

V-TAC

Meaningful Innovation.

USER MANUAL

Wired controller



**INTUITIVE
CONTROLS**

Thank you for purchasing V-TAC product.
Before using the unit, please read this manual carefully
and keep it for future reference.

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1 SAFETY INSTRUCTION

1.1 About the manual

DANGER

Indicates a situation that results in death or serious injury.

DANGER: RISK OF ELECTROCUTION

Indicates a situation that could result in electrocution.

DANGER: RISK OF BURNING

Indicates a situation that could result in burning because of extreme hot or cold temperatures.

WARNING

Indicates a situation that could result in death or serious injury.

CAUTION

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

NOTE

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

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.

CAUTION

DO NOT rinse the unit. This may cause electric shocks or fire.

- The unit marked with the following symbol:

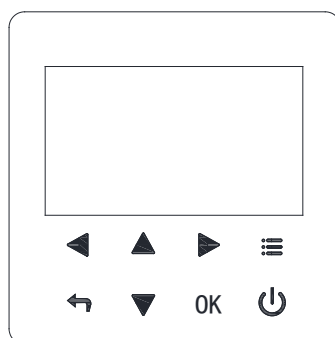



This means that electrical and electronic products cannot be mixed with unsorted household waste. DO NOT try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable 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 location away from radiation.

2 OVERVIEW OF WIRED CONTROLLER

2.1 The appearance



 : MENU

Enter the menu structure from the home page.

 : ON/OFF

Turn on or off the space operation mode \ DHW mode or the function in the menu structure.

 : ARROW

Navigate the cursor on the display; Navigate in the menu structure; adjust the settings; Flip pages in the menu structure.

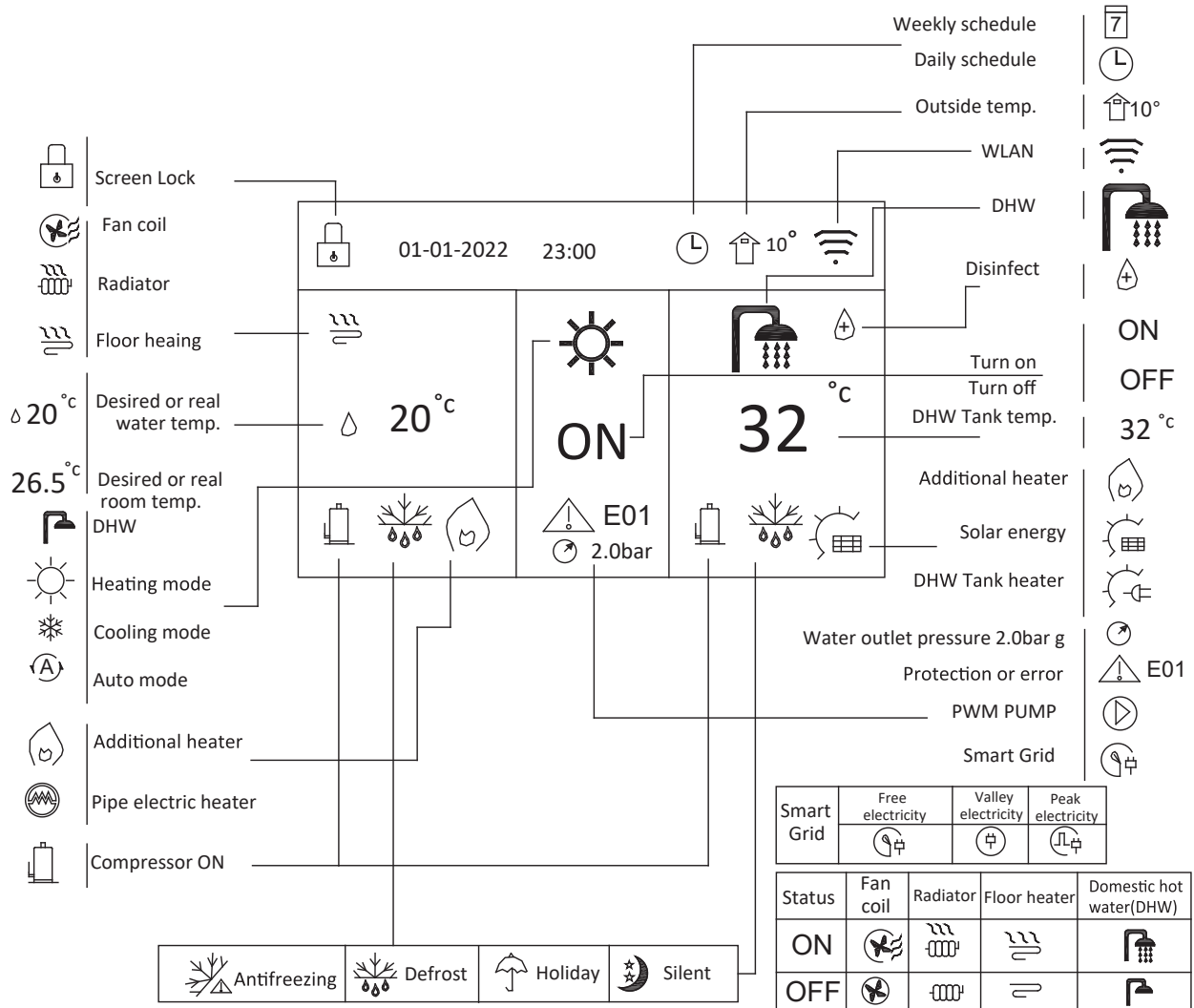
 : BACK

Come back to the up level.

OK :ENTER

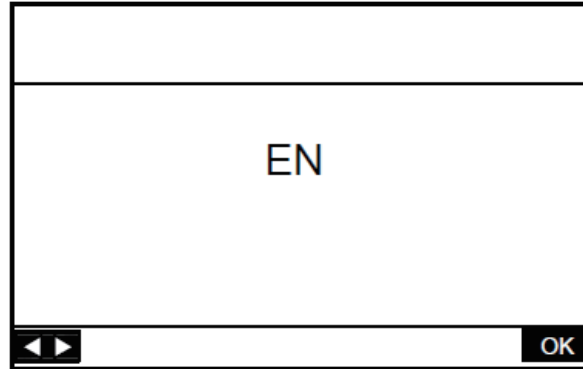
Go to the next step when programming a schedule in the menu structure; Confirm a selection; Enter a submenu in the menu structure; move to and from between the items in menu when editing the parameters.

2.2 State icons



3 HOME PAGES

When you turn on the wired controller, the system will enter the language setting page, you can choose your preferred language, and 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.

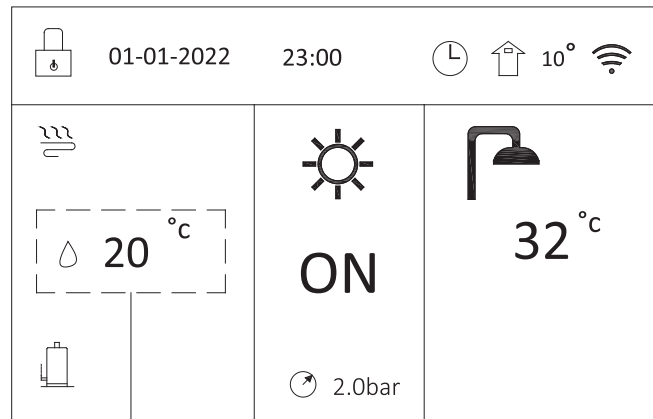


You can use the home pages to read out and change settings that are meant for daily usage. What you can see and do on the home pages is described where applicable. Depending on the system layout, the following home pages may be possible:

- Water flow desired temperature (MAIN)
- Room desired temperature (ROOM)
- DHW tank actual temperature (TANK) (DHW=Domestic Hot Water)

Home page 1

If anyone of the settings on Table 1 is set, home page 1 will appear:



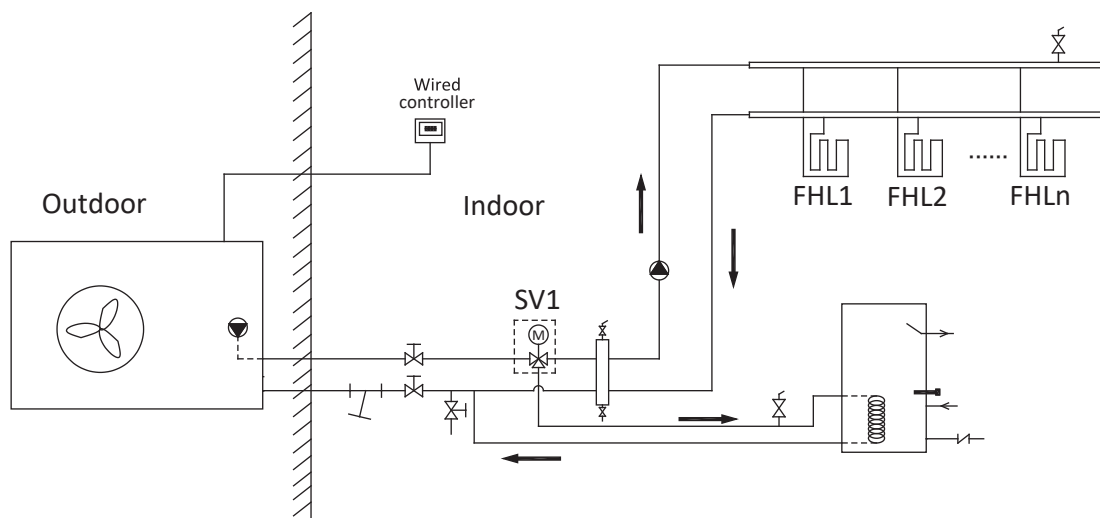
Target or real water temp.

Table 1

1	ZONE TYPE = ONE and ROOM THERMOSTAT = NON	SINGLE ZONE OPERATION SET = 0
2	ZONE TYPE = ONE and ROOM THERMOSTAT = NON	SINGLE ZONE OPERATION SET = 1
3	ROOM THERMOSTAT = MODE SET	SINGLE ZONE RT OPERATION = 0
4	ROOM THERMOSTAT = MODE SET	SINGLE ZONE RT OPERATION = 1
5	ROOM THERMOSTAT = ONE ZONE	SINGLE ZONE RT OPERATION = 0
6	ROOM THERMOSTAT = ONE ZONE	SINGLE ZONE RT OPERATION = 1

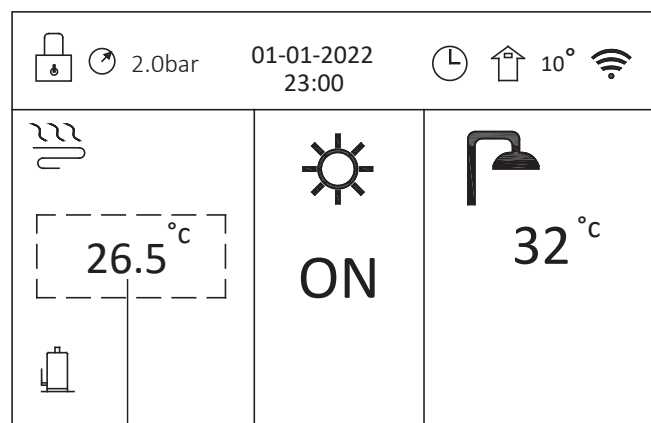
Refer to “FUNCTION PARAMETER SET”> “TEMP.TYPE SET” and “ROOM THERMOSTAT SET” for the settings in “Installation and owner’s manual”.

The system has the function including floor heating and domestic water:



Home page 2

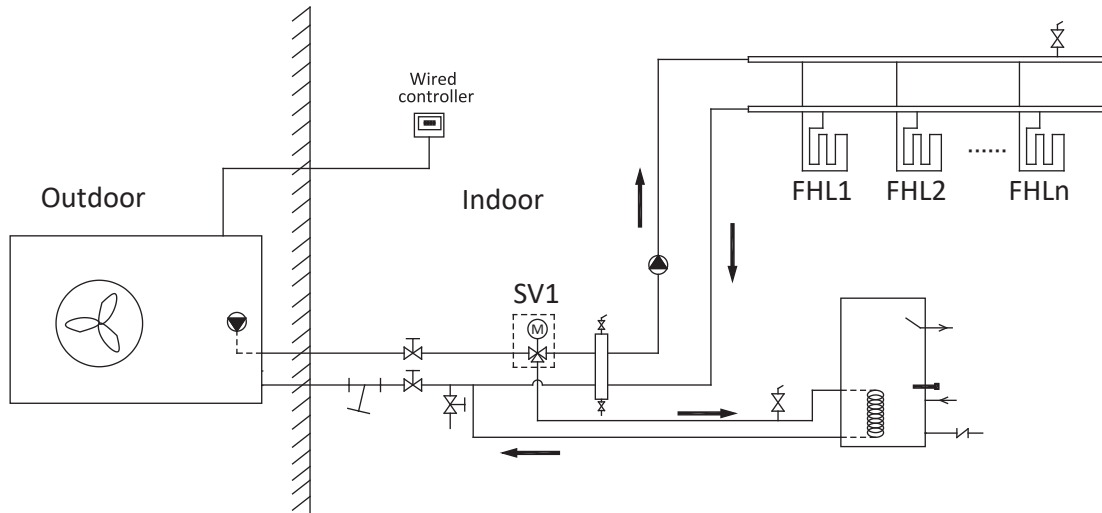
If ZONE TYPE = ONE and ROOM THERMOSTAT = NON and SINGLE ZONE OPERATION SET = 3 are set, home page 2 will appear:



Target or real room temp.

Refer to “FUNCTION PARAMETER SET”» “TEMP TYPE SET” and “ROOM THERMOSTAT SET” in “Installation and owner’s manual”.

The system has the function including floor heating and domestic water:



NOTE:

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

Home page 3

If any one of the settings on Table 2 is set, there will be main page and second page. Home page 3 will appear:

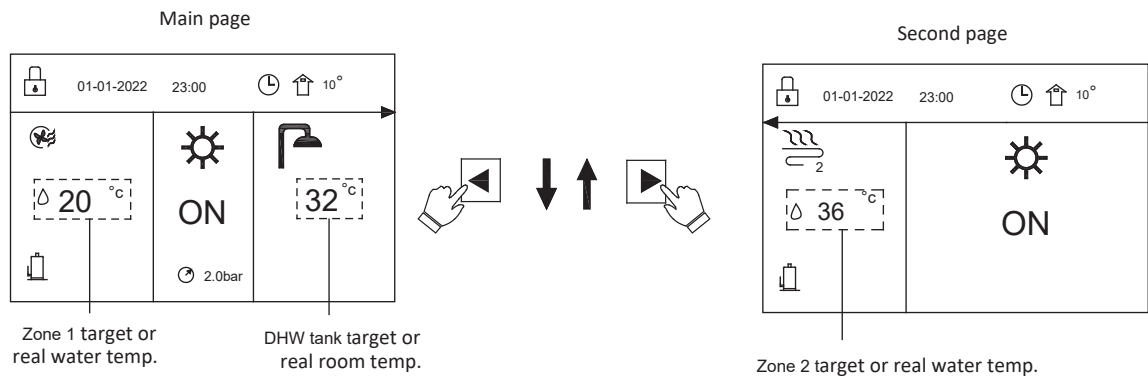
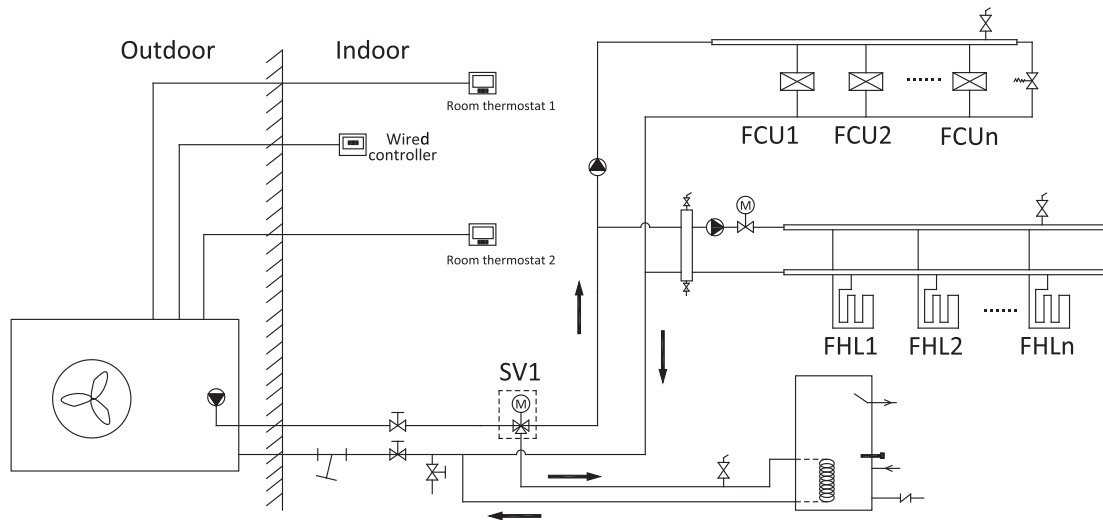


Table 2

1	ZONE TYPE = TWO and ROOM THERMOSTAT = NON	DUAL ZONE OPERATION SET = 0
2	ZONE TYPE = TWO and ROOM THERMOSTAT = NON	DUAL ZONE OPERATION SET = 1
3	ZONE TYPE = TWO and ROOM THERMOSTAT = NON	DUAL ZONE OPERATION SET = 4
4	ZONE TYPE = TWO and ROOM THERMOSTAT = NON	DUAL ZONE OPERATION SET = 5
5	ROOM THERMOSTAT = TWO ZONES	DUAL ZONE RT OPERATION = 0
6	ROOM THERMOSTAT = TWO ZONES	DUAL ZONE RT OPERATION = 1
7	ROOM THERMOSTAT = TWO ZONES	DUAL ZONE RT OPERATION = 2
8	ROOM THERMOSTAT = TWO ZONES	DUAL ZONE RT OPERATION = 3

Refer to “FUNCTION PARAMETER SET”»“DHW MODE SET” and “TEMP.TYPE SET” and “ROOM THERMOSTAT SET” for the settings in "Installation and owner’s manual".
The system has the function including floor cooling, space cooling for fan coil and domestic water:



Home page 4

If DHW MODE DISABLE is set to “NON” (0=NON) and any one of the settings on Table 3 is set, there will be main page and second page. Home page 4 will appear:

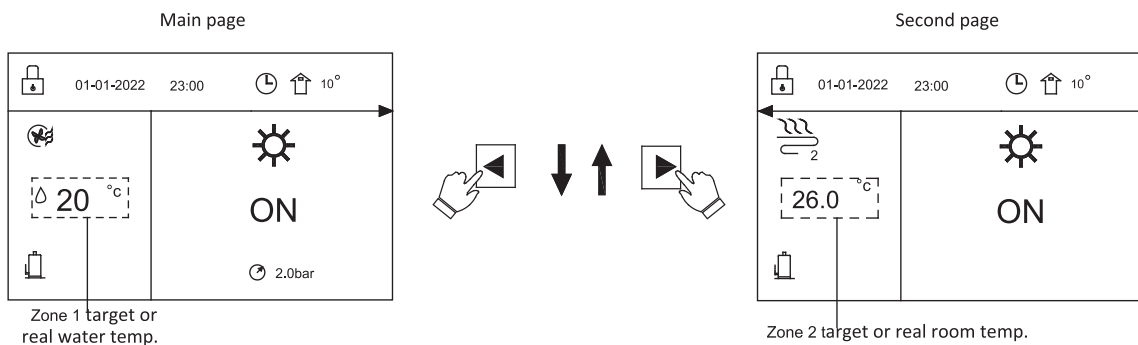
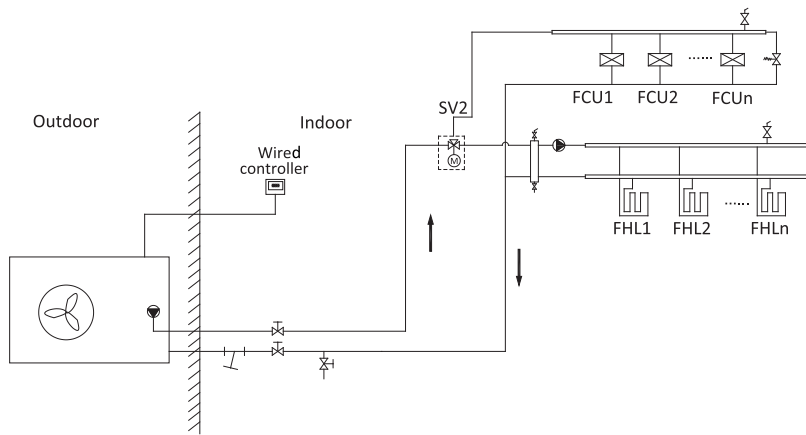


Table 3

1	ZONE TYPE = TWO and ROOM THERMOSTAT = NON	DUAL ZONE OPERATION SET = 3
2	ZONE TYPE = TWO and ROOM THERMOSTAT = NON	DUAL ZONE OPERATION SET = 7

Refer to “FUNCTION PARAMETER SET”» “DHW MODE SET” and “TEMP.TYPE SET” and “ROOM THERMOSTAT SET” In "Installation and owner’s manual".

The system has the function including floor heating and space heating for fan coil:



NOTE

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


4 MENU STRUCTURE

4.1 About the menu structure

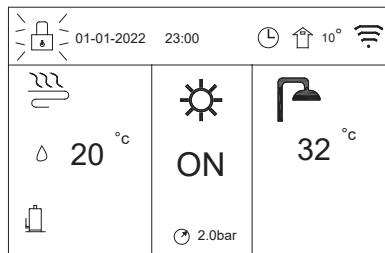
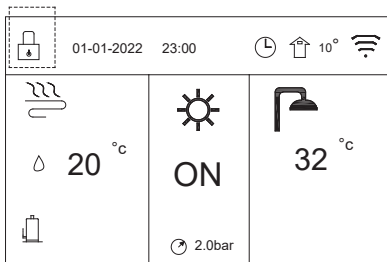
You can use the menu structure to readout and configure settings that are NOT meant for daily usage. What you can see and do in the menu structure is described where applicable. For an overview of the menu structure, see "7 Menu structure: Overview".

5 BASIC USAGE

5.1 Screen lock

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

Press any key, the icon will flash.



Long press "OK" key, the icon will disappear and the interface can be controlled.

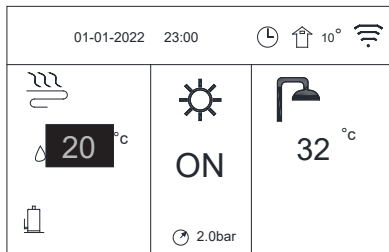
The interface will be locked if there is no handling for a long time (about 120 seconds: it can be set by the interface, see "☰ » SERVICE GUIDE » DISPLAY" in "Installation and owner's manual".)

You can cancel the screen lock function. (See "☰ » SERVICE GUIDE » DISPLAY" in "Installation and owner's manual".)

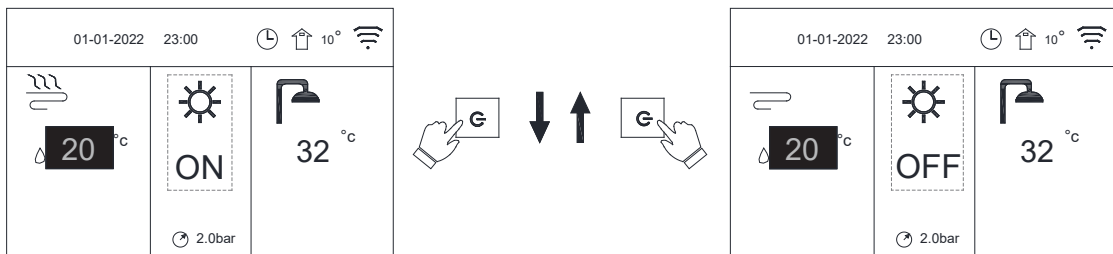
5.2 Turning ON/OFF controls

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

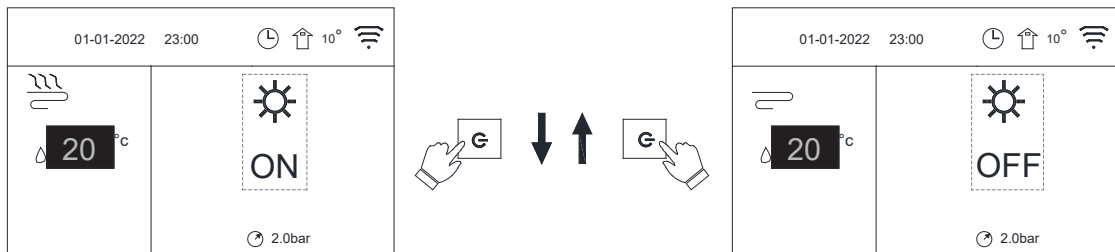
- The ON/OFF of the unit can be controlled by the interface if the ROOM THERMOSTAT is NON.(see"FUNCTION PARAMETER SET" » "ROOM THERMOSTAT SET" in "Installation and owner's manual".)
- Press "▲" or "▼"on home page, the black cursor will appear:



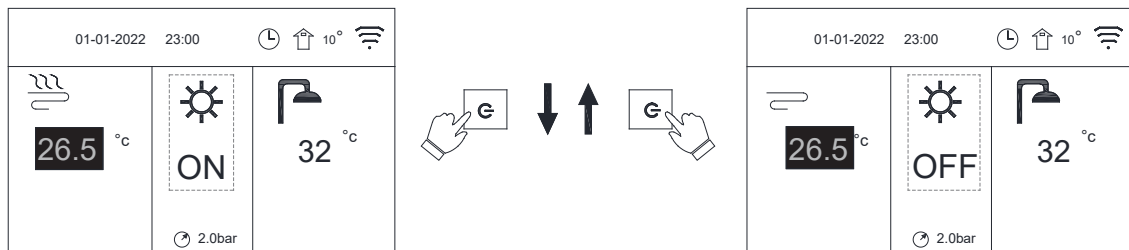
- When the cursor is on the temperature of space operation mode side (Including heat mode, cool mode and auto mode), press " ⏻ " key to turn on/off space heating or cooling.



If the DHW MODE DISABLE is set 1(1=YES), then following pages will display:

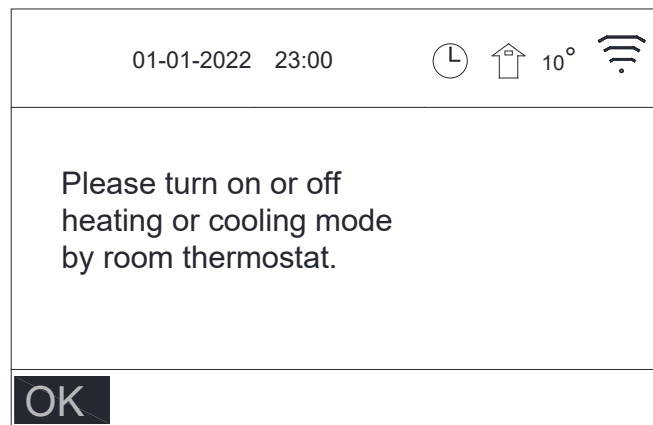


If Temp. TYPE is set to ROOM TEMP., and then following pages will display:

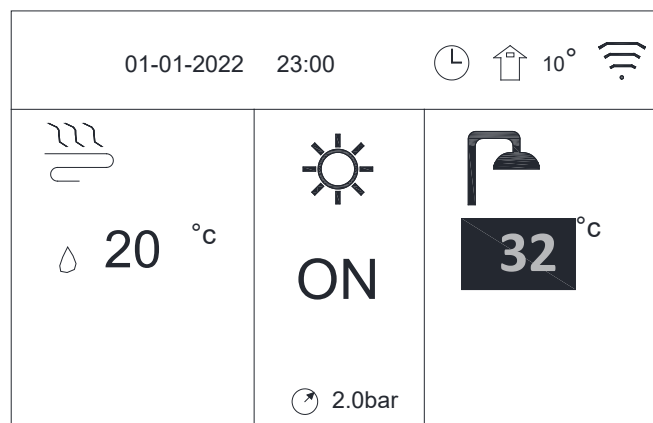


Use the room thermostat to turn on or off the unit for space heating or cooling.

- The room thermostat is not set "NON" (See "FUNCTION PARAMETER SET" » "ROOM THERMOSTAT SET" in "Installation and owner's manual"). The unit for space heating or cooling is turned on or off by the room thermostat, press "🔌" on the interface, the following page will display:

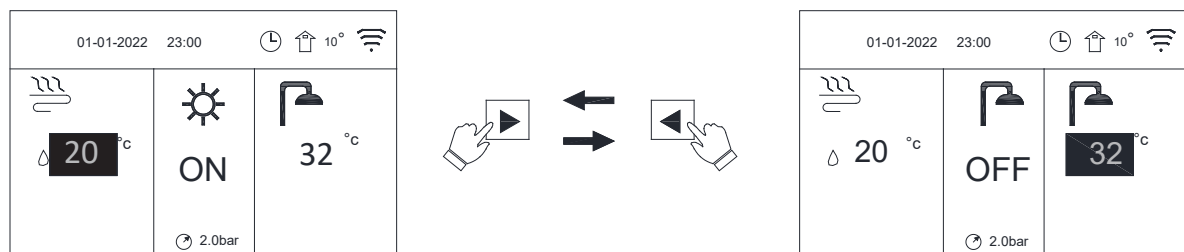


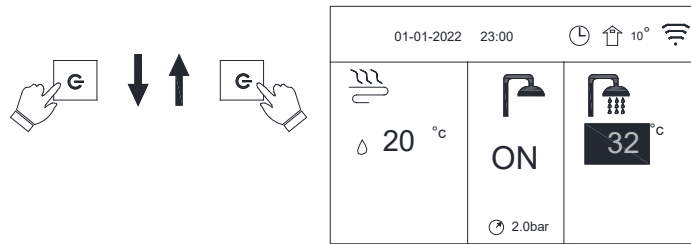
Use the interface to turn on or off the unit for DHW. Press "▼" or "▶" on home page, the black cursor will appear:



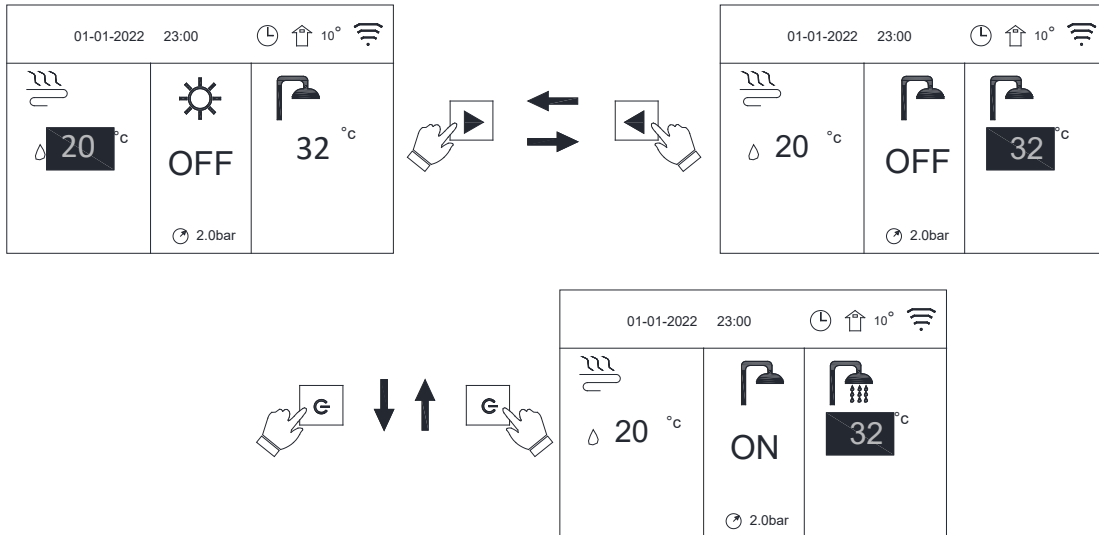
When the cursor is on the temperature of DHW mode, press "🔌" key to turn on/off the DHW mode.

- If the space operation mode is ON and when the cursor is in the DHW temperature, then following pages will display:



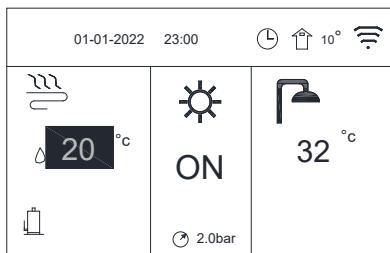


- If the space operation mode is OFF, then following pages will display:

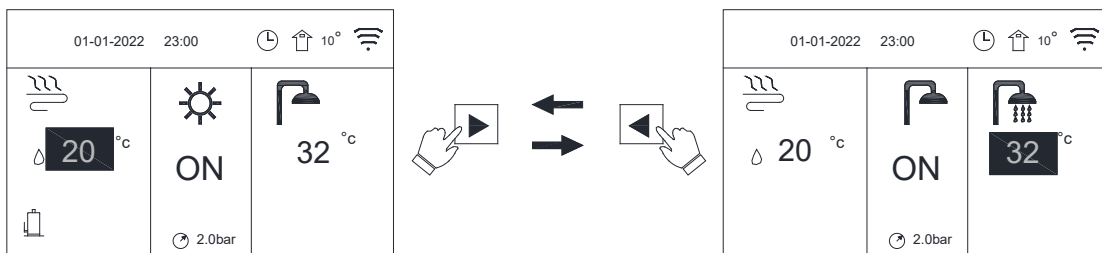


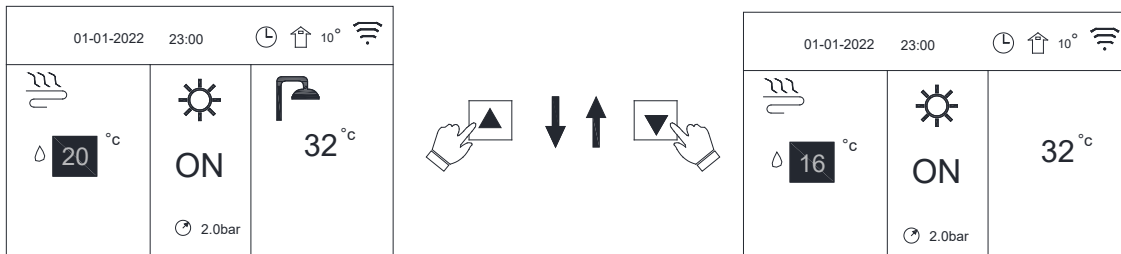
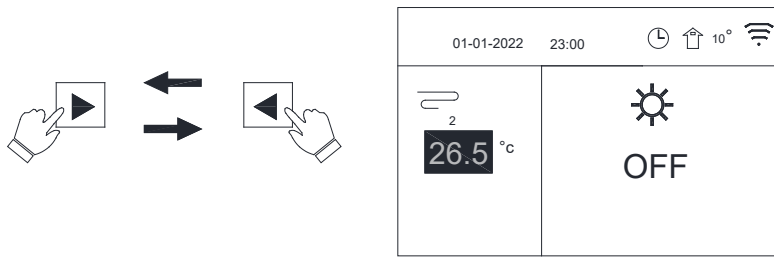
5.3 Adjusting the temperature

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



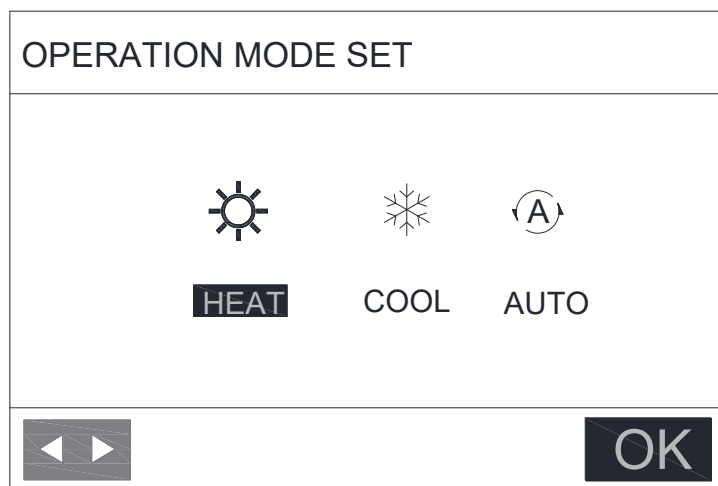
- If the cursor is on the temperature, use the "◀" or "▶" to select and use "▲" or "▼" to adjust the temperature.





5.4 Adjusting space operation mode

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



- There are three modes to be selected including HEAT, COOL and AUTO mode. Use the "◀" or "▶" to scroll, press "OK" to select.

Even if 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.

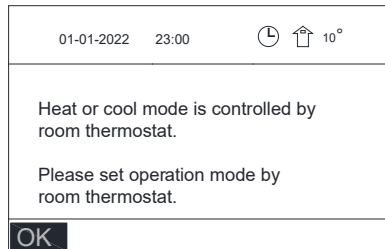
If there is only HEAT mode to be effective, the other modes (COOL and AUTO) can't be select.
If there is only COOL mode to be effective, the other modes (HEAT and AUTO) can't be select.
AUTO mode: Automatically changed by the software based on the outdoor temperature (and depending on installer settings of the indoor temperature), and takes monthly restrictions into account.

Note: Automatic changeover is only possible under certain conditions.

See "FUNCTION PARAMETER SET"» "AUTOMODE SET" in "Installation and owner's manual".

- Adjust space operation mode by the room thermostat, see "FUNCTION PARAMETER SET"»"ROOM THERMOSTAT" in "Installation Owner's manual ".

Go to"☰"»"OPERATION MODE SET", if you press any key to select or adjust, the page will appear:



6 OPERATION

6.1 OPERATION MODE SET

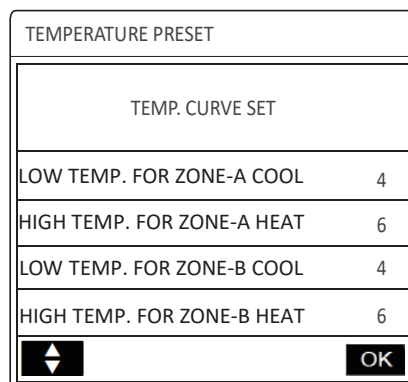
See "5.4 Adjusting space operation modes".

6.2 TEMP. CURVE SET

TEMP. CURVE 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, TEMP. CURVE SET can decrease the desired water flow temperature when the outdoor air temperature increased in heating mode.

Go to"☰"»"TEMPERATURE PRESET" » "TEMP. CURVE SET". Press"OK".

The following page will appear:



This page will be displayed dynamically based on operation mode and device type and zone number.

i INFORMATION

- TEMP. CURVE SET four curves

1.the curve of the high temperature seting 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 has the curve of the high temperature

setting for heating, if the high temperature is set for heating.

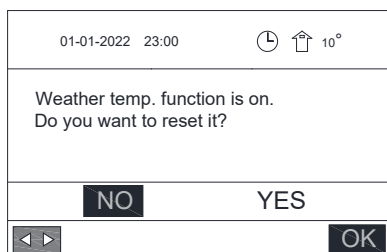
It only has the curve of the low temperature setting for heating, if the low temperature is set for heating.

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

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

- See "FUNCTION PARAMETER SET"» "COOL MODE SET" and "HEAT MODE SET" in "Installation and owner's manual".
- The desired temperature (TB) can't be adjusted directly, when the temperature curve is valid.

- If you want to use heat mode in zone 1(namely zone A),you select "LOW TEMP. FOR ZONE-A HEAT". If you want to use cool mode in zone 1(A), you select "LOW TEMP. FOR ZONE-A HEAT". If you press "OK", there are 9 curves to be select by pressing "▲ " or " ▼ ".
- If TEMP. CURVE SET is activated; the desired temperature cannot be adjusted on the interface. Press "▲ " or " ▼ " to adjust the temperature on home page. The following page will appear:



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

TEMPERATURE PRESET	
TEMP. CURVE SET	
LOW TEMP. FOR ZONE-A COOL	4
HIGH TEMP. FOR ZONE-A HEAT	6
LOWTEMP. FOR ZONE-B COOL	4
LOW TEMP. FOR ZONE-A HEAT	3

ZONE B here means ZONE 2

6.3 Domestic Hot Water (DHW)

DHW mode typically consists of the following

- 1) DISINFECT
- 2) DHW PUMP

6.3.1 DISINFECT

The DISINFECT function is used to kill the legionella. In disinfect function the tank temperature will 55°C ~ 75°C forcedly. The disinfect temperature is set in FUNCTION PARAMETER SET.

See "FUNCTION PARAMETER SET" » "DHW MODE SET" » "Tx" in "Installation and owner's manual".

Go to "☰" » "DHW ADDITIONAL FUNCTION" » "DISINFECT". Press "▼", "OK". The following page will appear:

DHW ADDITIONAL FUNCTION		
DISINFECT	DHW PUMP	
CURRENT STATE	OFF	
OPERATE DAY	TUE	
START	Y	23:00

DHW ADDITIONAL FUNCTION		
DISINFECT	DHW PUMP	
CURRENT STATE	OFF	
OPERATE DAY	TUE	
START	Y	23:00

Use "▲", "▼", "◀", "▶".to scroll and use "▲", "▼" to adjust the parameters when setting "CURRENT STATUS" and "OPERATE DAY" and "START".

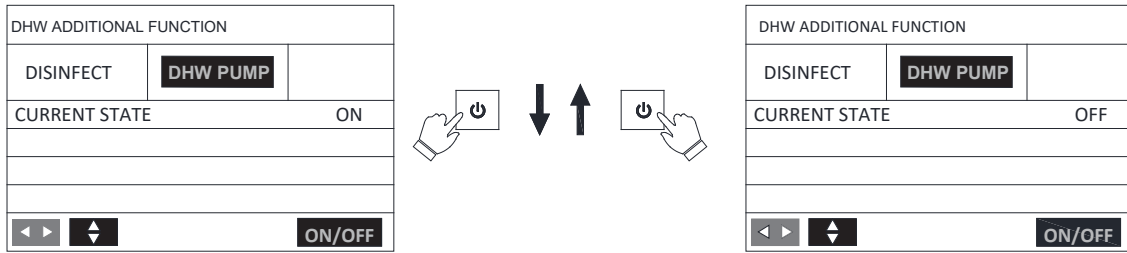
If the CURRENT STATE is set to ON, the disinfect function will active, but it is only once effective.

If the OPERATE DAY is set FRIDAY and the START is set to Y and 23:00, the disinfect function will active on 23:00 Friday.

If the disinfect function is running, the icon will appear the home page.

6.3.2 DHW PUMP

The DHW PUMP function is used to return water, Go to "☰" » "DHW ADDITIONAL FUNCTION" » "DHW PUMP". Press "▼", "OK". The following page will appear:



When you press "ON", DHW pump will keep operating until "OFF" is pressed.

6.4 SCHEDULE

SCHEDULE menu contents as follows:

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

6.4.1 Timer schedule

If the weekly schedule function is on, the timer is off, the later setting is effective, namely you can set TIMER schedule to be valid. If the Timer is activated, the icon is displayed on home page.

SCHEDULE 1/3						SCHEDULE 2/3						SCHEDULE 3/3																	
TIMER		WEEKLY		CHECK		CANCEL		TIMER		WEEKLY		CHECK		CANCEL		TIMER		WEEKLY		CHECK		CANCEL							
NO.	START	END	MODE	TEMP.	NO.	START	END	MODE	TEMP.	NO.	START	END	MODE	TEMP.	NO.	START	END	MODE	TEMP.	NO.	START	END	MODE	TEMP.					
T1	N	00:00	00:00	HEAT	0°C	T3	N	00:00	00:00	DHW	0°C	T5	N	00:00	00:00	HEAT	0°C	T7	N	00:00	00:00	HEAT	0°C	T9	N	00:00	00:00	HEAT	0°C
T2	N	00:00	00:00	COOL	0°C	T4	N	00:00	00:00	COOL	0°C	T6	N	00:00	00:00	DHW	0°C	T8	N	00:00	00:00	DHW	0°C	T10	N	00:00	00:00	DHW	0°C

There are 6 timers to be set.

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

Move to "N", press "▲" to change "N" to "Y", and then press "▼" to change "Y" to "N" again.

"Y" is to enable the timer; "N" is to disable the timer.

If you set the start time is the same as the end time or the temperature out of range of the mode, the following page will appear:

SCHEDULE 1/3							
TIMER		WEEKLY		CHECK		CANCEL	
TIMERX is useless. Please reset the timer and temperature.							

And then press "OK", you can reset the timer. You must set the timer correctly or cancel the

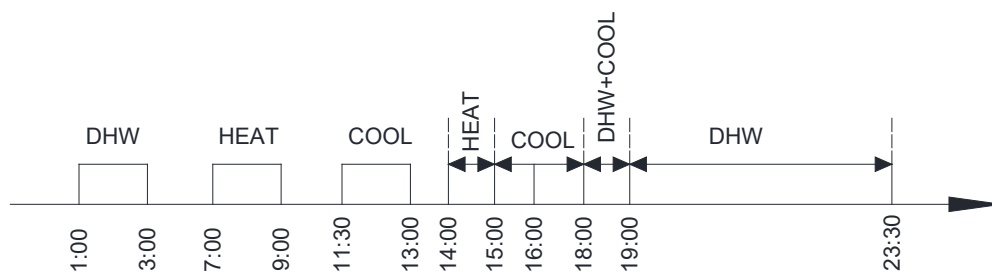
useless timer by setting “Y” to “N” before exiting setting the timer.

Example:

Six timers are 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 operation 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 PLUS COOL MODE are turned ON
19 : 00	DHW MODE is turned ON
23 : 30	DHW mode is turned OFF

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INFORMATION

If the start time is same to the end time in 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, namely you can set WEEKLY schedule to be valid. If WEEKLY SCHEDULE is activated, 7 displayed on the home page.

Go to "☰" » "SCHEDULE" » "WEEKLY". Press "OK". The following page will appear:

SCHEDULE						
TIMER	WEEKLY		CHECK	CANCEL		
MON	TUE	WED	THU	FRI	SAT	SUN
N	N	N	N	N	N	N
<div style="display: flex; justify-content: space-between; align-items: center;"> OK ⬆️⬆️ ⬅️➡️ </div>						

First select the days of the week you wish to schedule.

Use "◀️", "▶️" to scroll, press "▲", "▼" to select or unselect the day.

"MON" means that the day is selected; "MON" means that the day is unselected.

i INFORMATION

You must set one day at least when you want to enable WEEKLY schedule function.

SCHEDULE						
TIMER	WEEKLY		CHECK	CANCEL		
MON	TUE	WED	THU	FRI	SAT	SUN
N	Y	Y	N	Y	N	N
<div style="display: flex; justify-content: space-between; align-items: center;"> OK ⬆️⬆️ ⬅️➡️ </div>						

Here Tuesday, Wednesday and Friday are selected to be scheduled and they have the same schedule.

Press "▼" and then "OK" or press "OK" twice, the following pages will appear:

SCHEDULE					1/3				
TIMER	WEEKLY	CHECK	CANCEL						
NO.	START	END	MODE	TEMP.					
T1	N	00:00	00:00	HEAT	0°C				
T2	N	00:00	00:00	COOL	0°C				

SCHEDULE					2/3				
TIMER	WEEKLY	CHECK	CANCEL						
NO.	START	END	MODE	TEMP.					
T3	N	00:00	00:00	DHW	0°C				
T4	N	00:00	00:00	COOL	0°C				

SCHEDULE					3/3				
TIMER	WEEKLY	CHECK	CANCEL						
NO.	START	END	MODE	TEMP.					
T5	N	00:00	00:00	HEAT	0°C				
T6	N	00:00	00:00	DHW	0°C				

Use "◀", "▶", "▲" and "▼" 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.

The setting method refers to timer setting. The end time must be later than the start time.

Otherwise this will show that Timer is invalid.

6.4.3 Schedule check

Schedule check can only check the weekly schedule.

Go to "☰" » "SCHEDULE" » "CHECK". Press "OK". The following page will appear:




SCHEDULE			
TIMER	WEEKLY	CHECK	CANCEL
CHECK WEEKLY SCHEDULE			
NO		YES	
OK		◀▶	

CHECK WEEKLY SCHEDULE					
DAY	NO	START	END	MODE	TEMP.
MON Y	T1	Y	01:30	03:30	DHW 50°C
	T2	Y	07:00	09:00	HEAT 30°C
	T3	Y	11:30	13:00	HEAT 50°C
	T4	Y	14:00	16:00	DHW 50°C
	T5	Y	16:00	18:00	DHW 50°C
	T6	Y	18:00	23:00	HEAT 50°C

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

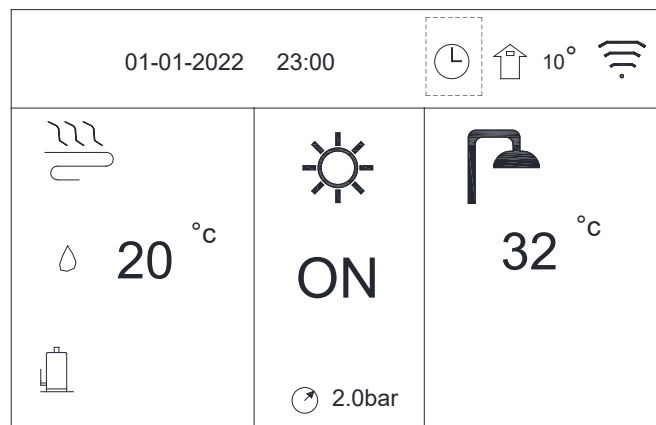
6.4.4 CANCEL SCHEDULE

Go to "☰" » "SCHEDULE" » "CANCEL". Press "OK". The following page will appear:

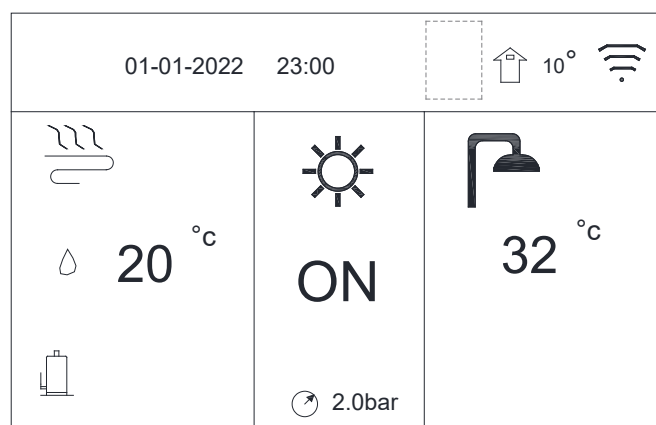
SCHEDULE			
TIMER	WEEKLY	CHECK	CANCEL
Do you want to cancel TIMER and WEEKLY schedule?			
NO		YES	
OK		  	

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

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



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



i 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.
- TIMER and WEEKLY SCHEDULE are on the same priority. The later setting function is valid.


6.5 OPTIONAL SET

OPTIONAL SET menu contents as following:



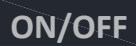
- 1) SILENT MODE
- 2) HOLIDAY
- 3) BACKUP HEATER
- 4) MANUAL DEFROST

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.

- Go to the home page to check if silent mode is activated, if the silent mode is activated, “” icon will display on home page.

Go to “” » "OPTIONAL SET" » "SILENT MODE". Press "OK". The following page will appear:

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
CURRENT STATE			OFF
 			


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

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
CURRENT STATE			ON
 			ON/OFF



Description:

If CURRENT STATE is OFF, SILENT MODE is invalid.



6.5.2 HOLIDAY

If the holiday away mode is activated, the icon  will display on the home page. The holiday 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 “☰” » "OPTIONAL SET" » "Holiday", Press "OK". The following page will appear:

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
CURRENT STATE			OFF
 			ON/OFF

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

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
CURRENT STATE			ON
 			ON/OFF

Description:

If CURRENT STATE is OFF, HOLIDAY is invalid.



i INFORMATION

- Only when the unit is OFF do you can turn on HOLIDAY function.
- You must turn off HOLIDAY function before you turn on the unit normally.



6.5.3 BACKUP HEATER

The BACKUP HEATER function is used to force to turn on the internal heater, AHS or WTH.

Go to “☰” » "OPTIONAL SET" »"BACKUP HEATER", Press "OK". The following page will appear:

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
BAKCUPE HEATER			OFF
 			ON/OFF

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

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
BAKCUPE HEATER			ON
 			ON/OFF

Description:

The BACKUP HEATER function is once effective.

IPH=Internal pipe backup heater.

AHS=Additional heating source.

WTH=Water tank heater.



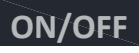
i INFORMATION

- If the operation mode is in space cooling, the backup heater function is invalid




6.5.4 MANUAL DEFROST

The MANUAL DEFROST function is used to force the unit to defrost when the unit operates in heat or DHW mode in winter.

Go to “☰” » "OPTIONAL SET" » "MANUAL DEFROST", Press "OK". The following page will appear:

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
CURRENT STATE			OFF
 			

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

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
CURRENT STATE			ON
 			

Description:

If CURRENT STATE is OFF, MANUAL DEFROST is invalid.

6.6 SERVICE GUIDE

6.6.1 SERVICE GUIDE

Service guide menu contents as following:

- 1) DISPLAY
- 2) FAULT CODE
- 3) CLEAR FAULT

6.6.2 How to go to service guide menu

Go to “☰” » "SERVICE GUIDE", Press "OK".

The DISPLAY function is used to set the interface:

SERVICE GUIDE 1/3				SERVICE GUIDE 2/3				SERVICE GUIDE 3/3			
DISPLAY	FAULT CODE	CLEAR FAULT		DISPLAY	FAULT CODE	CLEAR FAULT		DISPLAY	FAULT CODE	CLEAR FAULT	
BACKLIGHT ON				DATE 20-08-2022				SCREEN LOCK TIME 120s			
LANGUAGE EN				BUZZER ON				SG RUNNING TIME 2hrs			
TIME 20:30				SCREEN LOCK ON							

Use " and "OK" to enter, and then use "OK"、 " ", " " to make a scroll and an adjustment.

Fault CODE is used to show the meaning of the error or fault code when the error fault or protection happens.

SERVICE GUIDE 1/3			
DISPLAY	FAULT CODE	CLEAR FAULT	
P01	#00	10:40	06-08-2022
P01	#00	10:20	06-08-2022
P02	#01	10:00	06-08-2022

Press "OK" the page will appear:

SERVICE GUIDE 1/3			
DISPLAY	FAULT CODE	CLEAR FAULT	
P01	#00	10:40	06-08-2022
P01	#00	10:20	06-08-2022
P02	#01	10:00	06-08-2022

press "OK" again to show the meaning of the fault code:

06-08-2022 10:40	10°
P01 fault means water Flow protection. Please contact your dealer.	
	#00

i INFORMATION

A total of eight fault codes can be recorded.

CLEAR FAULT is used to clear all the faults or errors.

Use "▼" and "OK" to enter

06-08-2022 11:30		10°
DISPLAY	FAULT CODE	CLEAR FAULT
CLEAR FAULT RECORD		NO
<div style="display: flex; justify-content: space-between; width: 100%;"> </div>		

Use "OK", "▲", "▼" to make a scroll and an adjustment.

06-08-2022 11:30		10°
DISPLAY	FAULT CODE	CLEAR FAULT
CLEAR FAULT RECORD		YES
<div style="display: flex; justify-content: space-between; width: 100%;"> </div>		

6.7 PARAMETER VIEW

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

- At home page, go to "☰" > "PARAMETER VIEW".
- Press "OK". There are twelve pages for the operating parameter as following. Use "◀", "▶", "▲", "▼" to scroll.

PARAMETER VIEW	1/12
1 COMP. FREQUENCY	55Hz
2 EEV-1 OPEN	480STEP
3 AMBIENT TMEP. T4	30°C
4 OUT WATER TMEP. TB	30°C
5 DISCHARGE TMEP. TP	60°C
<div style="display: flex; justify-content: space-between; width: 100%;"> </div>	

PARAMETER VIEW	2/12
6 SUCTION TMEP. TH	60°C
7 COIL TMEP. T3	50°C
8 LIQUID TMEP. T5	48°C
9 PWM PUMP	OFF
10 4-WAY VALVE	OFF
<div style="display: flex; justify-content: space-between; width: 100%;"> </div>	

PARAMETER VIEW	3/12
11 AC FAN	OFF
12 SV1 STATUS	OFF
13 SV2 STATUS	OFF
14 IPH HEATER	OFF
15 TANK HEATER	OFF
<div style="display: flex; justify-content: space-between; width: 100%;"> </div>	

PARAMETER VIEW	4/12	PARAMETER VIEW	5/12	PARAMETER VIEW	6/12
16 AC CURRENT	0.0A	21 BUS VOLTAGE	0VDC	26 DC FAN SPEED 2	ORPM
17 INPUT VOLTAGE	225V	22 COMP.CURRENT	0.0A	27 ECO. IN TEMP.	0 °C
18 OIL RETURN	OFF	23 PFC TEMP.	0 °C	28 ECO. OUT TEMP.	0 °C
19 HP2	OFF	24 IPM TEMP.	0 °C	29 TANK TEMP.	50 °C
20 CHASSIS HEATER	OFF	25 DC FAN SPEED 1	770RPM	30 IN WATER TEMP.TA	30 °C
PARAMETER VIEW	7/12	PARAMETER VIEW	8/12	PARAMETER VIEW	9/12
31 EEV-2 OPEN	0STEP	36 IN WATER PRE.	0.0bar	41 SV3	OFF
32 I-PUMP OUTPUT	100%	37 OUT WATER PRE.	2.0bar	42 FINAL TEMP. TC	0°C
33 LOW SAT. TEMP.	2°C	38 WATER FLOW	0.0(m³/h)	43 SOLAR TEMP. Tso	90°C
34 CRANKCASE HEATER	OFF	39 WATER FLOW PWM	100%	44 BUFFER TEMP. TE1	20°C
35 PLATE HEATER	OFF	40 UNIT MODEL	4KW	45 BUFFER TEMP. TE2	20°C
PARAMETER VIEW	10/12	PARAMETER VIEW	11/12	PARAMETER VIEW	12/12
46 MIX IN TEMP. TZ2	20°C	51 AHS	OFF	56 SG	OFF
47 C-A CURVE TEMP.	8 °C	52 P_d	OFF	57 ROOM TEMP. Tro	31°C
48 H-A CURVE TEMP.	32°C	53 P_o	OFF		
49 C-B CURVE TEMP.	10°C	54 B_ZONE P_c	OFF		
50 H-B CURVE TEMP.	35°C	55 P_s	OFF		

6.8 FUNCTION PARAMETER SET

6.8.1 FUNCTION PARAMETER SET

FUNCTION PARAMETER SET is used for installer and service engineer.

- Setting the function of the unit.
- Setting the parameters.

6.8.2 How to go to FUNCTION PARAMETER SET

Go to "☰" » "FUNCTION PARAMETER SET ". Press "OK".

FUNCTION PARAMETER SET

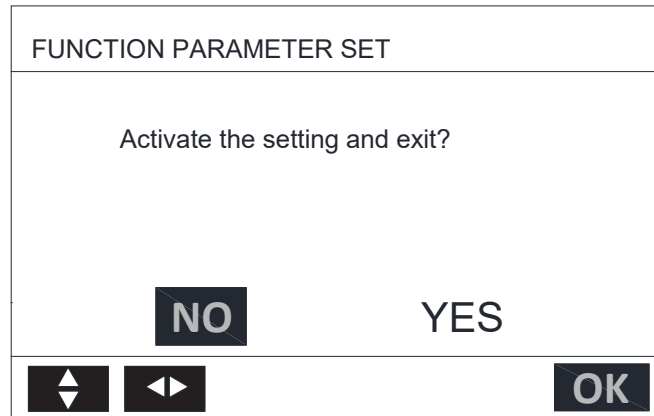
Please input password:

■ * * *

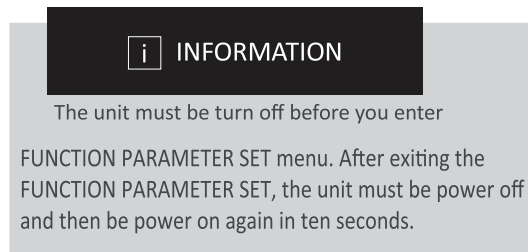
- The FUNCTION PARAMETER SET is used for installer or service engineer. It is NOT intended the home owner alters setting with this menu.
- It is for this reason password protection is required to prevent unauthorized access to the service settings.
- The password is 1212.

6.8.3 How to exit FUNCTION PARAMETER SET

If you have set all the parameters, Press "BACK", the following page will appear





Select "YES" and press "OK" to exit the FUNCTION PARAMETER SET.



6.9 FACTORY TEST

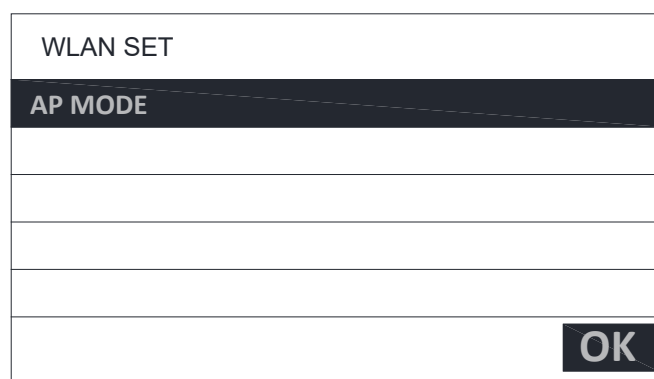
FACTORY TEST is only for the factory.

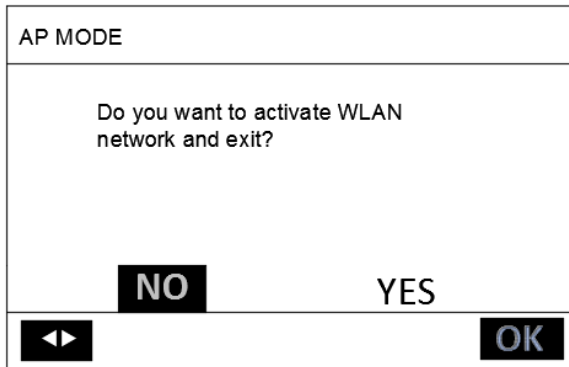
6.10 Network Configuration Guidelines

- 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.

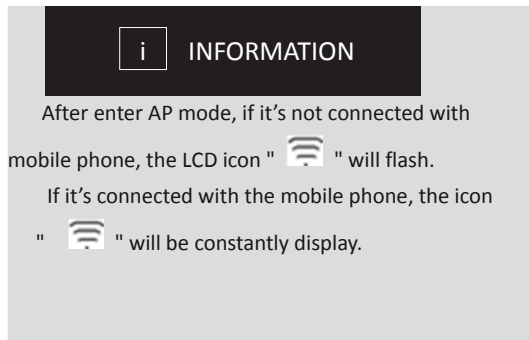
6.10.1 Wired Controller Setting

The wired controller settings include AP MODE.





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.



6.10.2 Mobile Device Setting

AP Mode is available for wireless distribution on mobile device side.

- AP Mode connecting WLAN:

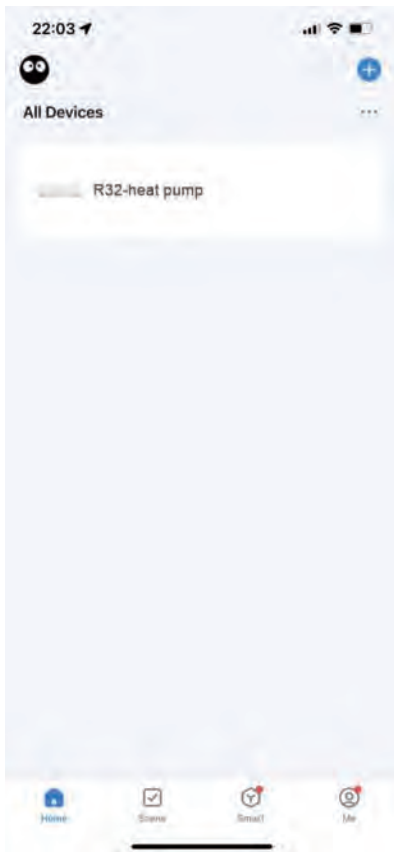
(1) Install APP

Please research "Smart life" in APP STORE or GOOGLE PLAY to install the APP.

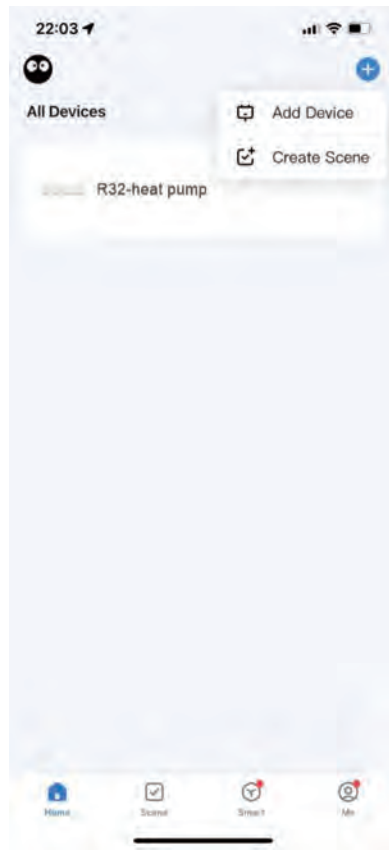
(2) ADD DEVICE

Refer to the figures below to add the device in numerical orders:

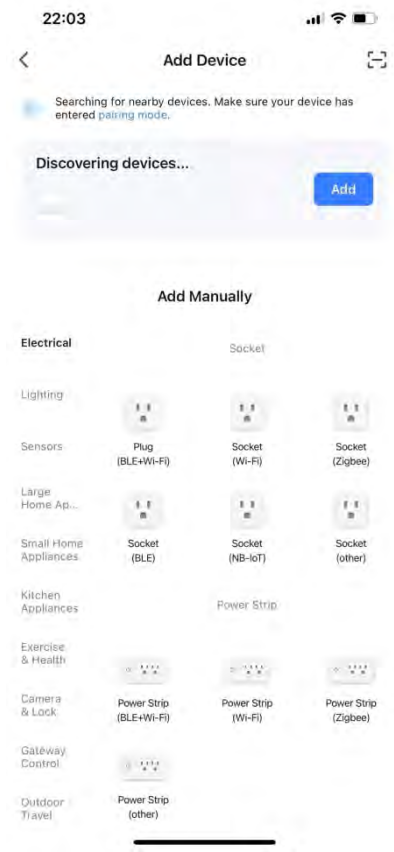
1



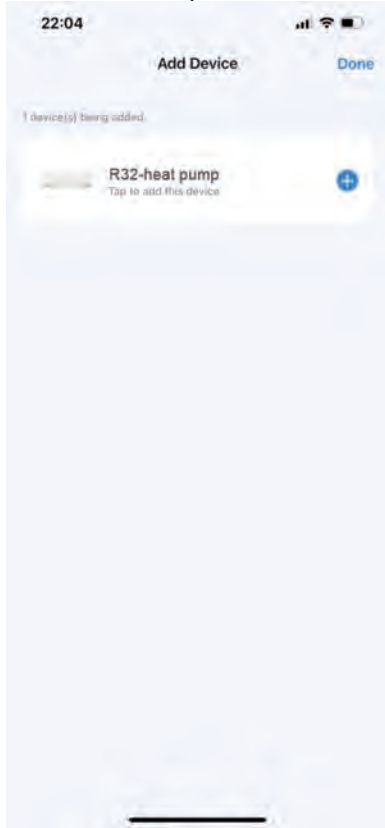
2



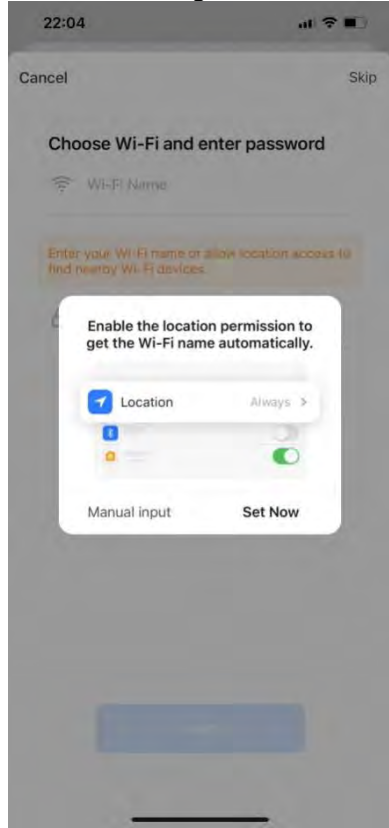
3



4



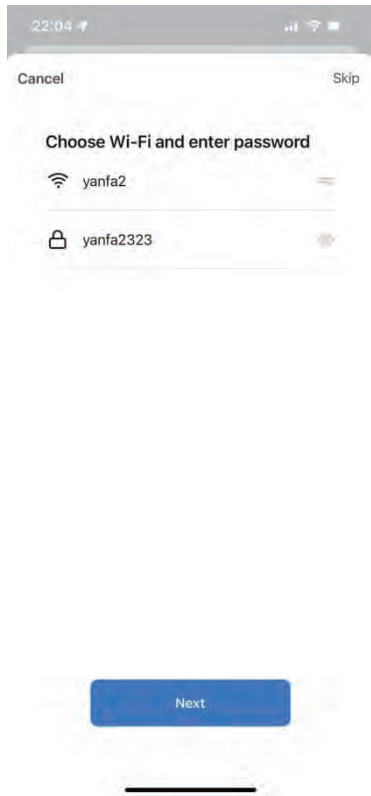
5



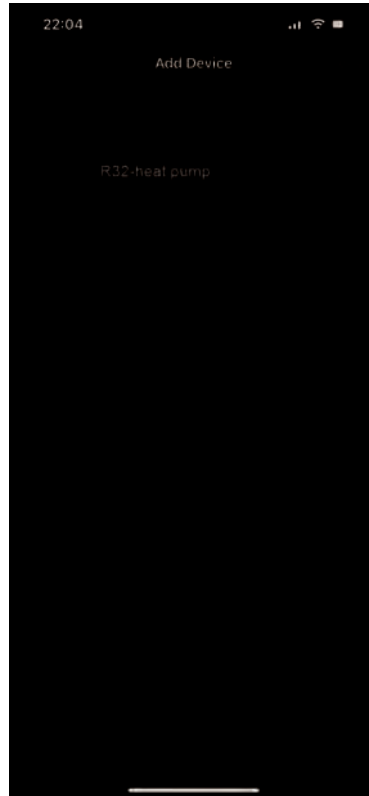
6



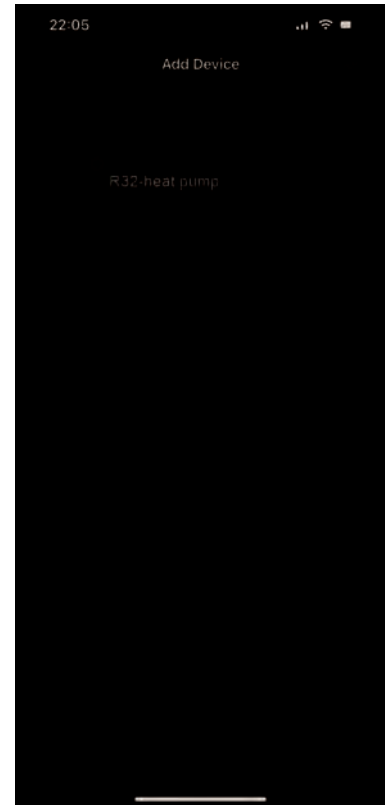
7




8



9



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. The operations above is for reference only; the real operations may be different from it.

7 MENU STRUCTURE: OVERVIEW

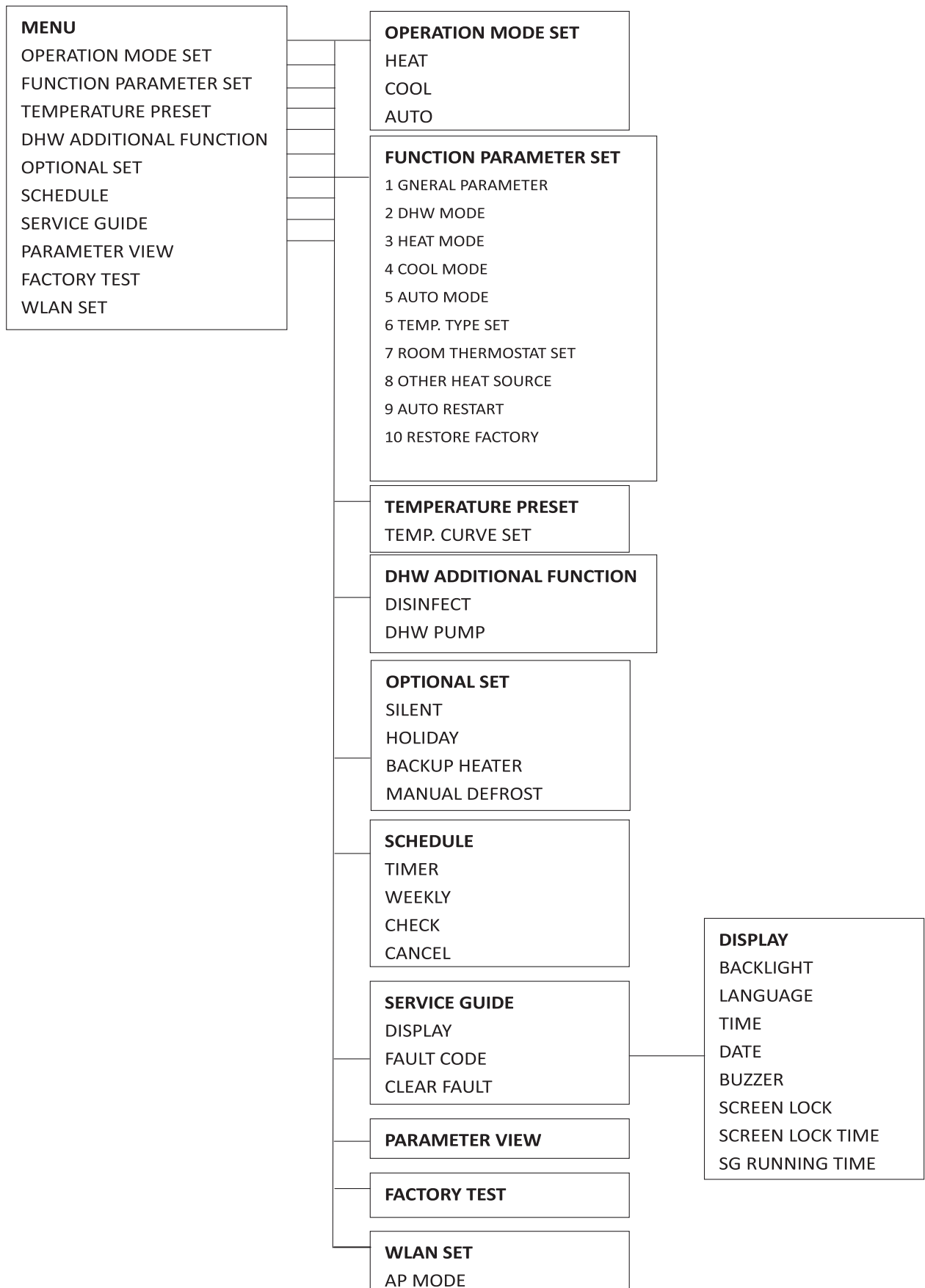


Table 1: The environment temperature curve of the low temperature setting for heating

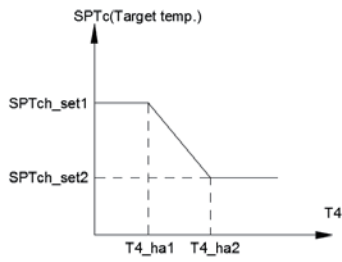
T4	≤ -20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1-SPTc	38	38	38	38	38	37	37	37	37	37	37	36	36	36	36	36	36	35	35	35	35
2-SPTc	37	37	37	37	37	36	36	36	36	36	36	35	35	35	35	35	35	34	34	34	34
3-SPTc	36	36	36	35	35	35	35	35	35	34	34	34	34	34	34	33	33	33	33	33	33
4-SPTc	35	35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

Table 2: 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-SPTc	55	55	55	55	54	54	54	54	54	54	54	54	53	53	53	53	53	53	53	53	52
2-SPTc	53	53	53	53	52	52	52	52	52	52	52	52	51	51	51	51	51	51	51	51	50
3-SPTc	52	52	52	52	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	49
4-SPTc	50	50	50	50	49	49	49	49	49	49	49	49	48	48	48	48	48	48	48	48	47
5-SPTc	48	48	48	48	47	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	45
6-SPTc	45	45	45	45	44	44	44	44	44	44	44	44	43	43	43	43	43	43	43	43	42
7-SPTc	43	43	43	43	42	42	42	42	42	42	42	42	41	41	41	41	41	41	41	41	40
8-SPTc	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-SPTc	52	52	52	52	52	52	52	51	51	51	51	51	51	51	51	50	50	50	50	50	50
2-SPTc	50	50	50	50	50	50	50	49	49	49	49	49	49	49	49	48	48	48	48	48	48
3-SPTc	49	49	49	49	49	49	49	48	48	48	48	48	48	48	48	47	47	47	47	47	47
4-SPTc	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	45	45	45	45	45	45
5-SPTc	45	45	45	45	45	45	45	44	44	44	44	44	44	44	44	43	43	43	43	43	43
6-SPTc	42	42	42	42	42	42	42	41	41	41	41	41	41	41	41	40	40	40	40	40	40
7-SPTc	40	40	40	40	40	40	40	39	39	39	39	39	39	39	39	38	38	38	38	38	38
8-SPTc	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 $T4_ha2 < T4_ha1$, then exchange their value; if $SPTch_set1 < SPTch_set2$, then exchange their value.

Table 3: The environment temperature curve of the low temperature setting for cooling

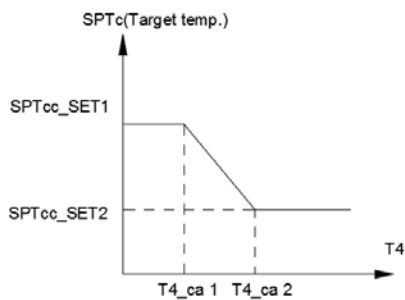
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4$
1-SPTc	16	11	8	7
2-SPTc	17	12	9	7
3-SPTc	18	13	10	7
4-SPTc	19	14	11	8
5-SPTc	20	15	12	9
6-SPTc	21	16	13	10
7-SPTc	22	17	14	11
8-SPTc	23	18	15	12

Table 4: The environment temperature curve of the high temperature setting for cooling

T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4$
1-SPTc	20	18	17	16
2-SPTc	21	19	18	17
3-SPTc	22	20	19	17
4-SPTc	23	21	19	18
5-SPTc	24	21	20	18
6-SPTc	24	22	20	19
7-SPTc	25	22	21	19
8-SPTc	25	23	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 $T4_ca2 < T4_ca1$, then exchange their value; if $SPTcc_SET1 < SPTcc_SET2$, then exchange their value.

V-TAC

Meaningful Innovation.