



WIRED CONTROLLER

Operation Manual

1.



Scan the following QR code
to install the Smart Home APP

2.



KAISAI

After starting the application
scan the QR code KAISAI

KAISAI

WIRED CONTROLLER

Operation Manual

Thank you very much for purchasing our product,
Before using your unit , please read this manual carefully and keep it for future reference.

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wired controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.

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1 GENERAL SAFETY PRECAUTIONS

1.1 About the documentation

- The precautions described in this document cover very important topics, follow them carefully.



CAUTION

Indicates a situation that could result in minor or moderate injury.

NOTE

Indicates a situation that could result in equipment or property damage.

i INFORMATION

Indicates useful tips or additional information.

1.2 For the user

If you are not sure how to operate the unit, contact your installer.

- The appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the product.



- Unit are marked with the following symbol:



This means that electrical and electronic products can not be mixed with unsorted household waste. Do NOT try to dismantle the system yourself: the dismantling of the

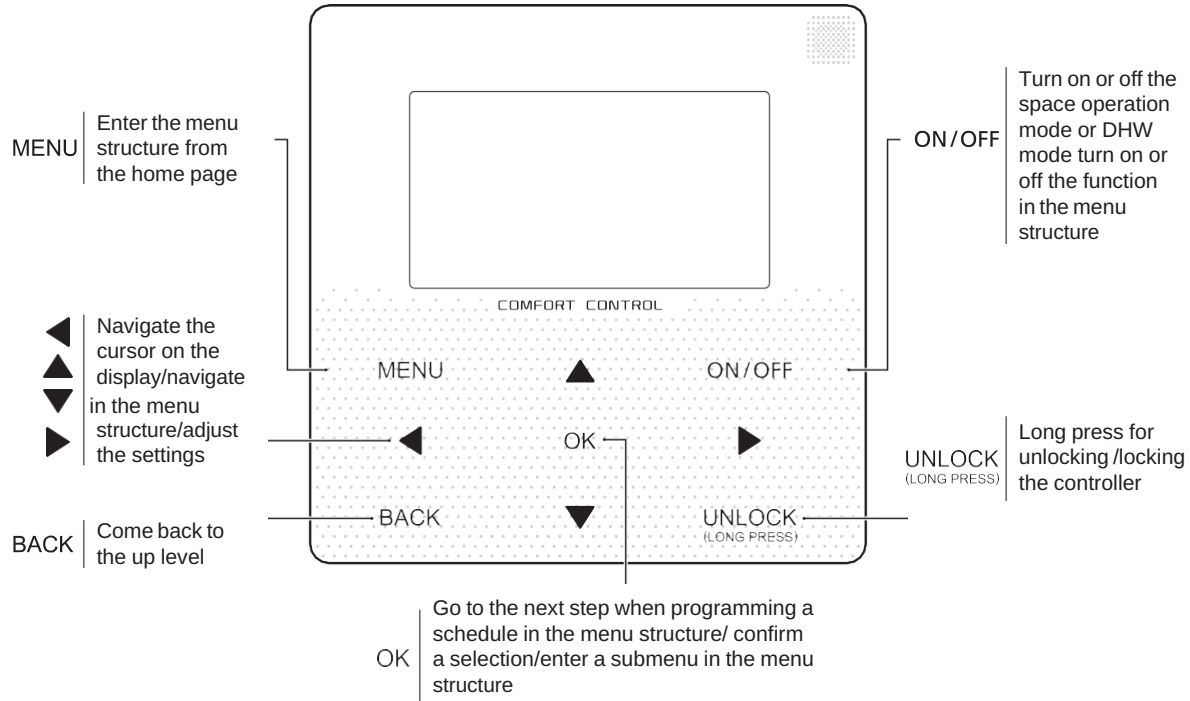
system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable legislation. Units must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of

- Correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

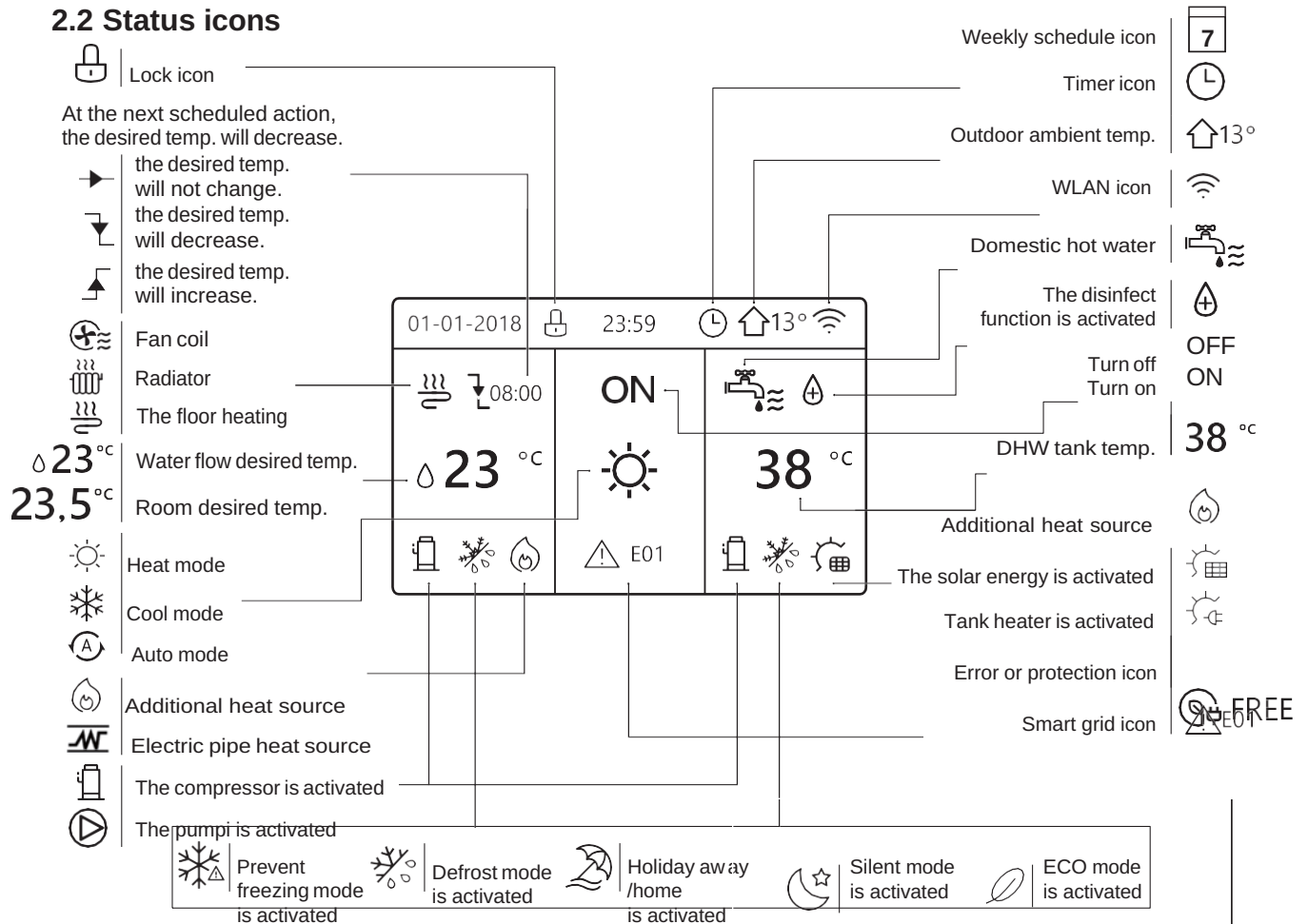
Placed in a location away from radiation.

2 A GLANCE OF THE USER INTERFACE

2.1 The appearance of the wired controller



2.2 Status icons



	Fan coil	Radiator	The floor heating	Domestic hot water
ON	🌀	🔥	🌀	🚰
OFF	🌀	🔥	🌀	🚰

	Free electricity	Valley electricity	Peak electricity
Smart grid	📶 FREE	📶 VALLEY	📶 PEAK

3 USING HOME PAGES

When you turn on the wired controller, the system will enter the language selection page, You can choose your preferred language, then press OK to enter the home pages. If you don't press OK in 60 seconds, the system will enter in the currently



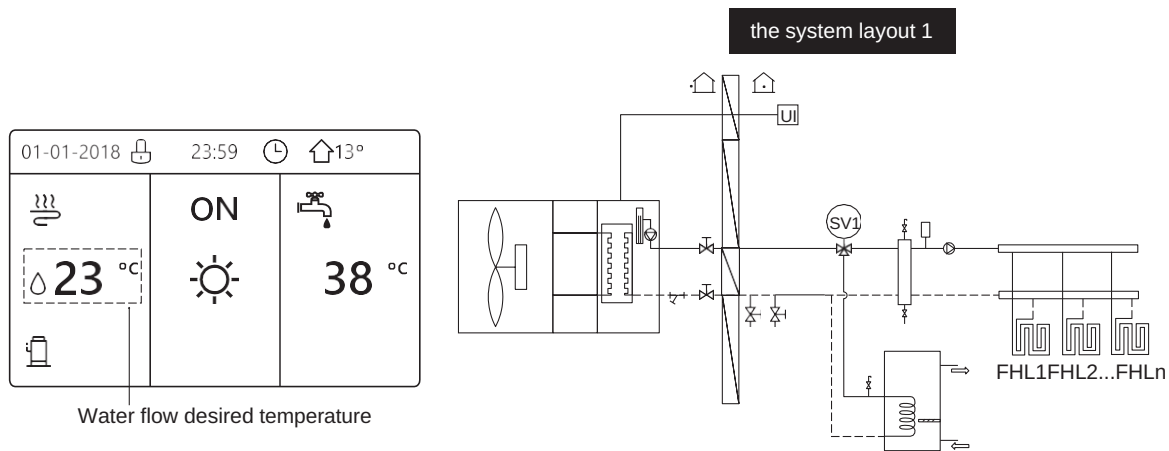
selected language.

You can use the home pages to read out and change settings that are meant for daily usage. What you can see and do on the home pages is described where applicable. Depending on the system layout, the following home pages may be possible:

- Room desired temperature (ROOM)
- Water flow desired temperature (MAIN)
- DHW tank actual temperature (TANK) DHW=domestic hot water

home page1 :

If the WATER FLOW TEMP. is set YES and ROOM TEMP. is set NON.(See **"FOR SERVICEMAN" > "TEMP. TYPE SETTING"** in **"Installation manual"**). The system has the function including floor heating and domestic water, home page 1 will appear:

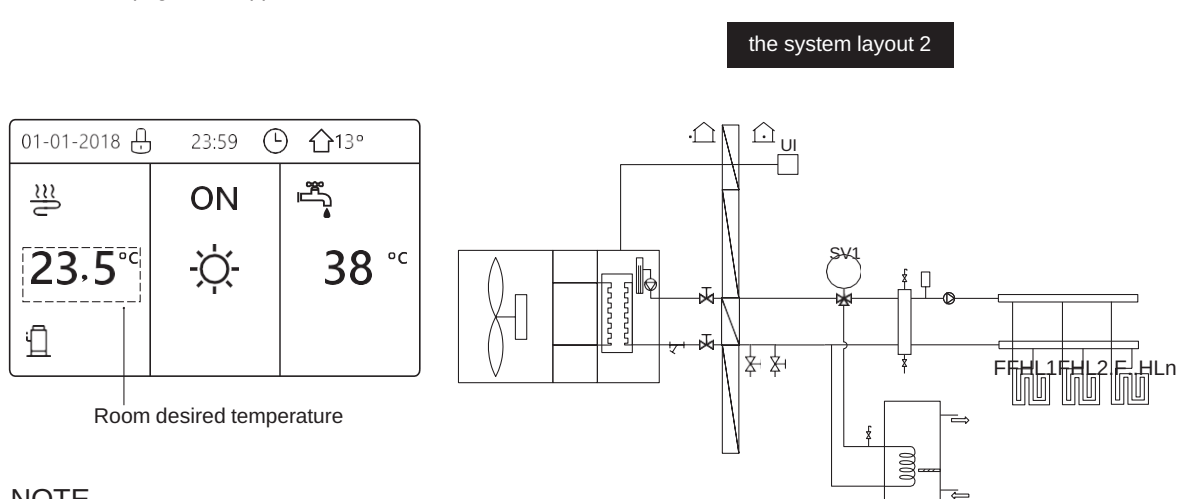


NOTE

All the pictures in the manual are used to explain, the actual pages in the screen may have some difference.

home page2 :

If the WATER FLOW TEMP. is set NON and ROOM TEMP. is set YES(See **"FOR SERVICEMAN" > "TEMP. TYPE SETTING"** on **"Installation manual"**). The system has the function including floor heating and domestic hot water, home page 2 will appear:

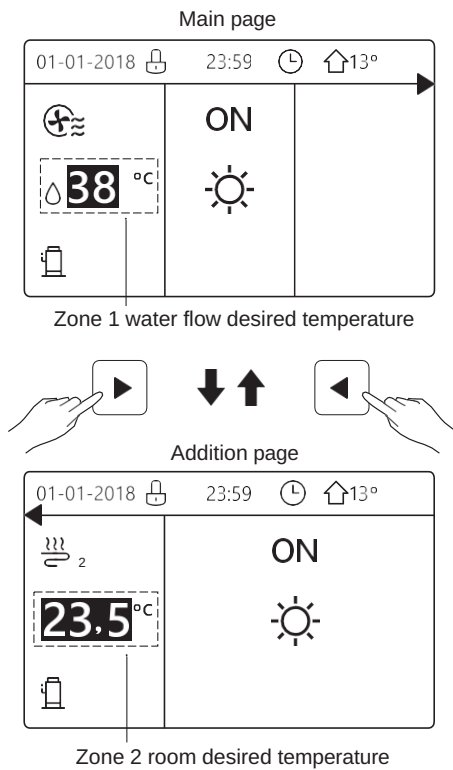


NOTE

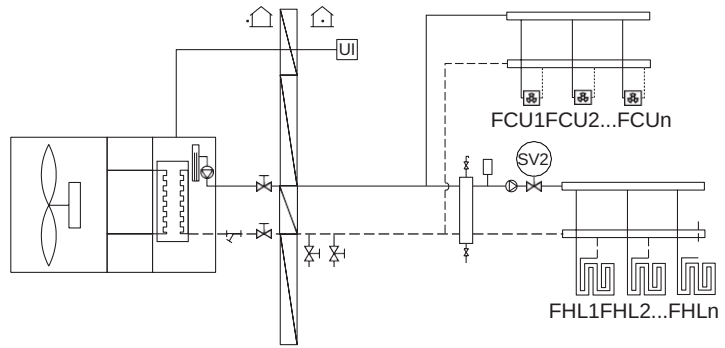
The wired controller should be installed in the floor heating room to check the room temperature.

home page3:

If the DHW MODE is set NON (See "FOR SERVICEMAN" > "DHW MODE SETTING " in "Installation manual", and if "WATER FLOW TEMP." is set YES, "ROOM TEMP." is set YES,(See "FOR SERVICEMAN" > "TEMP. TYPE SETTING " in "Installation manual"). There will be main page and additional page. The system has the function including floor heating and space heating for fan coil, home page 3 will appear:

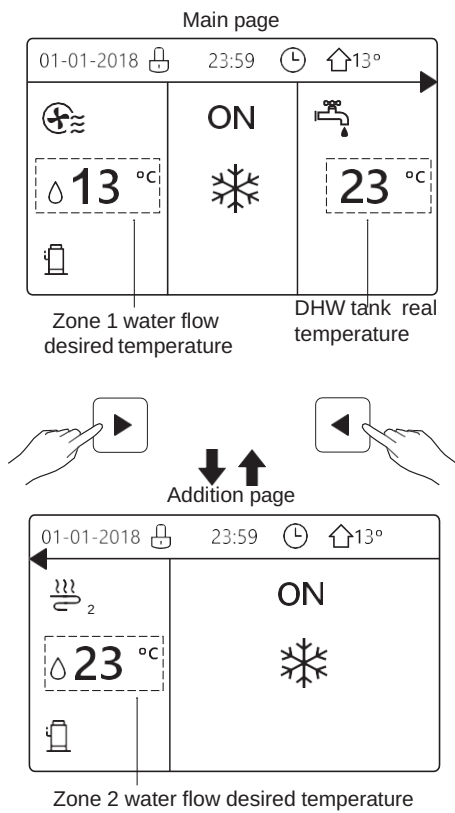


the system layout 3



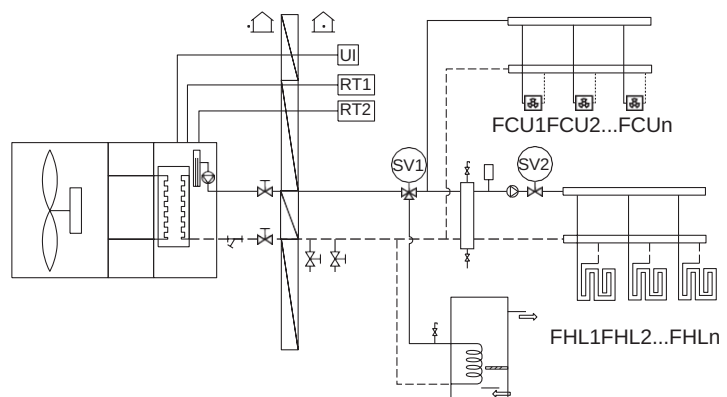
home page4 :

If the ROOM THERMOSTAT is set DOUBLE ZONE or DOUBLE ZONE is set YES. There will be main page and additional page. The system has the function including floor cooling, space cooling for fan coil and domestic hot water, home page 4 will appear:



the system layout 4

RT=Room thermostat



4 MENU STRUCTURE

4.1 About the menu structure

You can use the menu structure to read out and configure settings that are NOT meant for daily usage. What you can see and do in the menu structure is described where applicable. For an overview of the menu structure, see "7 Menu structure: Overview".

4.2 To go to the menu structure

From a home page, press "MENU".
Result: The menu structure appear:


MENU	1/2
OPERATION MODE	
PRESET TEMPERATURE	
DOMESTIC HOT WATER(DHW)	
SCHEDULE	
OPTIONS	
CHILD LOCK	
OK ENTER	↕







MENU	2/2
SERVICE INFORMATION	
OPERATION PARAMRTER	
FOR SERVICEMAN	
WLAN SETTING	
OK ENTER	↕



4.3 To navigate in the menu structure





Use"▼" "▲" to scroll.

5.1 Screen Unlock

If the icon  is on the screen, the controller is locked. The following page is displayed:

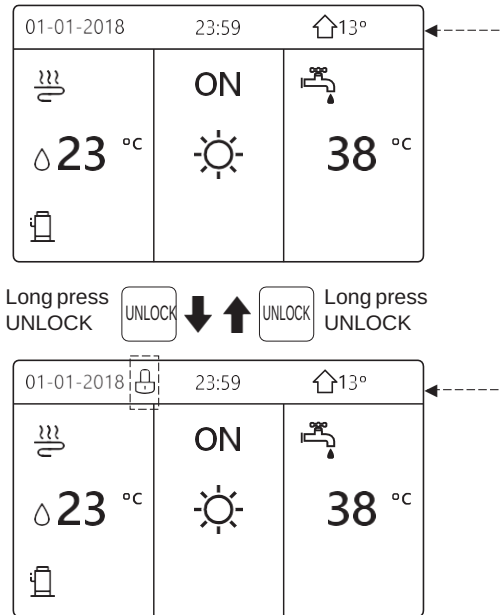
01-01-2018 	23:59	↑13°
 ON 		
 23 °C		38 °C
		

Press any key, the icon  will flash. Long press the "UNLOCK" key. The icon  will disappear, the interface can be controlled.

01-01-2018 	23:59	↑13°
 ON 		
		

The interface will be locked if there is no handling for a long time(about 120 seconds:it can be set by the interface, see "6.7 SERVICE INFORMATION".)





If the interface is unlocked, long press "unlock", the interface will be locked.






5.2 Turning ON/OFF controls

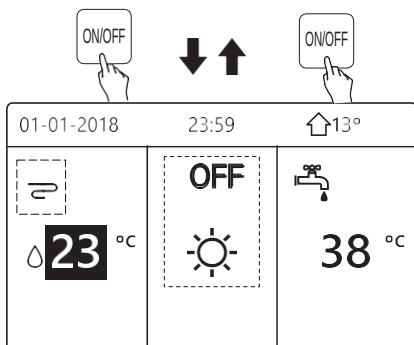
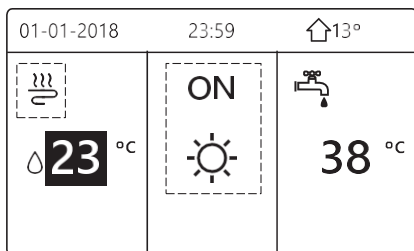
Use the interface to turn on or off the unit for space heating or cooling.

- The ON/OFF of the unit can be controlled by the interface if the ROOM THERMOSTAT is NON.(see "ROOM THERMOSTAT SETTING" in "Installation manual")
- Press "◀" "▲" on home page, the black cursor will appear:

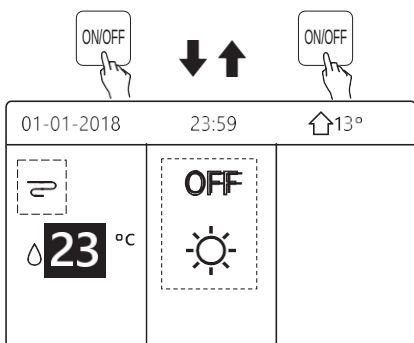
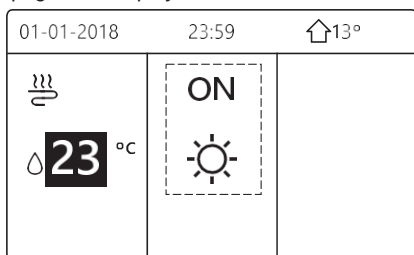
01-01-2018	23:59	↑13°
 08:00	ON	
 23 °C		38 °C

5 BASIC USAGE

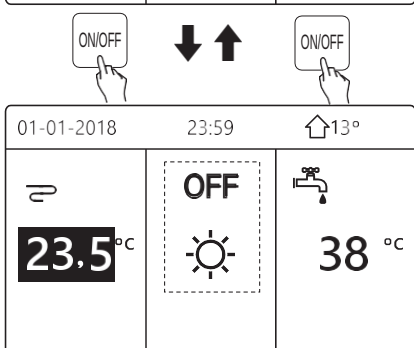
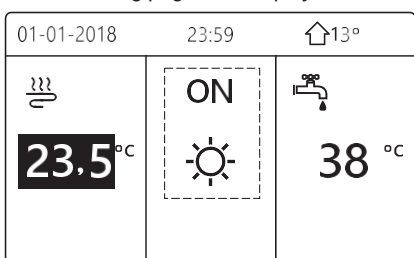
- When the cursor is on the temperature of space operation mode side (Including heat mode , cool mode  and auto mode ) , press "ON/OFF" key to turn on/off space heating or cooling .



If the DHW TYPE is set NON, then following pages will display:

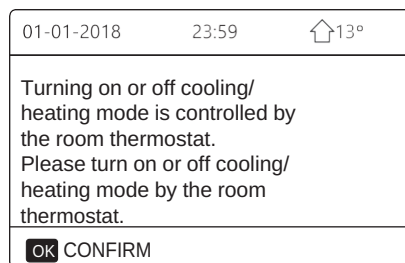


If the TEMP. TYPE is set ROOM TEMP., then following pages will display:

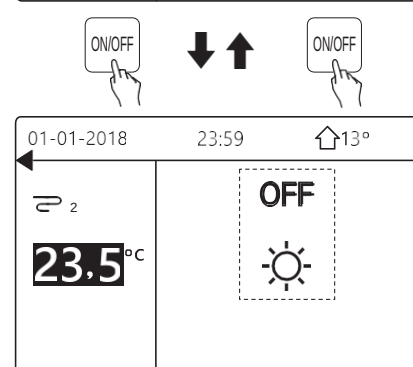
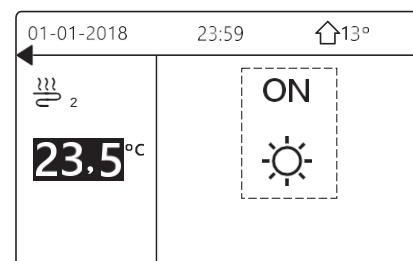
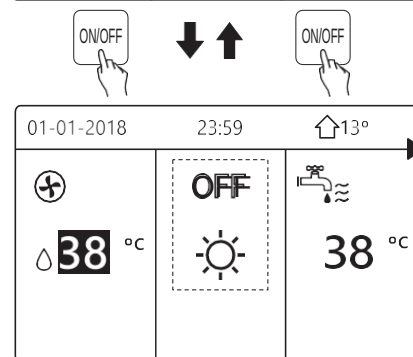
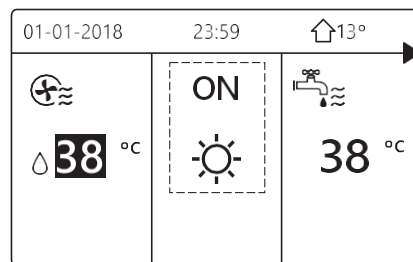


Use the room thermostat to turn on or off the unit for space heating or cooling.

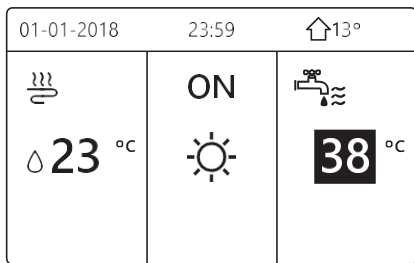
1 The room thermostat is not SET NON(see "ROOM THERMOSTAT SETTING" in "Installation manual"). The unit for space heating or cooling is turned on or off by the room thermostat, press ON/OFF on the interface, the following page will display:



2 The room thermostat is SET DOUBLE ZONE(see "ROOM THERMOSTAT SETTING" in "Installation manual"). The room thermostat for fan coil is turned off, the room thermostat for the floor heating is turned on, and the unit is running, but the display is OFF. The following page is displayed:

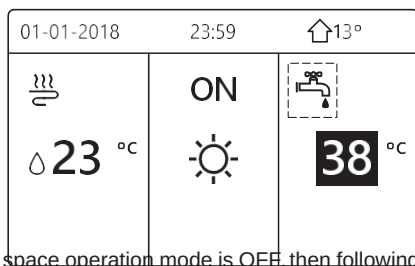
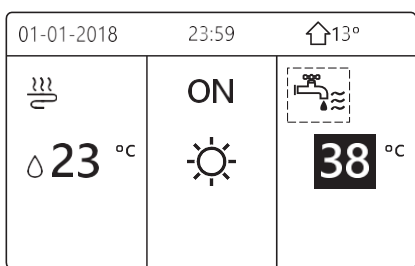


Use the interface to turn on or off the unit for DHW. Press "▶" "◀" "▼" "▲" on home page, the black cursor will appear:

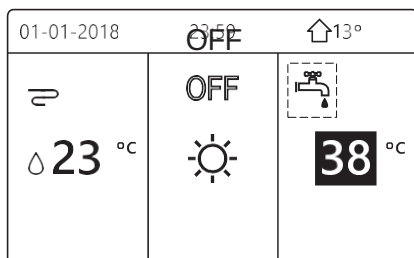
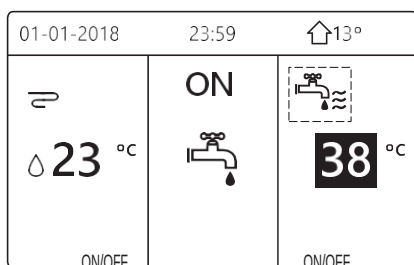


2) When the cursor is on the temperature of DHW mode. Press "ON/OFF" key to turn on/off the DHW mode.

If the space operation mode is ON, then following pages will display:

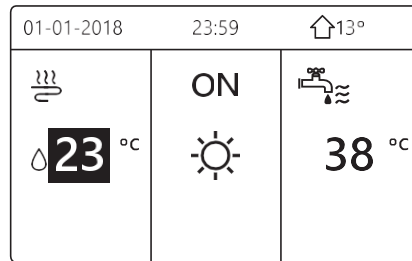


If the space operation mode is OFF, then following pages will display:

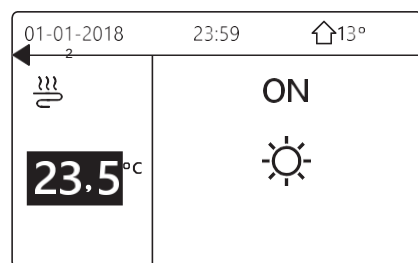
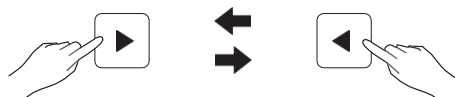
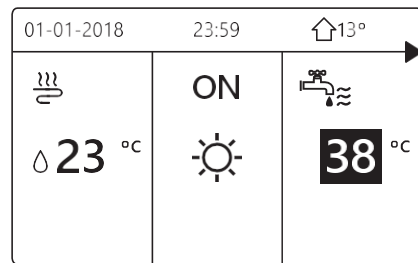
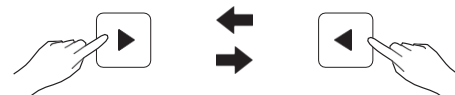
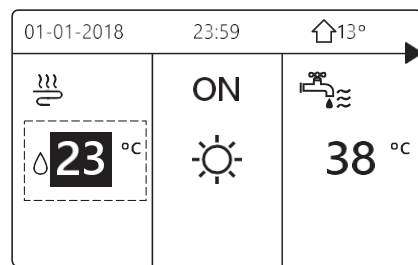


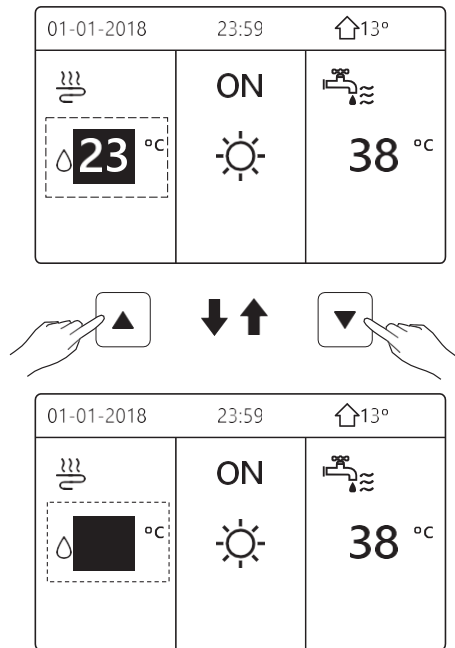
5.3 Adjusting the temperature

Press "◀" "▶" "▲" on home page, the black cursor will appear:



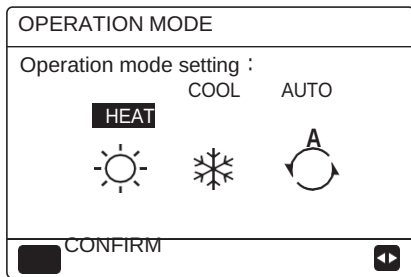
- If the cursor is on the temperature, use the "◀" "▶" "▲" to select and use "▼" "▲" to adjust the temperature.



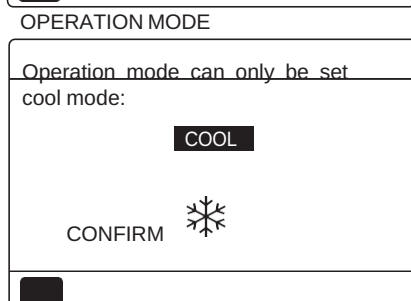
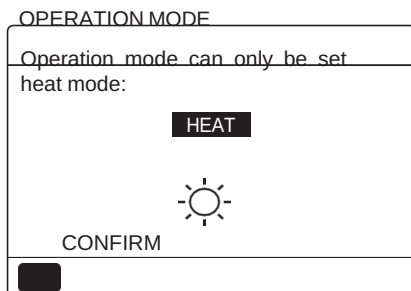


5.4 Adjusting space operation mode

- Adjusting space operation mode by interface
Go to "MENU" > "OPERATION MODE". Press "OK", the following page will appear:



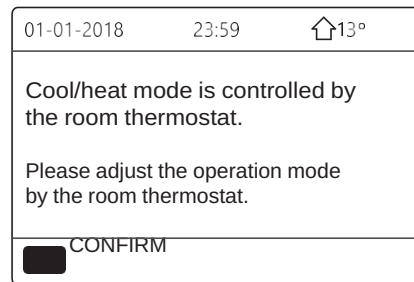
- There are three modes to be selected including HEAT, COOL and AUTO mode. Use the "◀", "▶" to scroll, press "OK" to select. Even you don't press OK button and exit the page by pressing BACK button, the mode would still be effective if the cursor had been moved to the operation mode.
If there is only HEAT(COOL) mode, the following page will appear:



- The operation mode can not be changed.

If you select...	Then the space operation mode is...
HEAT	Always heating mode
COOL	Always cooling mode
AUTO	Automatically changed by the software based on the outdoor temperature (and depending on installer settings of the indoor temperature), and takes monthly restrictions into account. Note: Automatic changeover is only possible under certain conditions. See the "FOR SERVICEMAN"> "AUTO MODE SETTING" in "Installation manual".

- Adjust space operation mode by the room thermostat, see "ROOM THERMOSTAT" on "Installation manual".
Go to "MENU">"OPERATION MODE", if you press any key to select or adjust, the page will appear:



6 OPERATION

6.1 Operation Mode

See "5.4 Adjusting space operation mode"

6.2 Preset Temperature

PRESET TEMPERATUER has PRESET TEMP.\ WEATHER TEMP. SET\ECO MODE 3 items.

6.2.1 PRESET TEMP.

PRESET TEMP. function is used to set different temperature on different time when the heat mode or cool mode is on.

PRESET TEMP. =PRESET TEMPERATUER

The PRESET TEMP. function will be off in these conditions.

- 1) AUTO mode is running.
- 2) TIMER or WEEKLY SCHEDULE is running.

Go to "MENU" > "PRESTE TEMPERATURE" >"PRESET TEMP". Press "OK".

- The following page will appear:

PRESET TEMPERATURE 1/2		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
NO.	TIME	TEMP.
1 <input checked="" type="checkbox"/>	00:00	25°C
2 <input type="checkbox"/>	00:00	25°C
3 <input type="checkbox"/>	00:00	25°C

PRESET TEMPERATURE 2/2		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
NO.	TIME	TEMP.
4 <input type="checkbox"/>	00:00	25°C
5 <input type="checkbox"/>	00:00	25°C
6 <input type="checkbox"/>	00:00	25°C

When double zone is activated, The PERSET TEMP. function only works for zone 1.

use "◀", "▶", "⏪", "⏩", "▲", "▼" to scroll and use "▼", "▲" to adjust the time and the temperature.

When the cursor is on "■", as the following page:

PRESET TEMPERATURE 1/2		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
NO.	TIME	TEMP.
1	00:00	25°C
2 <input checked="" type="checkbox"/>	00:00	25°C
3 <input type="checkbox"/>	00:00	25°C
SELECT		

You press "OK", and the "■" becomes "□". The timer 1 is selected.

You press "OK" again, and the "□" becomes "■". The timer 1 is unselected.

PRESET TEMPERATURE 1/2		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
NO.	TIME	TEMP.
1 <input checked="" type="checkbox"/>	08:00	35°C
2 <input type="checkbox"/>	12:00	25°C
3 <input checked="" type="checkbox"/>	15:00	35°C
CANCEL		

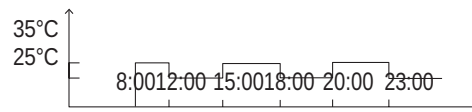
Use "◀", "▶", "⏪", "⏩", "▲", "▼" to scroll and use "▼", "▲" to adjust the time and the temperature. Six periods and six temperatures can be set.

For example: Now time is 8:00 and temperature is 30°C. We set the PRESET TEMP as following table. The following page will appear:

01-01-2018 8:00 13°		
☁ 08:00	ON	
💧 25 °C	☀	
🔌		

NO.	TIME	TEMPER
1	8:00	35°C
2	12:00	25°C
3	15:00	35°C
4	18:00	25°C
5	20:00	35°C
6	23:00	25°C

TEMP.



0.2.2 WEATHER TEMP. SET

WEATHER TEMP. SET=WEATHER TEMPERATURE SET

WEATHER TEMP.SET function is used to preset the desired water flow temperature depending on the outside air temperature. During the warmer weather the heating is reduced. To save energy, the weather temp.set can decrease the desired water flow temperature when the outdoor air temperature increased in heating mode.

Go to "MENU" > "PRESET TEMPERATURE" > "WEATHER TEMP. SET". Press "OK".

The following page will appear:

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
ZONE1 C-MODE LOW TEMP.		OFF
ZONE1 H-MODE LOW TEMP.		OFF
ZONE2 C-MODE LOW TEMP.		OFF
ZONE2 H-MODE LOW TEMP.		OFF
ON/OFF		ON/OFF

i INFORMATION

- WEATHER TEMP. SET have four kinds of curves :1.the curve of the high temperature setting for heating,2.the curve of the low temperature setting for heating, 3.the curve of the high temperature setting for cooling ,4.the curve of the low temperature setting for cooling. It only have the curve of the high temperature setting for heating, if the high temperature is set for heating.

It only have the curve of the low temperature setting for heating, if the low temperature is set for heating.

It only have the curve of the high temperature setting for cooling, if the high temperature is set for cooling.

It only have the curve of the low temperature setting for cooling, if the low temperature is set for cooling.

- See "FOR SERVICEMAN"> "COOL MODE SETTING" and > "HEAT MODE SETTING" in "Installation manual".

- The desired temperature (T1S) can't be adjusted, when the temperature curve is set ON.

- If you want to use heat mode in zone 1 ,you select "ZONE1 H-MODE LOW TEMP". If you want to use cool mode in zone 1, you select "ZONE1 C-MODE LOW TEMP". If you select "ON", the following page will appear:

WEATHER TEMP. SET	
WEATHER TEMP. SET TYPE:	
1	2
3	4
5	6
7	8
9	
OK CONFIRM	

Use '◀' '▶' to scroll .Press "OK" to select.

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
ZONE1 C-MODE LOW TEMP		ON
ZONE1 H-MODE LOW TEMP		OFF
ZONE2 C-MODE LOW TEMP		OFF
ZONE2 H-MODE LOW TEMP		OFF
ON/OFF		ON/OFF

- If the weather TEMP.SET is activated,the desired temperature can not be adjusted on the interface.Press the "▼" "▲" to adjust the temperature on home page. The following page will appear:

01-01-2018	23:59	13°
Weather temp.set function is on. Do you want to turn off it?		
NO		YES
OK CONFIRM		

Move to "NO",press "OK" to come back to home page,move to "YES",press "OK" to reset the WEATHER TEMP. SET.

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
ZONE1 C-MODE LOW TEMP		OFF
ZONE1 H-MODE LOW TEMP		OFF
ZONE2 C-MODE LOW TEMP		OFF
ZONE2 H-MODE LOW TEMP		OFF
ON/OFF		ON/OFF

6.2.3 ECO MODE

ECO MODE is used to save energy. Go to "MENU" > "PRESET TEMPERATURE" > "ECO MODE". Press "OK". The following page will appear:

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
CURRENT STATE		OFF
ECO TIMER		OFF
START		08:00
END		19:00
ON/OFF		ON/OFF

Press "ON/OFF". The following page will appear:

ECO MODE SET	
ECO MODE SET TYPE:	
OK CONFIRM	
1	2
3	4
5	6
7	8
9	

Use "◀" "▶" "⏪" "⏩" to scroll. Press "OK" to select. The following page will appear:

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
CURRENT STATE		ON
ECO TIMER		OFF
START		08:00
END		19:00
ON/OFF		⏮ ⏭

Use "ON/OFF" to turn ON or OFF, and use "▼" "▲" to scroll.

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
CURRENT STATE		OFF
ECO TIMER		ON
START		08:00
END		19:00
ADJUST		⏮ ⏭

When the cursor is on the "START" or on the "END", you can use "◀", "▶" "⏪" "⏩" to scroll and use "▼" "▲" to adjust the time.

i INFORMATION

- ECO MODE SET have two kinds of curves :1.the curve of the high temperature setting for heating,2.the curve of the low temperature setting for heating, It only have the curve of the high temperature setting for heating, if the high temperature is set for heating.
It only have the curve of the low temperature setting for heating, if the low temperature is set for heating.
- See "FOR SERVICEMAN">"HEAT MODE SETTING" in "Installation manual".
- The desired temperature (T1S) can't be adjusted, when the ECO mode is ON.
- You can select the low or high temperature setting for heating to see the "Table 1~2".
- If ECO MODE is ON and ECO TIMER is OFF, the unit runs ECO mode all the time.
- If ECO MODE is ON and ECO TIMER is ON, the unit runs ECO mode according to the start time and end time.

6.3 Domestic Hot Water(DHW)

DHW mode typically consists of the following :

- 1) DISINFECT
- 2) FAST DHW
- 3) TANK HEATER
- 4) DHW PUMP

6.3.1 Disinfect

The DISINFECT function is used to kill the legionella. In disinfect function the tank temperature will be reached 65~70°C forcibly. The disinfect temperature is set in FOR SERVICEMAN. See "FOR SERVICEMAN" > "DHW MODE" > "DISINFECT" in "Installation and owner's manual (M-thermal split indoor unit)".

Go to "MENU" > "DOMESTIC HOT WATER" > "DISINFECT". Press "OK". The following page will appear:

DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
CURRENT STATE			ON
OPERATE DAY			FRI
START			23:00
ON/OFF			⏮ ⏭

DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
CURRENT STATE			OFF
OPERATE DAY			FRI
START			23:00
ON/OFF			⏮ ⏭

Use "◀", "▶" "⏪" "⏩" to scroll and use "▼" "▲" to adjust the parameters when setting "OPERATE DAY" and "START". If the OPERATE DAY is set FRIDAY and the START is set 23:00, the disinfect function will active on 23:00 Friday. If the disinfect function is running, the following page will appear:

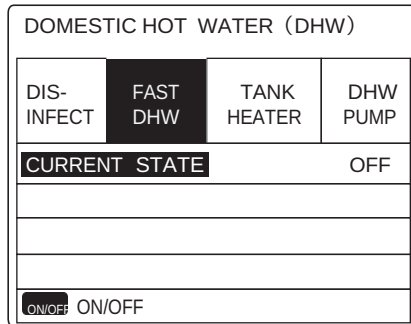
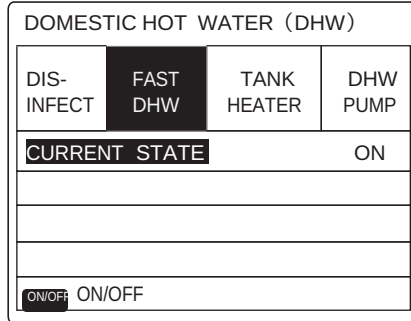
01-01-2018	23:59	13°C
23.5°C	ON	38°C

6.3.2 Fast DHW

The FAST DHW function is used to force the system to operate in DHW mode.

The heat pump and the booster heater or addition heater will operate for DHW mode together, and the DHW desired temperature will be changed to 60°C.

Go to MENU > DOMESTIC HOT WATER > FAST DHW. Press "OK":



Use "ON/OFF" key to select ON or "OFF".

i INFORMATION

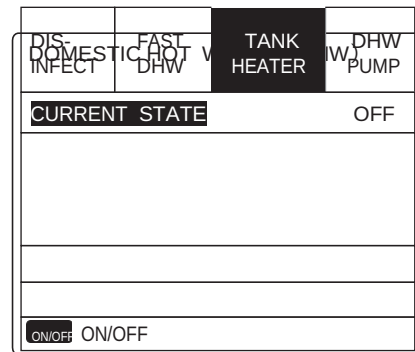
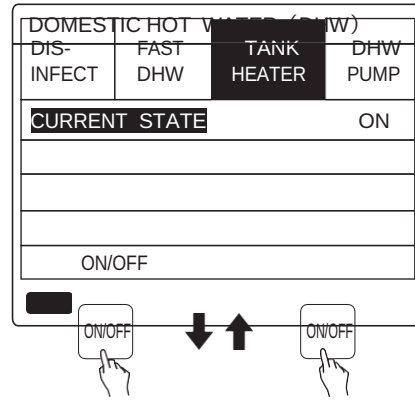
If CURRENT STATE is OFF, the FAST DHW is invalid, and if CURRENT STATE is ON, the FAST DHW function is effective. The FAST DHW function is once effective.

6.3.3 TANK HEATER

The tank heater function is used to force the tank heater to heat the water in tank. In the same situation, the cooling or heating is required and the heat pump system is operating for cooling or heating, however there still is a demand for the hot water.

Also, even if the heat pump system fails, TANK HEATER can be used to heat water in tank.

Go to "MENU" > "DOMESTIC HOT WATER" > "TANK HEATER". Press "OK".



Use "ON/OFF" to select ON or OFF. Use "BACK" to exit.

If TANK HEATER is effect, the following page will appear:



i INFORMATION

If CURRENT STATE is OFF, TANK HEATER is invalid. If the T5(sensor of tank) is fault ,tank heater can't work.

6.3.4 DHW Pump


The DHW PUMP function is used to return water of the water net. Go to "MENU" > "DOMESTIC HOT WATER" > "DHW PUMP". Press "OK". The following page will appear:

6.4 Schedule

SCHEDULE menu contents as follows:

- 1) TIMER
- 2) WEEKLY SCHEDULE
- 3) SCHEDULE CHECK
- 4) CANCEL TIMER

6.4.1 Timer

If the weekly schedule function is on, the timer is off, the later setting is effective. If the Timer is activated  is displayed on home page.

DOMESTIC HOT WATER (DHW)			
1/2			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
NO.	START	NO.	START
T1 <input type="checkbox"/>	00:00	T4 <input type="checkbox"/>	00:00
T2 <input type="checkbox"/>	00:00	T5 <input type="checkbox"/>	00:00
T3 <input type="checkbox"/>	00:00	T6 <input type="checkbox"/>	00:00

DOMESTIC HOT WATER (DHW)			
2/2			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
NO.	START	NO.	START
T7 <input type="checkbox"/>	00:00	T10 <input type="checkbox"/>	00:00
T8 <input type="checkbox"/>	00:00	T11 <input type="checkbox"/>	00:00
T9 <input type="checkbox"/>	00:00	T12 <input type="checkbox"/>	00:00

Move to "■", press "OK" to select or unselect. (the timer is selected. the timer is unselected.)

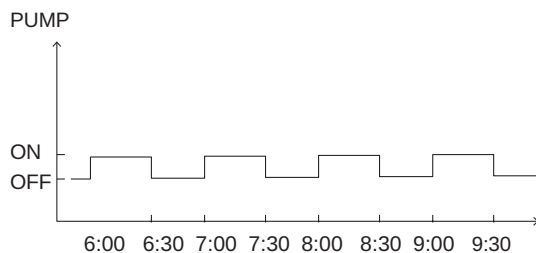
DOMESTIC HOT WATER (DHW)			
1/2			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
NO.	START	NO.	START
T1 <input checked="" type="checkbox"/>	00:00	T4 <input type="checkbox"/>	00:00
T2 <input type="checkbox"/>	00:00	T5 <input type="checkbox"/>	00:00
T3 <input checked="" type="checkbox"/>	00:00	T6 <input type="checkbox"/>	00:00

Use "◀"▶" "◀"▶" "▼"▲" to scroll and use "▼"▲" to adjust the parameters.

For example: you have set the parameter about the DHW PUMP (See "FOR SERVICEMAN" > "DHW MODE SETTING" on "Installation manual"). PUMP RUNNING TIME is 30 minutes. Set as follows:

NO.	START
1	6:00
2	7:00
3	8:00
4	9:00

The PUMP will run as follows:



TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	1/2 CANCEL TIMER
NO.	START	END	MODE TEMP
1 <input checked="" type="checkbox"/>	00:00	00:00	HEAT 0°C
2 <input type="checkbox"/>	00:00	00:00	HEAT 0°C
3 <input type="checkbox"/>	00:00	00:00	HEAT 0°C

SCHEDULE			
2/2			
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL TIMER
NO.	START	END	MODE TEMP
4 <input type="checkbox"/>	00:00	00:00	HEAT 0°C
5 <input type="checkbox"/>	00:00	00:00	HEAT 0°C
6 <input type="checkbox"/>	00:00	00:00	HEAT 0°C

- Use "◀"▶" "◀"▶" "▼"▲" to scroll and use "▼"▲" to adjust the time, the mode and the temperature.

Move to "■", press "OK" to select or unselect. (the timer is selected. the timer is unselected.) six timers can be set.

If you want to cancel the TIMER, you move the cursor to "■", press "OK", the become , the timer is invalid.

If you set the start time later than the end time or the temperature out of range of the mode. The following page will appear:

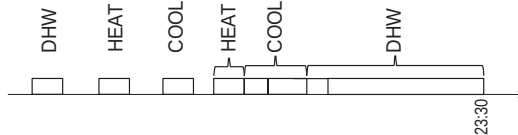
SCHEDULE			
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL TIMER
Timer1 is useless.			
Please check the timer setting and temperature setting.			
<input type="checkbox"/> OK CONFIRM			

Example:

Six timer is set as following:

NO.	START	END	MODE	TEMP
T1	1:00	3:00	DHW	50°C
T2	7:00	9:00	HEAT	28°C
T3	11:30	13:00	COOL	20°C
T4	14:00	16:00	HEAT	28°C
T5	15:00	19:00	COOL	20°C
T6	18:00	23:30	DHW	50°C

The unit will run as following:



The operation of the controller at the following time:

TIME	The operatin of the controller
1:00	DHW mode is turned ON
3:00	DHW mode is turned OFF
7:00	HEAT MODE is turned ON
9:00	HEAT MODE is turned OFF
11:30	COOL MODE is turned ON
13:00	COOL MODE is turned OFF
14:00	HEAT MODE is turned ON
15:00	COOL MODE is turned ON and HEAT MODE is turned OFF
18:00	DHW MODE is turned ON and COOL MODE is turned OFF
23:30	DHW mode is turned OFF

i INFORMATION

If the start time is same to the end time in one timer, the timer is invalid.

6.4.2 Weekly schedule

If the timer function is on and the weekly schedule is off, the later setting is effective. If WEEKLY SCHEDULE is activated, **7** is displayed on the home page.

Go to "MENU" > "SCHEDULE" > "WEEKLY SCHEDULE". Press "OK". The following page will appear:

SCHEDULE						
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCLE TIMER			
MON. TUE. WED. THU. FRI. SAT. SUN.						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENTER		CANCEL				
OK MON SELECT		<input type="button" value="↑"/> <input type="button" value="↓"/>				

First select the days of the week you wish to schedule. Use "◀" "▶" "◂" "▸" to scroll, press "OK" to select on unselect the day. "MON" means that the day is selected, "MON" means that the day is unselected.

i INFORMATION

We must set two days at least when we want to enable WEEKLY SCHEDULE function.

SCHEDULE						
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCLE TIMER			
MON. TUE. WED. THU. FRI. SAT. SUN.						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENTER		CANCEL				
OK MON SELECT		<input type="button" value="↑"/> <input type="button" value="↓"/>				

Use "◀" or "▶" to SET, press "ENTER". The Monday to Friday are selected to be scheduled and they have the same schedule.

The following pages will appear:

SCHEDULE						1/2
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCLE TIMER			
NO.	START	END	MODE	TEMP		
1	<input type="checkbox"/>	00:00	00:00	HEAT	0°C	
2	<input type="checkbox"/>	00:00	00:00	HEAT	0°C	
3	<input type="checkbox"/>	00:00	00:00	HEAT	0°C	
					<input type="button" value="↑"/> <input type="button" value="↓"/>	

SCHEDULE						2/2
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCLE TIMER			
NO.	START	END	MODE	TEMP		
4	<input type="checkbox"/>	00:00	00:00	HEAT	0°C	
5	<input type="checkbox"/>	00:00	00:00	HEAT	0°C	
6	<input type="checkbox"/>	00:00	00:00	HEAT	0°C	
					<input type="button" value="↑"/> <input type="button" value="↓"/>	



Use "◀" "▶" "◂" "▸" "◃" "▹" "▲" to scroll and adjust the time, the mode and the temperature. Timers can be set, including start time and end time, mode and temperature. The mode includes heat mode, cool mode and DHW mode.



The setting method refer to timer setting. The end time must be later than the start time. Otherwise this will show that Timer is useless.

6.4.3 Schedule check

schedule check can only check the weekly schedule.



Go to "MENU" > "SCHEDULE" > "SCHEDULE' CHECK". Press "OK". The following page will appear:

SCHEDULE			
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL TIMER
WEEKLY SCHEDULE CHECK			
OK ENTER  			

WEEKLY SCHEDULE CHECK			
DAY	NO	MODE SET	START END
MON	T1	<input type="checkbox"/> HEAT 0°C	00:00 00:00
	T2	<input type="checkbox"/> HEAT 0°C	00:00 00:00
	T3	<input type="checkbox"/> HEAT 0°C	00:00 00:00
	T4	<input type="checkbox"/> HEAT 0°C	00:00 00:00
	T5	<input type="checkbox"/> HEAT 0°C	00:00 00:00
	T6	<input type="checkbox"/> HEAT 0°C	00:00 00:00
OK ENTER  			



Press "▼" "▲", the timer from Monday to Sunday will appear:

Go to "MENU" > "SCHEDULE" > "CANCEL TIMER". Press "OK". The following page will appear:



SCHEDULE			
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL TIMER
Do you want to cancel the			
timer and weekly schedule?			
NO		YES	
OK ENTER  			

Use "◀" "▶" "▼" "▲" to move to "YES", press "OK" to cancel timer. If you want to exit CANCEL TIMER, press "BACK".

If TIMER or WEEKLY SCHEDULE is activated, timer icon "🕒" or weekly schedule icon "7" will display on the home page.

01-01-2018	🔒	23:59	🕒	🏠 13°
	ON		23.5 °C	38 °C

If TIMER or WEEKLY SCHEDULE is canceled, icon "🕒" or "7" will disappear on the home page.

01-01-2018	🔒	23:59	🏠 13°
	ON		38 °C

INFORMATION

You have to reset TIMER/WEEKLY SCHEDULE, if you change the WATER FLOW TEMP. to the ROOM TEMP. or you change the ROOM TEMP. to the WATER FLOW TEMP.

The TIMER or WEEKLY SCHEDULE is invalid, if ROOM THERMOSTAT is effect.

INFORMATION

- The ECO or COMFORT MODE has the highest priority, the TIMER or WEEKLY SCHEDULE has the second priority and the PRESET TEMP. or WEATHER TEMP. SET has the lowest priority.

- The PRESET TEMP. or WEATHER TEMP. SET becomes invalid, when we set the ECO or COMFORT valid. We must reset the PRESET TEMP. or WEATHER TEMP. SET when we set the ECO or COMFORT invalid.

- TIMER or WEEKLY SCHEDULE is invalid when ECO or COMFORT is valid. TIMER or WEEKLY SCHEDULE is activated when the ECO or COMFORT is not running.

- TIMER and WEEKLY SCHEDULE are on the same priority. The later setting function is valid. The PRESET TEMP. becomes invalid when TIMER or WEEKLY SCHEDULE is valid. The WEATHER TEMP. SET is not affected by the setting of TIMER or WEEKLY SCHEDULE.

- PRESET TEMP. and WATHER TEMP.SET are on the same priority. The later setting function is valid.

CANCEL TIMER

INFORMATION

All about the time set items(PRESET TEMP. ECO/COMFORT DISINFECT DHW PUMP TIMER WEEKLY SCHEDULE SILENCE MODE HOLIDAY HOME), the ON/OFF of the corresponding function can be activated from the start time to the end time.

6.5 Options

OPTIONS menu contents as following:

- 1) SILENT MODE
- 2) HOLIDAY AWAY
- 3) HOLIDAY HOME
- 4) BACKUP HEATER

6.5.1 Silent Mode

The SILENT MODE is used to decrease the sound of the unit. However, it also decreases the heating/cooling capacity of the system. There are two silent mode levels. level2 is more silent than level1, and the heating or cooling capacity is also more decreasing.

There are two method to use the silent mode:

- 1) silent mode in all time;
- 2) silent mode in timer.

- Go to the home page to check if silent mode is activated. If the silent mode is activated, "☾" will display on the home page.
- Go to "MENU" > "OPTIONS" > "SILENT MODE". Press "OK". The following page will appear:

OPTIONS				1/2
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER	
CURRENT STATE				OFF
SILENT LEVEL				LEVEL 1
TIMER1 START				12:00
TIMER1 END				15:00
ON/OFF				ON/OFF

Use "ON/OFF" to select ON or OFF.

Description:

If CURRENT STATE is OFF, SILENT MODE is invalid.

When you select SILENT LEVEL, and press "OK" or "▶". The following page will appear:

OPTIONS				1/2
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER	
CURRENT STATE				ON
SILENT LEVEL				LEVEL 1
TIMER1 START				12:00
TIMER1 END				15:00
ADJUST				

LEVEL 1

OPTIONS				1/2
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER	
CURRENT STATE				ON
SILENT LEVEL				LEVEL 2
TIMER1 START				12:00
TIMER1 END				15:00
ADJUST				

LEVEL 2

You can use "▼" "▲" to select level 1 or level 2. Press "OK".

If the silent TIMER is selected, Press "OK" to enter, the following page will appear.

OPTIONS				2/2
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER	
TIMER1				OFF
TIMER2 START				22:00
TIMER2 END				07:00
TIMER2				OFF
ADJUST				

There are two timers for setting. Move to "■", press "OK" to select or unselect.

If the two time are both unselected, the silent mode will operate in all time. Otherwise, it will operate according as the time.

6.5.2 Holiday Away

- If the holiday away mode is activated, ☽ will display on the home page.

The holiday away function is used to prevent frozen in the winter during the outside holiday, and return the unit before the end of the holiday.

Go to "MENU" > "OPTIONS" > "HOLIDAY AWAY". Press "OK". The following page will appear:

OPTIONS				1/2
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER	
CURRENT STATE				OFF
DHW MODE				ON
DISINFECT				ON
HEAT MODE				ON
ON/OFF				ON/OFF

OPTIONS				2/2
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER	
FROM				00-00-2000
UNTIL				00-00-2000
ADJUST				

Usage example: You go away during the winter. The current date is 2018-01-31, two days later is 2018-02-02, it is the beginning date of the holiday.

- If you are in the following situation:
 - In 2 days, you go away for 2 weeks during the winter.
 - You want to save energy, but prevent your house from freezing.

Then you can do the following:

1) Configure the holiday away the following settings:

2) Activate the holiday mode.

Go to "MENU" > "OPTIONS" > "HOLIDAY AWAY". Press "OK".

Use "ON/OFF" to select "OFF" or "ON" and use "◀" "▶"

"▶" "▼" "▲" to scroll and adjust.

Setting	Value
Holiday away	ON
From	2 February 2018
Until	16 February 2018
Operation mode	Heating

i INFORMATION


- If DHW mode in holiday away mode is ON, The disinfect set by user is invalid.
- If holiday away mode is ON, The timer and weekly schedule are invalid except exit.
- If the CURRENT STATE is OFF, the HOLIDAY AWAY is OFF.
- If the CURRENT STATE is ON, the HOLIDAY AWAY is ON.
- The remote control doesn't accept any orders when holiday away mode is ON.
- Disinfecting the unit on 23:00 of the last day if disinfect is ON.
- When in holiday away mode, the climate related curves previously set is invalid, and the curves will automatically take effect after the holiday away mode is ends.
- The preset temperature is invalid when in holiday away mode, but the preset value still display on the main page.

6.5.3 Holiday Home

The holiday home function is used to deviate from the normal schedules without having to change them during the holiday at home.

- During your holiday, you can use the holiday mode to deviate from your normal schedules without having to change them.

Period	Then...
Before and after your holiday	Your normal schedules will be used.
During your holiday	The configured holiday settings will be used.

If the holiday home mode is activated,  will display on the home page.

Go to "MENU" > "OPTIONS" > "HOLIDAY HOME". Press "OK". The following page will appear:

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
CURRENT STATE			OFF
FROM			00-00-2000
UNTIL			00-00-2000
TIMER			ENTER
ON/OFF			ON/OFF

Use "ON/OFF" to select "OFF" or "ON" and use "◀" "▶" "▼" "▲" to scroll and adjust.

If the CURRENT STATE is OFF, the HOLIDAY HOME is OFF.

If the CURRENT STATE is ON, the HOLIDAY HOME is ON.

Use "▼" "▲" to adjust the date.

- Before and after your holiday, your normal schedule will be used.
- During your holiday, you save energy and prevent your house from freezing.

i INFORMATION

You have to reset Holiday away or Holiday home, if you change the operation mode of the unit.

6.5.4 Backup Heater

- The BACKUP HEATER function is used to force the backup heater. Go to "MENU" > "OPTIONS" > "BACKUP HEATER". Press "OK". If IBH and AHS is set invalid by DIP switch on the main control board of hydraulic module, The following page will appear:

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER

IBH=Indoor unit backup heater.

AHS=Additional heating source.

- If IBH and AHS is set valid by DIP switch on the main control board of hydraulic module, The following page will appear:

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
BACKUP HEATER			ON
ON/OFF			

Use "ON/OFF" to select "OFF" or "ON" .

i INFORMATION

- If the operation mode is auto mode in space heating or cooling side, the buckup heater function can not be selected.
- The BACKUP HEATER function is invalid when only ROOM HEAT MODE enabled.

6.6 Child Lock

The CHILD Lock function is used to prevent children error operation. The mode setting and temperature adjusting can be locked or unlocked by using CHILD LOCK function.Go to" MENU" > "CHILD LOCK". The page is displayed:

CHILD LOCK

Please input the password:

1 2 3

OK ENTER ADJUST

Input the corrent password,the following page will appear:

CHILD LOCK

COOL/HEAT TEMP. ADJUST	UNLOCK
COOL/HEAT MODE ON/OFF	UNLOCK
DHW TEMP. ADJUST	UNLOCK
DHW MODE ON/OFF	UNLOCK

UNLOCK LOCK/UNLOCK

Use "▼" "□" "▲" to scroll and" ON/OFF" to select LOCK or UNLOCK.

The cool/heat temperature can't be adjusted when the COOL/HEAT TEMP. ADJUST is locked.If you want to adjust the cool/heat temperature when cool/heat temperature is locked,the following page will appear:

01-01-2018 23:59 13°

Cooling or heating temperature adjust function is locked.
Do you want to unlock?

NO YES

OK CONFIRM

The cool/heat mode can't turn on or off when the COOL/HEAT MODE ON/OFF is locked.If you want to turn on or off the cool/heat mode when COOL/HEAT MODE ON/OFF is locked,the following page will appear:

01-01-2018 23:59 13°

Cooling or heating mode's ON/OFF is locked.
Do you want to unlock?

NO YES

OK CONFIRM

The DHW temperature can't be adjusted when the DHW TEMP. ADJUST is locked.If you want to adjust the DHW temperature when DHW TEMP. ADJUST is locked,the following page will appear:

01-01-2018 23:59 13°

DHW temperature adjust function is locked.
Do you want to unlock?

NO YES

OK CONFIRM

The DHW mode can't turn on or off when the DHW MODE ON/OFF is locked.If you want to turn on or off the DHW mode when DHW MODE ON/OFF is locked,the following page will appear:

01-01-2018 23:59 13°

DHW mode's ON/OFF function is locked.
Do you want to unlock?

NO YES

OK CONFIRM

6.7 Service information

6.7.1 About service information

Service information menu contents as following:

- 1) SERVICE CALL
- 2) ERROR CODE
- 3) PARAMETER
- 4) DISPLAY

6.7.2 How to go to service information menu

Go to "MENU" > "SERVICE INFORMATION". Press

"OK". The following page will appear:

The service call can show the service phone or mobile number. The installer can input the phone number. See "FOR SERVICEMAN".

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
PHONE NO. 0000000000000			
MOBILE NO. 0000000000000			
OK ENTER			

Error code is used to show when the fault or protection happens and show the meaning of the error code.

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
E2	14:10	01-01-2018	
E2	14:00	01-01-2018	
E2	13:50	01-01-2018	
E2	13:20	01-01-2018	
OK ENTER			

Press OK the page will appear:

SERVICE INFORMATION 1/2			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
E2	14:10	01-01-2018	
E2	14:00	01-01-2018	
E2	13:50	01-01-2018	
E2	13:20	01-01-2018	
OK ENTER			

press OK to show the meaning of the error code:

01-01-2018	23:59	↑ 13°
E2 communication fault between controller and indoor unit		
Please contact your dealer.		
CONFIRM		
OK		

i INFORMATION

A total of eight fault codes can be recorded.

The parameter function is used to display the main parameter, there are two pages to show the parameter:

SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
ROOM SET TEMP.			26°C
MAIN SET TEMP.			55°C
TANK SET TEMP.			55°C
ROOM ACTUAL TEMP.			24°C
SERVICE INFORMATION 2/2			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
MAIN ACTUAL TEMP.			26°C
TANK ACTUAL TEMP.			55°C
SMART GRID RUNNING TIME			0 Hrs
OK ENTER			

The DISPLAY function is used to set the interface:

SERVICE INFORMATION 1/2			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
TIME			12:30
DATE			08-08-2018
LANGUAGE			EN
BACKLIGHT			ON
OK ENTER			

SERVICE INFORMATION 2/2			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
BUZZER			ON
SCREEN LOCK TIME			120SEC
SMART GRID RUNNING TIME			2 Hrs
ON/OFF			

Use "OK" to enter and use "◀" "▶" "⏪" "⏩" "▲" "▼" to scroll.

6.8 Operation Parameter

This menu is for installer or service engineer reviewing the operation parameter.

- At home page, go to "MENU" > "OPERATION PARAMETER".
- Press "OK". There are six pages for the operating parameter as following. Use "▼" "⏪" "▲" to scroll.

OPERATION PARAMETER	1/6
OPERATE MODE	COOL
CURRENT	12 A
COMPRESSOR FREQUENCY	24 Hz
COMP. RUN TIME1	54 MIN
COMP. RUN TIME2	65 MIN
COMP. RUN TIME3	10 MIN
	↕

OPERATION PARAMETER	2/6
COMP.RUN TIME4	1000 Hrs
EXPANSION VALVE	240 P
FAN SPEED	600 R/MIN
IDU TARGET FREQUENCY	0 HZ
FREQUENCY LIMITED TYPE	0
T1 LEAVING WATER TEMP.	25 °C
	↕

OPERATION PARAMETER	3/6
T1B CIRCUIT2 WATER TEMP.	30 °C
T2 PLATE F-OUT TEMP.	30 °C
T2B PLATE F-IN TEMP.	45 °C
T3 OUTDOOR EXCHANGE TEMP.	-7 °C
T4 OUTDOOR AIR TEMP.	-7 °C
T5 WATER TANK TEMP.	-7 °C
	↕

OPERATION PARAMETER	4/6
Ta ROOM TEMP.	25 °C
Th COMP. SUCTION TEMP.	25 °C
Tp COMP. DISCHARGE TEMP.	25 °C
TW-O PLATE W-OUTLET TEMP.	25 °C
TW-I PLATE W-INLET TEMP.	25 °C
P1 COMP. PRESSURE	200 kPa
	↕

OPERATION PARAMETER	5/6
T1S' C1 CLI. CURVE TEMP.	25 °C
T1S2' C2 CLI. CURVE TEMP.	25 °C
TF MODULE TEMP.	55 °C
SUPPLY VOLTAGE	230 V
POWER CONSUM.	1000 kWh
DC GENERATRIX VOLTAGE	420 V
	↕

OPERATION PARAMETER	6/6
DC GENERATRIX CURRENT	18 A
WATER FLOW	1.72 M3/H
HEAT PUMP CAPACITY	11.52 kW
HMI SOFTWARE	00-00-2000V00
IDU SOFTWARE	00-00-2000V00
ODU SOFTWARE	00-00-2000V00
	↕

i INFORMATION

The power consumption parameter is optional. if some parameter not be activated in the system, the parameter will show "--"

The heat pump capacity is for reference only, not used to judge the ability of the unit. The accuracy of sensor is $\pm 1^{\circ}\text{C}$. The flow rates parameters are calculated according to the pump running parameters, the deviation is different at different flow rates, the maximum of deviation is 15%.

6.9 For Serviceman

6.9.1 About For Serviceman

FOR SERVICEMAN is used for installer and service engineer.

- Setting the function of equipment.
- Setting the parameters.

6.9.2 How To Go To For Serviceman

Go to "MENU" > "FOR SERVICEMAN". Press "OK".

FOR SERVICEMAN

Please input password:

2 3 4

OK ENTER
↕ ADJUST
↔

- The FOR SERVICEMAN is used for installer or service engineer. It is NOT intended the home owner alters setting with this menu.
- It is for this reason password protection is required to prevent unauthorised access to the service settings.
- The password is 234.

6.9.3 How To Exit For SERVICEMAN

If you have set all the parameter.

Press "BACK", the following page will appear:

FOR SERVICEMAN



Active the setting and exit?

NO
YES

OK CONFIRM
↕ ADJUST
↔

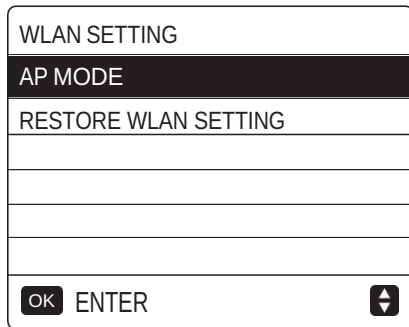
Select "YES" and press "OK" to exit the FOR SERVICEMAN.

After exiting the FOR SERVICEMAN, the unit will be turned off.

- The wired controller realizes intelligent control with a built-in module, which receives control signal from the APP.
- Before connecting the WLAN, please check for it if the router in your environment is active and make sure that the wired controller is well-connected to the wireless signal.
- During the Wireless distribution process, the LCD icon “” flashes to indicate that the network is being deployed. After the process is completed, the icon “” will be constantly on.

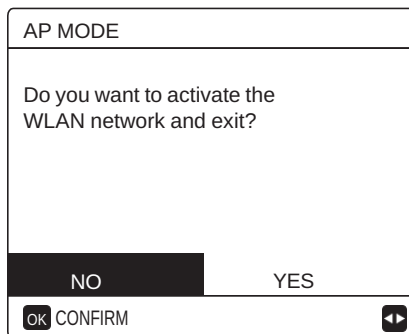
6.10.1 Wired Controller Setting

The wired controller settings include AP MODE and RESTORE WLAN SETTING.




- Activate the WLAN by interface. Go to "MENU"> "WLAN SETTING"> "AP MODE".


Press "OK", the following page will appear:



Use "◀", "▶" to move to "YES", press "OK" to select AP mode. Select AP Mode correspondingly on the mobile device and continue the follow-up settings according to the APP prompts.

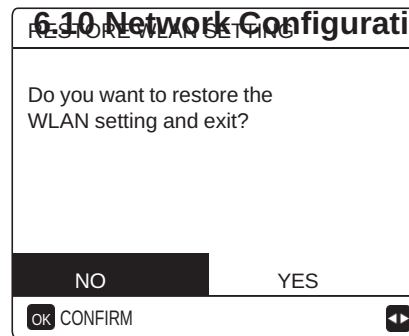
CAUTION

After enter Ap mode, if it's not connected with mobile phone, the LCD icon "” will flash 10 minutes then disappear.

If it's connected with the mobile phone, the icon "” will be constantly display.

- Restore WLAN setting by interface. Go to "MENU"> "WLAN SETTING" > "RESTORE WLAN SETTING". Press "OK", the following page will appear:

6.10 Network Configuration Guidelines

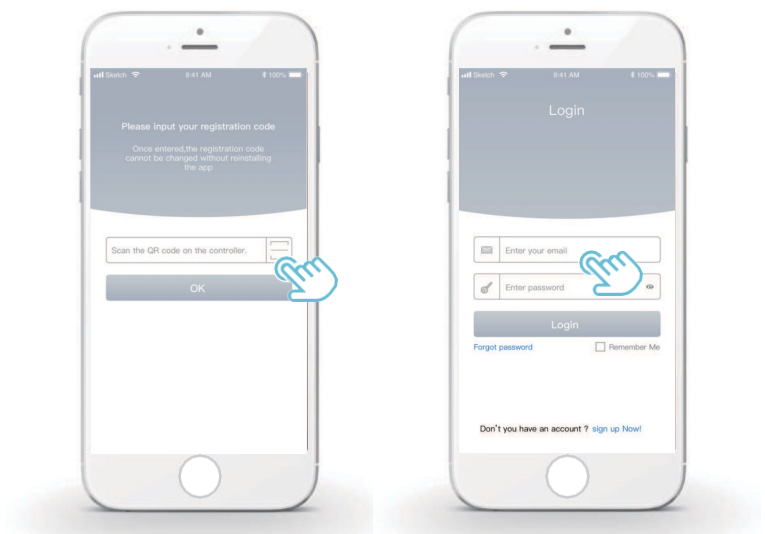


Use "◀", "▶" to move to "YES", press "OK" to restore WLAN setting. Complete the above operation and wireless

configuration is reset.

6.10.2 Mobile Device Setting

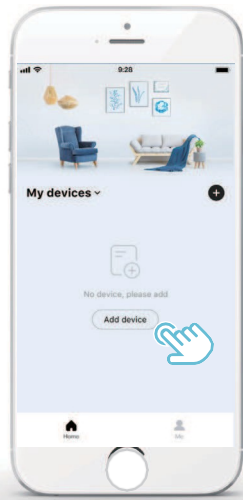
AP Mode is available for wireless distribution on mobile



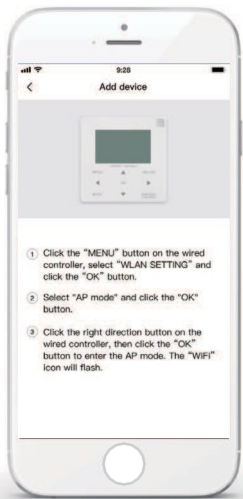
Please input your Kaisai registrat
Or scan the QR code in the manual.
And register your account according to the guidance.

6.10.3 Add Home Appliances:

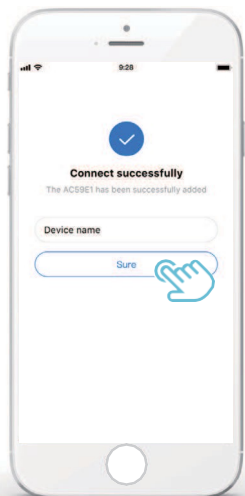
- 1) Add your device following the guidance.




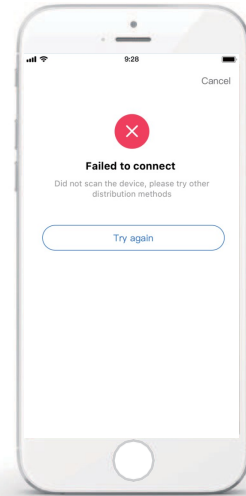
- 2) Operate the wired controller according to APP prompts.



- 3) Wait for the home appliance to connect, and click "Sure".



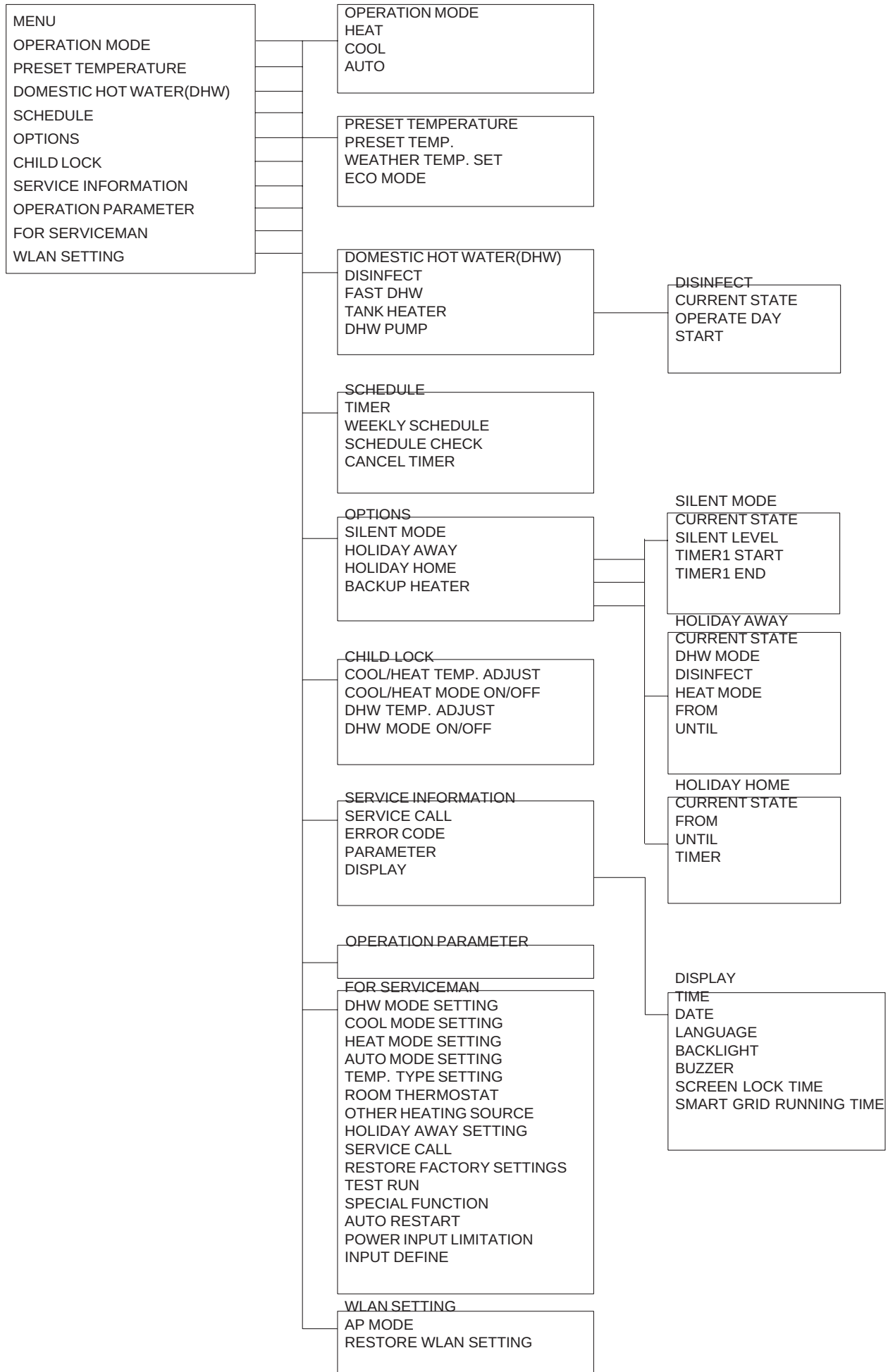
- 4) After the appliance is successfully connected, the LCD icon "  " of the wired controller is constantly on, and the heat pump can be controlled through the APP.
- 5) If the network distribution process fails, or the mobile connection demands reconnection and replacement, operate "WLAN Factory Reset" on the wired controller, and then repeat the above process.



~~If the password of the router or WLAN is changed, clear all settings and reset the appliance.~~

~~The contents of APP might change in version updates and actual operation shall prevail.~~

7 MENU STRUCTURE : OVERVIEW



FOR SERVICEMAN
 1 DHW MODE SETTING
 2 COOL MODE SETTING
 3 HEAT MODE SETTING
 4 AUTO MODE SETTING
 5 TEMP. TYPE SETTING
 6 ROOM THERMOSTAT
 7 OTHER HEATING SOURCE
 8 HOLIDAY AWAY SETTING
 9 SERVICE CALL
 10 RESTORE FACTORY SETTINGS
 11 TEST RUN
 12 SPECIAL FUNCTION
 13 AUTO RESTART
 14 POWER INPUT LIMITATION
 15 INPUT DEFINE

2 COOL MODE SETTING

2.1 COOL MODE
 2.2 t_T4_FRESH_C
 2.3 T4CMAX
 2.4 T4CMIN
 2.5 dT1SC
 2.6 dTSC
 2.7 t_INTERVAL_C
 2.8 T1SetC1
 2.9 T1SetC2
 2.10 T4C1
 2.11 T4C2
 2.12 ZONE1 C-EMISSION
 2.13 ZONE2 C-EMISSION

4 AUTO MODE SETTING

4.1 T4AUTOCMIN
 4.2 T4AUTOHMAX

5 TEMP. TYPE SETTING

5.1 WATER FLOW TEMP.
 5.2 ROOM TEMP.
 5.3 DOUBLE ZONE

6 ROOM THERMOSTAT

6.1 ROOM THERMOSTAT

7 OTHER HEATING SOURCE

7.1 dT1_IBH_ON
 7.2 t_IBH_DELAY
 7.3 T4_IBH_ON
 7.4 dT1_AHS_ON
 7.5 t_AHS_DELAY
 7.6 T4_AHS_ON

8 HOLIDAY AWAY SETTING

8.1 T1S_H.A._H
 8.2 T5S_H.A._DHW

9 SERVICE CALL

PHONE NO.
 MOBILE NO.

RESTORE FACTORY SETTINGS

11 TEST RUN

12 SPECIAL FUNCTION

13 AUTO RESTART

13.1 COOL/HEAT MODE
 13.2 DHW MODE

14 POWER INPUT LIMITATION

14.1 POWER LIMITATION

15 INPUT DEFINE

15.1 CN12 ON/OFF
 15.2 CN35 SMART GRID
 15.3 CN15 T1B
 15.4 Ta

1 DHW MODE SETTING

1.1 DHW MODE
 1.2 DISINFECT
 1.3 DHW PRIORITY
 1.4 DHW PUMP
 1.5 DHW PRIORITY TIME SET
 1.6 dT5_ON
 1.7 dT1S5
 1.8 T4DHWMAX
 1.9 T4DHWMIN
 1.10 t_INTERVAL_DHW
 1.11 dT5_TBH_OFF
 1.12 T4_TBH_ON
 1.13 t_TBH_DELAY
 1.14 T5S_DI
 1.15 t_DI_HIGHTEMP
 1.16 t_DI_MAX
 1.17 t_DHWHP_RESTRICT
 1.18 t_DHWHP_MAX
 1.19 DHW PUMP TIME RUN
 1.20 PUMP RUNNING TIME
 1.21 DHW PUMP DI RUN

3 HEAT MODE SETTING

3.1 HEAT MODE
 3.2 t_T4_FRESH_H
 3.3 T4HMAX
 3.4 T4HMIN
 3.5 dT1SH
 3.6 dTSH
 3.7 t_INTERVAL_H
 3.8 T1SetH1
 3.9 T1SetH2
 3.10 T4H1
 3.11 T4H2
 3.12 ZONE1 H-EMISSION
 3.13 ZONE2 H-EMISSION
 3.14 t_DELAY_PUMPI

Table1 The environment temperature curve of the low temperature setting for heating

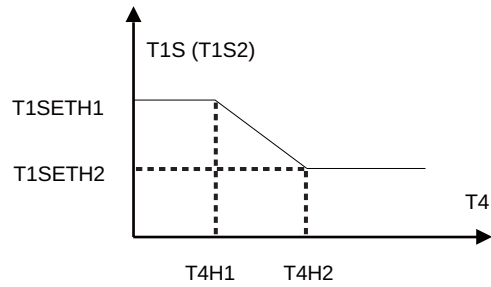
T4	≤-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1-T1S	38	38	38	38	37	37	37	37	37	37	36	36	36	36	36	36	36	35	35	35	35
2-T1S	35	35	35	35	34	34	34	34	34	34	34	34	33	33	33	33	33	33	33	33	32
3-T1S	33	33	33	33	33	33	33	32	32	32	32	32	32	32	32	32	32	32	32	32	31
4-T1S	35	35	35	34	34	34	34	34	34	33	33	33	33	33	33	32	32	32	32	32	31
5-T1S	33	33	33	33	32	32	32	32	32	32	32	32	31	31	31	31	31	31	31	31	30
6-T1S	31	31	31	31	30	30	30	30	30	30	30	30	29	29	29	29	29	29	29	29	28
7-T1S	29	29	29	29	29	29	29	28	28	28	28	28	28	28	28	28	28	28	28	28	27
8-T1S	29	29	29	29	28	28	28	28	28	28	28	28	27	27	27	27	27	27	27	27	26
T4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	≥ 20	
1-T1S	35	35	35	35	34	34	34	34	34	33	33	33	33	33	33	33	32	32	32	32	32
2-T1S	32	32	32	32	32	32	32	31	31	31	31	31	31	31	31	30	30	30	30	30	30
3-T1S	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	30
4-T1S	31	31	31	31	31	30	30	30	30	30	30	29	29	29	29	29	29	28	28	28	28
5-T1S	30	30	30	30	30	30	30	29	29	29	29	29	29	29	29	28	28	28	28	28	28
6-T1S	28	28	28	28	28	28	28	27	27	27	27	27	27	27	27	26	26	26	26	26	26
7-T1S	27	27	27	27	27	27	27	27	27	27	27	27	27	26	26	26	26	26	26	26	26
8-T1S	26	26	26	26	26	26	26	25	25	25	25	25	25	25	25	24	24	24	24	24	24

Table2 The environment temperature curve of the high temperature setting for heating

T4	≤-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1-T1S	55	55	55	55	54	54	54	54	54	54	54	54	53	53	53	53	53	53	53	53	52
2-T1S	55	55	54	54	54	54	53	53	53	53	52	52	52	52	51	51	51	51	50	50	50
3-T1S	55	54	54	53	53	53	52	52	52	51	51	50	50	50	49	49	49	48	48	48	47
4-T1S	50	50	50	50	49	49	49	49	49	49	49	49	48	48	48	48	48	48	48	48	47
5-T1S	50	50	49	49	49	49	48	48	48	48	47	47	47	47	46	46	46	46	45	45	45
6-T1S	45	45	45	45	44	44	44	44	44	44	44	44	43	43	43	43	43	43	43	43	42
7-T1S	45	45	44	44	44	44	43	43	43	43	42	42	42	42	41	41	41	41	40	40	40
8-T1S	40	40	40	40	39	39	39	39	39	39	39	39	38	38	38	38	38	38	38	38	37
T4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	≥ 20	
1-T1S	52	52	52	52	52	52	52	51	51	51	51	51	51	51	51	50	50	50	50	50	50
2-T1S	50	49	49	49	49	48	48	48	48	47	47	47	47	46	46	46	46	45	45	45	45
3-T1S	47	46	46	46	45	45	45	44	44	44	43	43	43	42	42	41	41	41	40	40	40
4-T1S	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	45	45	45	45	45	45
5-T1S	45	44	44	44	44	43	43	43	43	42	42	42	42	41	41	41	41	40	40	40	40
6-T1S	42	42	42	42	42	42	42	41	41	41	41	41	41	41	41	40	40	40	40	40	40
7-T1S	40	39	39	39	39	38	38	38	38	37	37	37	37	36	36	36	36	35	35	35	35
8-T1S	37	37	37	37	37	37	37	36	36	36	36	36	36	36	36	35	35	35	35	35	35

The automatic setting curve

The automatic setting curve is the ninth curve, this is the calculation:



State: In the setting the wired controller, if $T4H2 < T4H1$, then exchange their value; if $T1SETH1 < T1SETH2$, then exchange their value.

Table3 The environment temperature curve of the low temperature setting for cooling

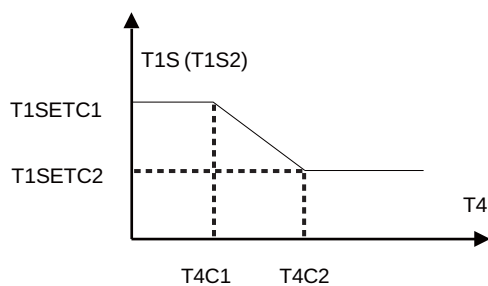
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
1- T1S	18	11	8	5
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
2- T1S	17	12	9	6
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
3- T1S	18	13	10	7
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
4- T1S	19	14	11	8
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
5- T1S	20	15	12	9
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
6- T1S	21	16	13	10
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
7- T1S	22	17	14	11
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
8- T1S	23	18	15	12

Table4 The environment temperature curve of the high temperature setting for cooling

T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
1- T1S	22	20	18	16
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
2- T1S	20	19	18	17
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
3- T1S	23	21	19	17
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
4- T1S	21	20	19	18
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
5- T1S	24	22	20	18
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
6- T1S	22	21	20	19
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
7- T1S	25	23	21	19
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
8- T1S	23	22	21	20

The automatic setting curve

The automatic setting curve is the ninth curve, this is the calculation:



State: In the setting the wired controller, if $T4C2 < T4C1$, then exchange their value; if $T1SETC1 < T1SETC2$, then exchange their value.

Handwriting practice lines consisting of a solid top line and multiple dashed midlines.





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