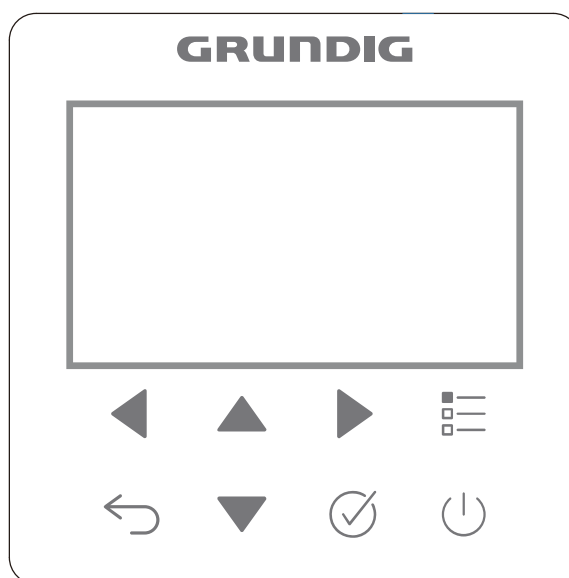


GRUNDIG

Wired Controller

Operation Manual



EN_IT_PL_FR_CS



10M-8509423600-3623-01

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Please read this user manual first!

Dear Customer,

Thank you for preferring a Beko product. We hope that you get the best results from your product which has been manufactured with high quality and state-of-the-art technology. Therefore, please read this entire user manual and all other accompanying documents carefully before using the product and keep it as a reference for future use. If you handover the product to someone else, give the user manual as well. Follow all warnings and information in the user manual.

Meanings of the symbols

Following symbols are used in the various section of this manual:

	Important information or useful hints about usage.
---	--

	Warning for hazardous situations with regard to life and property.
--	--

	Warning to actions that must never perform.
---	---

	Warning for electric shock.
---	-----------------------------

	This symbol shows that information is available such as the operating manual or installation manual.
---	--

	Do not cover it.
---	------------------

	This symbol shows that the operation manual should be read carefully.
---	---

	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
---	---

 (For R32/ R290 gas type)	This symbol shows that this appliance used a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.
--	---



RECYCLED &
RECYCLABLE
PAPER

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7 Menu structure: overview

45

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.

**Note:**

Indicates useful tips or additional information.

1 Safety instruction

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 are 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.

**Package information**

Packaging materials of the product are manufactured from recyclable materials in accordance with our National Environment Regulations. Do not dispose of the packaging materials together with the domestic or other wastes.

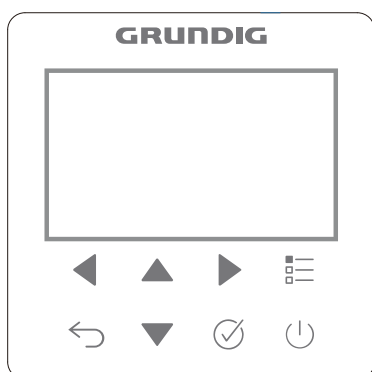
Take them to the packaging material collection points designated by the local authorities.

Compliance with RoHS Directive

The product you have purchased complies with EU RoHS Directive (2011/65/EU). It does not contain harmful and prohibited materials specified in the Directive.

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.

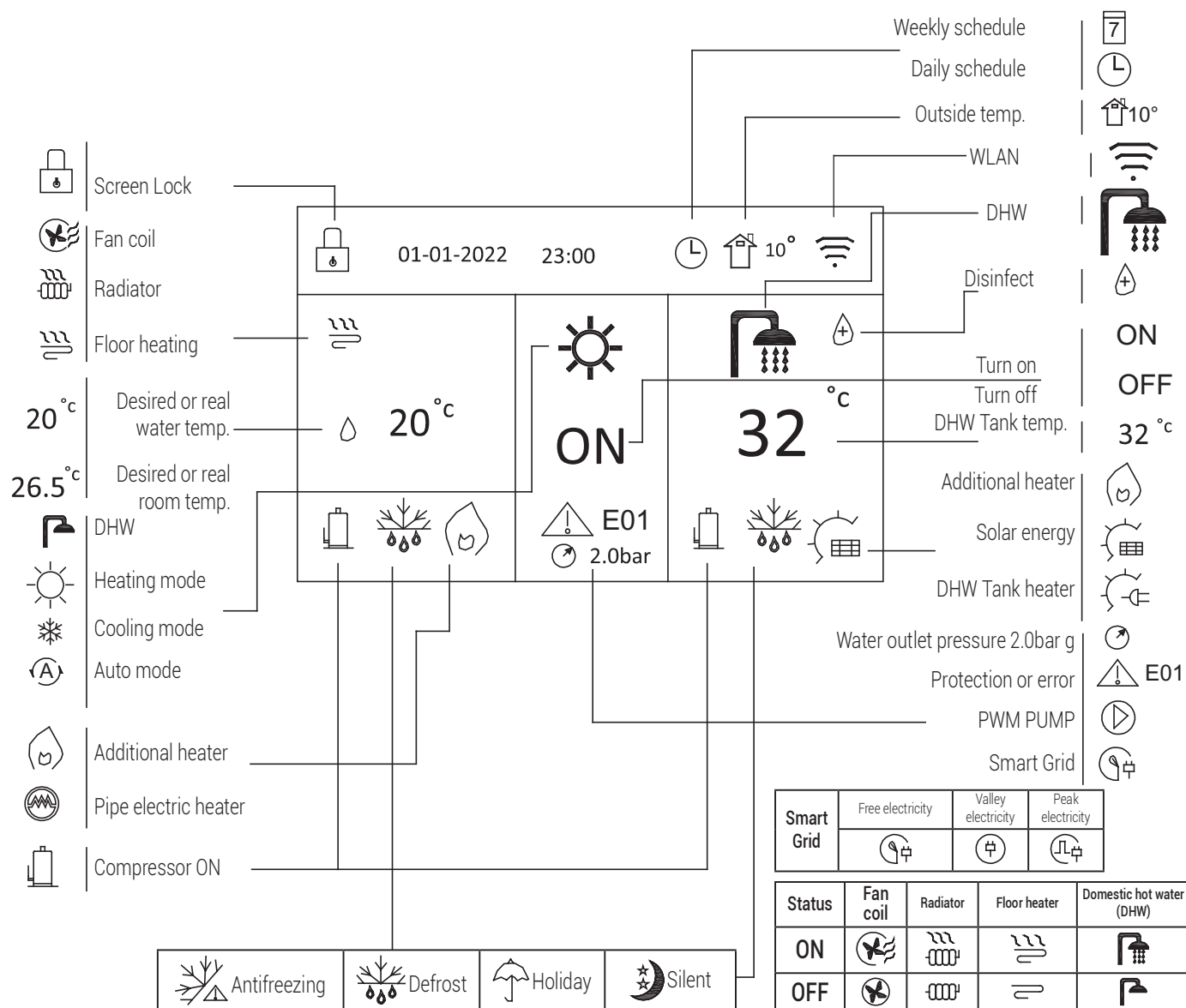


: ENTER

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 edit the parameters.

2 Overview of wired controller

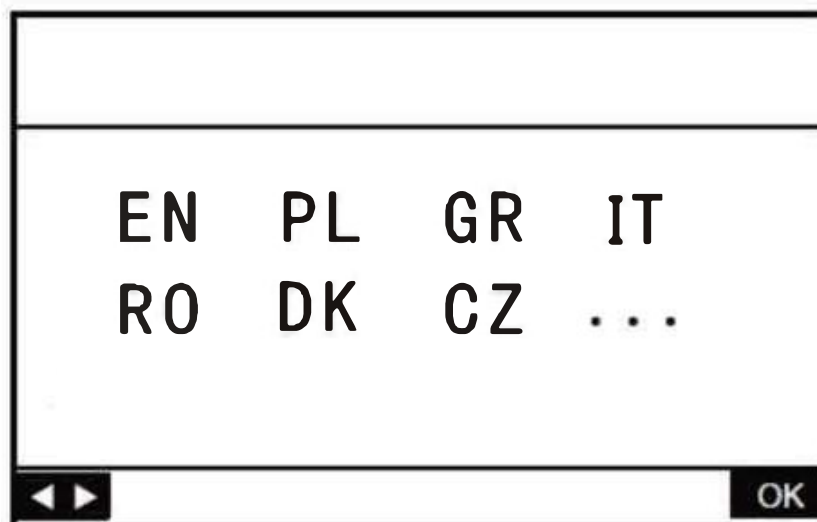
2.2 State icons



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

✓ to enter the home pages. If you don't press ✓ in 60 seconds, the system will enter in the currently selected language.



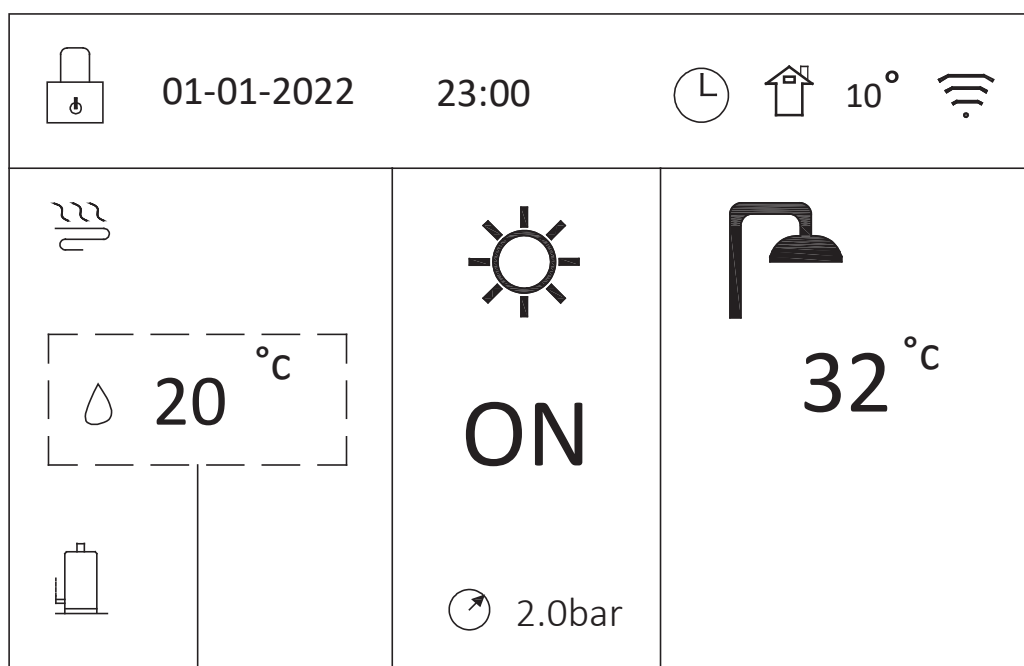
You can use the home pages to read out and change settings that are meant for daily usage. What you can see and do on the home pages is described where applicable. Depending on the system layout, the following home pages may be possible:

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

Home page 1

If dip switch SW1-2=OFF and any one of the settings on Table 1 is set, home page 1 will appear:

3 Home pages



Target or real water temp.

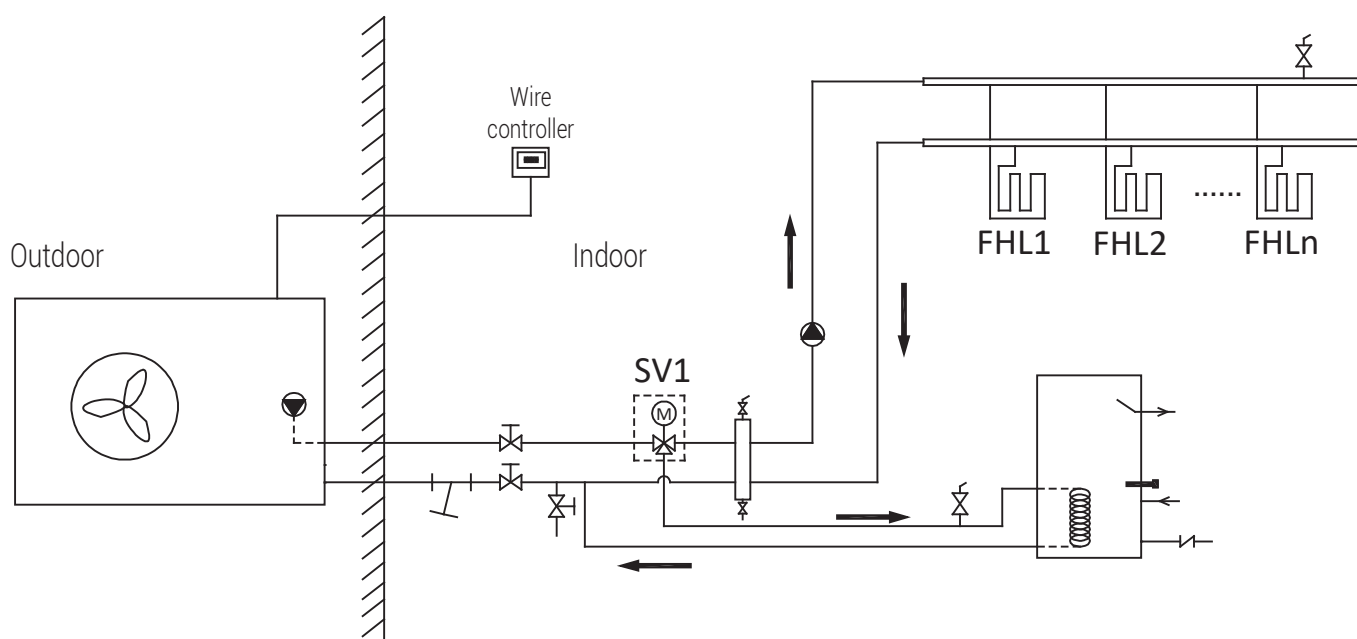
Table 1

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".

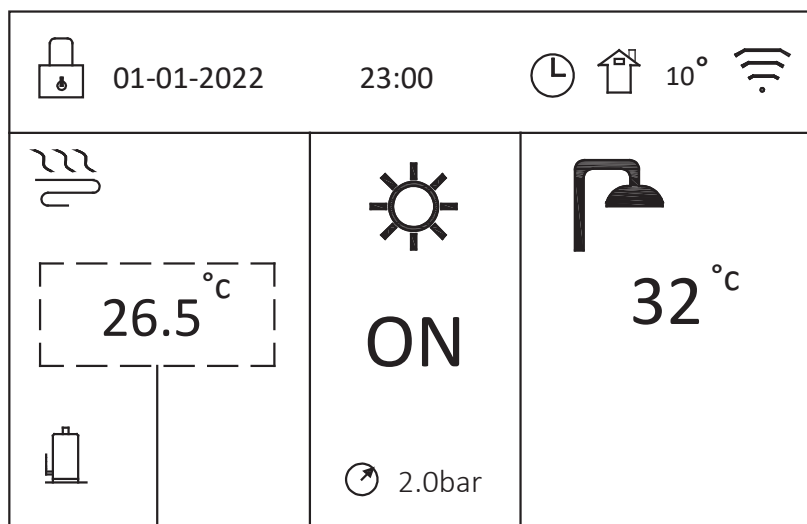
The system has the function including floor heating and domestic water:

3 Home pages



Home page 2

If dip switch SW1-2=OFF and ZONE TYPE = ONE and ROOM THERMOSTAT = NON and SINGLE ZONE OPERATION SET = 3 are set, home page 2 will appear:

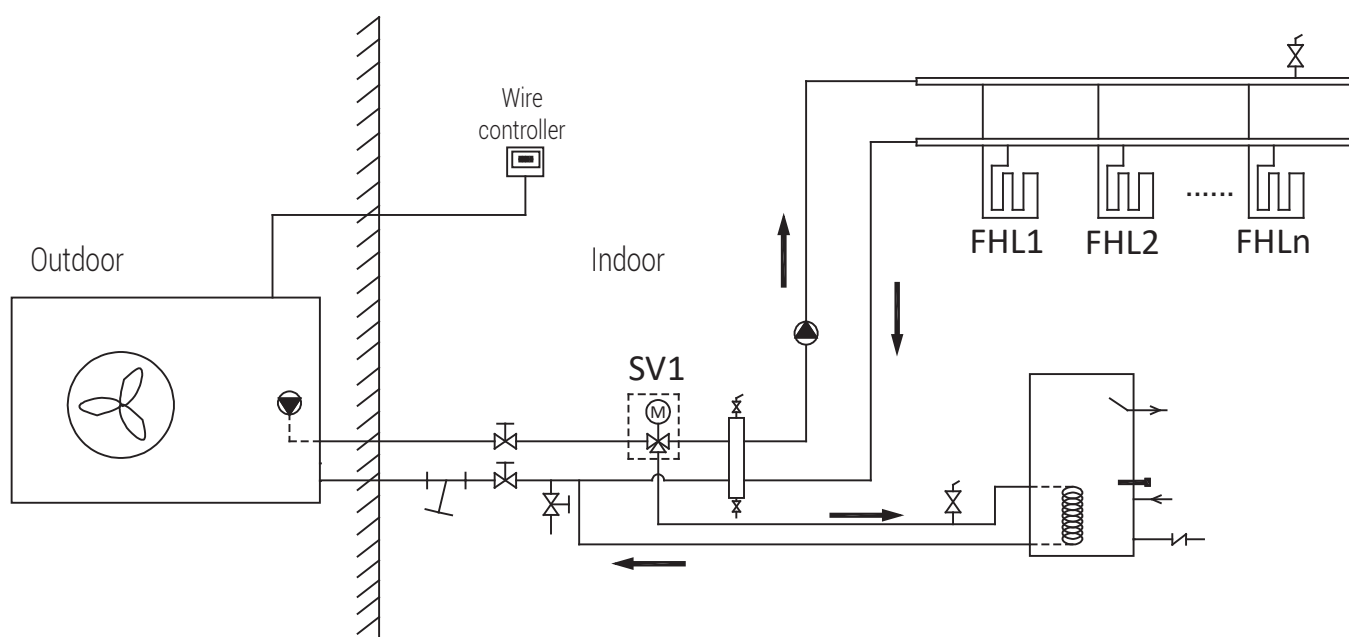


Target or real room temp.

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.

3 Home pages



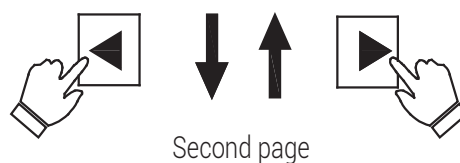
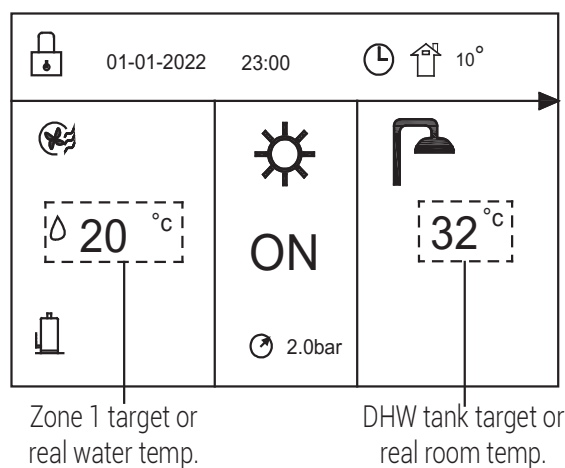
Note:

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

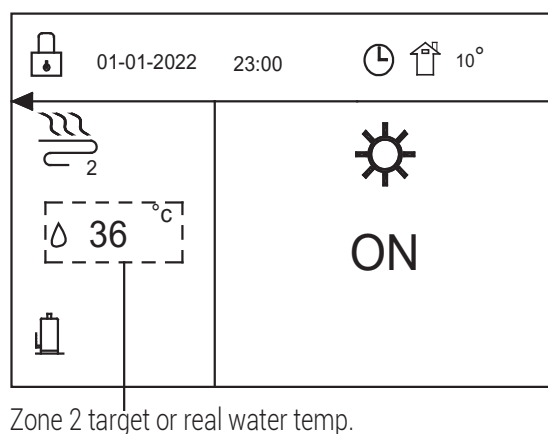
Home page 3

If dip switch SW1-2=OFF and any one of the settings on Table 2 is set, there will be main page and second page. Home page 3 will appear:

Main page



Second page



Zone 2 target or real water temp.

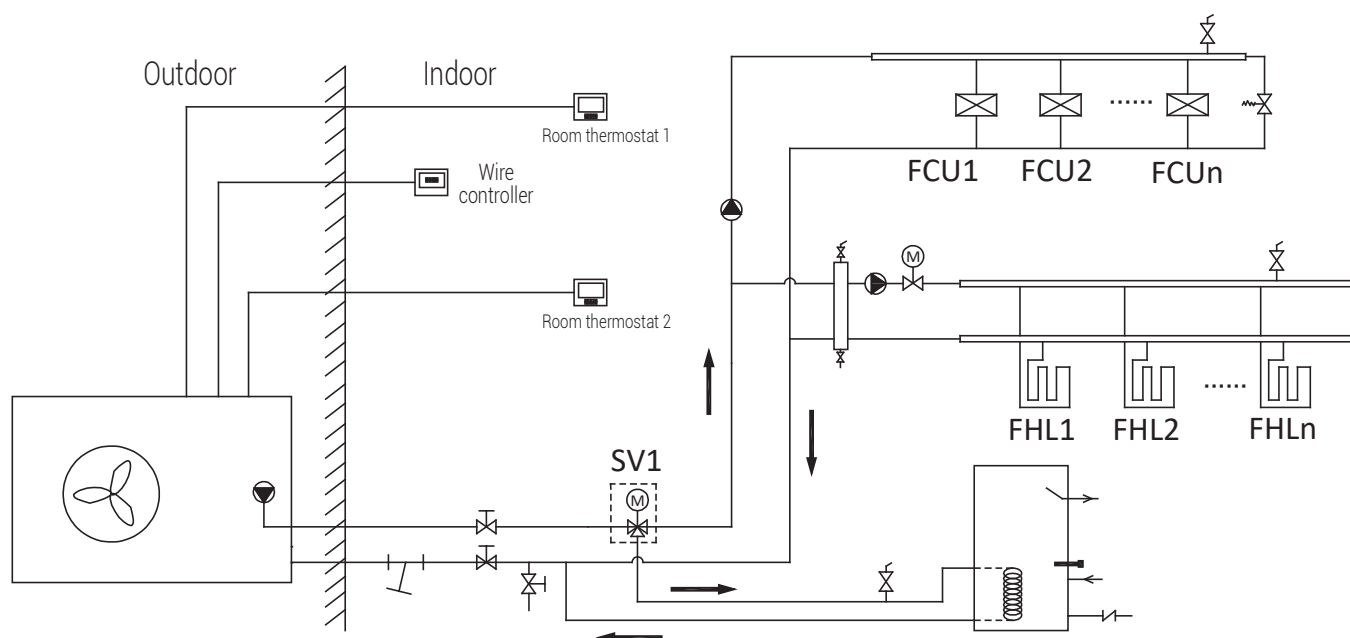
3 Home pages

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 = 0	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", "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.



3 Home pages

Home page 4

If dip switch SW1-2 is set to "ON" and any one of the settings on Table 3 is set, there will be main page and second page. Home page 4 will appear:

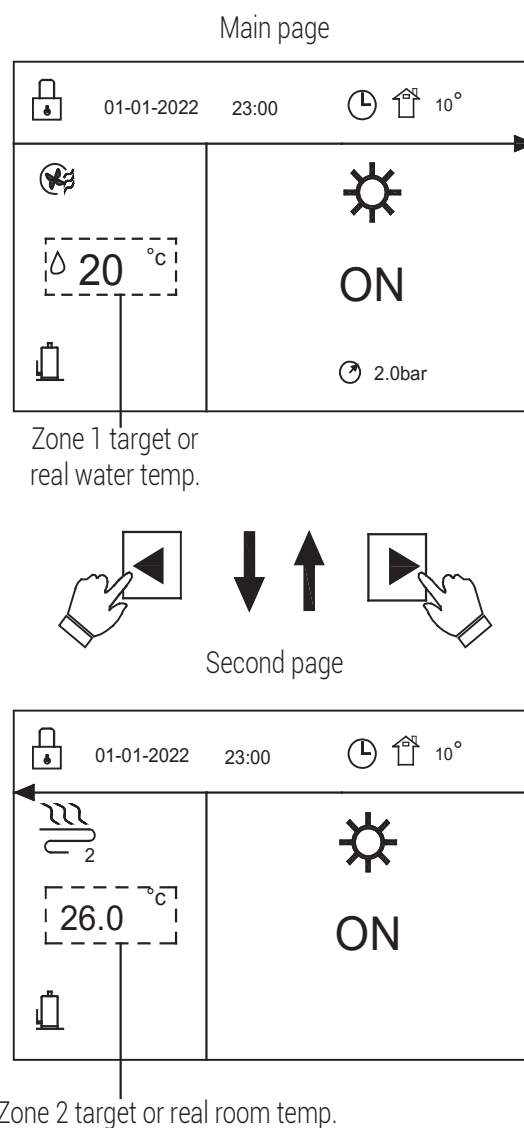


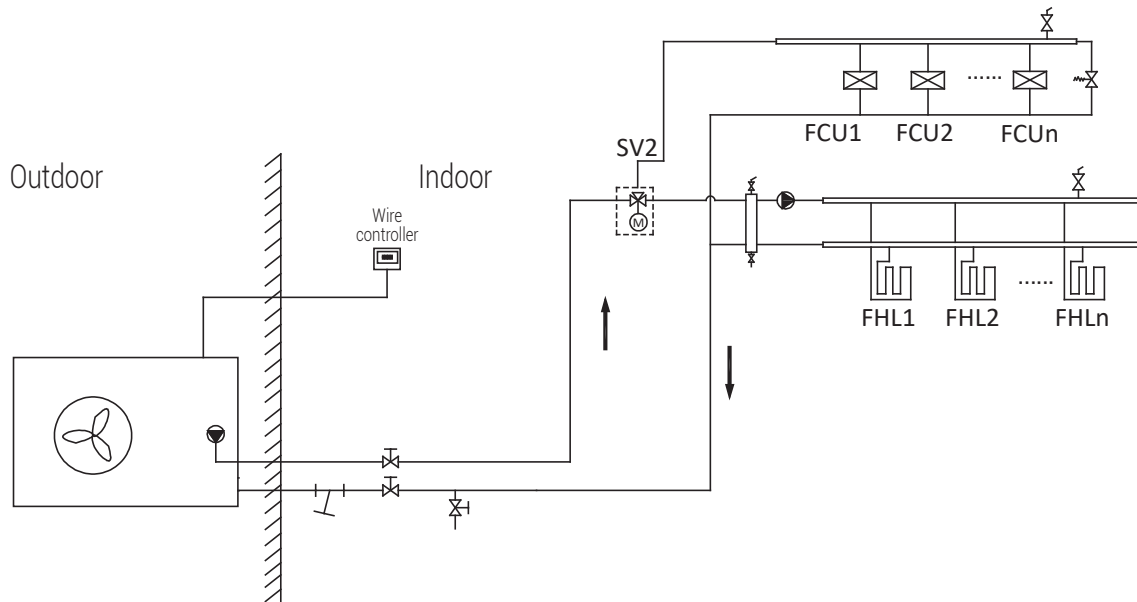
Table 3

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

3 Home pages

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 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 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

Press "☰" on a home page and then the menu structure appear:

MENU	1/2
OPERATION MODE SET	
FUNCTION PARAMETER SET	
TEMPERATURE PRESET	
DHW ADDITIONAL FUNCTION	
OPTIONAL SET	
 	

MENU	2/2
SCHEDULE	
SERVICE GUIDE	
PARAMETER VIEW	
FACTORY TEST	
WLAN SET	
 	

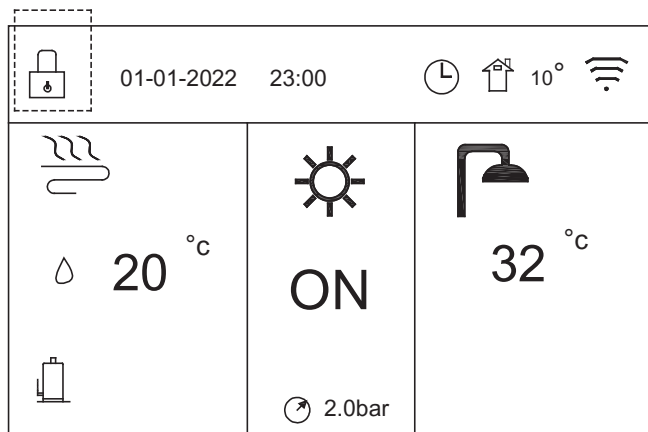
4.3 To navigate in the menu structure

Use "◀", "▶", "▲", "▼" to scroll and "✓" to enter.

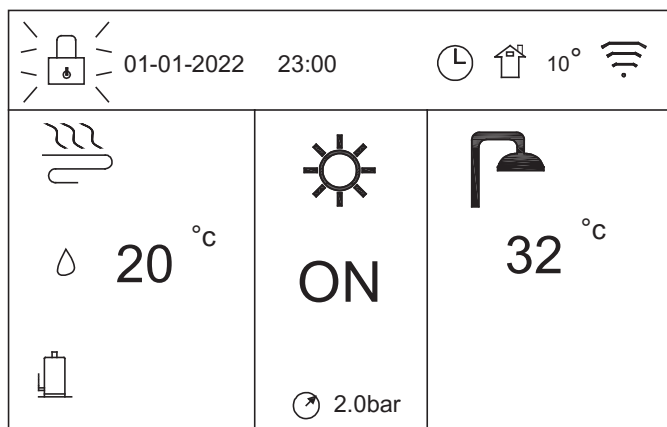
5 Basic usage

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.



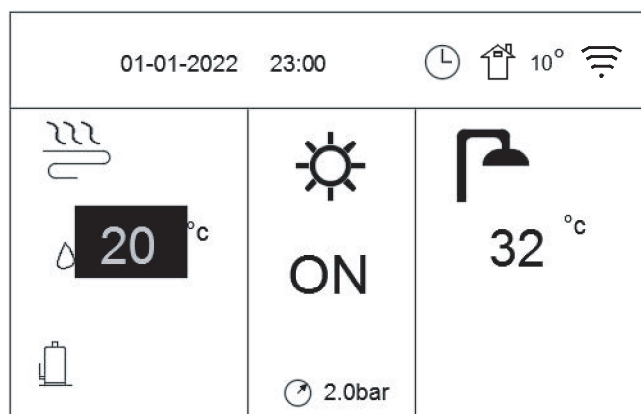
Long press " key, the icon will disappear and the interface can be controlled.

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

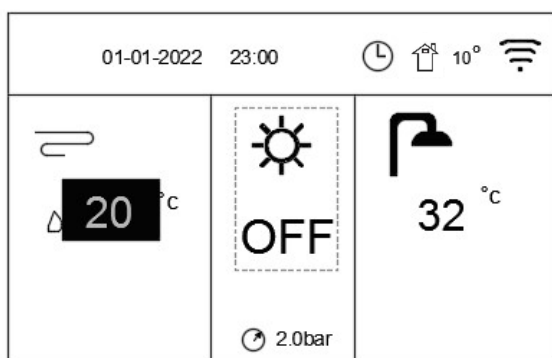
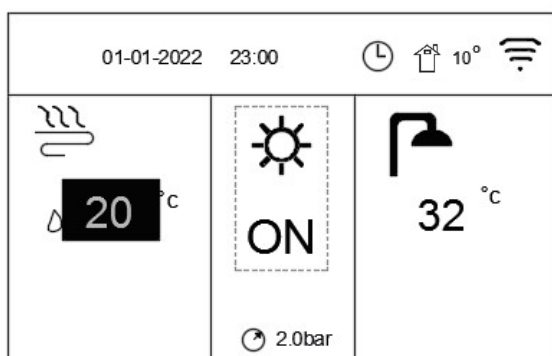
Use the interface to turn on or off the unit for space heating or cooling.

- 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:

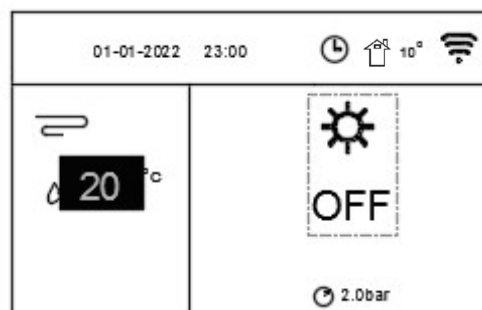
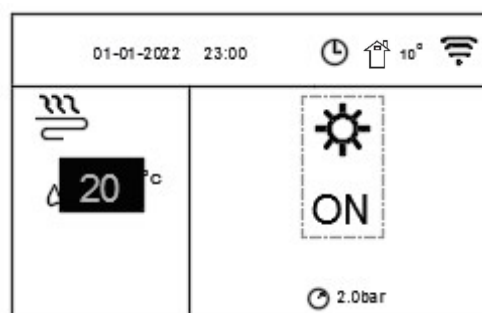


- When the cursor is on the temperature of space operation mode side (Including heat mode, cool mode and auto mode), press " key to turn on/off space heating or cooling.

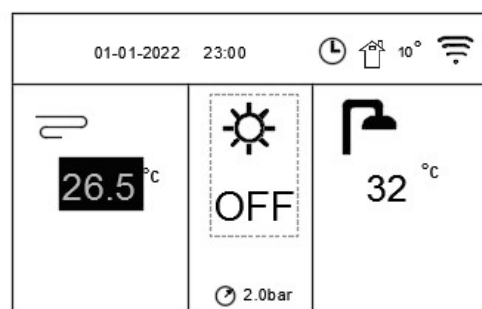
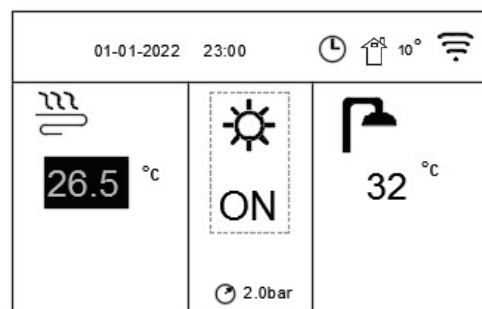
5 Basic usage



If dip switch SW1-2 is set to "ON", then following pages will display:



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

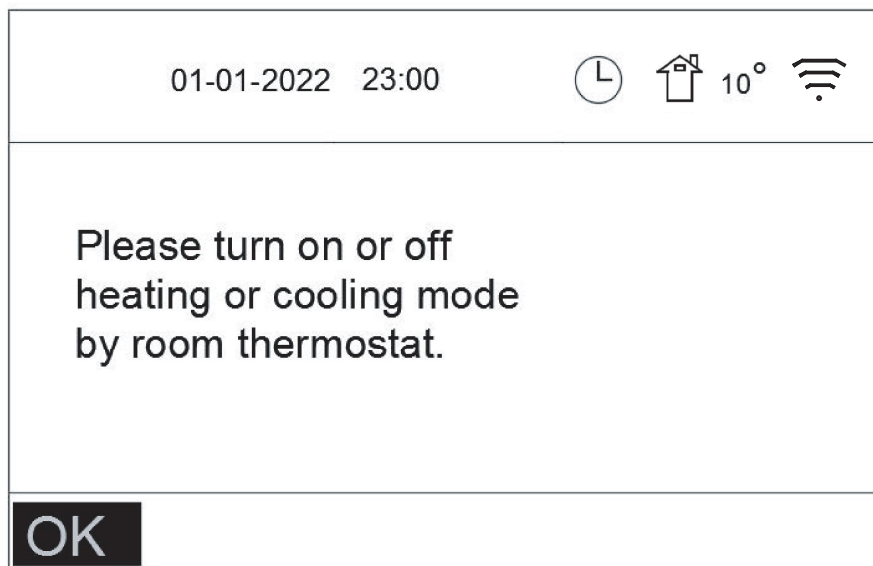


5 Basic usage

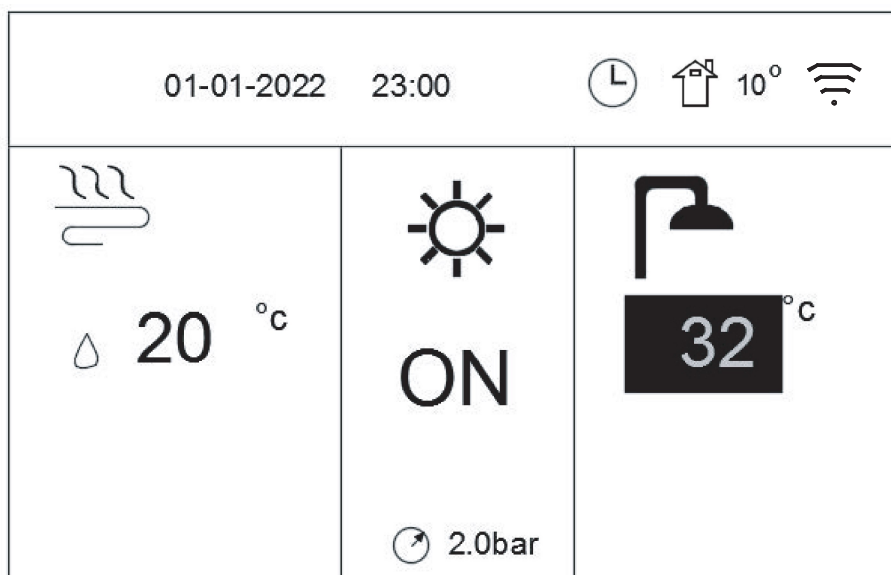
Use the room thermostat to turn on or off the unit for space heating or cooling.

- 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:



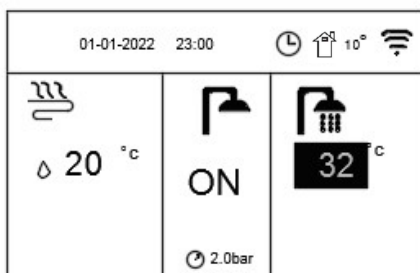
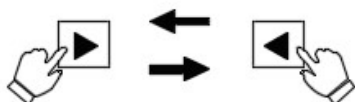
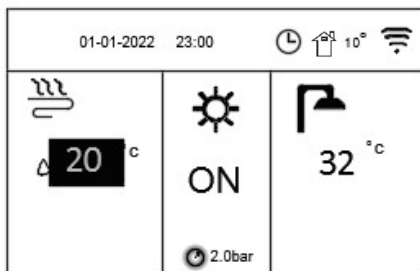
Use the interface to turn on or off the unit for DHW. Press "▼" or "►" on home page, the black cursor will appear:



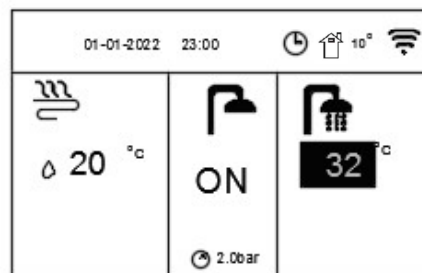
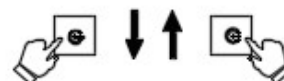
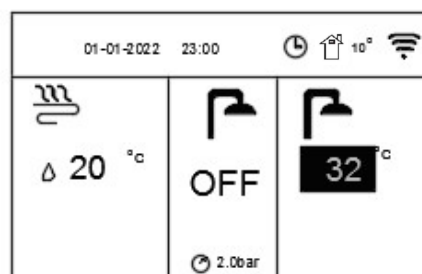
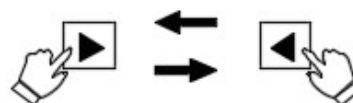
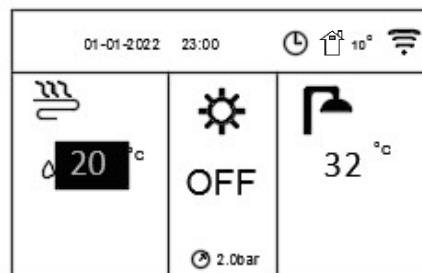
5 Basic usage

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:



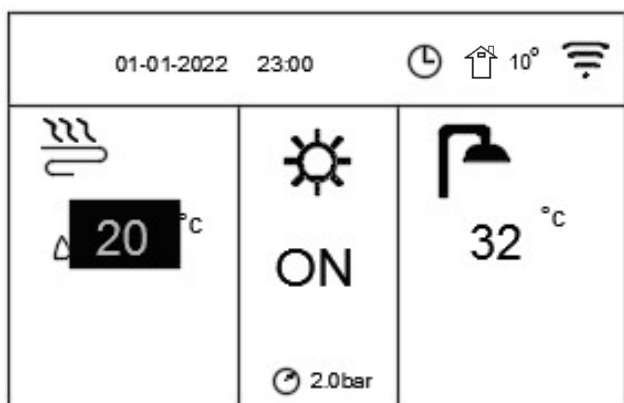
- If the space operation mode is OFF, then following pages will display:



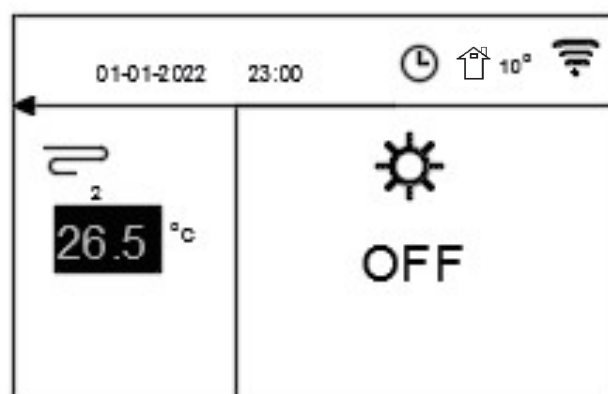
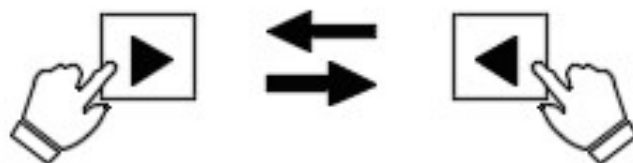
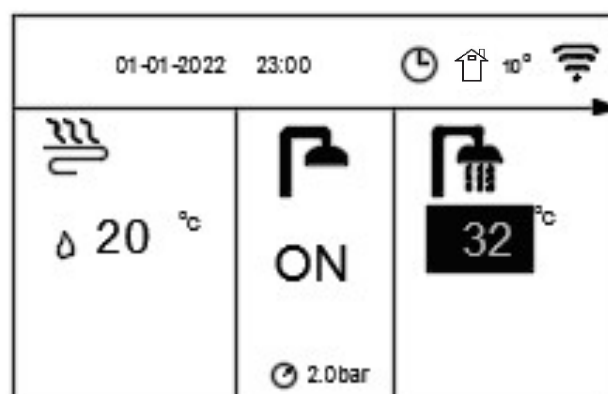
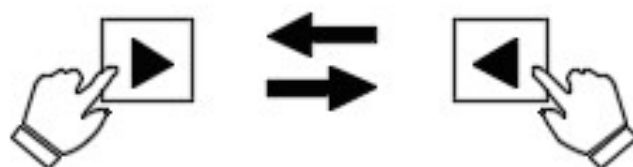
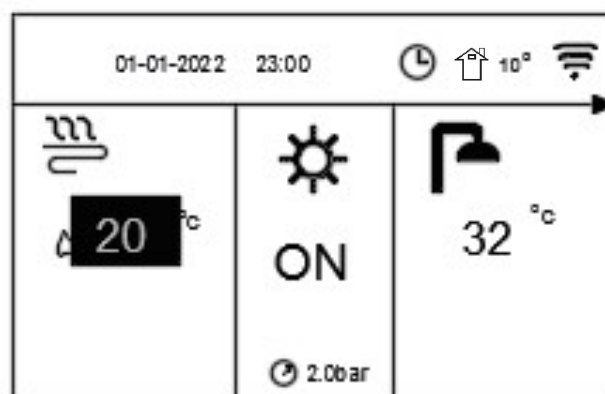
5 Basic usage

5.3 Adjusting the temperature

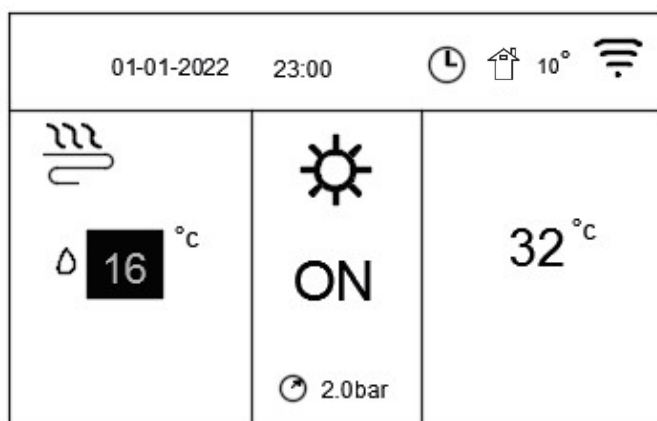
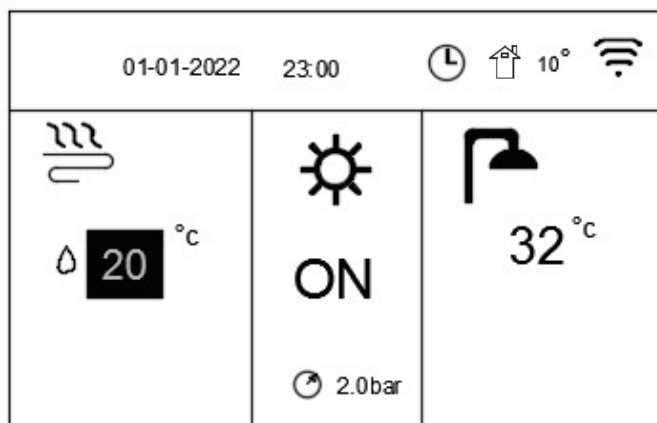
Press "◀" or "▲" on home page, the black cursor will appear:



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

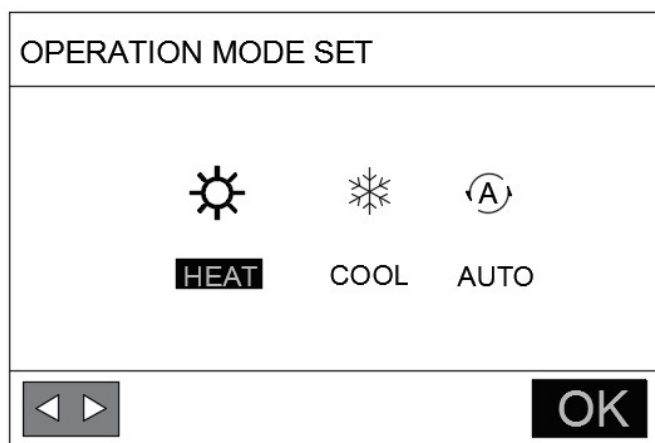


5 Basic usage



5.4 Adjusting space operation mode

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



- There are three modes to be selected including HEAT, COOL and AUTO mode. Use the "◀" or "▶" to scroll, press "☑" to select. Even if you don't press ☑ 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.

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.

5 Basic usage

See "Function parameter set", "Auto mode set" in "Installation and owner's manual".

- Adjust space operation mode by the room thermostat, see "Function parameter set", "Room thermostat" in "Installation and owner's manual".

Go to "🏠", "Operation mode set", if you press any key to select or adjust, the page will appear:

01-01-2022	23:00	🕒	🏠	10°
Heat or cool mode is controlled by the room thermostat.				
Please set operation mode by the room thermostat.				
OK				

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 "✓".

The following page will appear:

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

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

Notes:

- Temp. Curve 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 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.



6 Operation

- 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 "☑", 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:

01-01-2022 23:00		🕒 🏠 10°
Weather temp. function is on. Do you want to reset it?		
NO		YES
◀ ▶		OK

Move to "NO", press "☑" to come back to home page, move to "YES", press "☑" 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
LOW TEMP. FOR ZONE-B COOL	4
LOW TEMP. FOR ZONE-A HEAT	3
◀ ▶	OK

ZONE B here means ZONE 2.

6.3 Domestic Hot Water (DHW)

DHW mode typically consists of the following

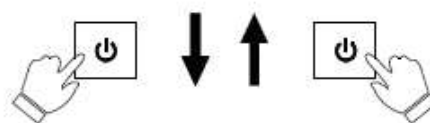
- 1) DISINFECT
- 2) DHW PUMP

6.3.1 Disinfect

The DISINFECT function is used to kill the legionella. In disinfect function the tank temperature will reach 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 "▼", "☑". The following page will appear:

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



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

Use "◀", "▶", "▲", "▼" to scroll and use "▲", "▼" to adjust the parameters when setting "CURRENT STATE" and "OPERATION" and "START".

6 Operation

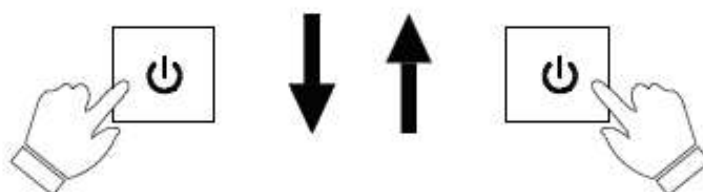
If the CURRENT STATE is set to ON, the disinfect function will active, but it is only once effective. If the OPERATE DAY is set to FRIDAY and the "START" is set to "Y and 23:00", the disinfect function will be active on 23:00 Friday.

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

6.3.2 DHW pump

The DHW PUMP function is used to return water of the water net. Go to , "DHW ADDITIONAL FUNCTION", "DHW PUMP". Press "▼", . The following page will appear:

DHW ADDITIONAL FUNCTION		
DISINFECT	DHW PUMP	
CURRENT STATE		ON
  		ON/OFF



DHW ADDITIONAL FUNCTION		
DISINFECT	DHW PUMP	
CURRENT STATE		OFF
  		ON/OFF

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,  is displayed on home page.

6 Operation

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

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

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

6 Operation

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 "✓", 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.

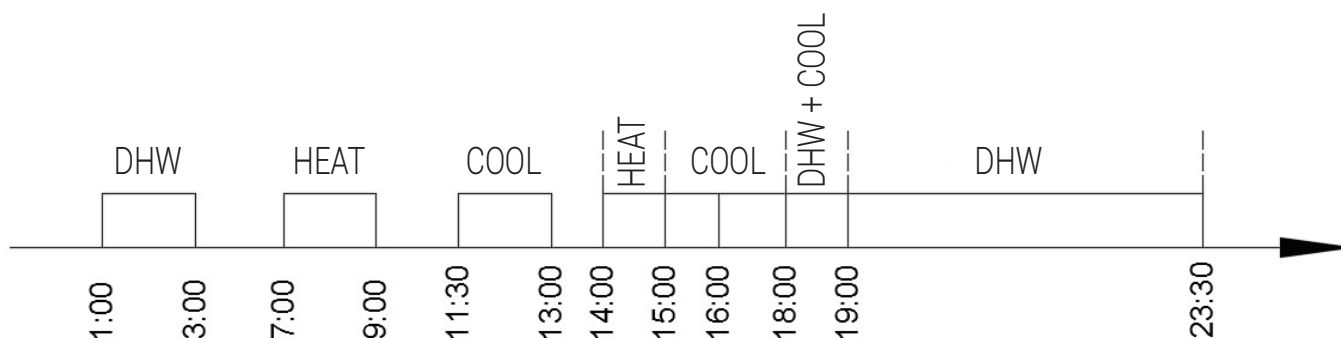
Example:

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

6 Operation

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 and COOL MODE are turned ON
19:00	DHW MODE is turned ON
23:30	DHW mode is turned OFF



Note:

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, namely you can set WEEKLY schedule to be

valid. If WEEKLY SCHEDULE is activated, **7** is displayed on the home page.

Go to "≡", "SCHEDULE", "WEEKLY". Press "✓". The following page will appear:

6 Operation

SCHEDULE						
TIMER	WEEKLY		CHECK	CANCEL		
MON	TUE	WED	THU	FRI	SAT	SUN
N	N	N	N	N	N	N
OK			 			

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.



Note:

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
OK			 			

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

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

6 Operation

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
 				

6 Operation

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 the timer is invalid.

6.4.3 Schedule check

Schedule check can only check the weekly schedule.

Go to "☰", "SCHEDULE", "CHECK". Press "✓". 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 "✓". 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 "✓" 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.

6 Operation



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



Notes:

- 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 "✓". The following page will appear:

6 Operation

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, SILENT MODE is invalid.

6.5.2 Holiday

If the holiday away mode is activated,  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 . The following page will appear:

6 Operation

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.

Notes:

- 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 "✓". The following page will appear:

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

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

6 Operation

OPTIONAL SET			
SILENT MODE	HOLIDAY	BACKUP HEATER	MANUAL DEFROST
BAKUP 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.



Note:

- 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 "✓". 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, MANUAL DEFROST is invalid.

6.6 Service guide

6.6.1 About 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 "✓".

The DISPLAY function is used to set the interface:

6 Operation

SERVICE GUIDE		1/3	
DISPLAY	FAULT CODE	CLEAR FAULT	
BACKLIGHT		ON	
LANGUAGE		EN	
TIME		20:30	

SERVICE GUIDE		2/3	
DISPLAY	FAULT CODE	CLEAR FAULT	
DATE		20-08-2022	
BUZZER		ON	
SCREEN LOCK		ON	

SERVICE GUIDE		3/3	
DISPLAY	FAULT CODE	CLEAR FAULT	
SCREEN LOCK TIME		120s	
SG RUNNING TIME		2hrs	

Use "▼" and "☑" to enter, and then use "☑", "▲", "▼" 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
		OK	

Press "☑" 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
		OK	

Press "☑" again to show the meaning of the fault code:

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



Note:

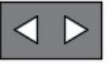
A total of eight fault codes can be recorded.

6 Operation

CLEAR FAULT is used to clear all the faults or errors. Use "▼" and "☑" to enter

06-08-2022 11:30		 10°	
DISPLAY	FAULT CODE	CLEAR FAULT	
CLEAR FAULT RECORD			NO
			

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

06-08-2022 11:30		 10°	
DISPLAY	FAULT CODE	CLEAR FAULT	
CLEAR FAULT RECORD			YES
			

6 Operation

6.7 Parameter view

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

- At home page, go to "☰" > "PARAMETER VIEW".
- Press "✓". 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
 	

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
 	

PARAMETER VIEW	3/12
11 AC FAN	OFF
12 SV1 STATUS	OFF
13 SV2 STATUS	OFF
14 IPH HEATER	OFF
15 TANK HEATER	OFF
 	

PARAMETER VIEW	4/12
16 AC CURRENT	0.0A
17 INPUT VOLTAGE	225V
18 OIL RETURN	OFF
19 HP2	OFF
20 CHASSIS HEATER	OFF
 	

PARAMETER VIEW	5/12
21 BUS VOLTAGE	0VDC
22 COMP.CURRENT	0.0A
23 PFC TEMP.	0°C
24 IPM TEMP.	0°C
25 DC FAN SPEED 1	770RPM
 	

PARAMETER VIEW	6/12
26 DC FAN SPEED 2	0RPM
27 ECO. IN TEMP.	0°C
28 ECO. OUT TEMP.	0°C
29 TANK TEMP.	50°C
30 IN WATER TEMP.	30°C
 	

PARAMETER VIEW	7/12
31 EEV-2 OPEN	0STEP
32 I-PUMP OUTPUT	100%
33 LOW SAT. TEMP.	2°C
34 CRANKCASE HEATER	OFF
35 PLATE HEATER	OFF
 	

6 Operation

PARAMETER VIEW	8/12
36 IN WATER PRE.	0.0bar
37 OUT WATER PRE.	2.0bar
38 WATER FLOW	0.0(m ³ /h)
39 WATER FLOW PWM	100%
40 UNIT MODEL	4KW
	

PARAMETER VIEW	9/12
41 SV3	OFF
42 FINAL TEMP. TC	0°C
43 SOLAR TEMP. Tso	90°C
44 BUFFER TEMP. TE1	20°C
45 BUFFER TEMP. TE2	20°C
	

PARAMETER VIEW	10/12
46 MIX IN TEMP. TZ2	20°C
47 C-A CURVE TEMP. TC	8°C
48 H-A CURVE TEMP.	32°C
49 C-B CURVE TEMP. TC	10°C
50 H-B CURVE TEMP.	35°C
	

PARAMETER VIEW	11/12
51 AHS	OFF
52 P_d	OFF
53 P_o	OFF
54 B ZONE P_c	OFF
55 P_s	OFF
	

PARAMETER VIEW	12/12
56 SG	OFF
57 ROOM TEMP. Tro	31°C
58 SUC. PRESSURE	0kPa
59 GAS LEAKAGE RATE	0%
	

For cascade application, After you select "PARAMETER VIEW" at home page, the screen will appear the page of selecting the module to be viewed:

PARAMETER VIEW

Please select the module:

▶MA.#0 SL.#1 ▶SL.#2 SL.#3
SL.#4 ▶SL.#5 SL.#6 SL.#7



OK

Use four arrow keys to select the module and then press "↻" to go into "PARAMETER VIEW" menu. "MA." means master module, "SL." means slave module. Black arrow on the left of the module means the modules are online: one black arrow means the modules are online but currently not running, two black arrows means the modules are online and currently running. It's the online module that can be viewed the parameter.

6 Operation

6.8 Function parameter set

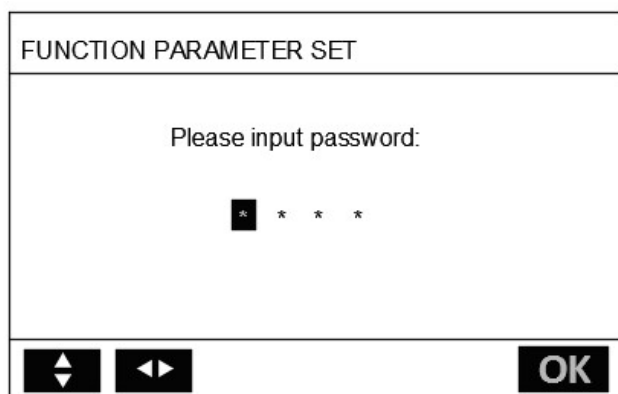
6.8.1 About Function parameter set

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

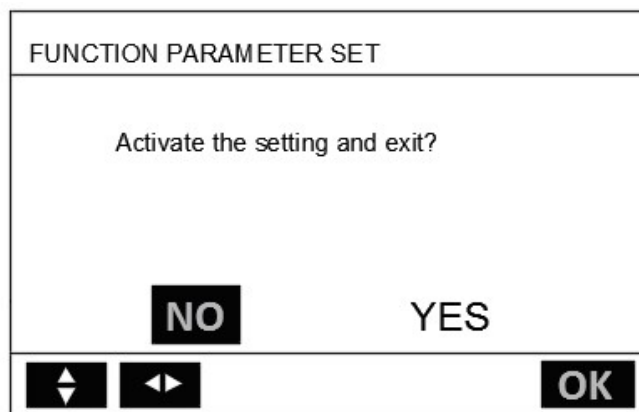
Go to "FUNCTION PARAMETER SET". Press "✓".



- 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 "✓" to exit the FUNCTION PARAMETER SET.

Note:



The unit must be turn off before you enter FUNCTION PARAMETER SET menu. After exiting the FUNCTION PARAMETER SET, the unit must be power off and then be power on again in ten seconds.

6.9 Factory test

FACTORY TEST is only for the factory.

7 Menu structure: overview

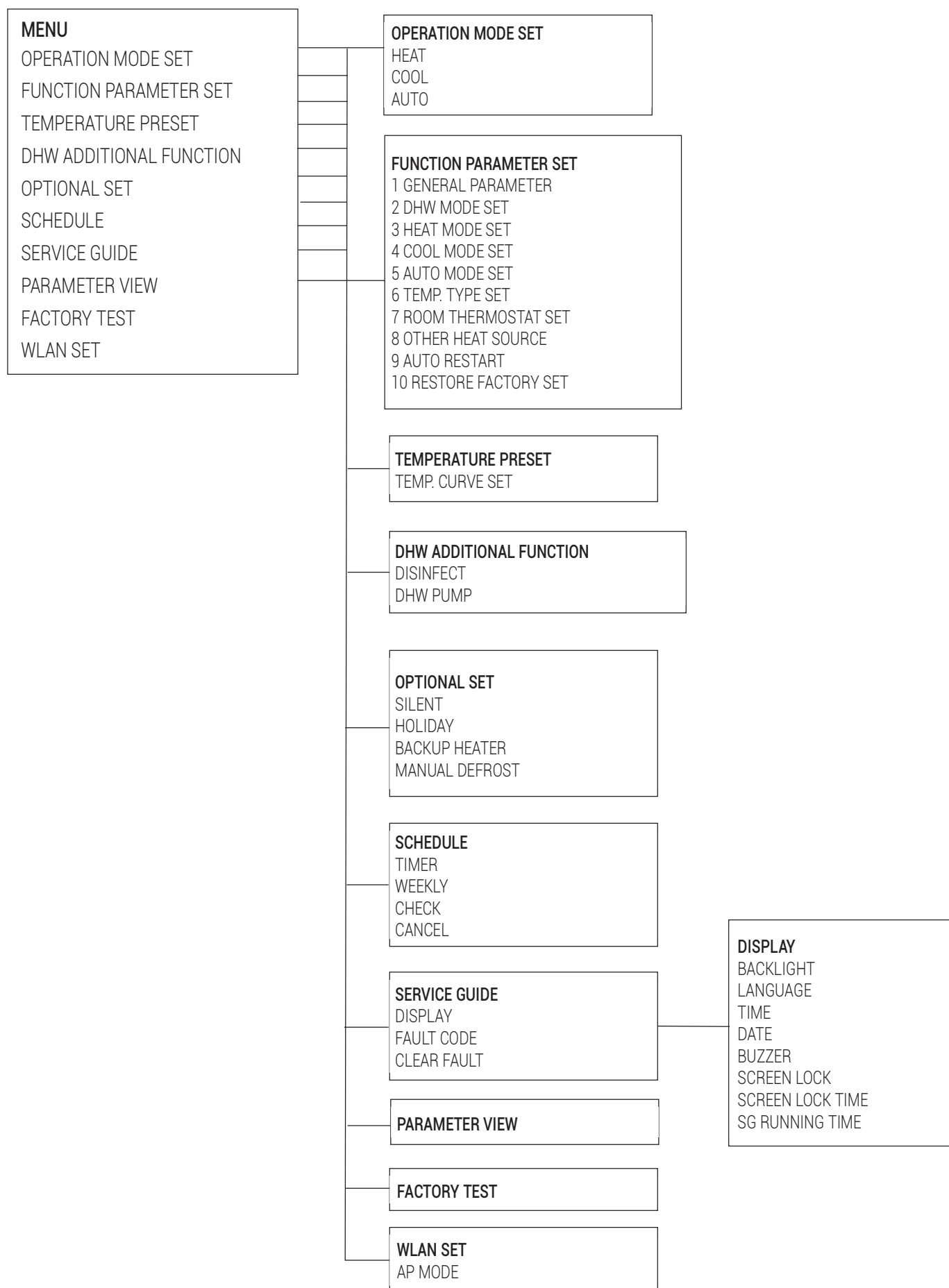


Table 4 the environment temperature curve of the low temperature setting for heating

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

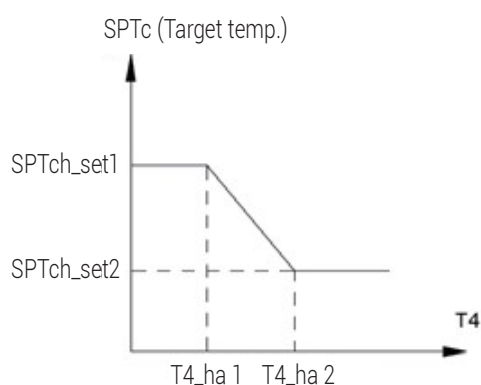
7 Menu structure: overview

Table 5 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 heating automatic setting curve:

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



State: In the setting the wired controller, if
 $T4_ha2 < T4_ha\ 1$, then exchange their value; if
 $SPTch_set1 < SPTch_set2$, then exchange their value.

7 Menu structure: overview

Table 6 the environment temperature curve of the low temperature setting for cooling

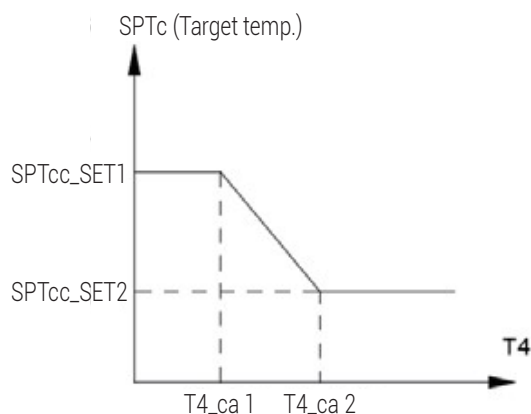
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4$
1-SPTc	16	11	8	7
2-SPTc	17	12	9	7
3-SPTc	18	13	10	7
4-SPTc	19	14	11	8
5-SPTc	20	15	12	9
6-SPTc	21	16	13	10
7-SPTc	22	17	14	11
8-SPTc	23	18	15	12

Table 7 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 cooling 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.