en

BAXI

- 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

1.1 About the documentation

- The precautions described in this document cover very important topics, follow them carefully.
- All activities described in the installation manual must be performed by an authorized installer.

1.1.1 Meaning of warnings and symbols

⚠ **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.

⏷ NOTE

- Do NOT place any objects or equipment on top of the unit.
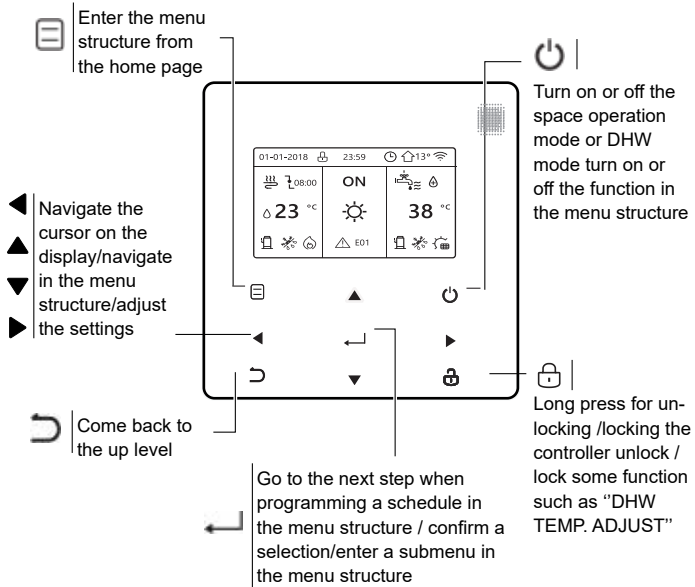- Do NOT sit, climb or stand on the unit.

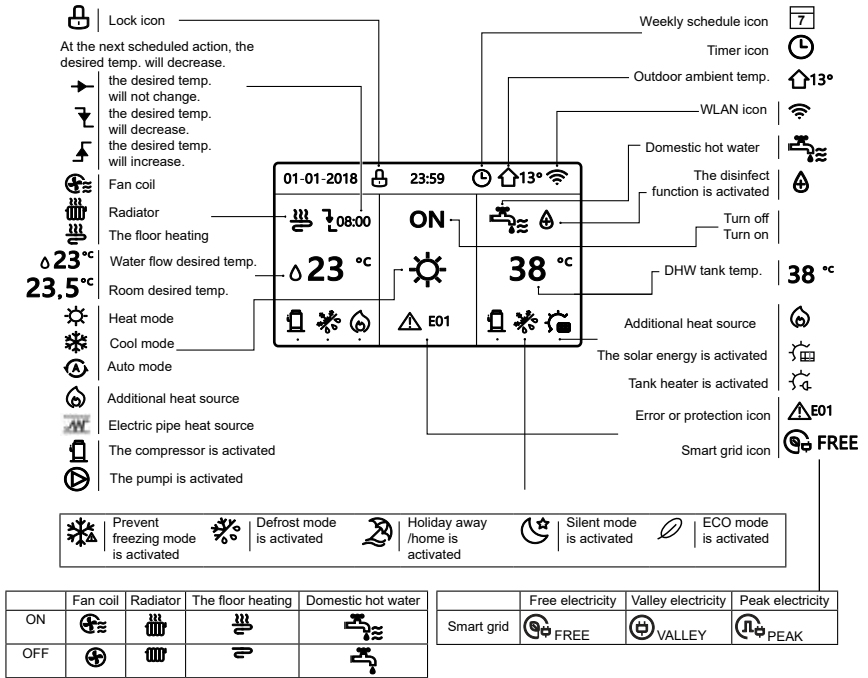- Units are marked with the following symbol:

This means that electrical and electronic products may 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.

2 A GLANCE OF THE USER INTERFACE

2.1 The appearance of the wired controller

Enter the menu structure from the home page

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

Navigate the cursor on the display/navigate in the menu structure/adjust the settings

01-01-2018   23:59   13°
08:00   ON   38 °C
23 °C
E01

Long press for un-locking /locking the controller unlock / lock some function such as ''DHW TEMP. ADJUST''

Come back to the up level

Go to the next step when programming a schedule in the menu structure / confirm a selection/enter a submenu in the menu structure

2.2 Status icons

Lock icon

At the next scheduled action, the desired temp. will decrease.

the desired temp. will not change.

the desired temp. will decrease.

the desired temp. will increase.

Fan coil

Radiator

The floor heating

23°C Water flow desired temp.

23,5°C Room desired temp.

Heat mode

Cool mode

Auto mode

Additional heat source

Electric pipe heat source

The compressor is activated

The pumpi is activated

Weekly schedule icon 7

Timer icon

Outdoor ambient temp. ⌂13°

WLAN icon

Domestic hot water

The disinfect function is activated

Turn off
Turn on

01-01-2018   23:59   ⌂13°

08:00   ON

◊ 23 °C   ☼   38 °C

☐ ❄ ◎   ⚠ E01   ☐ ❄ ☐

DHW tank temp. 38 °C

Additional heat source

The solar energy is activated

Tank heater is activated

Error or protection icon ⚠E01

Smart grid icon FREE

Prevent freezing mode is activated	Defrost mode is activated	Holiday away /home is activated	Silent mode is activated	ECO mode is activated

	Fan coil	Radiator	The floor heating	Domestic hot water
ON				
OFF				

	Free electricity	Valley electricity	Peak electricity
Smart grid	FREE	VALLEY	PEAK

4

3 USING HOME PAGES

3.1 About home pages

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

• Room desired temperature (ROOM)

• Water flow desired temperature (MAIN)

• Domestic Hot Water (DHW) tank actual temperature (TANK)

home page1

If you have set the WATER FLOW TEMP. as YES and ROOM TEMP. as NON, the system functions include floor heating and making hot water. The following page will appear:

NOTE

All the pictures in the manual are shown for explanatory purposes, the actual screens may differ.

home page2

If you have set the WATER FLOW TEMP. as NON and ROOM TEMP. as YES, the system functions include floor heating and making hot water. The following page will appear:
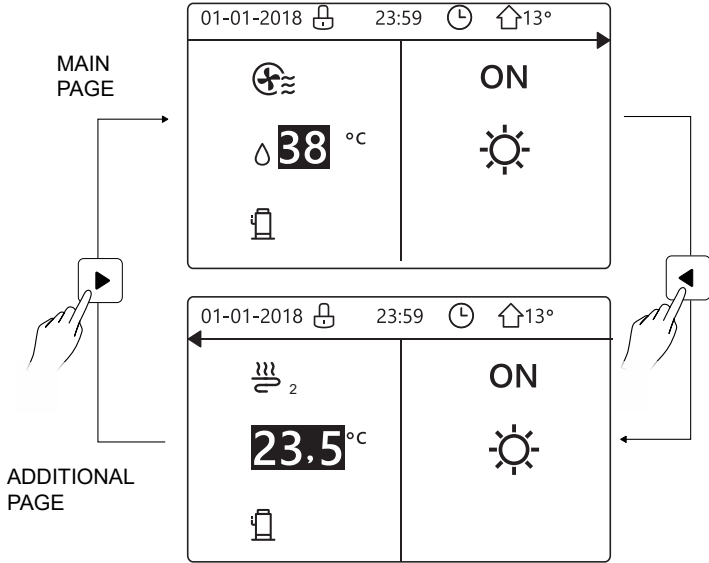
NOTE

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

home page3 :

If the DHW MODE is set NON , and if ''WATER FLOW TEMP.'' is set YES, ''ROOM TEMP.'' is set YES,There will be a main page and an additional one. The system functions include floor heating and space cooling for fan coil, home page 3 will appear:

MAIN
PAGE

ADDITIONAL
PAGE

home page4 :

If the DHW MODE is set YES. There will be a main page and an additional one. The system functions include floor heating, space cooling for fan coil and domestic hot water, home page 4 will appear:

MAIN PAGE

ADDITIONAL PAGE
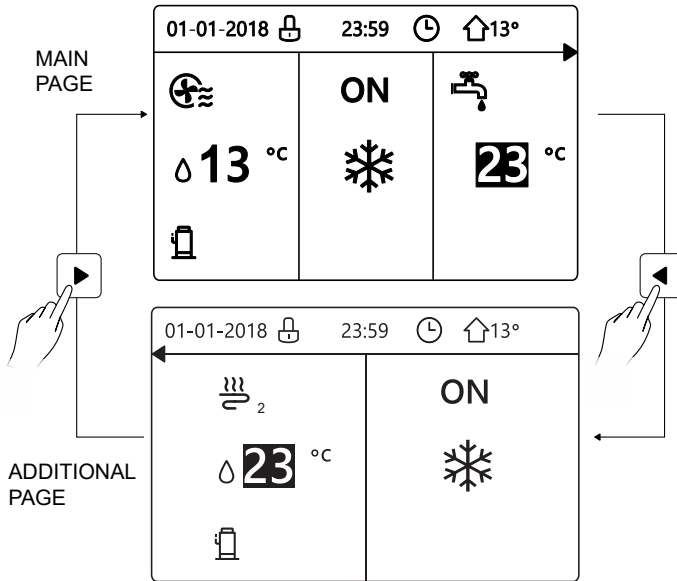
4 MENU STRUCTURE

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.

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 PARAMRTER	
FOR SERVICEMAN	
WLAN SETTING	
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	🚰
◊23 °C	☼	38 °C
🗄		
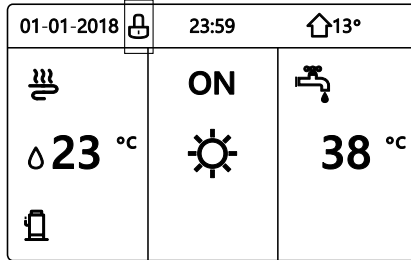
Press any key, the icon will flash. Long press the key. The icon will disappear, the interface can be controlled.

01-01-2018 🔒 —	23:59	⌂13°
♨	ON	🚰
◊23 °C	☼	38 °C
🗄		

8
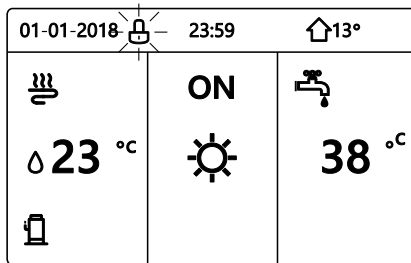
The interface will be locked if there is no handing for a long time(about 120 seconds) If the interface is unlocked, long press 🔒, the interface will be locked.

Long press 🔒

Long press 🔒
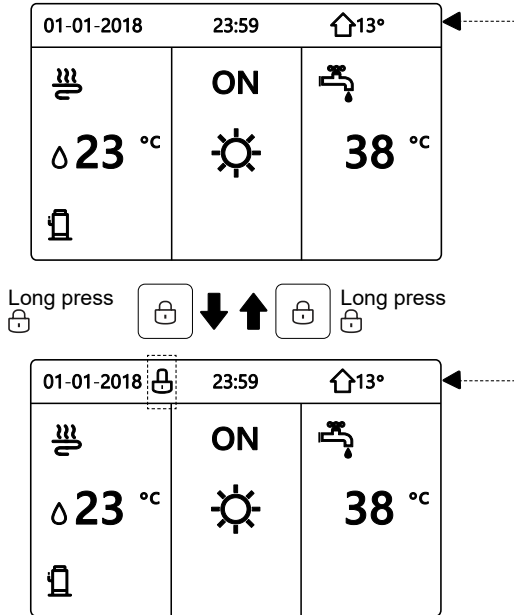
5.2 Turning ON/OFF controls

- Use the interface to turn on or off the unit for space heating or cooling. The ON/OFF of the unit can be controlled by the interface if the ROOM THERMOSTAT is NON. (See ''ROOM THERMOSTAT SETTING'' in «Installation, User and Service Manual»).
- Press ''◄ '', ''▲'' on home page,the black cursor will appear:

9
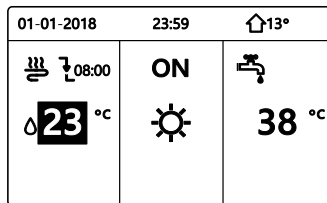
1) When the cursor is on the temperature of space operation mode side (In-cluding heat mode ❄, cool mode ☀ and auto mode (A)), press ⏻ key to turn on/off space heating or cooling.

01-01-2018	23:59	⌂13°
♨	ON	🚰
◊**23** °C	☀	38 °C

01-01-2018	23:59	⌂13°
⥯	OFF	🚰
◊**23** °C	☀	38 °C
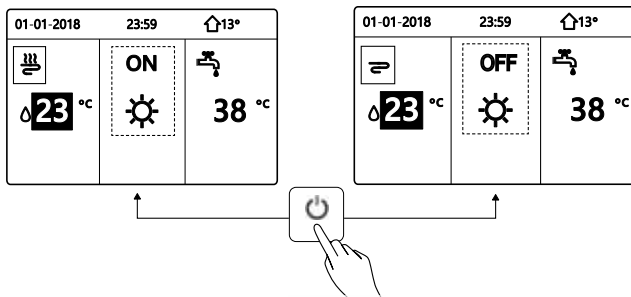
If the DHW TYPE is set NON,the following pages will display:

01-01-2018	23:59	⌂13°
♨	ON	
◊**23** °C	☀	

01-01-2018	23:59	⌂13°
⥯	OFF	
◊**23** °C	☀	
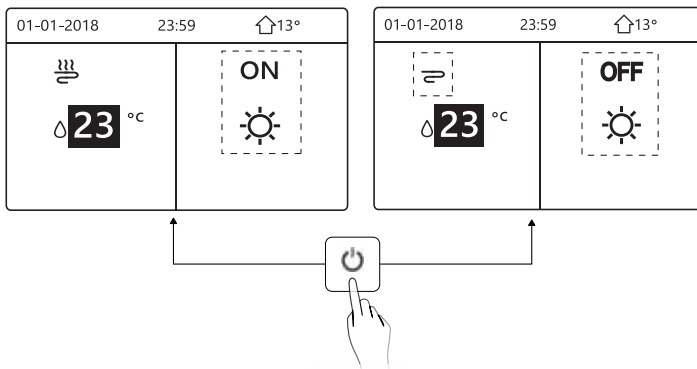
If the TEMP. TYPE is set ROOM TEMP., the following pages will display:

01-01-2018	23:59	⌂13°
♨	ON	🚰
23.5°C	☀	38 °C

01-01-2018	23:59	⌂13°
⥯	OFF	🚰
23.5°C	☀	38 °C
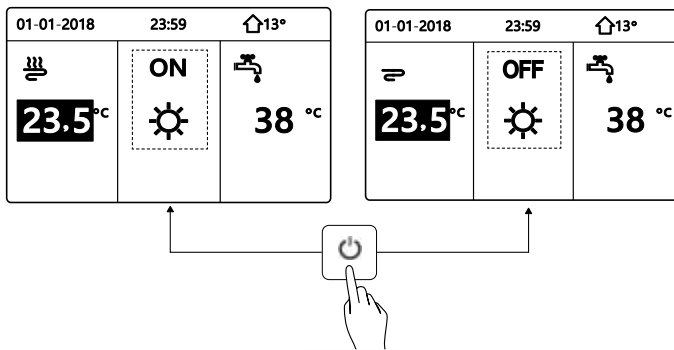
Use the room thermostat to turn on or off the unit for space heating or cooling.
① The room thermostat is set to YES(see ''ROOM THERMOSTAT SETTING'' on «Installation, User and Service Manual») the unit is turned on or off by the room thermostat, press ⏻ on the interface, the following page will display:

01-01-2018	23:59	⌂13°
Turning on or off cooling/ heating mode is controlled by the room thermostat. Please turn on or off cooling/ heating mode by the room thermostat.		
▣ CONFIRM		
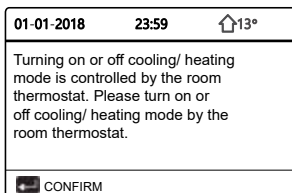
② DUAL ROOM THERMOSTAT is set YES(see ''ROOM THERMOSTAT SETTING'' in «Installation, User and Service Manual»). The room thermostat for fan coil is turned off ,the room thermostat for the floor heating is turned on,and the unit is running, but the display is OFF. The following page is displayed:

01-01-2018	23:59	⌂13°	01-01-2018	23:59	⌂13°
⊕≈	ON	🚰≈	♨ 2		ON
◊38 °C	☼	38 °C	23.5 °C		☼

01-01-2018	23:59	⌂13°	01-01-2018	23:59	⌂13°
⊕	OFF	🚰≈	⌇ 2		OFF
◊38 °C	☼	38 °C	23.5 °C		☼

11
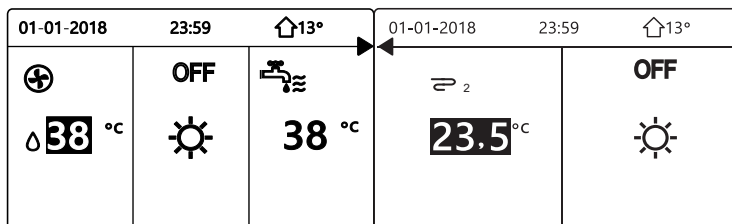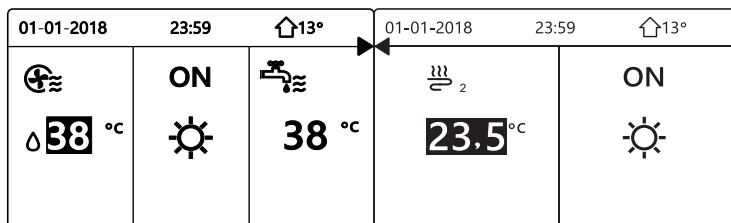
Use the interface to turn on or off the unit for DHW.Press ''►''、''▼''on home page,the black cursor will appear:

01-01-2018	23:59	⌂13°
♨ 23 °C	ON ☼	🚰 38 °C
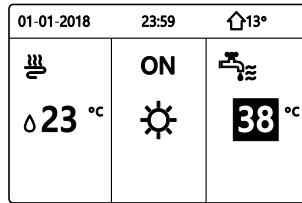
2）When the cursor is on DHW operation mode. Press ⏻ key to turn on/off the DHW mode.
If the space operation is ON,the following pages will display:

01-01-2018	23:59	⌂13°
♨ 23 °C	ON ☼	🚰 38 °C

01-01-2018	23:59	⌂13°
♨ 23 °C	ON ☼	🚰 38 °C
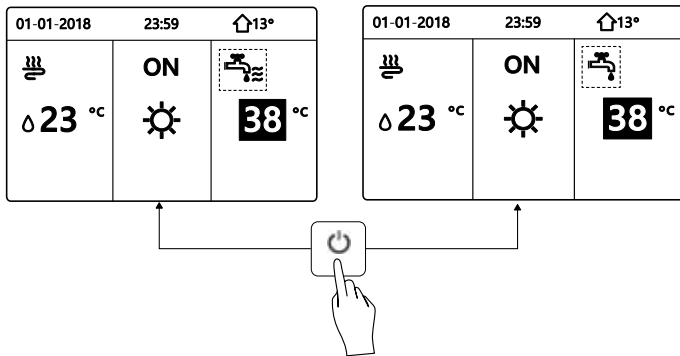
If the space operation mode is OFF,the following pages will display:

01-01-2018	23:59	⌂13°
⇌ 23 °C	ON 🚰	38 °C

01-01-2018	23:59	⌂13°
⇌ 23 °C	OFF ☼	38 °
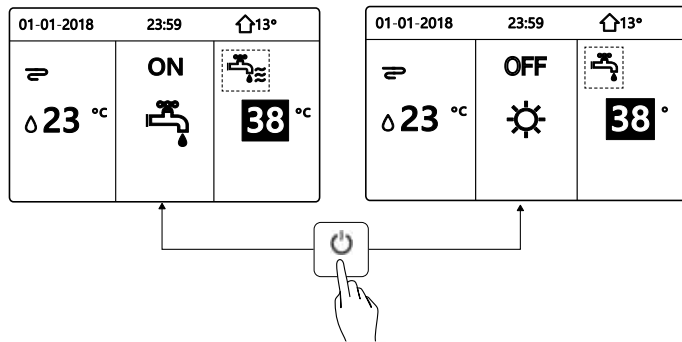
5.3 Adjusting the temperature

Press ''◄ '', ''▲'' on home page, the black cursor will appear:

01-01-2018	23:59	⌂13°
♨	ON	⌁≈
◊**23** °C	☼	**38** °C
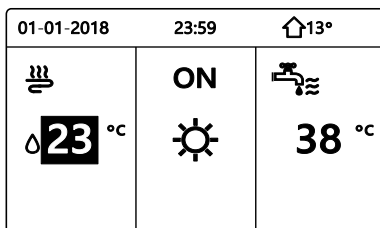
• If the cursor is on the temperature, use the ''◄'', ''►'' to select and use
''▼'', ''▲'' to adjust the temperature.

01-01-2018	23:59	⌂13° ►
♨	ON	⌁≈
◊**23** °C	☼	**38** °C

01-01-2018	23:59	⌂13° ►
♨	ON	⌁≈
◊23 °C	☼	**38** °C

13

01-01-2018　　　　23:59　　　　⬆13°

2

23.5 °C

ON

01-01-2018　　　　23:59　　　　⬆13°

23 °C

ON

38 °C

01-01-2018　　　　23:59　　　　⬆13°

15 °C

ON

38 °C
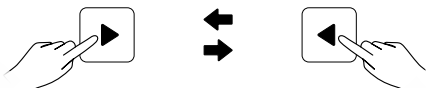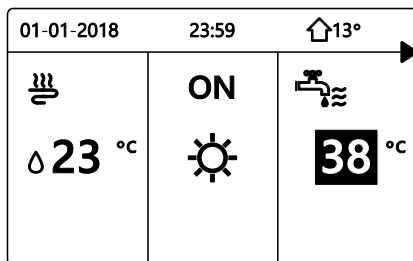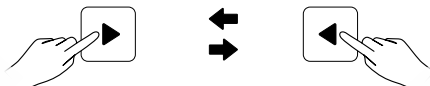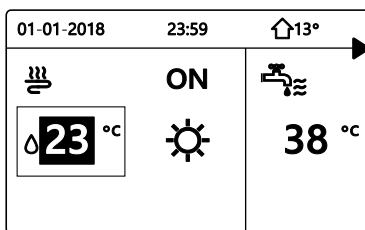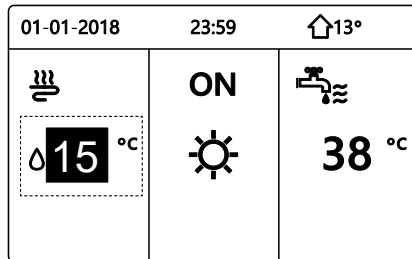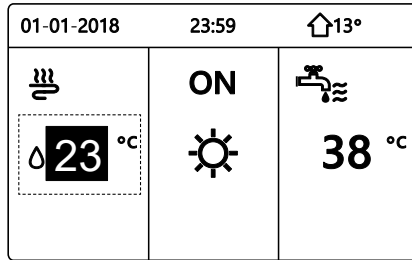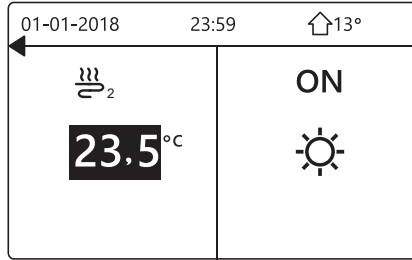
5.4 Adjusting space operation mode

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

OPERATION MODE

Operation mode setting：

HEAT　　COOL　　AUTO

⏎ CONFIRM

14
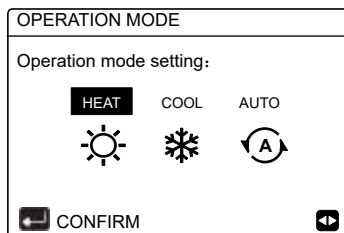
- There are three modes to be selected including HEAT, COOL and AUTO mode. Use the ''◄'', ''►'' to scroll, press ⏎ to select. Even if you don't press ⏎ button and exit the page by pressing ⤺ button, the mode would still effective if the cursor have be moved to the operation mode.

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

OPERATION MODE
Operation mode can only be set heat mode: HEAT ☼
⬛ CONFIRM

OPERATION MODE
Operation mode can only be set cool mode: COOL ❄
⬛ CONFIRM
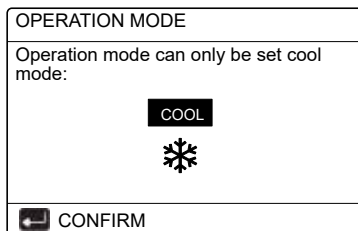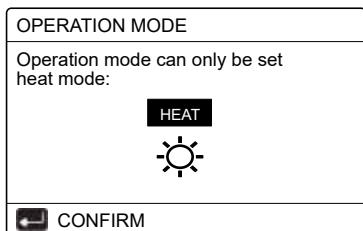
- The operation mode can not be changed see cool MODE SETTING on Installation, User and Service Manual.

If you select…	Then the space operation mode is
☼ heat	Always heating mode
❄ cool	Always cooling mode
(A) 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 following page will appear:

```
┌─────────────────────────────────────┐
│ 01-01-2018      23:59       ⌂13°     │
├─────────────────────────────────────┤
│                                      │
│ Cool/heat mode is controlled by      │
│ the room thermostat.                 │
│                                      │
│ Please adjust the operation mode by  │
│ the room thermostat.                 │
├─────────────────────────────────────┤
│  ⏎    CONFIRM                        │
└─────────────────────────────────────┘
```
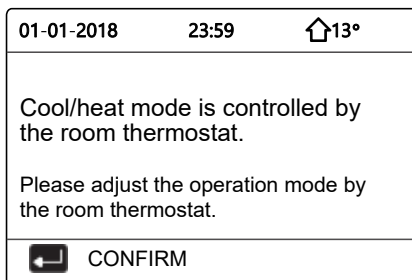
6 INSTALLATION MANUAL

6.1 Safety precaution

- Read the safety precautions carefully before installing the unit.
- Below statements are important safety issues that must be obeyed.
- Conform there is no abnormal phenomena during test operation after completion, then hand the manual to the user. Meaning of marks:

⚠ **WARNING**

Means improper handling may lead to personal death or severe injury.

⚠ **CAUTION**

Means improper handling may lead to personal injury or property loss.

⚠ WARNING

Please entrust the distributor or professionals to install the unit. Installation by other persons may lead to imperfect installation, electric shock or fire.

Strictly follow this manual.

Improper installation may lead to electric shock or fire.

Reinstallation must be performed by professionals.

improper installation may lead to electric shock or fire.

Do not disassemble your unit at will.

A random disassembly may cause abnormal operation or heating, which may result in fire.

⚠ CAUTION

Do not install the unit in a place vulnerable to leakage of flammable gases.
Once flammable gases are leaked and left around the wired controller, fire may occur.

The wiring should adapt to the wired controller current.

Otherwise, electric leakage or heating may occur and result in fire.

The specified cables shall be applied in the wiring. No external force may be applied to the terminal.

Otherwise, wire cut and heating may occur and result in fire.

Do not place the wired remote controller near heat sources*, to avoid the remote signal of the controller to be disturbed.

*fireplace, heaters, lamps, candles, direct sunlight

6.2 Other Precautions

6.2.1. Installation location

Do not install the unit in a place with much oil, steam, sulfide gas. Otherwise, the product may deform and fail.

Install in the room where the user spends most of their time, in a draught-free environment.

Check that the distance between the thermostat and the appliance does not exceed 50 meters (maximum cable length).

6.2.2 Preparation before installation

1) Check whether the following assemblies are complete.

No.	Name	Qty.	Remarks
1	Wired Controller	1	
2	Cross round head wood mounting screw	3	For Mounting on the Wall
3	Cross round head mounting screw	2	For Mounting on the Electrical Switch Box
4	Installation, User and Service Manual	1	
5	Plastic bolt	2	This accessory is used when install the centralized control inside the electric cabinet
6	Plastic expansion pipe	3	For mounting on the Wall

6.2.3 Note for installation of wired controller:

1) This installation manual contains information about the procedure of installing Wired Remote Controller. Please refer to the Installation, User and Service Manual» of the outside unit for connection between Wired Remote Controller and Indoor Unit.
2) Circuit of Wired Remote Controller is low voltage circuit. Never connect it with a standard 220V/380V circuit or put it into a same Wiring Tube with the circuit.

3) The shielded cable must be connected stable to the ground, or transmission may fail.

4) Do not attempt to extend the shielded cable by cutting, if it is necessary, use Terminal Connection Block to connect.

5) After finishing connection, do not use Megger to have the insulation check for the signal wire.

6.3 Installation procedure and matching setting of wired controller

6.3.1 Structure size figure

Figure A
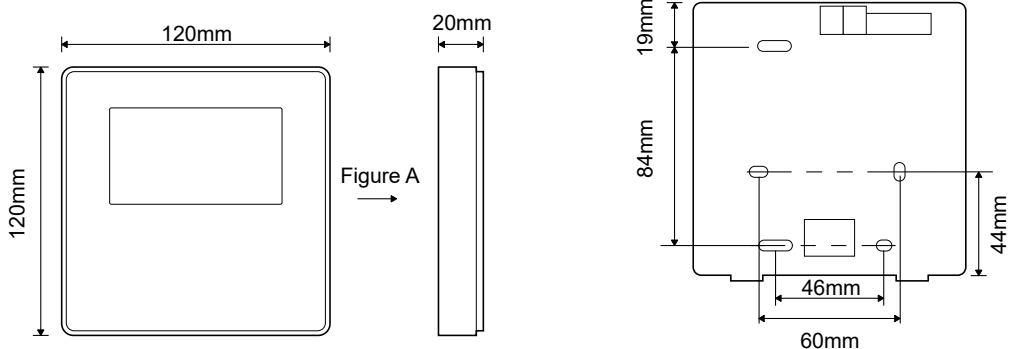
6.3.2 Wiring
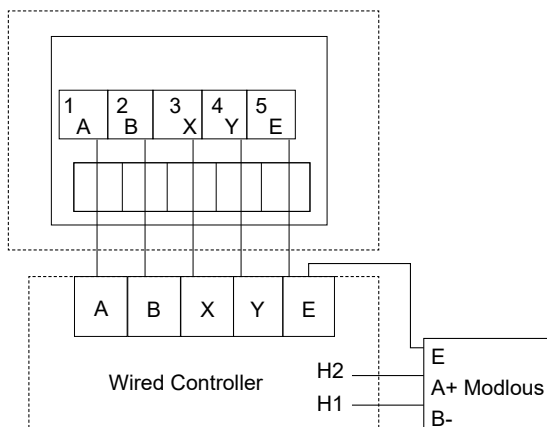
Input Voltage(A/B)	13.5VAC
Wiring size	0.75mm^2

The rotating coded switch S3(0-F) on the main control board of hydraulic module is used for set the modbus address.
By default the units have this coded switch positioned=0, but this corresponds to the modbus address 16 , while the others positions corresponds the number, e.g. pos=2 is address 2, pos=5 is address 5.

6.3.3 Back cover installation

Screw hole installed on the three M4X20

Screw hole installed on 86 Electrician box, use two M4X25

Back cover

Signal switching wires
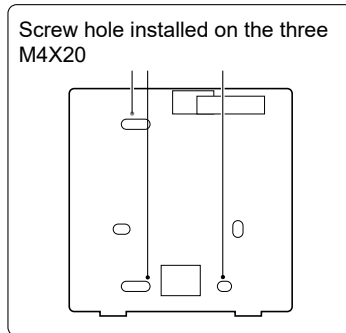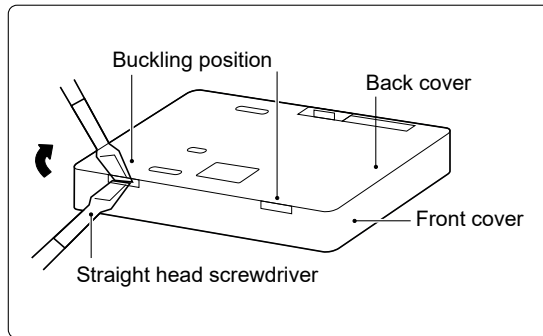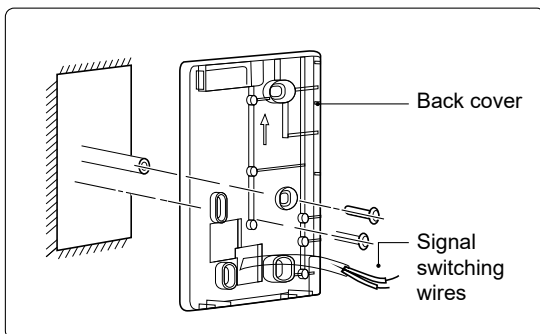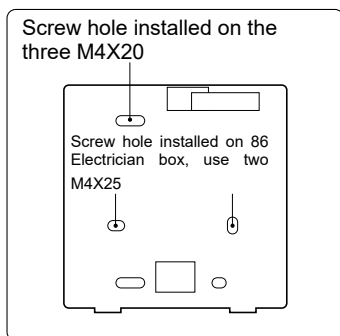
1) Use straight head screwdriver to insert in the buckling position in the bottom of wired controller, and spin the screwdriver to take down the back cover. (Pay attention to spinning direction, otherwise this will damage the back cover!)

2) Use three M4X20 screws to directly install the back cover on the wall.

3) Use two M4X25 screws to install the back cover on the 86 electrician box, and use one M4X20 screws for fixing on the wall.

4) Adjust the length of two plastic screw bars in the accessory to be standard length from the electrical box screw bar to the wall. Make sure while installing the screw bar to the wall, making it as flat as the wall.

5) Use cross head screws to fix the wired controller bottom cover in the wall through the screw bar. Make sure the wired controller bottom cover is on the same level after installation, and then install the wired controller back to the bottom cover.

6) Over fastening the screw will lead to deformation of back cover.

A

Left down side wire outlet

Cutting place of left down side wire outlet

B

Electricianbox

44mm

60mm

Wiring hole

C

Wall hole and wiring hole
Diameter： Φ8--Φ10

Putty

Trap

Putty
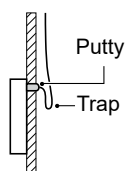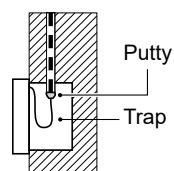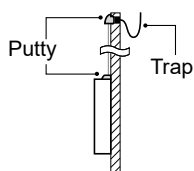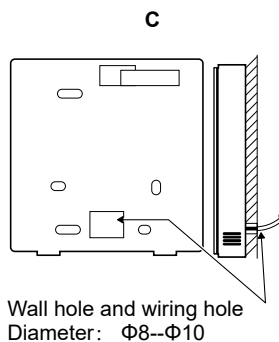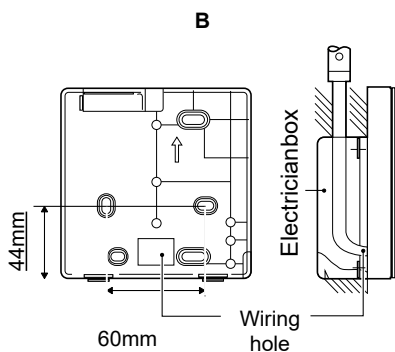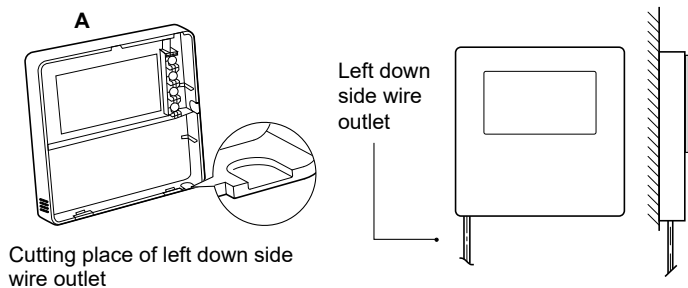
Trap

Putty

Trap

Avoid the water entering into the wired remote controller, use trap and putty to seal the connectors of wires during wiring installation.

6.4 Front cover installation

After adjusting the front cover and then buckle the front cover; avoid clamping the communication switching wire during installation.

Sensor can not be affected with damp.
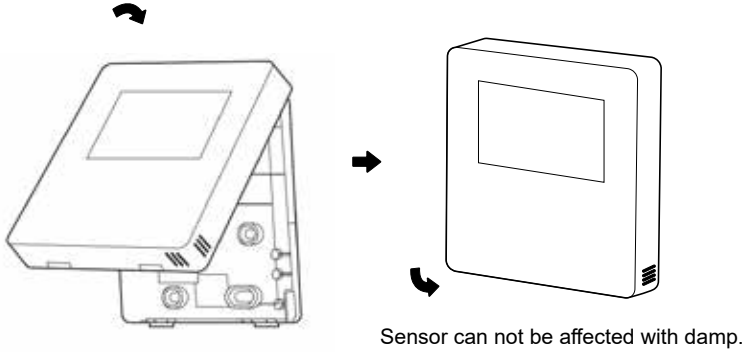
Install correctly the back cover and firmly buckle the front cover and back cover, otherwise will make the front cover drop off.
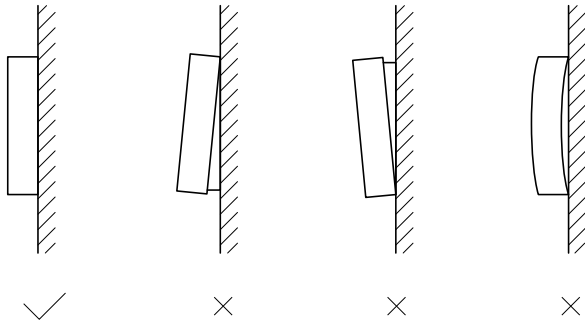
7 MODBUS MAPPING TABLE

7.1 Modbus Port Communication Specification

Port: RS-485; the wired controller XYE is the communication port for connecting with the hydraulic module. H1 and H2 are the Modbus communication ports.

Communication address: It is consistent with the DIP switch address of the hydraulic module.

Baud rate: 9600.
Number of digits: Eight
Verification: none
Stop Bit: 1 bit
Communication protocol: Modbus RTU (Modbus ASCII is not supported)

7.1.1 Mapping of registers in the wired controller

The following addresses can use 03H, 06H (write single register), 10H (write multiple register)

Register address	Description	Remarks	
0 (PLC:40001)	Power on or off.	BIT15	Reserved
		BIT14	Reserved
		BIT13	Reserved
		BIT12	Reserved
		BIT11	Reserved
		BIT10	Reserved
		BIT9	Reserved
		BIT8	Reserved
		BIT7	Reserved
		BIT6	Reserved
		BIT5	Reserved
		BIT4	Reserved
		BIT3	0:power off heat pump; 1: power on heat pump(zone 2)
		BIT2	0: DHW(T5S) power off; 1: DHW(T5S) power on
		BIT1	0:power off heat pump; 1: power on heat pump(zone 1)
		BIT0	0: power off floor heating; 1: power on floor heating

1 (PLC:40002)	Setting the mode	1: Auto; 2: Cool; 3: Heat; Others: Invalid	
2 (PLC:40003)	Setting water temperature T1s	Water temperature T1s is corresponding to the floor heating.	
3 (PLC:40004)	Setting air temperature Ts	The room temperature range is between 17°C and 30°C, and is valid when there is Ta.	
4 (PLC:40005)	T5s	The water tank temperature range is between 40°C and 60°C.	
5 (PLC:40006)	Function settin	BIT15	Reserved
		BIT14	Reserved
		BIT13	Reserved
		BIT12	1: curve setting is enabled; 0: curve setting is disabled.
		BIT11	DHW pump's running constant-temperature water recycling
		BIT10	ECO mode
		BIT9	Reserved
		BIT8	Holiday home (the status can only be read, not changed)
		BIT7	0: Silent mode level1; 1: Silent mode level2
		BIT6:	Silent mode
		BIT5:	Holiday away (the status can only be read, but cannot bechanged)
		BIT4:	Disinfect
		BIT3:	Reserved
		BIT2:	Reserved
		BIT1:	Reserved
		BIT0:	Reserved
6 (PLC:40007)	Curve selection	Curve 1-8	
7 (PLC:40008)	Forced water heating	0: Invalid	TBH is the electric water tank heater.
8 (PLC:40009)	Forced TBH	1: Forced on	IBH1 and 2 are the hydraulic module's rear electric heater.
9 (PLC:40010)	Forced IBH1	2: Forced off	IBH1 and 2 can be activated together. TBH cannot be activated together with IBH1 and 2.
10 (PLC:40011)	t_SG_MAX	0-24 Hours	

In cooling mode,T1S low temp setting range is 5~25°C;T1S high temp setting range is 18~25°C.
In heating mode,T1S low temp setting range is 22~55°C;T1S high temp setting range is 35~60°C.

7.1.2 When the wired controller is connected to the hydraulic module, the parameters of the whole unit can be checked:

Whole unit parameter mapping address table

1) Running parameters

Register address	Description	Remarks
100 (PLC:40101)	Operating frequency	Compressor operating frequency in Hz
101 (PLC:40102)	Operating Mode	Whole unit's actual operating mode, 2: cooling, 3: heating, 0: off
102 (PLC:40103)	Fan Speed	Fan speed, in r/min
103 (PLC:40104)	PMV openness	Openness of the outdoor unit's electronic expansion valve in P (only multiples of 8 are shown)
104 (PLC:40105)	Water inlet temperature	TW_in, in °C
105 (PLC:40106)	Water outlet temperature	TW_out, in °C
106 (PLC:40107)	T3 Temperature	Condenser temperature, in °C
107 (PLC:40108)	T4 Temperature	Outdoor ambient temperature in °C
108 (PLC:40109)	Discharge temperature	Compressor discharge temperature Tp in °C
109 (PLC:40110)	Return air temperature	Compressor air return temperature in °C
110 (PLC:40111)	T1	Total water outlet temperature in °C
111 (PLC:40112)	T1B	System total water outlet temperature (behind the auxiliary heater) °C

112 (PLC:40113)	T2	Refrigerant liquid side temperature in °C	
113 (PLC:40114)	T2B	Refrigerant gas side temperature in °C	
114 (PLC:40115)	Ta	Room temperature, in °C	
115 (PLC:40116)	T5	Water tank temperature	
116 (PLC:40117)	Pressure 1	Outdoor unit high pressure value, in kPA	
117 (PLC:40118)	Pressure 2	Outdoor unit low pressure value, in kPA	
118 (PLC:40119)	Outdoor unit current	Outdoor unit operating current, in A	
119 (PLC:40120)	Outdoor unit voltage	Outdoor unit voltage in V	
120 (PLC:40121)	Hydraulic module current 1	Hydraulic module current 1 in A (reserved)	
121 (PLC:40122)	Hydraulic module current 2	Hydraulic module current 2 in A (reserved)	
122 (PLC:40123)	Compressor operating time	Compressor operating time in hour	
123 (PLC:40124)	Reserved	Reserved	
124 (PLC:40125)	Current fault	Check the code table for detailed fault codes	
125 (PLC:40126)	Fault 1	Check the code table for detailed fault codes.	
126 (PLC:40127)	Fault 2		
127 (PLC:40128)	Fault 3		
128 (PLC:40129)	Status bit 1	BIT15	Reserved
		BIT14	Reserved
		BIT13	Reserved
		BIT12	Reserved
		BIT11	EUV 1:free electricity; 0:judge by SG's signal
		BIT10	SG 1:normal electricity; 0:high price electricity (judge when EUV is 0)
		BIT9	Reserved
		BIT8	Solar energy signal input
		BIT7	Room temperature controller cooling
		BIT6:	Room temperature controller heating
		BIT5:	Outdoor unit test mode mark
		BIT4:	Remote On/Off (1: d8)
		BIT3:	Oil return
		BIT2:	Anti-freezing
		BIT1:	Defrosting
		BIT0:	Reserved
129 (PLC:40130)	Load output	BIT15	DEFROST
		BIT14	External heater
		BIT13	RUN
		BIT12	ALARM
		BIT11	Solar water pump
		BIT10	HEAT4
		BIT9	SV2
		BIT8	Mixed water pump P_c
		BIT7	Water return water P_d
		BIT6:	External water pump P_o
		BIT5:	Reserved
		BIT4:	SV1
		BIT3:	Water pump PUMP_I
		BIT2:	Electric heater TBH
		BIT1:	Reserved
		BIT0:	Electric heater IBH1
130 (PLC:40131)	Whole unit version No.	1~99 is the whole unit's version number and refers to the hydraulic module's version number.	
131 (PLC:40132)	Wired controller version No.	1~99 is the wired controller's version number.	

Register address	Description	Remarks
132 (PLC:40133)	Unit target frequency	
133 (PLC:40134)	Dc bus current	In A
134 (PLC:40135)	Dc bus voltage	The actual value/10, in V
135 (PLC:40136)	TF module temperature	Feedback on outdoor unit,in °C
136 (PLC:40137)	Hydraulic module curve T1S calculated value 1	The corresponding calculated value of zone 1
137 (PLC:40138)	Hydraulic module curve T1S calculated value 2	The corresponding calculated value of zone 2
138 (PLC:40139)	Water flow	The actual value*100, in m3/H
139 (PLC:40140)	Limit scheme of outdoor unit current	Scheme value
140 (PLC:40141)	Ability of Hydraulic module	The actual value*100, in kW

2）Parameter setting

Register address	Description	Remarks		
200 (PLC:40201)	Home appliance type	The upper 8 bit is the home appliance type: Central heating: 0x07		
201 (PLC: 40202)	Temperature upper limit of T1S cooling			
202 (PLC: 40203)	Temperature lower limit of T1S cooling			
203 (PLC: 40204)	Temperature upper limit of T1S heating			
204 (PLC: 40205)	Temperature lower limit of T1S heating			
205 (PLC: 40206)	Temperature upper limit of TS setting			
206 (PLC: 40207)	Temperature lower limit of TS setting			
207 (PLC: 40208)	Temperature upper limit of water heating			
208 (PLC: 40209)	Temperature lower limit of water heating			
209 (PLC: 40210)	PUMP RUNNING TIME	DHW PUMP water return running time. It is five minutes by default and can be adjusted between 5 and 120 min at an interval of 1 min.		
210 (PLC: 40211)	Parameter setting 1	BIT15	Enable water heating	
		BIT14	Supports water tank electric heater TBH(Read-only)	
		BIT13	Supports disinfection	
		BIT12	DHW PUMP, 1: supported; 0: not supported	
		BIT11	Reserved	
		BIT10	DHW pump supports Pipe Disinfect	
		BIT9	Enable cooling	
		BIT8	T1S cooling high/low temperature settings(Read-only)	
		BIT7	Enable heating	
		BIT6:	T1S heating high/low temperature settings(Read-only)	
		BIT5:	Supports T1 sensor	
		BIT4:	Supports room temperature Sensor Ta	
		BIT3:	Supports room thermostat	
		BIT2:	Room thermostat	
		BIT1:	Dual Room Thermostat, 0: not supported; 1: supported	
		BIT0:	0: room cooling/heating first, 1: water heating first	

211 (PLC:40212)	Parameter setting 2	BIT15	Reserved
		BIT14	Reserved
		BIT13	Reserved
		BIT12	Reserved
		BIT11	Reserved
		BIT10	Reserved
		BIT9	Reserved
		BIT8	Define the port, 0=remote ON/OFF; 1=DHW heater
		BIT7	Smart grid, 0=NON; 1=YES
		BIT6:	Enable or disable the Tw2, 0=NON ; 1=YES
		BIT5:	Setting the high/low temperature of cooling mode T1S
		BIT4:	Setting the high/low temperature of heating mode T1S
		BIT3:	Double zone setting is valid
		BIT2:	Reserved
		BIT1:	Reserved
		BIT0:	Reserved
212 (PLC: 40213)	dT5_On		Default setting: 5°C, range: 2~10°C, setting interval: 1°C
213 (PLC: 40214)	dT1S5		Default setting: 10°C, range: 5~40°C, setting interval: 1°C
214 (PLC: 40215)	T_Interval_DHW		Default setting: 5 min, range: 5~30 min, setting interval: 1 min
215 (PLC: 40216)	T4DHWmax		Default setting: 43°C, range: 35~43°C, setting interval: 1°C
216 (PLC: 40217)	T4DHWmin		Default setting: -10°C, range: -25~5°C, setting interval: 1°C
217 (PLC: 40218)	t_TBH_delay		Default setting: 30 min, range: 0~240 min, setting interval: 5 min
218 (PLC: 40219)	dT5_TBH_off		Default setting: 5°C, range: 0~10°C, setting interval: 1°C
219 (PLC: 40220)	T4_TBH_on		Default setting: 5°C, range: -5~20°C, setting interval: 1°C
220 (PLC: 40221)	T5s_DI		Temperature of the disinfection water tank, range: 60~70°C, default setting: 65°C
221 (PLC: 40222)	t_DI_max		Maximum disinfection duration, range: 90~300 min, default setting: 210 min
222 (PLC: 40223)	t_DI_hightemp		Disinfection high temperature duration, range: 5~60 min, default setting: 15 min
223 (PLC: 40224)	t_interval_C		Time interval of compressor start-up in cooling mode; range: 5~30 min, default setting: 5 min
224 (PLC: 40225)	dT1SC		Default setting: 5°C, range: 2~10°C, setting interval: 1°C
225 (PLC: 40226)	dTSC		Default setting: 2°C, range: 1~10°C, setting interval: 1°C
226 (PLC: 40227)	T4cmax		Default setting: 43°C, range: 35~46°C, setting interval: 1°C
227 (PLC: 40228)	T4cmin		Default setting: 10°C, range: -5~25°C, setting interval: 1°C
228 (PLC: 40229)	t_interval_H		Time interval of compressor start-up in the heating mode; range: 5~60 min, default setting: 5 min
229 (PLC: 40230)	dT1SH		Default setting: 5°C, range: 2~10°C, setting interval: 1°C
230 (PLC: 40231)	dTSH		Default setting: 2°C, range: 1~10°C, setting interval: 1°C
231 (PLC: 40232)	T4hmax		Default setting: 25°C, range: 20~35°C, setting interval: 1°C
232 (PLC: 40233)	T4hmin		Default setting: -15°C, range: -25~5°C, setting interval: 1°C
233 (PLC: 40234)	T4_IBH_on		Ambient temperature for enabling the hydraulic module auxiliary electric heating IBH, range: -15~10°C; default setting: -5°C
234 (PLC: 40235)	dT1_IBH_on		Temperature return difference for enabling the hydraulic module auxiliary electric heating IBH, range: 2~10°C; default setting: 5°C
235 (PLC: 40236)	t_IBH_delay		Delay time of enabling the hydraulic module auxiliary electric heating IBH, range: 15~120 min; default setting: 30 min

237 (PLC: 40238)	T4_AHS_on	Ambient temperature for enabling the external heater AHS, range: -15~10°C, setting interval: -5°C
238 (PLC: 40239)	dT1_AHS_on	Temperature return difference for enabling the external heater AHS, range: 2~10°C; default setting: 5°C
240 (PLC: 40241)	t_AHS_delay	Delay time for enabling the external heater AHS, range: 5~120 min; default setting: 30 min
241 (PLC: 40242)	t_DHWHP_max	Longest duration of water heating by the heat pump, range: 10~600 min, default setting: 120 min;
242 (PLC: 40243)	t_DHWHP_restrict	Duration of limited water heating by the heat pump, range: 10~600 min, default setting: 30 min;
243 (PLC: 40244)	T4autocmin	Default setting: 25°C, range: 20~29°C, setting interval: 1°C
244 (PLC: 40245)	T4autohmax	Default setting: 17°C, range: 10~17°C, setting interval: 1°C
245 (PLC: 40246)	T1S_H.A_H	In the holiday mode, setting of T1 in the heating mode, range: 20~25°C, default setting: 25°C
246 (PLC: 40247)	T5S_H.A_DHW	In the holiday mode, setting of T1 in the water heating mode, range: 20~25°C, default setting: 25°C
247 (PLC: 40248)	ECO parameter	Reserved, wrong address is reported when this register is queried
248 (PLC: 40249)	ECO parameter	Reserved, wrong address is reported when this register is queried
249 (PLC: 40250)	ECO parameter	Reserved, wrong address is reported when this register is queried
250 (P LC:40251)	ECO parameter	Reserved, wrong address is reported when this register is queried
251 (PLC: 40252)	Comfort parameter	Reserved, wrong address is reported when this register is queried
252 (P LC:40253)	Comfort parameter	Reserved, wrong address is reported when this register is queried
253 (PLC: 40254)	Comfort parameter	Reserved, wrong address is reported when this register is queried
254 (P LC:40255)	Comfort parameter	Reserved, wrong address is reported when this register is queried
255 (PLC: 40256)	t_DRYUP	Temperature rise day number, range: 4~15 days, default setting: 8 days
256 (PLC: 40257)	t_HIGHPEAK	Drying day number, range: 3~7 days, default setting: 5 days
257 (PLC: 40258)	t_DRYD	Temperature drop day number, range: 4~15 days, default setting: 5 days
258 (PLC: 40259)	T_DRYPEAK	Highest drying temperature, range: 30~55°C, default setting: 45°C
259 (PLC: 40260)	t_firstFH	Running time of floor heating for the first time, default setting: 72 hrs, range: 48-96 hrs
260 (PLC: 40261)	T1S (first floor heating)	T1S of floor heating for the first time, range: 25~35°C, default setting: 25°C

261 (PLC: 40262)	T1SetC1	Parameter of the ninth temperature curves for cooling mode, range:5~25°C, default setting: 10°C;
262 (PLC: 40263)	T1SetC2	Parameter of the ninth temperature curves for cooling mode, range:5~25°C, default setting: 16°C;
263 (PLC: 40264)	T4C1	Parameter of the ninth temperature curves for cooling mode, range: (-5)~46°C, default setting: 35°C;
264 (PLC: 40265)	T4C2	Parameter of the ninth temperature curves for cooling mode, range: (-5)~46°C, default setting: 25°C;
265 (PLC: 40266)	T1SetH1	Parameter of the ninth temperature curves for cooling mode, range:25~60°C, default setting: 35°C;
266 (PLC: 40267)	T1SetH2	Parameter of the ninth temperature curves for cooling mode, range:25~60°C, default setting: 28°C;
267 (PLC: 40268)	T4H1	Parameter of the ninth temperature curves for cooling mode, range: (-25)~30°C, default setting: -5°C;
268 (PLC: 40269)	T4H2	Parameter of the ninth temperature curves for cooling mode, range: (-25)~30°C, default setting: 7°C;

269 (PLC: 40270)		The type of power input limitation, 0=NON, 1~8=type 1~8, default:0
270 (P LC: 40271)	HB:t_T4_FRESH_C	range:0.5~6 hour, setting interval:0.5 hour, sending value=actural value*2
	LB:t_T4_FRESH_H	range:0.5~6 hour, setting interval:0.5 hour, sending value=actural value*2
271 (PLC: 40272)	T_PUMPI_DELAY	range:2~20 hour, setting interval:0.5 hour, sending value=actural value*2:
272 (PLC: 40273)	EMISSION TYPE	Bit12-15: The type of zone 2 end for cooling mode
		Bit8-11: The type of zone 1 end for cooling mode
		Bit4-7: The type of zone 2 end for heating mode
		Bit0-3: The type of zone 1 end for heating mode

7.1.3 Code table

Error code	Value	Content
E0	1	Water flow fault(E8 displayed 3 times)
E1	2	Phase loss or neutral wire and live wire are connected reversely(only for three phase unit)
E2	3	Communication fault between controller and hydraulic module
E3	4	Final outlet water temp. sensor(T1) fault
E4	5	Water tank temp. sensor(T5) fault
E5	6	The condenser outlet refrigerant temperature sensor(T3) fault
E6	7	The ambient temperature sensor(T4) fault
E7	8	Buffer tank up temp. sensor(Tbt1) fault
E8	9	Water flow failure
E9	10	Suction temp. sensor (Th) fault
EA	11	Discharge temp. sensor (Tp) fault
Eb	12	Solar temp. sensor(Tsolar) fault
Ec	13	Buffer tank low temp. sensor(Tbt2) fault
Ed	14	Inlet water temp. sensor(Tw_in) malfunction
EE	15	Hydraulic module EEprom failure
P0	20	Low pressure switch protection
P1	21	High pressure switch protection
P3	23	Compressor overcurrent protection
P4	24	High discharge temperature protection
P5	25	|Tw_out - Tw_in| value too big protection
P6	26	Inverter module protection
Pb	31	Anti-freeze mode
Pd	33	High temperature protection of refrigerant outlet temp. of condenser
PP	38	Tw_out - Tw_in unusual protection
H0	39	Communication fault between main board PCB B and main control board of hydraulic module
H1	40	Communication fault between inverter module PCB A and main control board PCB B
H2	41	Refrigerant liquid temp. sensor(T2) fault
H3	42	Refrigerant gas temp. sensor(T2B) fault
H4	43	Three times L0/L1 protection
H5	44	Room temo. sensor (Ta) fault
H6	45	DC fan motor fault
H7	46	Voltage protection

Error code	Value	Content
H8	47	Pressure sensor fault
H9	48	Outlet water for zone 2 temp. sensor(Tw2) fault
HA	49	Outlet water temp. sensor(Tw_out) fault
Hb	50	3 times PP protection and Tw_out<7℃
Hd	52	Communication fault between hydraulic module parallel
HE	53	Communication error between main board and thermostat transfer board
HF	54	Inverter module board EE PROM fault
HH	55	H6 display 10 times in 2 hours
HP	57	Low pressure protection (Pe<0.6) occurred 3 times in 1 hour
C7	65	Transducer module temperature too high protection
bH	112	PED PCB fault
F1	116	Low DC generatrix voltage protection
L0	134	Module protection
L1	135	DC generatrix low voltage protection
L2	136	DC generatrix high voltage protection
L4	138	MCE fault
L5	139	Zero speed protection
L7	141	Phase sequence fault
L8	142	Speed difference > 15Hz protection between the front and the back clock
L9	143	Speed difference > 15Hz protection between the real and the setting speed

BAXI

For United Kingdom
www.baxi.co.uk
0344 871 1545

For Ireland
www.baxipottertonmyson.ie
00353 (0)1 4590870

Baxi, Brooks House
Coventry Road, Warwick, CV34 4LL.

Baxi Potterton Myson
Unit F 5&6, Calmount Park, Calmount Road,
Ballymount , Dublin 12, Ireland.

$C\epsilon$