



User operation manual - Wired controller

Heat Pump air/water "inverter"

Baxi HP40-XX-MB
Mono 2 AWHP 4-16MR

- 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.

CONTENTS

1 GENERAL SAFETY PRECAUTIONS	3
• 1.1 About the documentation	3
• 1.2 For the user	3
2 A GLANCE OF THE USER INTERFACE	4
• 2.1 The appearance of the wired controller	4
• 2.2 Status icons	4
3 USING HOME PAGES	5
4 MENU STRUCTURE	7
• 4.1 About the menu structure	7
• 4.2 To go to the menu structure	7
• 4.3 To navigate in the menu structure	7
5 BASIC USAGE	7
• 5.1 Screen Unlock	7
• 5.2 Turning ON/OFF controls	7
• 5.3 Adjusting the temperature	9
• 5.4 Adjusting space operation mode	10
6 OPERATION	10
• 6.1 Operation Mode	10
• 6.2 Preset Temperature	10
• 6.3 Domestic Hot Water(DHW)	13
• 6.4 Schedule	15
• 6.5 Options	17
• 6.6 Child Lock	20
• 6.7 Service information	20
• 6.8 Operation Parameter	21
• 6.9 For Serviceman	22
• 6.10 Network Configuration Guidelines	23
• 6.11 SN VIEW	23
7 MENU STRUCTURE : OVERVIEW	24

NOTE

All the pictures in the manual are shown for explanatory purposes, the screens may differ.
 Remove the plastic film that protects the screen of the appliance.
 WLAN function: not available

1 GENERAL SAFETY PRECAUTIONS

1.1 About the documentation

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

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.

- Unit are marked with the following symbol:

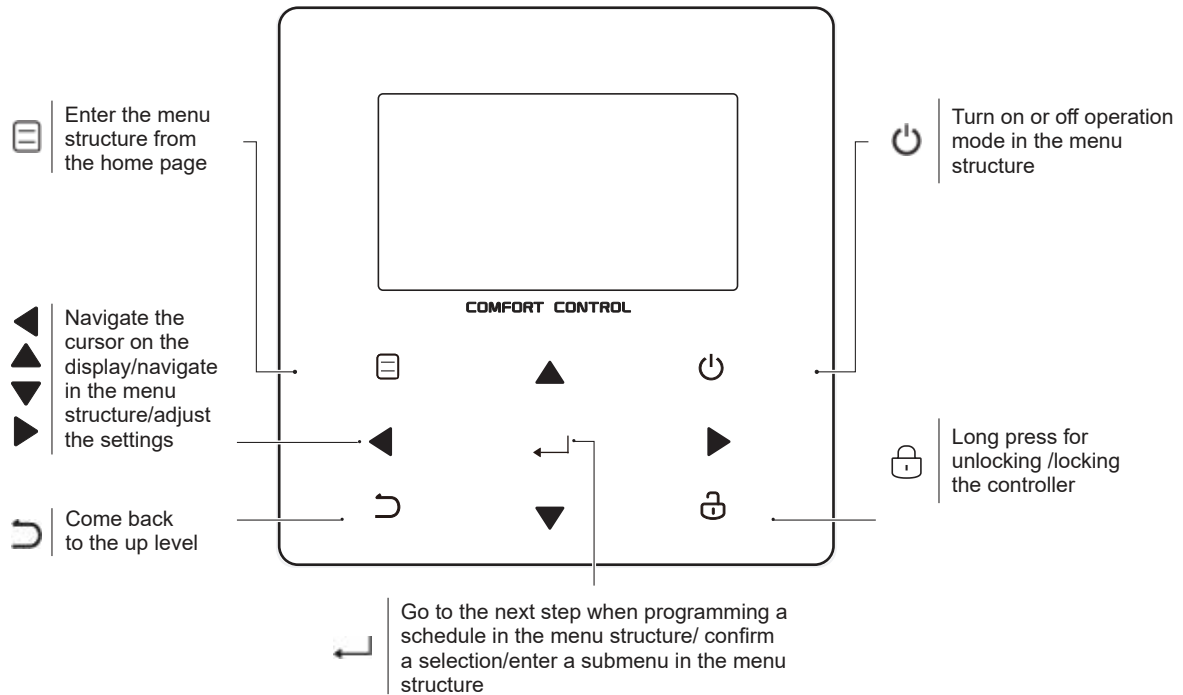


This means that electrical and electronic products can not be mixed with unsorted household waste. Do NOT try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable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

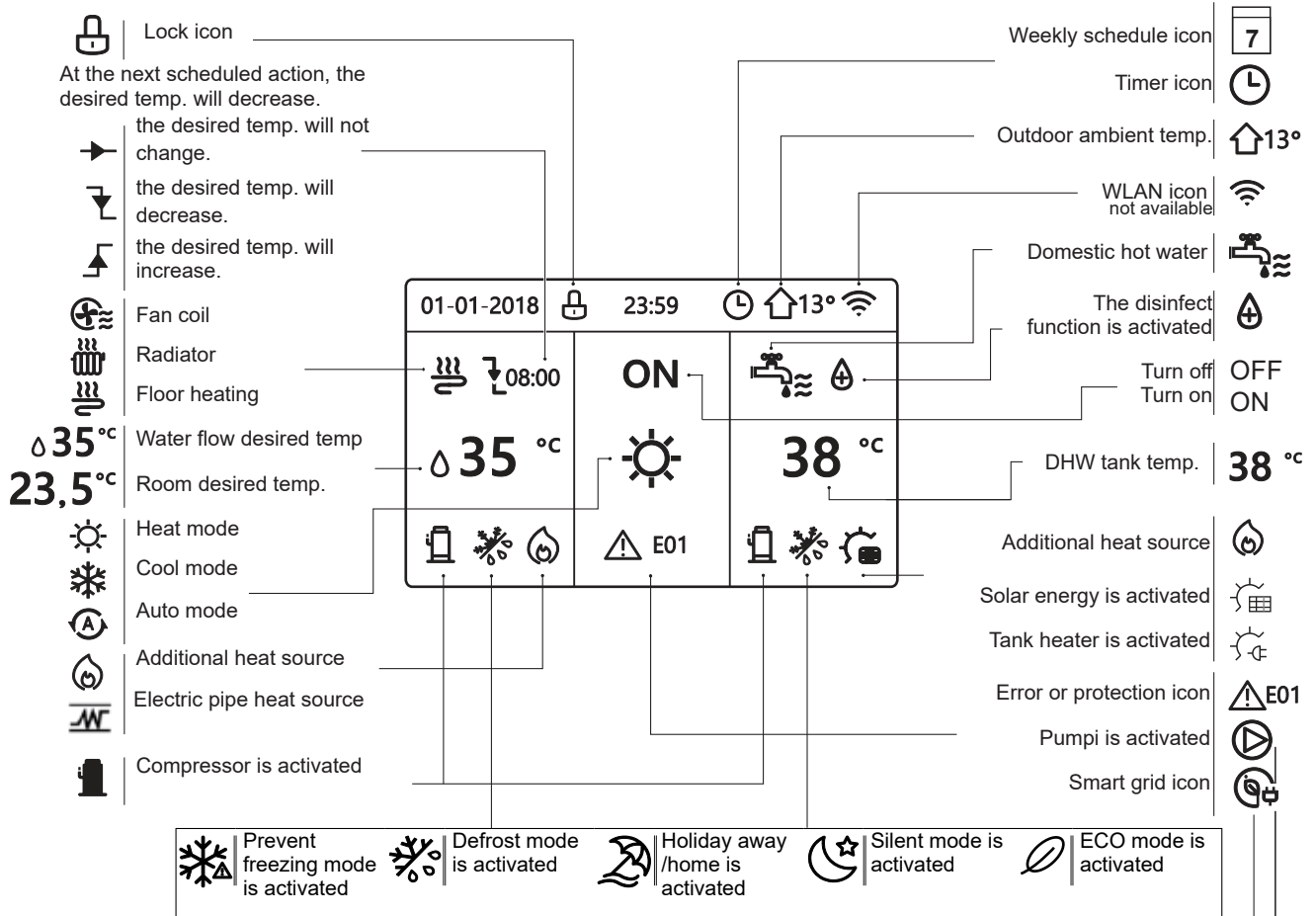
- Placed in a location away from radiation.

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			

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 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
- Room desired temperature
- Domestic hot water temperature

home page1 :

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

01-01-2018 23:59 13°

	ON	
35 °C		38 °C

Water flow desired temperature

the system layout 1

home page2 :

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

01-01-2018 23:59 13°

	ON	
23.5 °C		38 °C

Room desired temperature

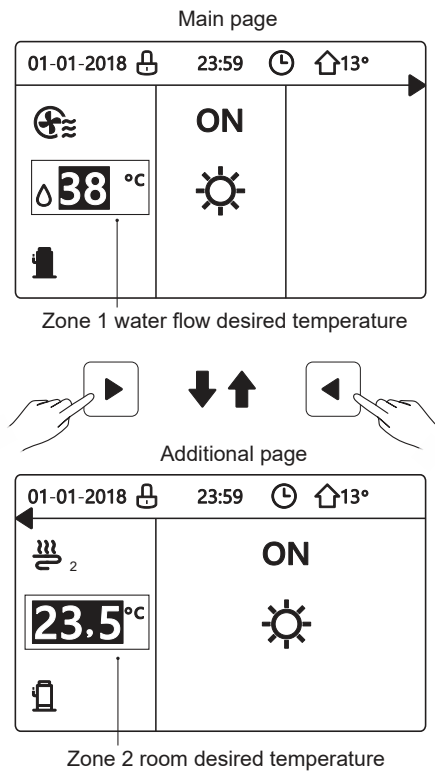
the system layout 2

NOTE

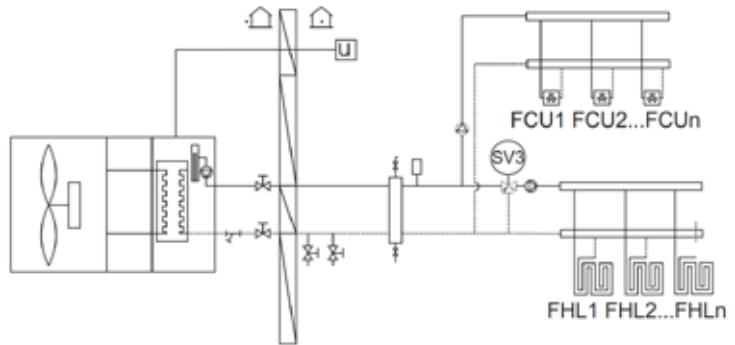
The wired controller should be installed in the floor heating room to check the room temperature.

home page3:

If the DHW MODE is set NON (See "FOR SERVICEMAN" > "DHW MODE SETTING " in "Installation, User and Service Manual"), and if "WATER FLOW TEMP." is set YES, "ROOM TEMP." is set YES.(See "FOR SERVICEMAN" > "TEMP. TYPE SETTING " in "Installation, User and Service Manual"). There will be a main page and an additional one. The system functions include floor heating and space heating for fan coil, home page 3 will appear:

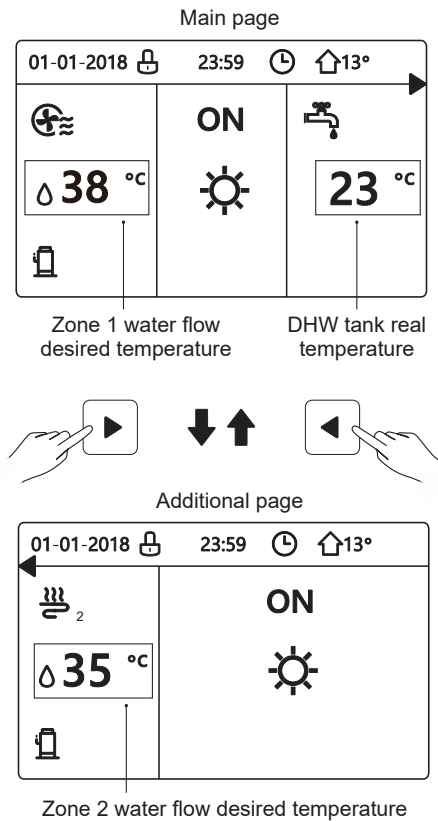


the system layout 3

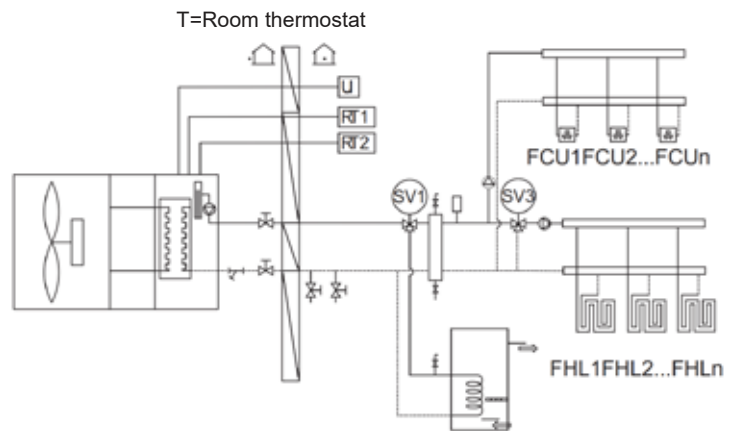


home page4 :

If the ROOM THERMOSTAT is set DOUBLE ZONE or DOUBLE ZONE is set YES. There will be a main page and an additional page. The system functions include floor heating, space heating for fan coil and domestic hot water, home page 4 will appear:



the system layout 4



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 appears:

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


MENU	2/2
SERVICE INFORMATION	
OPERATION PARAMETER	
FOR SERVICEMAN	
WLAN SETTING	
SN VIEW	
ENTER	







4.3 To navigate in the menu structure




Use "▼", "▲" to scroll.






5 BASIC USAGE

5.1 Screen Unlock

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

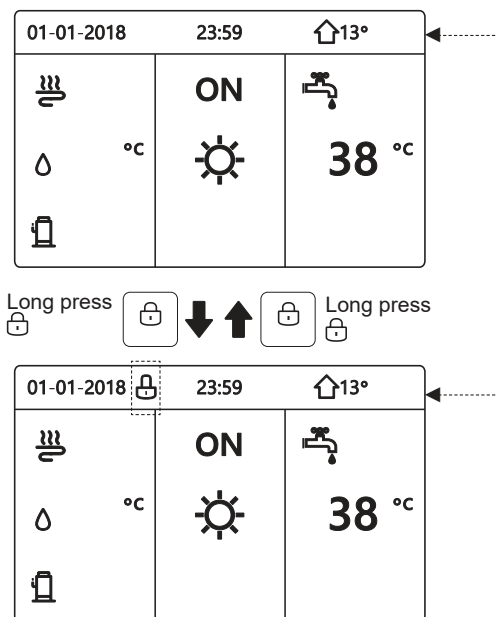
01-01-2018 	23:59	↑13°
 ON		
 35 °C		38 °C
		

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

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

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





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







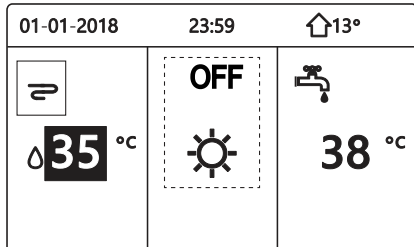
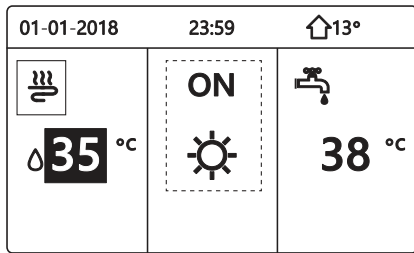
5.2 Turning ON/OFF controls

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

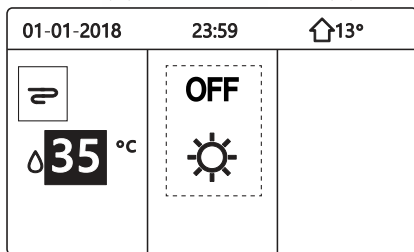
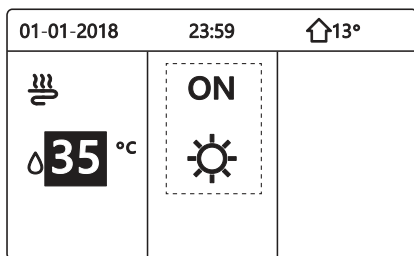
- The ON/OFF of the unit is controlled by the interface if there is no activated ROOM THERMOSTAT. (see "ROOM THERMOSTAT SETTING" in "Installation, User and Service Manua")
- Press "◀", "▲" on home page, the black cursor will appear:

01-01-2018	23:59	↑13°
 08:00	ON	
 35 °C		38 °C

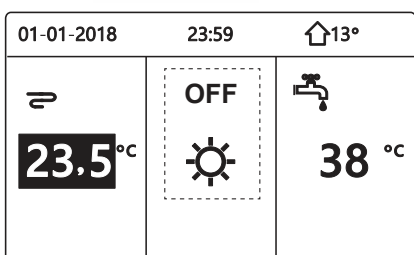
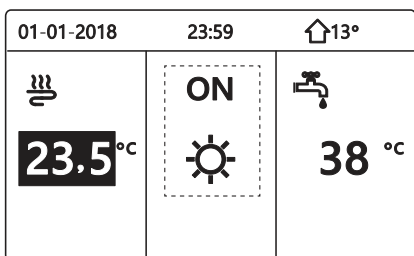
1) When the cursor is on the temperature of space operation mode side (Including heat mode , cool mode  and auto mode ) , press  key to turn on/off space heating or cooling.



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

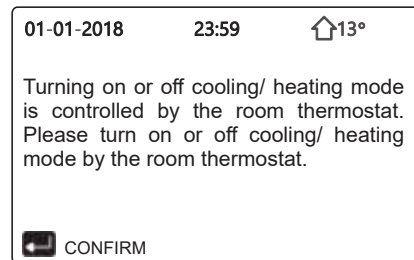


If the TEMP. TYPE is set ROOM TEMP. , the following pages will display:

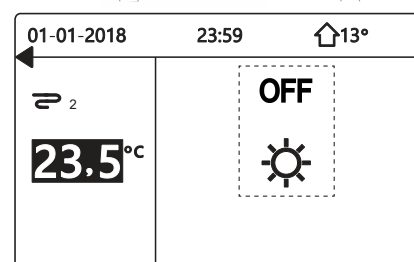
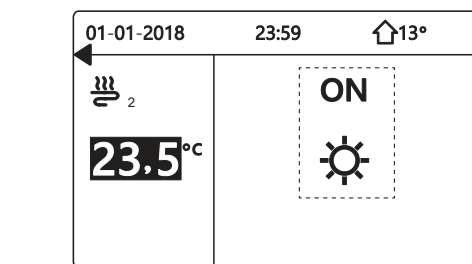
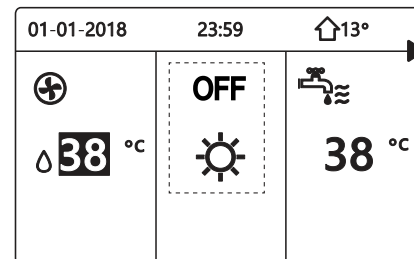
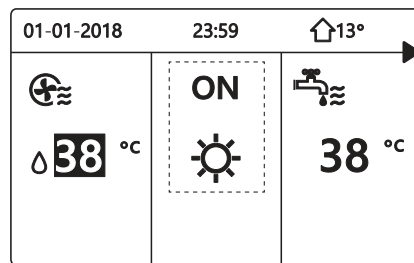


5.2.2 Use the room thermostat to turn on or off the unit for space heating or cooling.

- The room thermostat is set MODE SET (see "ROOM THERMOSTAT SETTING" in "Installation, User and Service Manual"). The unit operation mode and ON / OFF are controlled by room thermostat, press on the interface, the following page will display:

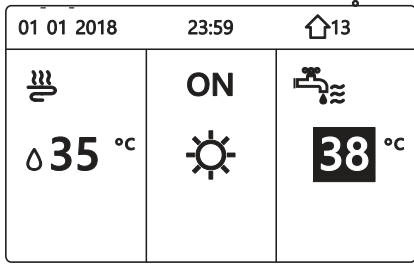


- The room thermostat is SET ONE ZONE or DOUBLE ZONE (see "ROOM THERMOSTAT SETTING" in "Installation, User and Service Manual"). The room thermostat controls the unit ON/OFF, operation mode is set on the interface. The following pages show room thermostat control DOUBLE ZONE:

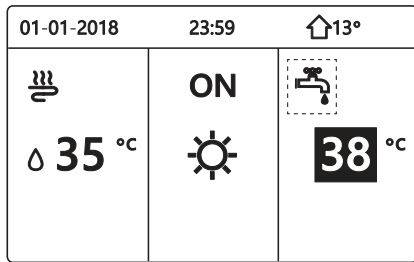
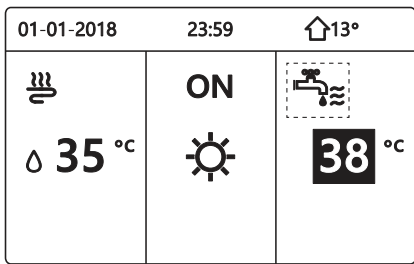


5.2.3 Use the interface to turn on or off the unit for DHW. Press

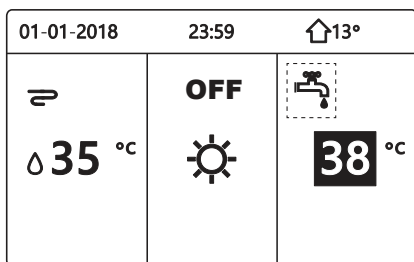
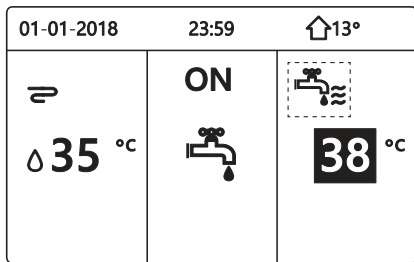
"▶", "▼" on home page, the black cursor will appear:



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, the following pages will display:

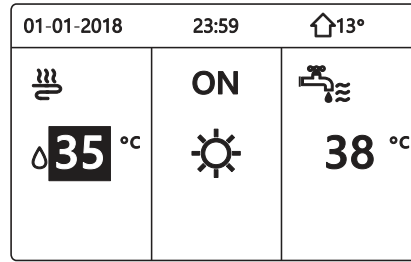


If the space operation mode is OFF, the following pages will display:

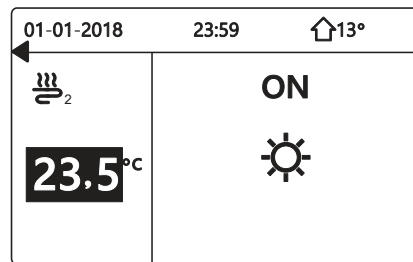
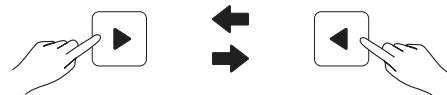
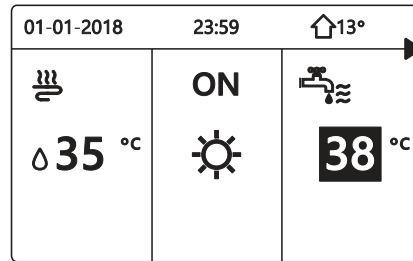
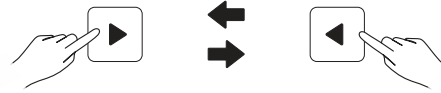
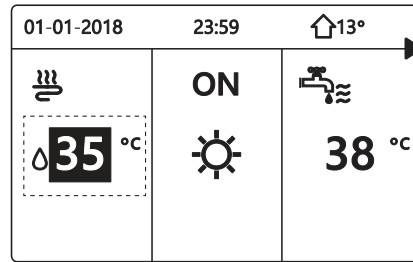


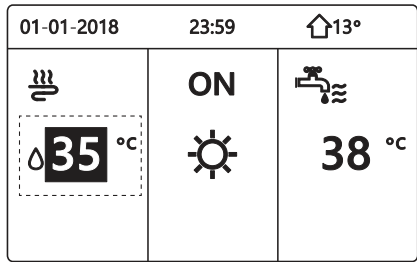
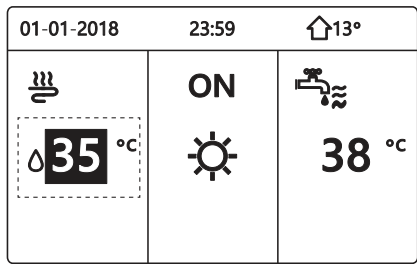
5.3 Adjusting the temperature

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




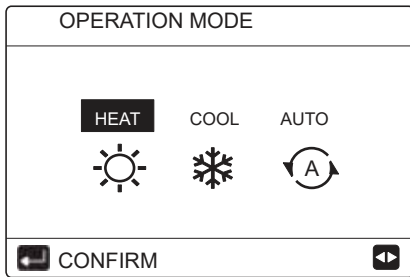
- If the cursor is on the temperature, use the "◀", "▶" to select and use "▼", "▲" to adjust the temperature.








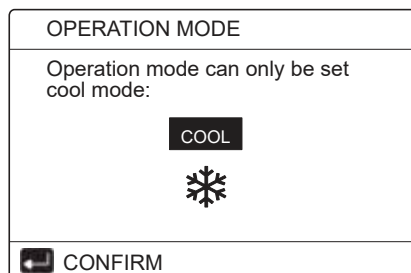
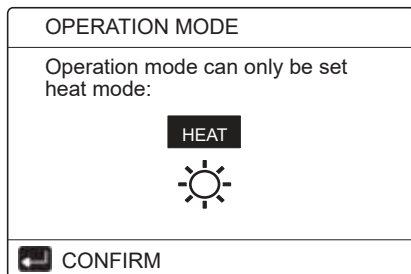
5.4 Adjusting space operation mode

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






- There are three modes to be selected HEAT, COOL and AUTO mode. Use the "◀", "▶" to scroll, press  to select. Even you do not press  button and exit the page by pressing  button, the mode would still be effective if the cursor had been moved to the operation mode.

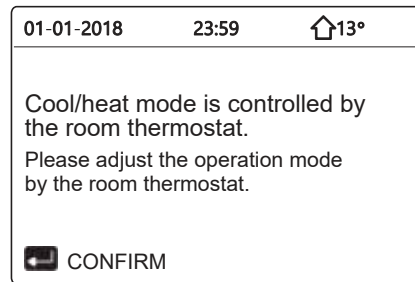
If there is only HEAT(COOL) mode, the following page will appear:



- 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, User and Service Manual»..

- Adjust space operation mode by the room thermostat, see "ROOM THERMOSTAT" on «Installation, User and Service 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 TEMPERATURE contains 3 items:»PRESET TEMP.\ WEATHER TEMP. SET\ECO MODE.

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 TEMPERATURE
- The PRESET TEMP. function will be off in these conditions.
 - AUTO mode is running.
 - TIMER or WEEKLY SCHEDULE is running.
- Go to "MENU" > "PRESET TEMPERATURE" > "PRESET TEMP". Press .

The following page will appear:

PRESET TEMPERATURE			1/2
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE	
NO.	TIME	TEMP.	
1	<input 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 PRESET 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 on the following page:

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	
⏮ <input checked="" type="checkbox"/> SELECT			⏭

You press ⏮, and the "■" becomes "☑". The timer 1 is selected.

You press ⏮ again, and the "☑" becomes "■". The timer 1 is unselected.

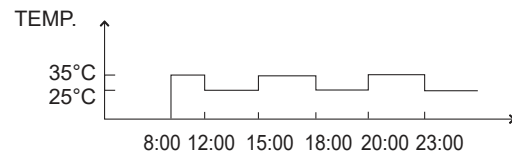
PRESET TEMPERATURE			1/2
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE	
NO.	TIME	TEMP.	
1	<input checked="" type="checkbox"/> 08:00	35°C	
2	<input checked="" type="checkbox"/> 12:00	25°C	
3	<input checked="" type="checkbox"/> 15:00	35°C	
⏮ <input type="checkbox"/> CANCEL			⏭

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 shown on the 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



i INFORMATION

When the space operation mode is changed, the PRESET TEMP. is off automatically.

The PRESET TEMP. function can be used in the heat mode or cool mode. But if the operation mode is changed, the PRESET TEMP. function needs to be reset again.

The running preset temperature is valid when the unit is OFF. It will run according to the next preset temperature when the unit will be turned on again.

6.2.2 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 ⏮.

The following page will appear:

PRESET TEMPERATURE		1/2
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		

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 uses the curve of the high temperature setting for heating, if the high temperature is set for heating.

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

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

It only uses 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, User and Service Manual».
- The desired temperature (T1S) cannot 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	
CONFIRM	

Use '◀', '▶' to scroll .Press ↵ 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		

- 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 it off?			
NO		YES	
CONFIRM			

Move to "NO", press ↵ to come back to home page,move to "YES", press ↵ 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		

INFORMATION

By choosing "WEATHER TEMP. SET TYPE: 9", you can use a personalized heating curve.

Its parameters can be modified using "HEAT MODE SETTING" (refer to the 10.5.3 chapter in "Installer, user and service manual").

Example of a personalization:

- 3.8 T1SetH1 = 60 °
- 3.9 T1SetH2 = 30 °
- 3.10 T4H1 = 0 °
- 3.11 T4H2 = 16 °

6.2.3 ECO MODE

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

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
CURRENT STATE		OFF
ECO TIMER		OFF
START		08:00
END		1 00:9
ON/OFF		

Press . The following page will appear:

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

Use '' , '' scroll .Press to select.
The following page will appear:

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

Use to turn ON or OFF,and use '' , '' to scroll.

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
CURRENT STATE		
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.

INFORMATION

- ECO MODE SET have two kinds of curves :
 - the curve of the high temperature setting for heating,
 - the curve of the low temperature setting for heating,
 It only uses the curve of the high temperature setting for heating, if the high temperature is set for heating. It only uses 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, User and Service Manual».
- The desired temperature (T1S) cannot 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 legionella bacteria.

In disinfect function the tank temperature will reach 65~70 C° forcely. The disinfect temperature is set in FOR SERVICEMAN.See "FOR SERVICEMAN" > "DHW MODE" > "DISINFECT" in «Installation, User and Service Manual».

Go to "MENU" > "DOMESTIC HOT WATER" >

"DISINFECT". Press . The following page will appear:

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



DOMESTIC HOT WATER (DHW)			
DIS-INFE	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 be active on 23:00 Friday.

If the disinfect function is running,the following page will appear:

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

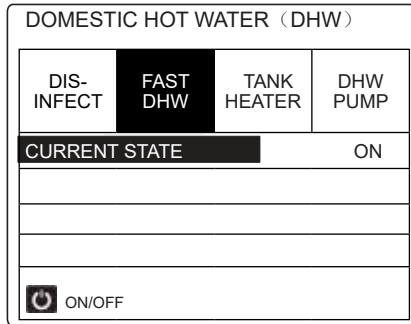
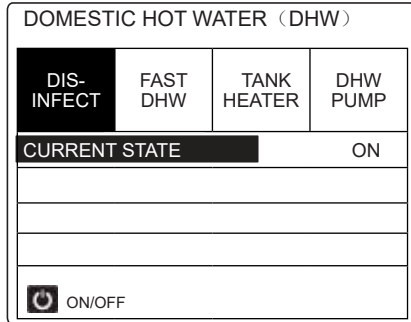
6.3.2 Fast DHW

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 :



Use  key to select ON or «OFF».




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.

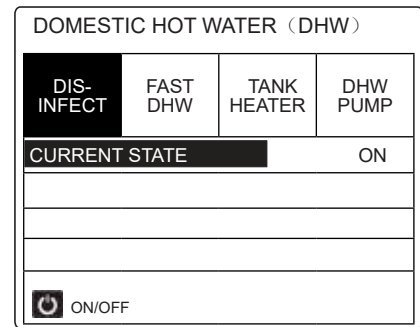
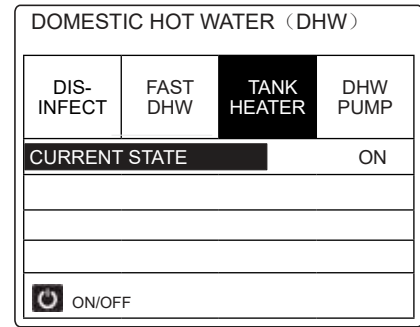
6.3.3 TANK HEATER



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.

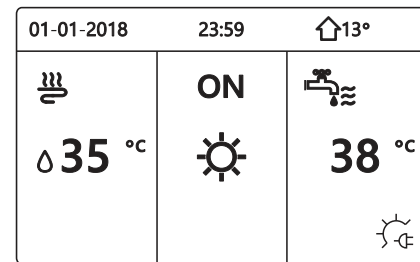
Also, even if the heat pump system fails, TANK HEATER can be used to heat water in tank.

Go to "MENU" > "DOMESTIC HOT WATER" > "TANK HEATER". Press . Use  to select ON or OFF. Use  to exit.

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



Use  to select ON or OFF. Use  to exit. If TANK HEATER is activated, the following page will appear:





INFORMATION

If CURRENT STATE is OFF, TANK HEATER is invalid. If the T5(sensor of tank) is faulty, tank heater cannot work.

6.3.4 DHW Pump

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 .

> "DHW PUMP". Press . The following page will appear:

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 \leftarrow 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 type="checkbox"/> 00:00	T6	<input type="checkbox"/> 00:00

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

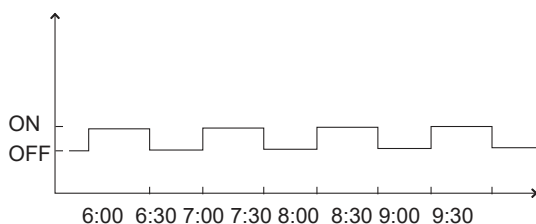
For example: you have set the parameter about the DHW PUMP (See "FOR SERVICEMAN" > "DHW MODE SETTING" on «Installation, User and Service Manual»). PUMP RUNNING TIME is 30 minutes.

Set as follows:

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

The PUMP will run as follows:

PUMP



6.4 Schedule

SCHEDULE menu consists in the following:

- 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 previous setting is effective. If the Timer is activated, \odot is displayed on home page.

SCHEDULE 1/2				
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL 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

SCHEDULE 2/2				
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL 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

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

Move to "■", press \leftarrow 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 \leftarrow , 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:

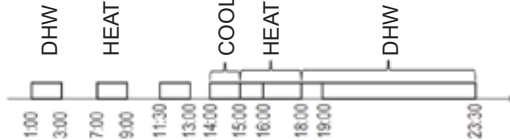
SCHEDULE			
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL TIMER
Timer1 is useless.			
Please check the timer setting and temperature setting.			
<input type="button" value="CONFIRM"/>			

Example:

Six timers are set as follows:

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	00 : 14	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 follows:



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

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 previous setting is effective. If WEEKLY SCHEDULE is activated, **7** is displayed on the home page.

Go to "MENU" > "SCHEDULE" > "WEEKLY SCHEDULE". Press **7**. The following page will appear:

SCHEDULE						
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL 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			
7 MON SELECT						

First select the days of the week you wish to schedule. Use "◀", "▶" to scroll, press **7** to select or unselect the day.

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

INFORMATION

We must set at least 2 days to enable WEEKLY SCHEDULE function.

SCHEDULE						
TIMER	WEEKLY SCHEDULE	SCHEDULE CHECK	CANCEL TIMER			
MON.	TUE.	WED.	THU.	FRI.	SAT.	SUN.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ENTER			CANCEL			
7 MON SELECT						

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	CANCEL 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		

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 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.

6.5.1 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 decreased accordingly. There are two methods to use the silent mode:

- 1) silent mode at all time;
- 2) silent mode with a timer.

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

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

Use to select ON or OFF.

Description:

If CURRENT STATE is OFF, SILENT MODE is invalid.

When you select SILENT LEVEL, and press 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 .

If the silent TIMER is selected, Press 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 to select or unselect.

If the two timers are both unselected, the silent mode will operate at all time. Otherwise, it will operate according to the timers. You want to save energy, but prevent your house

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 frost in the winter during the outside holiday, then back to the previous running mode when the holiday is over.

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

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

Usage example: This is winter time, the current date is 2018-01-31 and, in two days, you are going away on holiday."

You want to save energy, but prevent your house from freezing.

Use  to select "OFF" or "ON".

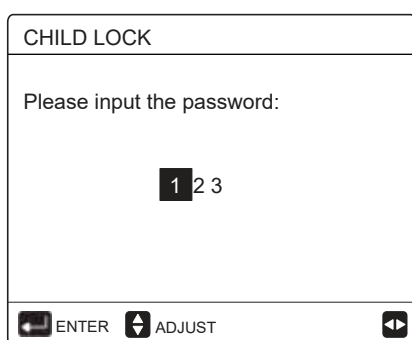
INFORMATION

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

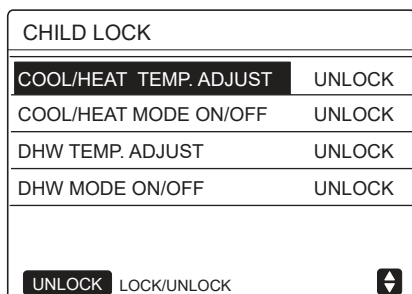
6.6 Child Lock


The CHILD Lock function is used to prevent unsupervised children operating the unit. 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:

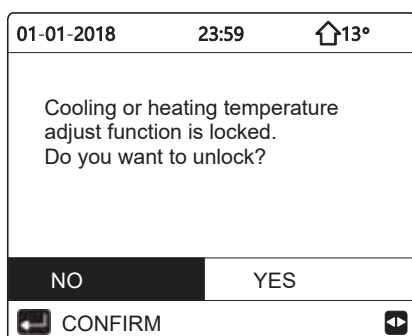


Input the current password, the following page will appear:

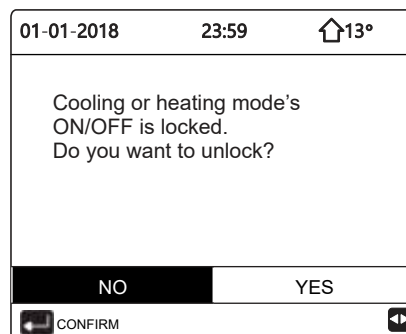


Use "▼", "▲" to scroll and  to select LOCK or UNLOCK.

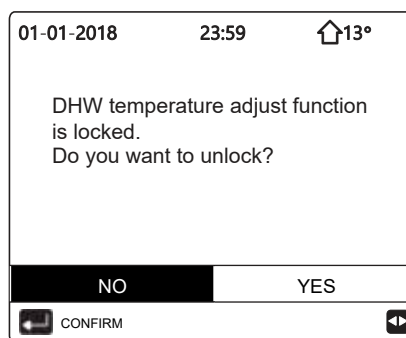
The cool/heat temperature can't be adjusted when the COOL/HEAT TEMP. ADJUST is locked. If you want to adjust the cool/heat temperature when cool/heat temperature is locked, the following page will appear:



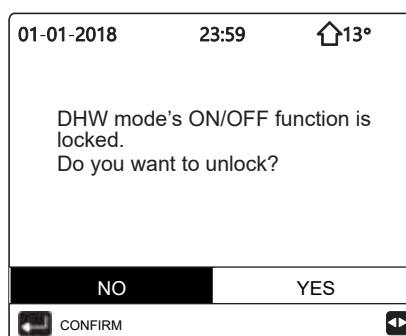
The cool/heat mode cannot turn on or off when the COOL/HEAT MODE ON/OFF is locked. If you want to turn on or off the cool/heat mode when COOL/HEAT MODE ON/OFF is locked, the following page will appear:



The DHW temperature cannot 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:



The DHW mode cannot 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:




6.7 Service information

6.7.1 About service information

Service information menu consists in the 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 . 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. *****			
MOBILE NO. *****			
▶			

It also displays the associated error code.

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

Press ◀ the page will appear:

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

Press ▶ 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		#00

i INFORMATION

A total of eight fault codes can be recorded.

The parameter function is used to display the main parameters. They are displayed on two pages:

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
ROOM SET TEMP.			26°C
MOBILE NO.			55°C
MAIN SET TEMP.			56°C
TANK SET TEMP			55°C
ROOM ACTUAL TEMP.			24°C

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
MAIN ACTUAL TEMP.			26°C
TANK ACTUAL TEMP.			55°C

The DISPLAY function is used to set the interface:

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
TIME			12:00
DATE			08-08-2018
LANGUAGE			EN
BACKLIGHT			ON
ENTER ▶			

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

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


6.8 Operation Parameter

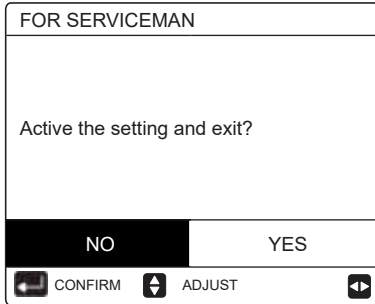
This menu is for installer or service engineer reviewing the operation parameter.


- At home page, go to "MENU" > "OPERATION PARAMETER".
- Press ◀. There are nine pages for the operating parameters, as follows. Use "▼", "▲" to scroll.
- Press ▶▶ and ◀◀ to check slave units' operation parameters in cascade system. The address code in the upper right corner will change from «#00» to «#01», «#02» etc. accordingly.

The FOR SERVICEMAN is used for installer or service engineer. Home owners are not expected to access this menu. A password protection is therefore required (password: 234).»

6.9.3 How To Exit For SERVICEMAN



If you have set all the parameters.
Press , the following page will appear:



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

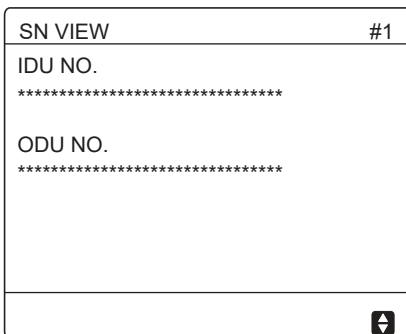
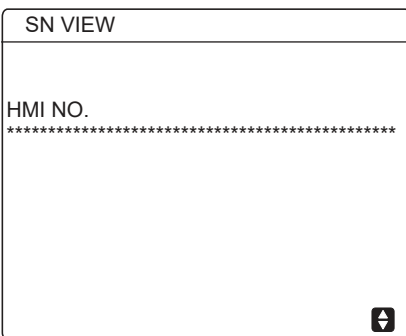
After exiting the FOR SERVICEMAN, the unit will be turned off.

6.10 Network Configuration Guidelines

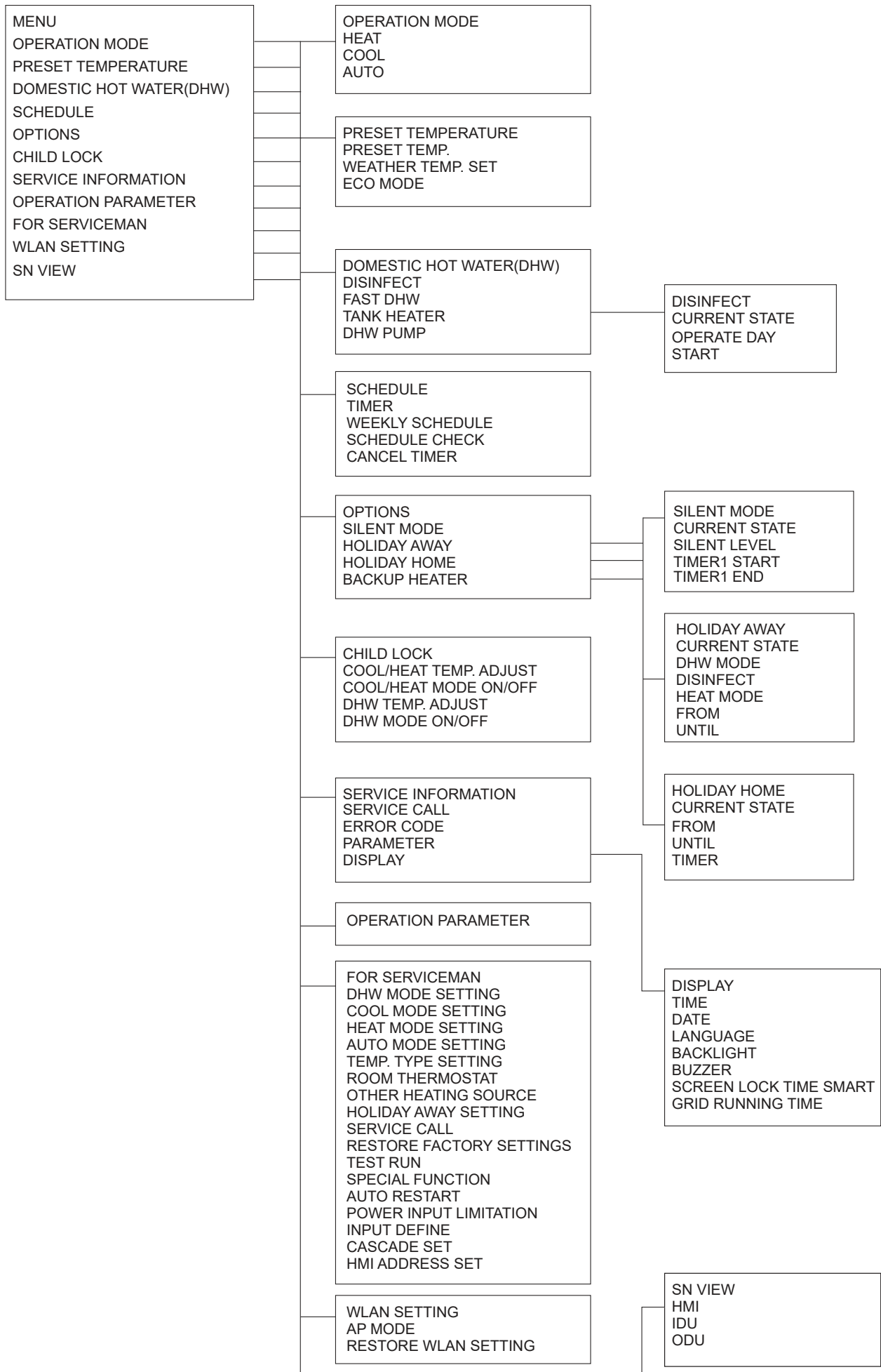
- The wired controller realizes intelligent control with a built-in module, which can receive control signal from an application. It used WLAN and can be controlled in WLAN SETTING.
- Before connecting the WLAN, please check if the router in your environment is active and make sure that the wired controller 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.

6.11 SN VIEW

SN VIEW displays the reference numbers related to the interface (HMI) and the heat pump units (IDU and ODU).



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
 16 CASCADE SET
 17 HMI ADDRESS SET
 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
 7.7 IBH LOCATE
 7.8 P_IBH1
 7.9 P_IBH2
 7.10 P_TBH

8 HOLIDAY AWAY SETTING
 8.1 T1S_H.A._H
 8.2 T5S_H.A._DHW

9 SERVICE CALL
 PHONE NO.
 MOBILE NO.

10 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(M1M2)
 15.1 M1M2
 15.2 SMART GRID
 15.3 Tw2
 15.4 Tbt1
 15.5 Tbt2
 15.6 Ta
 15.7 Ta-adj
 15.8 SOLAR INPUT
 15.9 F-PIPE LENGTH
 15.10 RT/Ta_PCB
 15.11 PUMPI SILENT MODE
 15.12 DFT1/DFT2

1 DHW MODE SETTING
 1.1 DHW MODE
 1.2 DISINFECT
 1.3 DHW PRIORITY
 1.4 PUMP_D
 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_DISINFECT
 1.15 t_DI_HIGHTEMP
 1.16 t_DI_MAX
 1.17 t_DHWHP_RESTRICT
 1.18 t_DHWHP_MAX
 1.19 PUMP_D TIMER
 1.20 PUMP_D RUNNING TIME
 1.21 PUMP_D DISINFECT 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_PUMP

16 CASCADE SET
 16.1 PER_START
 16.2 TIME_ADJUST
 16.3 ADDRESS RESET

17 HMI ADDRESS SET
 17.1 HMI SET
 17.2 HMI ADDRESS FOR BMS
 17.3 STOP BIT

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	38	37	37	37	37	37	37	36	36	36	36	36	36	35	35	35	35
2-T1S	37	37	37	37	37	36	36	36	36	36	36	35	35	35	35	35	35	34	34	34	34
3-T1S	36	36	36	35	35	35	35	35	35	34	34	34	34	34	34	33	33	33	33	33	33
4-T1S	35	35	35	34	34	34	34	34	34	33	33	33	33	33	33	32	32	32	32	32	32
5-T1S	34	34	34	33	33	33	33	33	33	32	32	32	32	32	32	31	31	31	31	31	31
6-T1S	32	32	32	32	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	30	29
7-T1S	31	31	31	31	30	30	30	30	30	30	30	30	29	29	29	29	29	29	29	29	28
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	34	34	34	34	34	34	33	33	33	33	33	33	32	32	32	32	31	31	31
2-T1S	34	34	33	33	33	33	33	33	32	32	32	32	32	32	31	31	31	31	31	31	31
3-T1S	32	32	32	32	32	32	31	31	31	31	31	31	30	30	30	30	30	30	29	29	29
4-T1S	31	31	31	31	31	31	30	30	30	30	30	30	29	29	29	29	29	29	28	28	28
5-T1S	30	30	30	30	30	30	29	29	29	29	29	29	28	28	28	28	28	28	27	27	27
6-T1S	29	29	29	29	29	29	28	28	28	28	28	28	27	27	27	27	27	27	26	26	26
7-T1S	28	28	28	28	28	28	27	27	27	27	27	27	26	26	26	26	26	26	25	25	25
8-T1S	26	26	26	26	26	26	26	25	25	25	25	25	25	25	25	24	24	24	24	24	24

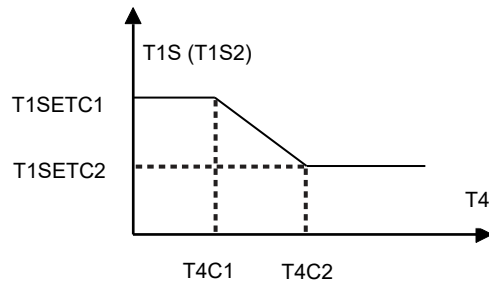
Table2 The environment temperature curve of the high temperature setting for heating

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	53	53	53	53	52	52	52	52	52	52	52	52	51	51	51	51	51	51	51	51	50
3-T1S	52	52	52	52	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	49
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	48	48	48	48	47	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	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	43	43	43	43	42	42	42	42	42	42	42	42	41	41	41	41	41	41	41	41	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	50	50	50	50	50	50	49	49	49	49	49	49	49	49	48	48	48	48	48	48
3-T1S	49	49	49	49	49	49	49	48	48	48	48	48	48	48	48	47	47	47	47	47	47
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	45	45	45	45	45	45	44	44	44	44	44	44	44	44	43	43	43	43	43	43
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	40	40	40	40	40	40	39	39	39	39	39	39	39	39	38	38	38	38	38	38
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

By choosing "WEATHER TEMP. SET TYPE: 9", you can use a personalized heating 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.

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

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

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

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

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