature
8. WIFI link quality display
9. Corresponding mode of schedule or other pattern
10. Current time
11. Indoor temperature & humidity

Operations

Setting page



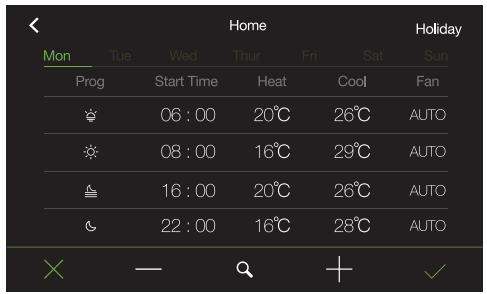
Definition

1. System Setting (time, brightness & reset)
2. Schedule Query and Setting
3. Parameters Setting
4. Input Setting
5. Wifi Setting
6. Factory Acceptance Test
7. Away Settings
8. System Configuration
9. Equipmet Status
10. Suppiler Information

Operations

Energy saving schedules and holidays

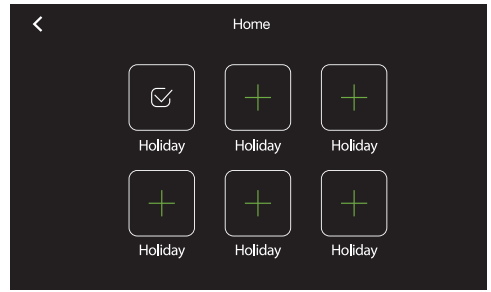
The thermostat has preset four periods of energy saving program setting, the four periods are said “early morning”, “day”, “evening”, “the night”. If you use the default setting can reduce heating/cooling cost.To change settings, select one or more day(press it to copy the same programming), press time or temperature or fan state, Touch“ + ” or“ — ” key to adjust, then touch“ ✓ ” to save the setting, if you want to cancel this setting, please touch “ × ” key.



Operations

Holiday

In the upper right corner of the page, you will find an “Holiday” key, press it and enter into edited page as follow.



This page provides six holidays to user settings, click“ + ” into specific settings page, modification date and temperature, set the new holiday, icon from“ + ” turns into“ ☑ ”.

Holiday

In the parameter setting, the system will enter the mode and run until the value is set in schedule, and when the “Holding” key is pressed down, the system will be in Holding mode until the “Holding” key is pressed down again, then the system turns to schedule mode.

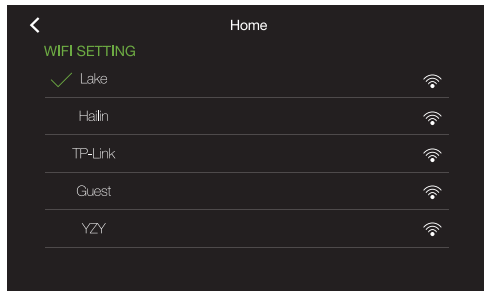
When the system is in the schedule mode and the system will run according to the time of schedule holiday setting. the schedule mode will be automatically returned after the holiday time is over.

If you temporary change in the cooling/heating temperature, when the system is in schedule mode, system will enter the changed mode, and when entering the next time schedule, it will automatically return back to schedule mode.

WIFI setting-thermostat connect WIFI

Select “Setting”, press the “Wifi” key to view and configure Wifi.

Your thermostat supports Wi-Fi 802.11 WiFi b/g/n protocol, which is usually configured in the initial setting, but if your Wi-Fi network is set to change, you need to reset it.



Network:

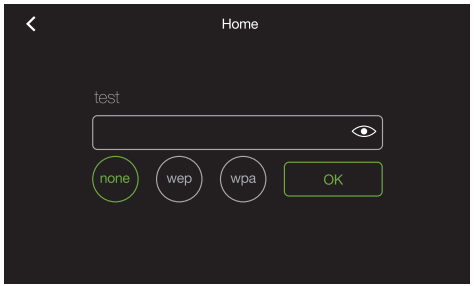
Choose the network menu appears in the network list. If you do not want to use the network, you can manually write the SSID.

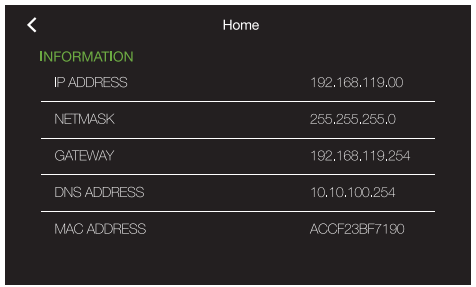
Operations

Information

Click the hot pot name you want to connect, then input the correct password, select the wireless network encryption, click the “OK” key to complete the setting.

In the network list, press connected network so that you can view the equipment access detailed information and the MAC address.





Note :

A string of numbers, such as ACCF23BF7190, is the MAC address of the device.

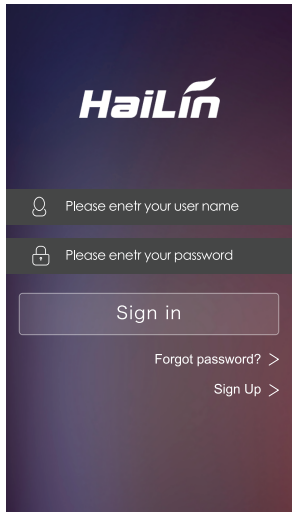
Operations

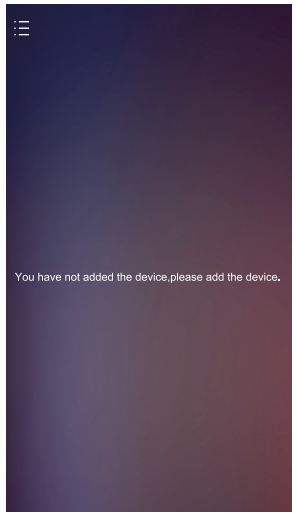
WIFI setting-The configuration between mobile phone and thermostat

1.Please be sure your phone connected WIFI, and scan the following code to install app.

Operations

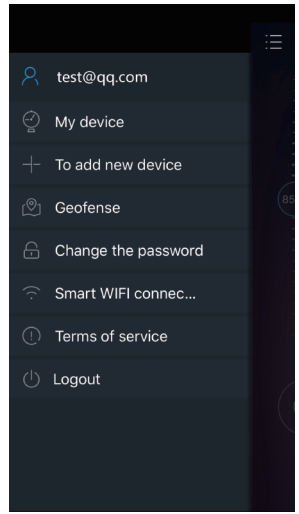
2.Open the app and register with your email address and you will receive an email to activate the ID.

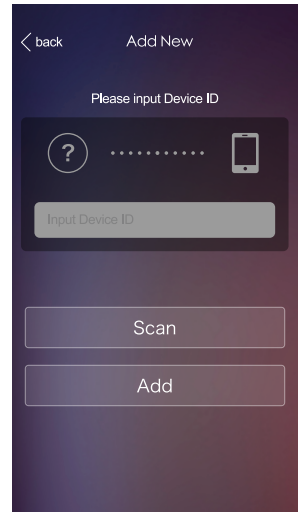




Operations

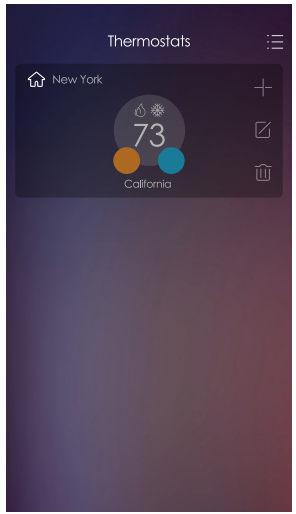
3.After registering and sign in, click the left corner ☰ find “To add new device”, and then open thermostat setting page to click “Vendor” and then click the right corner “QR Code” , and use phone to scan the code to add the device Or add the MAC address manually.

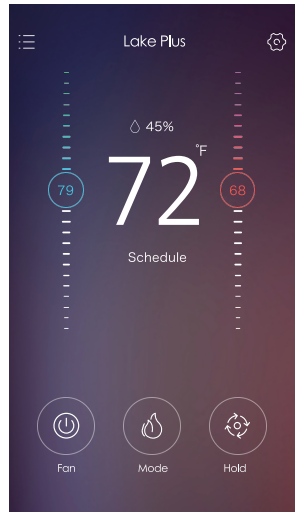




Operations

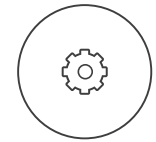
4.If add successfully , you will find the device in “My devices”and display as the following pics.





Operations

System setting

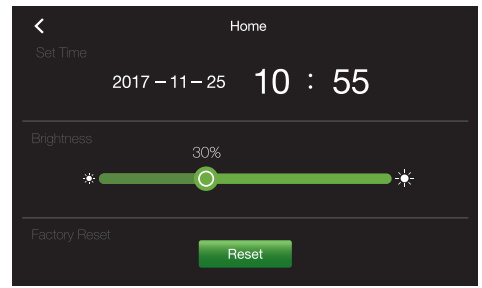


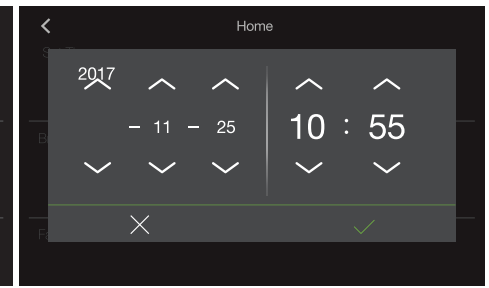
System Setting

Switch to Setting page and touch “System Settings” key to query/change time or brightness.

If you want to modify time, touch the display of time and use“ ︿ ” or “ ﹀ ” key to change the value, then touch“ ✓ ” to save the setting, touch“ ✕ ” to cancel the setting.

If you press“ Factory Reset” and choose “Yes”, then the thermostat will restart and you will lose all the settings you changed before, so make your choice carefully.

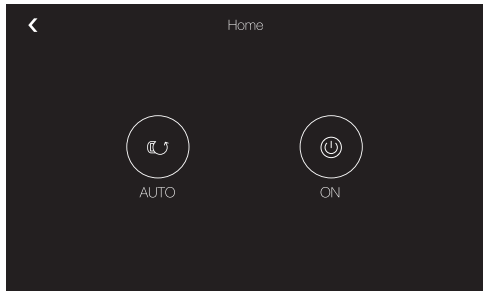




Operations

Fan setting

In the home page, press the “Fan” key, you will enter the Fan-Setting page. There two choices to change the state of the fan.



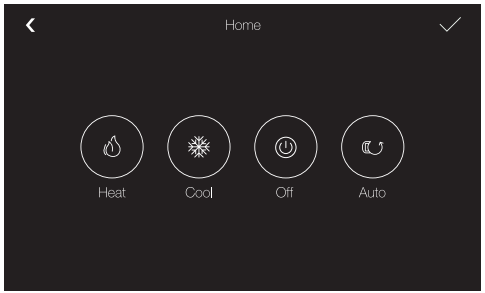
AUTO: Fan runs according to main equipment's control in heating/cooling mode.

ON: Fan always open.

Operations

Mode setting

In the home page, select the “Mode” key, then select the system operation mode.



***Note**: there may be a “Emer” mode, depending on your thermostat installation.*

Heat: Only control heating system

Cool: Only control cooling system

Auto: Run heating or cooling automatically by temperature

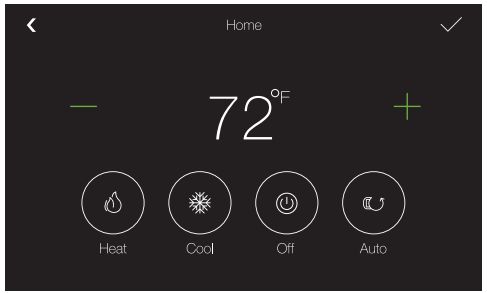
Off : Close heating/cooling system

Emer: Emergency heating(only used in the auxiliary heating system)

Operations

Temperature setting

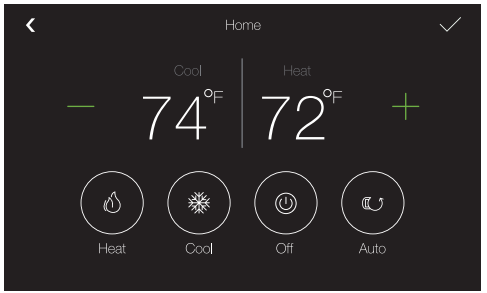
In the choice of Cool, Heat or Auto mode, touch“ + ” or“ — ” key to change the setting temperature, each click change 1 degree.



Operations

Temperature setting

Auto mode, the Cool and Heat are required to set the presetting temperature.

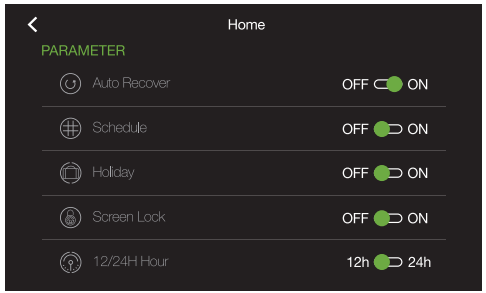


Note:*On the Auto mode, cooling temperature and heating temperature required by at least 2 degrees Fahrenheit.*

Other Operations

Parameter setting

Select “Setting” and press “Parameter” key to set up.



Input Setting

Other Operations

Parameter setting

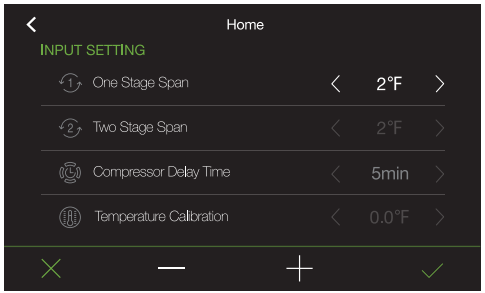
Parameter	Definition	Default	Explanation
Auto Recover	Preheating	OFF	
Schedule	Schedule	ON	
Holiday	Holiday	ON	When the Schedule function is off, holiday function is invalid
Screen Lock	Screen lock	OFF	After lock, and input "7463" can unlock temporarily
24/12 Hour	Time	24h	
Celsius/Fahrenheit	Temp unit	°C	
Fan Operation	Fan model	GAS	
Fan Alarm	Fan filter alarm	ON	When alarm , need to close it manually and change new filter
Search Devices	Search devices	OFF	

Other Operations

Input setting

Select “Setting” and press “Input Settings” key to set up.

Input Setting



***Note**:some option will appear at special mode.*

Other Operations

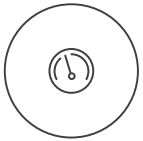
Input Setting

Parameter	Definition	Default	Explanation
One Stage Span	One stage difference	1°C/2°F	Range :1°C-5°C(2°F-9°F)
Two Stage Span	Two stage difference	1°C/2°F	Range :1°C-5°C(2°F-9°F)
Three Stage Span	Three stage difference	1°C/2°F	Range :1°C-5°C(2°F-9°F)
Compressor Delay Time	Compressor delay time	5min	Range :0min10-min
Temperature Calibration	Temperature calibration	0	Range :-5°C-5°C(-9°F-9°F)
Filter Alarm days left	Filter alarm days left		Range :0days- max days
Filter Alarm Days	Filter alarm days selection	OFF	Off /365/ 120/ 90/ 30/ 10days
Theme Interface	Interface selection	Default	Black or white interface

Other Operations

Factory test

Select “Setting” and press “Factory test” key to operate.



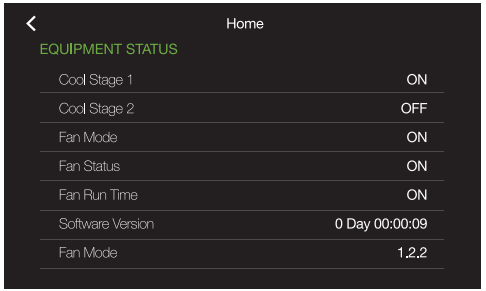
Factory test

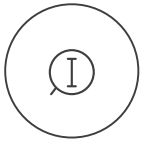
***Note**: this setting is for the factory test worker, not aimed at the end user.*

Other Operations

Equipment status

Select “Setting” and press “Equipment status” key, you can view thermostat current status.





Equipment state

***Note**: this page only has the view function!*

Other Operations

Supplier Information

Select “Setting” and press “Vendor” key, then you can view the supplier information.

Vendor

***Note**: If you meet some issue in actual application which cannot be solved by yourself, you can contact the supplier or manufacturer to help you solve it.*

LAKE plus

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