Airwell

OPERATION MANUAL

MONOBLOC R32

Wired Controller

COMFORT CONTROL

MENU ▲ ON/OFF

◀ OK ▶

BACK ▼ UNLOCK
(LONG PRESS)
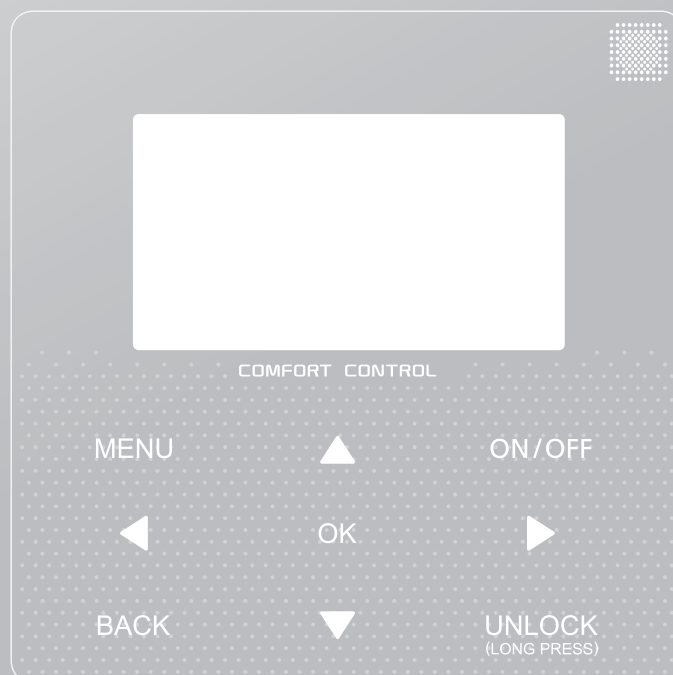
Thank you very much for purchasing our product,
Before using your unit , please read this manual carefully and keep it for future reference.

- This manual gives detailed description of the precautions that should be brought to your attention during operation.

- In order to ensure correct service of the wired controller please read this manual carefully before using the unit.

- For convenience of future reference, keep this manual after reading it.

CONTENTS

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1 GENERAL SAFETY PRECAUTIONS

1.1 About the documentation

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

⚠ 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.

ℹ INFORMATION

Indicates useful tips or additional information.

1.2 For the user

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

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

⚠ 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

MENU | Enter the menu structure from the home page

ON/OFF | Turn on or off the space operation mode or DHW mode turn on or off the function in the menu structure

COMFORT CONTROL

MENU   ON/OFF

OK

BACK   UNLOCK
                        (LONG PRESS)

◀ ▲ ▼ ▶ | Navigate the cursor on the display/navigate in the menu structure/adjust the settings

BACK | Come back to the up level

UNLOCK (LONG PRESS) | Long press for unlocking /locking the controller unlock /lock some function such as "TANK" temp. adjusting"

OK | 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

The disinfect function is activated

Holiday away/home is activated

Silent mode is activated

Backup heater is activated

The compressor is activated

Shut off

Heat mode

Cool mode

Auto mode

Mode is operating

SET | Desired temp.

Prevent freezing icon

THE AHS (additional heating source such as gas boiler) is activated

Timer icon

A malfunction occured

Lock icon

21: 55   08 - 08 - 2015 SAT.

MAIN ☀ ON   DHW 🚿 ON

SET   27 ℃   TANK 55 ℃

08 : 30

DHW mode

Tank temp. | ℃

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

▶ the desired temp. will not change.

⌐ the desired temp. will decrease.

∟ the desired temp. will increase.

ECO mode is activated | Tank heater is activated | Defrost mode is activated | The solar energy is activated | Weekly schedule

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

home page1 :

If the WATER FLOW TEMP. is set YES and ROOM TEMP. is set NON.(See FOR SERVICEMAN TEMPERATURE TYPE SETTING on installation and ower's manual). There will be only main page. The system has the function including floor heating and domestic water, home page 1 will appear:
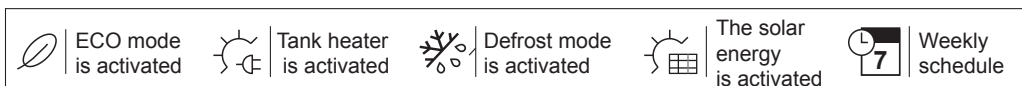

the system layout 1
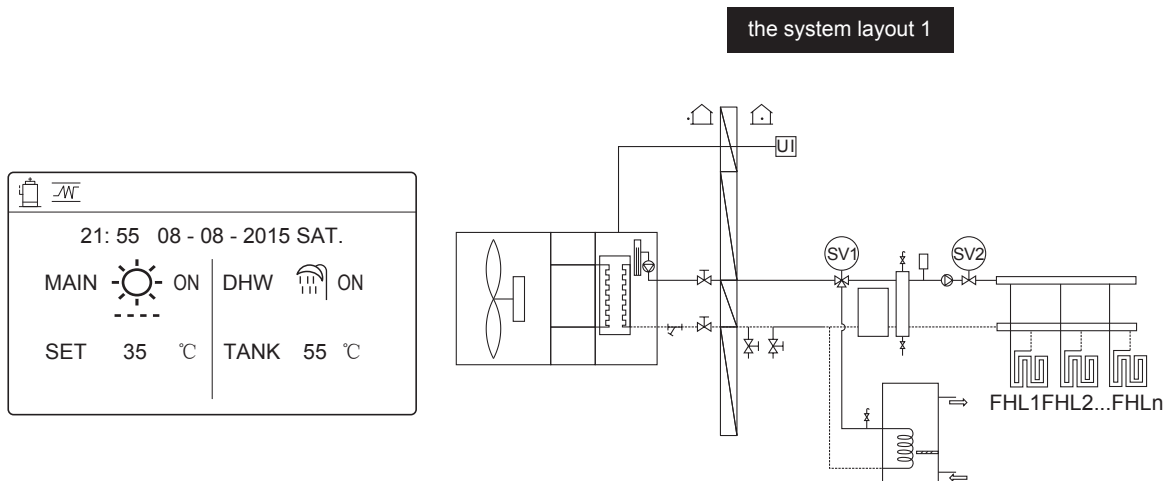
NOTE

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

home page2 :

If set the WATER FLOW TEMP. is set NON and ROOM TEMP. is set YES(See FOR SERVICEMAN TEMPERATURE TYPE SETTING on installation and ower's manual). There will be only main page. The system has the function including floor heating and domestic hot water, home page 2 will appear:

the system layout 2
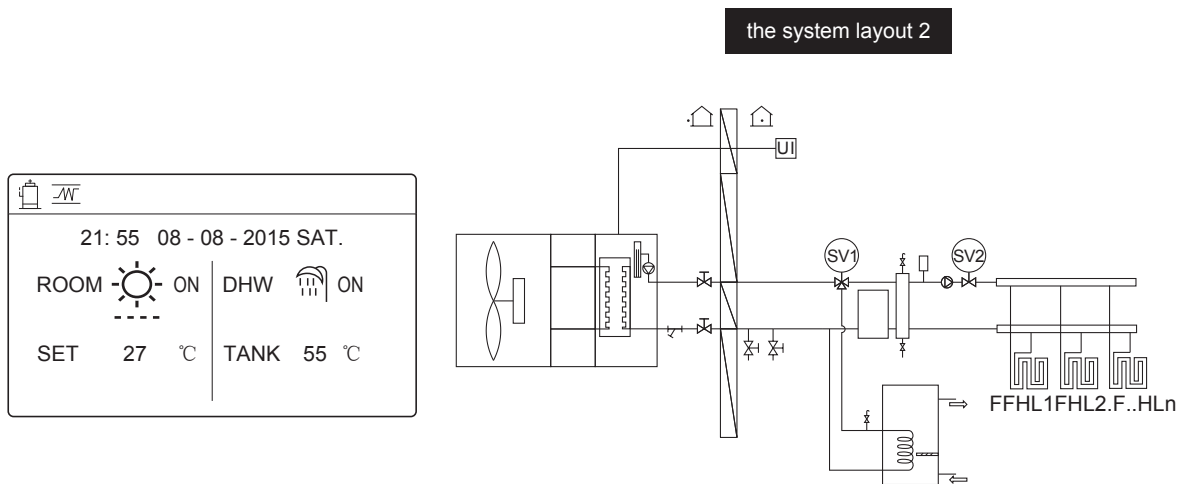
NOTE

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

home page3：

If the WATER FLOW TEMP. is set YES and ROOM TEMP. is set YES(See FOR SERVICEMAN TEMPERATURE TYPE SETTING on installation and ower's manual) . There will be main page and additional page. The system has the function including floor heating and space cooling for fan coil, home page 3 will appear:

21: 55   08 - 08 - 2015 SAT.

MAIN -☼- ON
- - - -
SET   45 ℃

Main page

21: 55   08 - 08 - 2015 SAT.

ROOM -☼- ON
- - - -
SET   24 ℃

Addition page

the system layout 3

FCU1FCU2...FCUn

SV2

FHL1FHL2...FHLn
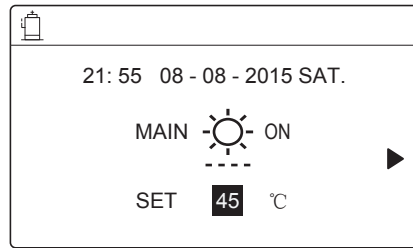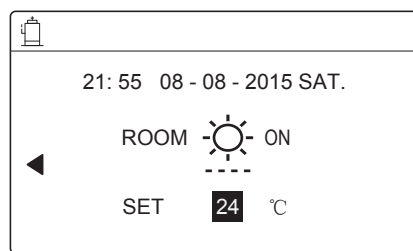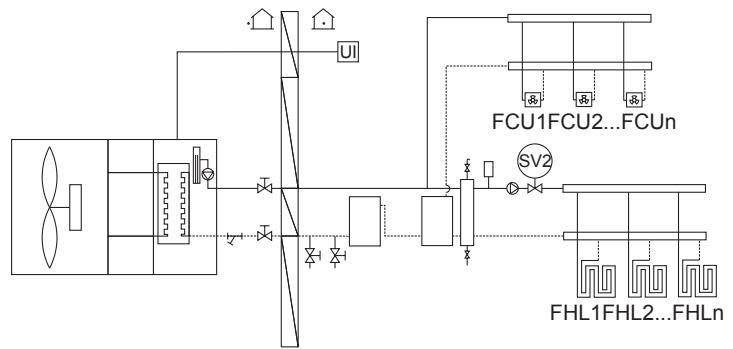
home page4 ：

If the WATER FLOW TEMP. is set YES and ROOM TEMP. is set YES. There will be main page and addition page. The system has the function including floor heating, space cooling for fan coil and domestic hot water, home page 4 will appear:

21: 55   08 - 08 - 2015 SAT.

MAIN ❄ ON   DHW ⌂ ON
- - - -
SET   12 ℃   TANK 55 ℃

Main page

21: 55   08 - 08 - 2015 SAT.

ROOM ❄ ON
- - - -
SET   24 ℃

Addition page

the system layout 4

FCU1FCU2...FCUn

SV1   SV2

FHL1FHL2...FHLn

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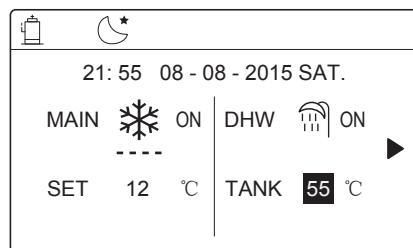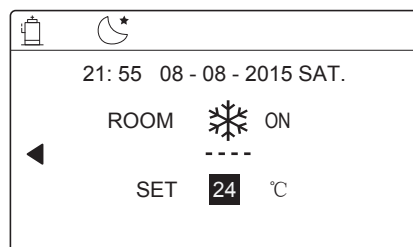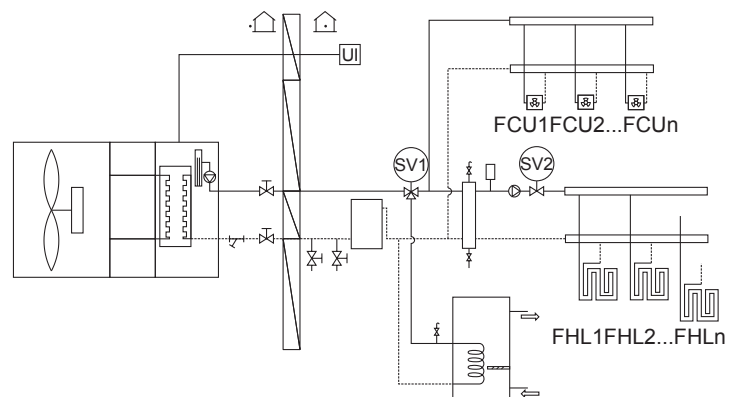
4 INFORMATION

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 strcture

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

```
MENU
OPERATE MODE
PRESET TEMPERATURE
DOMESTIC HOT WATER(DHW)
SCHEDULE
OPTIONS
CHILD LOCK

OK  ENTER    ◀▶ SCROLL           1/2
```

```
MENU
SERVICE INFORMATION
OPERATION PARAMRTER
FOR SERVICEMAN




OK  ENTER    ◀▶ SCROLL           2/2
```
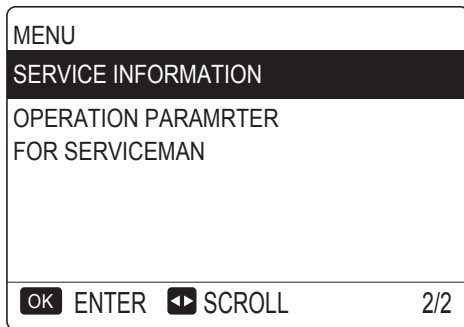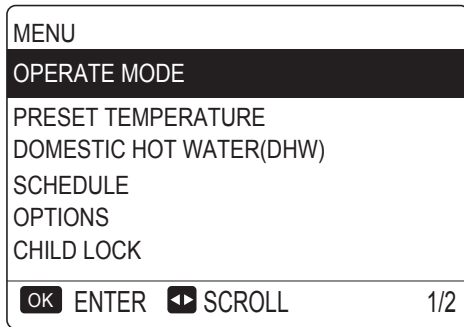
4.3 To navigate in the menu structure

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:

```
                                      
         21: 55  08 - 08 - 2015 SAT.
    MAIN  ⊗  OFF │ DHW  ON
                 │        - - - -      ▶
    SET    18  ℃ │ TANK   55  ℃
```
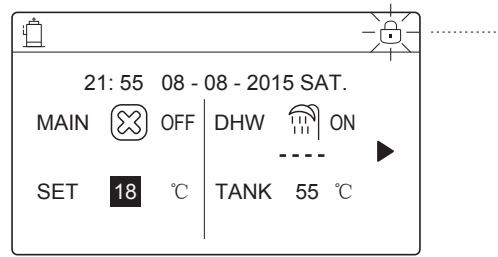
Press any key, the icon 🔒 will flash. Long press the "UNLOCK" key. The icon 🔒 will disappear, the interface can be controlled.

```
                                    🔒
         21: 55  08 - 08 - 2015 SAT.
    MAIN  ⊗  OFF │ DHW  ON
                 │        - - - -      ▶
    SET    18  ℃ │ TANK   55  ℃
```
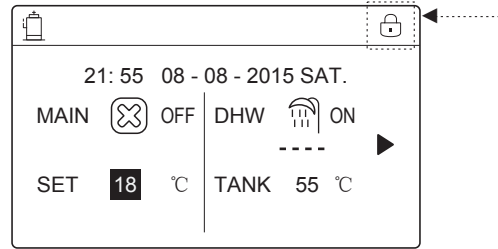
The interface will be locked if there is no handing for a long time(about 60 seconds:it can be set by the interface, see 6.7 SERVICE INFORMATION.)

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

```
                                      
         21: 55  08 - 08 - 2015 SAT.
    MAIN  ⊗  OFF │ DHW  ON
                 │        - - - -      ▶
    SET    18  ℃ │ TANK   55  ℃
```

Long press   Long press
UNLOCK UNLOCK ⬇ ⬆ UNLOCK UNLOCK

```
                                    🔒
         21: 55  08 - 08 - 2015 SAT.
    MAIN  ⊗  OFF │ DHW  ON
                 │        - - - -      ▶
    SET    18  ℃ │ TANK   55  ℃
```
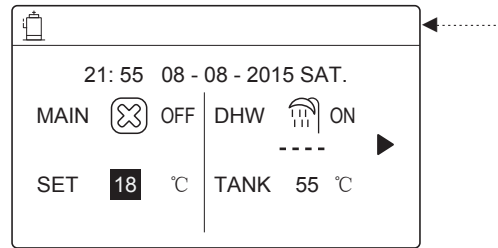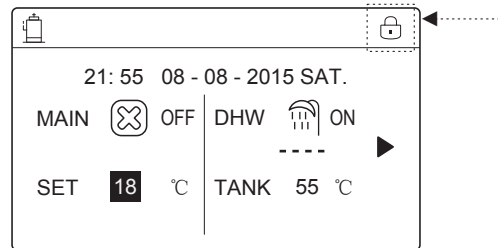
5.2 Turning ON/OFF controls

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 TEHERMOSTAT is NON.(see ROOM THERMOSTAT SETTING on INSTALLATION AND OWNER'S MANUAL)

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

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```
        21: 55   08 - 08 - 2015 SAT.

  MAIN  ❄  ON  │ DHW  🚿 ON
                │                    ▶
  SET  [18] ℃  │ TANK   55  ℃
```
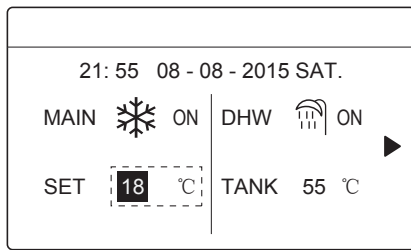
1) When the cursor is on space operation mode side (Including heat mode ☀ , cool mode ❄ and auto mode Ⓐ), press "ON/OFF" key to turn on/off the operation mode .

```
        21: 55   08 - 08 - 2015 SAT.

  MAIN  ┆❄┆ ON │ DHW  🚿 ON
         └┄┄┄┘  │                    ▶
  SET  [18]  ℃  │ TANK   55  ℃
```

[ON/OFF] ⬇ ⬆ [ON/OFF]

```
        21: 55   08 - 08 - 2015 SAT.

  MAIN  ┆⊗┆ OFF │ DHW  🚿 ON
         └┄┄┄┘  │                   ▶
  SET  [18]  ℃  │ TANK   55  ℃
```

```
   🛢       🌙★
        21: 55   08 - 08 - 2015 SAT.

          MAIN  ┆❄┆ ON
◀               └┄┄┄┘
          SET  [18]  ℃
```

[ON/OFF] ⬇ ⬆ [ON/OFF]

```
   🛢       🌙★
        21: 55   08 - 08 - 2015 SAT.

          MAIN  ┆⊗┆ OFF
◀               └┄┄┄┘
          SET  [18]  ℃
```

```
   🛢       🌙★
        21: 55   08 - 08 - 2015 SAT.

          ROOM  ┆❄┆ ON
◀               └┄┄┄┘
          SET  [18]  ℃
```

[ON/OFF] ⬇ ⬆ [ON/OFF]

```
   🛢       🌙★
        21: 55   08 - 08 - 2015 SAT.

          ROOM  ┆⊗┆ OFF
◀               └┄┄┄┘
          SET  [18]  ℃
```
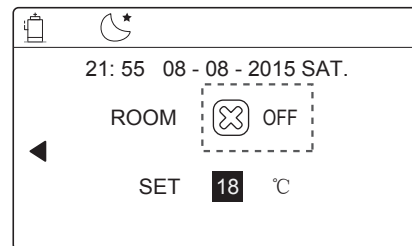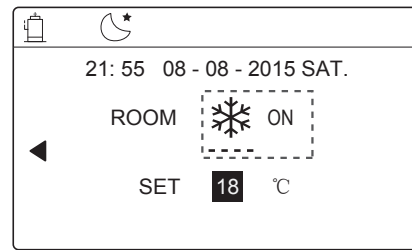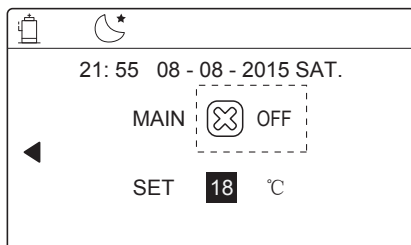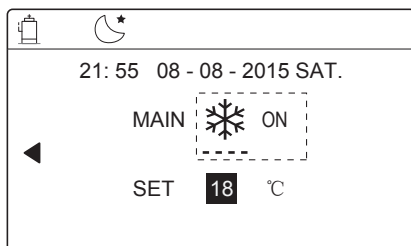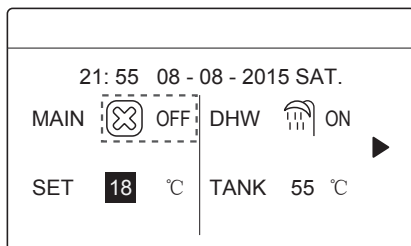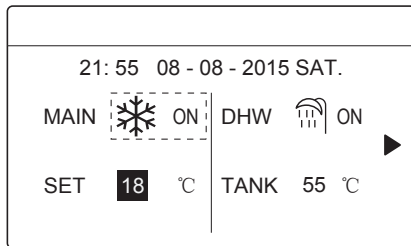
Use the room thermostat to turn on or off the unit for space heating or cooling.

① The room thermostat is SET YES(see ROOM THERMOSAT on installation and ower's manual) the unit is turned on or off by the room thermostat， press on/off on the interface, the following page will display:

```
        22: 20   22 - 08 - 2018 SAT.
  Cool/heat mode is controlled by
  the room thermostat.
  The cool or heat mode is closed.
  Please open the mode by the room
  thermostat.

  [OK] CONFIRM
```
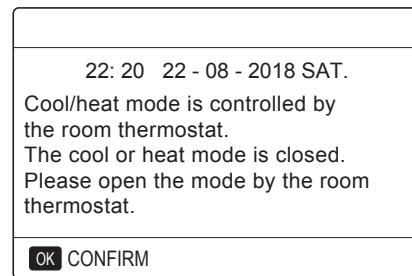
② DUAL ROOM THERMOSTAT is set YES(see ROOM THERMOSTAT SETTING on INSTALLATION AND OWNER'S MANUAL). The room thermostat for fan coil is turned off, the room thermostat for the floor heating is turned on, and the unit is running, but the display is OFF. The following page is displayed:

```
   🛢
        21: 55   08 - 08 - 2015 SAT.

  MAIN  ⊗  OFF │ DHW  ⊗ ON

  SET  [18]  ℃ │ TANK   55  ℃

  [ON/OFF] ON/OFF  ⬍ADJUST  ◄►SCROLL
```
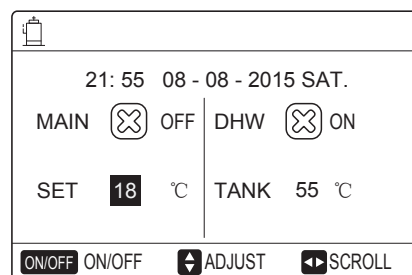
Use the interface to turn on or off the unit for DHW.Press "▶"、"▼"on home page, the black cursor will appear:

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```
21: 55  08 - 08 - 2015 SAT.

MAIN  (A)  ON  │ DHW  🚿  ON
                │                    ▶
SET    12  ℃   │ TANK   55  ℃
```
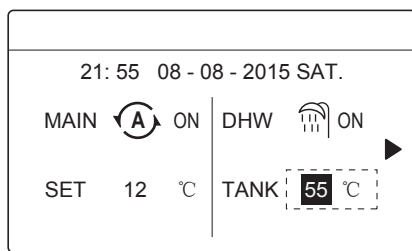
2）When the cursor is on DHW operation mode. Press "ON/OFF" key to turn on/off the DHW mode.

```
21: 55  08 - 08 - 2015 SAT.

MAIN  (A)  ON  │ DHW  🚿  ON
                │                    ▶
SET    12  ℃   │ TANK   55  ℃
```

ON/OFF   ⬇⬆   ON/OFF

```
21: 55  08 - 08 - 2015 SAT.

MAIN  (A)  ON  │ DHW  ⊗  OFF
                │                    ▶
SET    12  ℃   │ TANK   55  ℃
```
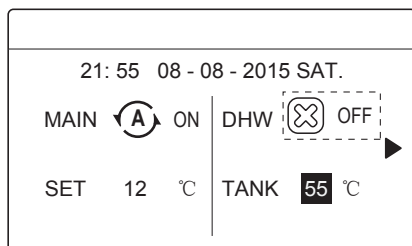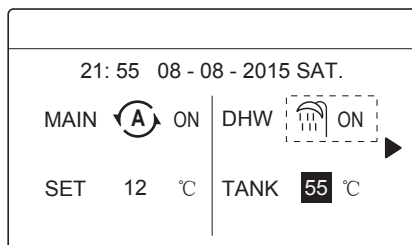
5.3 Adjusting the temperature

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

```
21: 55  08 - 08 - 2015 SAT.

MAIN  (A)  ON  │ DHW  🚿  ON
                │                    ▶
SET    18  ℃   │ TANK   55  ℃

ON/OFF ON/OFF    ADJUST    SCROLL
```
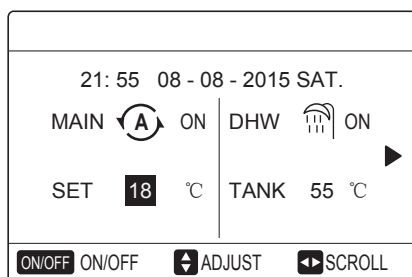
- If the cursor is on the temperature, use the "◄"、 "►" to select and use "▼"、 "▲" to adjust the temperature.

```
21: 55  08 - 08 - 2015 SAT.

MAIN  (A)  ON  │ DHW  🚿  ON
                │                    ▶
SET    18  ℃   │ TANK   55  ℃

ON/OFF ON/OFF    ADJUST    SCROLL
```

▶   ⬅➡   ◄

```
21: 55  08 - 08 - 2015 SAT.

MAIN  (A)  ON  │ DHW  🚿  ON
                │                    ▶
SET    18  ℃   │ TANK   55  ℃

ON/OFF ON/OFF    ADJUST    SCROLL
```

▶   ⬅➡   ◄

```
21: 55  08 - 08 - 2015 SAT.

ROOM     (A)  OFF
◄
SET    18  ℃
```

```
21: 55  08 - 08 - 2015 SAT.

MAIN  (A)  ON  │ DHW  🚿  ON
                │                    ▶
SET    18  ℃   │ TANK   55  ℃

ON/OFF ON/OFF    ADJUST    SCROLL
```

▲   ⬇⬆   ▼

```
21: 55  08 - 08 - 2015 SAT.

MAIN  (A)  ON  │ DHW  🚿  ON
                │                    ▶
SET    12  ℃   │ TANK   55  ℃

ON/OFF ON/OFF    ADJUST    SCROLL
```

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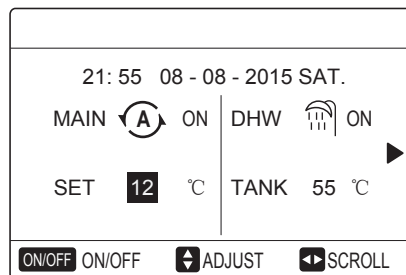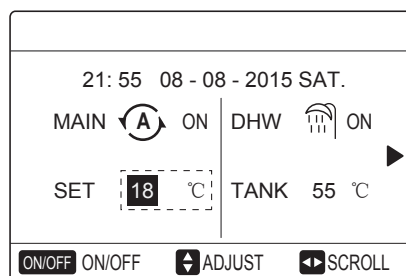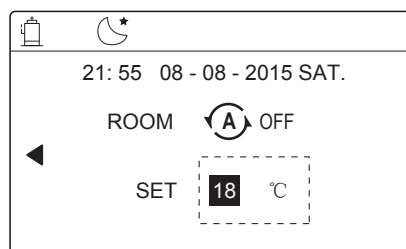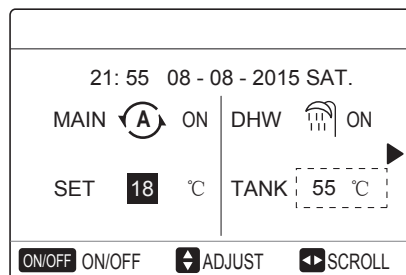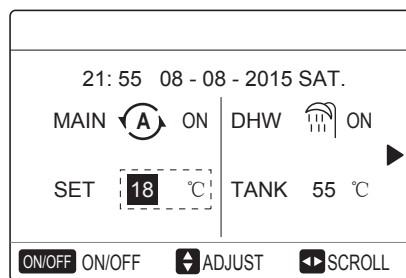
5.4 Adjusting space operation mode

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

```
OPERATION MODE

      Operation mode setting：

      HEAT      COOL      AUTO
       ☼        ❄        (A)

ON/OFF  ON/OFF        ◄►  SCROLL
```
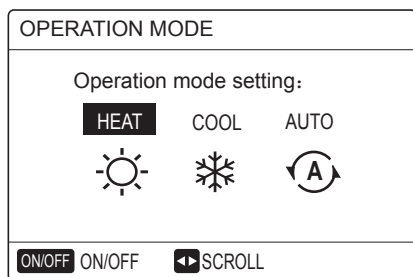
- There are three modes to be selected including heat,
  cool and auto. mode. Use the "◄",   "►" to scroll,
  press "OK" to select.
  Even you don't press OK button and exit the page by
  pressing BACK button, the mode would still be
  effective if the cursor had been moved to the
  operation mode.
  If there is only heat(cool) mode, the following page will
  appear:

```
OPERATION MODE

      Operation mode setting：

              HEAT
               ☼

ON/OFF  ON/OFF        ◄►  SCROLL
```
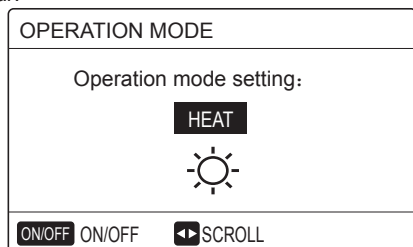
- The operation mode can not be changed see cool
  MODE SETTING on installation and ower's manual.

If you select…	Then the space operation mode is…
☼ heat	Always heat mode
❄ cool	Always cool mode
(A) auto	Automatically changed by the software based on the outdoor temperature (and depending on installer settings also 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 on installation and ower's manual.

- Adjust space operation mode by the room thermostat
  see room thermostat on installation and ower's
  manual.
  Go to MENU>OPERATION MODE, if you press any
  key to select or adjust, the page will appear:

```
         21: 55   08 - 08 - 2015 SAT.
Cool/heat mode is controlled by
the room thermostat.
The cool or heat mode is closed.
Please open the mode by the room
thermostat.

OK  CONFIRM
```
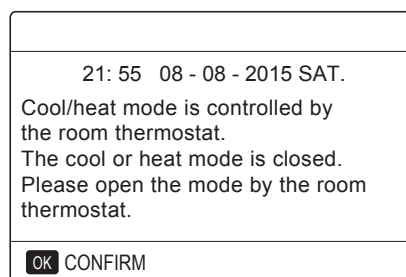
6 OPERATION

6.1 Operation Mode

See "5.4 OPERARATION MODE"

6.2 Preset Temperature

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

6.2.1 PRESET TEMP.

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

- PRESET TEMP.=PRESET TEMPERATUER

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

  1) AUTO mode is running.

  2) TIMER or WEEKLY SCHEDULE is running.

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

  The following page will appear:

```
PRESET TEMPERATURE

PRESET      WEATHER      ECO
TEMP.       TEMP.SET     MODE

NO.       TIME     TEMPER
 1 □      00:00      25°C
 2 □      00:00      25°C
 3 □      00:00      25°C

⇕ ◄► SCROLL              1/2
```

```
PRESET TEMPERATURE

PRESET      WEATHER      ECO
TEMP.       TEMP.SET     MODE

NO.       TIME     TEMPER
 4 □      00:00      25°C
 5 □      00:00      25°C
 6 □      00:00      25°C

⇕ ◄► SCROLL              2/2
```

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use "◄"、"► "、"▼"、"▲" to scroll and use "▼"、"▲" to adjust the time and the temperature.
When the cursor is on "■", as the following page:

```
┌─────────────────────────────────────────┐
│ PRESET TEMPERATURE                       │
├──────────────┬─────────────┬────────────┤
│ PRESET       │ WEATHER     │ ECO        │
│ TEMP.        │ TEMP.SET    │ MODE       │
├──────────────┴─────────────┴────────────┤
│ NO.      TIME      TEMPER                 │
│  1  ■    00:00     25°C                   │
│  2  □    00:00     25°C                   │
│  3  □    00:00     25°C                   │
│                                          │
│ OK ☑ SELECT    ⬍ ◄► SCROLL        1/2    │
└─────────────────────────────────────────┘
```

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

```
┌─────────────────────────────────────────┐
│ PRESET TEMPERATURE                       │
├──────────────┬─────────────┬────────────┤
│ PRESET       │ WEATHER     │ ECO        │
│ TEMP.        │ TEMP.SET    │ MODE       │
├──────────────┴─────────────┴────────────┤
│ NO.      TIME      TEMPER                 │
│  1  ☑    08:00     35°C                   │
│  2  □    00:00     25°C                   │
│  3  □    00:00     25°C                   │
│                                          │
│ ⬍ ADJUST     ◄► SCROLL           1/2    │
└─────────────────────────────────────────┘
```

Use "◄"、"►"、"▼"、"▲" to scroll and use "▼"、"▲" to adjust the time and the temperature.
Six periods and six temperatures can be set.

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

```
┌─────────────────────────────────────────┐
│ 🗲                                        │
│       21: 55   08 - 08 - 2015 SAT.       │
│                                          │
│   MAIN  ☼ ON │ DHW  🚿 ON               │
│       - - - -                            │
│   SET   27  ℃ │ TANK  55 ℃              │
│   🔺 08:30                               │
└─────────────────────────────────────────┘
```

NO.	TIME	TEMPER
1	8:30	35℃
2	9:00	25℃
3	10:00	35℃
4	11:00	25℃
5	12 :00	35℃
6	13:00	25℃

TEMP.

```
35°C ┤   ┌─┐   ┌─┐   ┌─┐
25°C ┤───┘ └───┘ └───┘ └────
     └──┬──┬────┬────┬────┬────┬──
       8:30 9:00 10:00 11:00 12:00 13:00
```
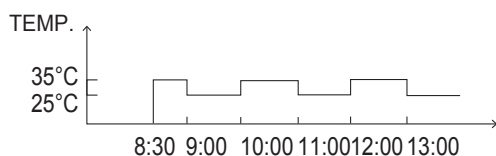
ℹ INFORMATION

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 invalid when the unit is OFF. It will run according to the next preset temperature when the unit turn 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 auto maticly depending on the outside air temperature.During the warmer weather the demand for space heating is reduced.To prevent the heat pump from producing excessive water flow temperature for the primary circuit, the weather temp.set can be used to maximize efficiency and reduce running costs.

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

The following page will appear:

```
┌─────────────────────────────────────────┐
│ PRESET TEMPERATURE                       │
├──────────────┬─────────────┬────────────┤
│ PRESET       │ WEATHER     │ ECO        │
│ TEMP.        │ TEMP.SET    │ MODE       │
├──────────────┴─────────────┴────────────┤
│ COOL MODE LOW  TEMP.          OFF        │
│ HEAT MODE LOW  TEMP.          OFF        │
│                                          │
│                                          │
│ ON/OFF  ON/OFF    ⬍ SCROLL               │
└─────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────┐
│ PRESET TEMPERATURE                       │
├──────────────┬─────────────┬────────────┤
│ PRESET       │ WEATHER     │ ECO        │
│ TEMP.        │ TEMP.SET    │ MODE       │
├──────────────┴─────────────┴────────────┤
│ COOL MODE LOW  TEMP.          ON         │
│ HEAT MODE LOW  TEMP.          OFF        │
│                                          │
│                                          │
│ ON/OFF  ON/OFF    ⬍ SCROLL               │
└─────────────────────────────────────────┘
```

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

• See FOR SERVICEMAN> COOL MODE SETTING and > HEAT MODE SETTING in installation and ower's manual.

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

• If you want to use heat mode , you select "HEAT MODE LOW TEMP". If you want to use cool mode, you select "COOL MODE LOW TEMP". You can select the low or high temperature setting for heating or cooling to see the "Table 1~4". If you select "ON", the following page will appear:

```
WEATHER   TEMP. SET

WEATHER   TEMP. SET  TYPE:

        1  2  3  4  5  6  7  8

OK CONFIRM  ◀▶ SCROLL
```

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

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

```
        5:30  08-08-2016 SAT.

   Weather temp.set function is

   on. Do you want to turn off it?


      NO                  YES

OK ENTER  ◀▶ SCROLL
```

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

```
PRESET TEMPERATURE

 PRESET      WEATHER      ECO
 TEMP.       TEMP.SET     MODE

 COOL  MODE  LOW   TEMP.         ON
 HEAT  MODE  LOW   TEMP.         OFF



ON/OFF ON/OFF  ⬍ SCROLL
```

6.2.3 ECO MODE

Use ECO MODE is used to save energy. If ECO mode is activated, is displayed on the home page Go to "MENU" > "PRESET TEMPERATURE" > "ECO MODE". Press "OK" . The following page will appear:

```
PRESET TEMPERATURE

 PRESET      WEATHER      ECO
 TEMP.       TEMP.SET     MODE

 HEAT MODE LOW TEMP.          OFF
 ECO  TIMER                   ON
 START                        08:00
 END                          19:00

ON/OFF ON/OFF  ⬍ SCROLL
```

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

```
ECO   MODE SET

ECO MODE SET  TYPE:

      1  2  3  4  5  6  7  8


OK CONFIRM  ◀▶ SCROLL
```

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

```
PRESET TEMPERATURE

 PRESET      WEATHER      ECO
 TEMP.       TEMP.SET     MODE

 HEAT MODE LOW TEMP.          ON
 ECO  TIMER                   ON
 START                        08:00
 END                          19:00

ON/OFF ON/OFF  ⬍ SCROLL
```

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

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```
┌─────────────────────────────────┐
│  PRESET TEMPERATURE             │
│  ┌──────────┬──────────┬──────┐ │
│  │ PRESET   │ WEATHER  │ ECO  │ │
│  │ TEMP.    │ TEMP.SET │ MODE │ │
│  └──────────┴──────────┴──────┘ │
│  HEAT MODE LOW TEMP.      ON    │
│  ECO  TIMER               ON    │
│  START                  08:00   │
│  END                    19:00   │
│                                 │
│  ON/OFF ON/OFF    ⬍ SCROLL      │
└─────────────────────────────────┘
```

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 :1.the curve of the high temperature setting for heating,2.the curve of the low temperature setting for heating,
It only have the curve of the high temperature setting for heating, if the high temperature is set for heating.
It only have the curve of the low temperature setting for heating, if the low temperature is set for heating.

• See FOR SERVICEMAN>HEAT MODE SETTING in installationand ower's manual.

• The desired temperature (T1S) can't be adjusted, when the ECO mode is ON.

• You can selet the low or hige temperature setting for heating to see the "Table 1~2".

• If HEAT MODE is ON and ECO TIMER is OFF,the unit run ECO mode all the time.

• If HEAT MODE is ON and ECO TIMER is ON,the unit run ECO mode according to the start time and end time.

6.3 Domestic Hot Water(DHW)

DHW mode typically consists of the following :
1) DISINFECT 2) FAST DHW
3) TANK HEATER 4) DHW PUMP

6.3.1 Disinfect

The DISINFECT function is used to kill the legionella.In disinfect function the tank temperature will be reached 65~70℃ forcely the disinfect temperature is set in FORSERCICEMAN.See DISINFECT in Installation and Ower's manual.

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

```
┌─────────────────────────────────────┐
│  DOMESTIC HOT  WATER（DHW）          │
│  ┌────────┬──────┬────────┬──────┐  │
│  │ DIS-   │ FAST │ TANK   │ DHW  │  │
│  │ INFECT │ DHW  │ HEATER │ PUMP │  │
│  └────────┴──────┴────────┴──────┘  │
│  CURRENT  STATE              ON     │
│  OPERATE   DAY               FRI    │
│  START                     23:00    │
│                                     │
│  ON/OFF ON/OFF    ⬍ SCROLL          │
└─────────────────────────────────────┘
```

[ON/OFF]   ⬇ ⬆   [ON/OFF]

```
┌─────────────────────────────────────┐
│  PRESET TEMPERATURE                 │
│  ┌────────┬──────┬────────┬──────┐  │
│  │ DIS-   │ FAST │ TANK   │ DHW  │  │
│  │ INFECT │ DHW  │ HEATER │ PUMP │  │
│  └────────┴──────┴────────┴──────┘  │
│  CURRENT  STATE              OFF    │
│  OPERATE   DAY               FRI    │
│  START                     23:00    │
│                                     │
│  ON/OFF ON/OFF    ⬍ SCROLL          │
└─────────────────────────────────────┘
```

Use "◄"、"► "、"▼ "、"▲" to scroll and use "▼"、"▲" to adjust the parameters when setting "OPERATE DAY" and "START". If the OPERATE DAY is set FRIDAY and the START is set 23:00,
the disinfect function will active on 23:00 Friday.

If CURRENT STATE is OFF, DISINFECT is invalid.
If the disinfect function is running,the following page will appear:

```
┌─────────────────────────────────────┐
│  ☼  ❋                               │
│                                     │
│      23: 55   10 - 08 - 2015 FRI.   │
│                                     │
│               ⊛                     │
│                                     │
│                                     │
└─────────────────────────────────────┘
```

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 backup heater will operate for DHW mode together.

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

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```
┌─────────────────────────────────────────┐
│ DOMESTIC HOT  WATER（DHW）               │
│ ┌───────┬───────┬────────┬──────────┐    │
│ │ DIS-  │ FAST  │ TANK   │ DHW      │    │
│ │INFECT │ DHW   │ HEATER │ PUMP     │    │
│ ├───────┴───────┴────────┴─────┐    │    │
│ │ CURRENT  STATE               │  ON │    │
│ └──────────────────────────────┘    │    │
│                                           │
│ ON/OFF  ON/OFF                            │
└─────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────┐
│ DOMESTIC HOT  WATER（DHW）               │
│ ┌───────┬───────┬────────┬──────────┐    │
│ │ DIS-  │ FAST  │ TANK   │ DHW      │    │
│ │INFECT │ DHW   │ HEATER │ PUMP     │    │
│ ├───────┴───────┴────────┴─────┐    │    │
│ │ CURRENT  STATE               │ ON  │    │
│ └──────────────────────────────┘    │    │
│                                           │
│ ON/OFF  ON/OFF                            │
└─────────────────────────────────────────┘
```

ON/OFF   ⬇⬆   ON/OFF

```
┌─────────────────────────────────────────┐
│ DOMESTIC HOT  WATER（DHW）               │
│ ┌───────┬───────┬────────┬──────────┐    │
│ │ DIS-  │ FAST  │ TANK   │ DHW      │    │
│ │INFECT │ DHW   │ HEATER │ PUMP     │    │
│ ├───────┴───────┴────────┴─────┐    │    │
│ │ CURRENT  STATE               │ OFF │    │
│ └──────────────────────────────┘    │    │
│                                           │
│ ON/OFF  ON/OFF                            │
└─────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────┐
│ DOMESTIC HOT  WATER（DHW）               │
│ ┌───────┬───────┬────────┬──────────┐    │
│ │ DIS-  │ FAST  │ TANK   │ DHW      │    │
│ │INFECT │ DHW   │ HEATER │ PUMP     │    │
│ ├───────┴───────┴────────┴─────┐    │    │
│ │ CURRENT  STATE               │ OFF │    │
│ └──────────────────────────────┘    │    │
│                                           │
│ ON/OFF  ON/OFF                            │
└─────────────────────────────────────────┘
```

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

ℹ INFORMATION

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

6.3.3 HEATER TANK

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

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

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

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

```
┌─────────────────────────────────────────┐
│  ☼                                        │
│       21: 55   08 - 08 - 2015 SAT.        │
│                                           │
│   MAIN   ❄  ON   │  DHW   🚿 ON           │
│                  │       - - - - -        │
│   SET    12  ℃   │  TANK   55  ℃          │
└─────────────────────────────────────────┘
```

ℹ INFORMATION

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

6.3.4 DHW Pump

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

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DOMESTIC HOT WATER（DHW）			
DIS-INFECT	FAST DHW	TANK HEATER	**DHW PUMP**

NO.	START	NO.	START
1 ☐	06:00	5 ☐	00:00
2 ☐	00:00	6 ☐	00:00
3 ☐	00:00	7 ☐	00:00
4 ☐	00:00	8 ☐	00:00

⬍ ◀▶ SCROLL　　　　　　1/2

DOMESTIC HOT WATER（DHW）			
DIS-INFECT	FAST DHW	TANK HEATER	**DHW PUMP**

NO.	START	NO.	START
9 ☐	06:00	13 ☐	00:00
10 ☐	00:00	14 ☐	00:00
11 ☐	00:00	15 ☐	00:00
12 ☐	00:00	16 ☐	00:00

⬍ ◀▶ SCROLL　　　　　　2/2

DOMESTIC HOT WATER（DHW）			
DIS-INFECT	FAST DHW	TANK HEATER	**DHW PUMP**

NO.	START	NO.	START
1 ☑	**06**:00	5 ☐	00:00
2 ☐	00:00	6 ☐	00:00
3 ☐	00:00	7 ☐	00:00
4 ☐	00:00	8 ☐	00:00

⬍ ◀▶ SCROLL　　　　　　1/2

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

Use "◀'、 "►"、 "▼"、 "▲" to scroll and use "▼"、 "▲" to adjust the parameters.

For example:you have set the parameter about the DHW PUMP(See FOR SERVICEMAN TEMPERATURE TYPE SETTING on installation and ower's 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

ON
OFF

6:00　6:30　7:00　7:30　8:00　8:30　9:00　9:30
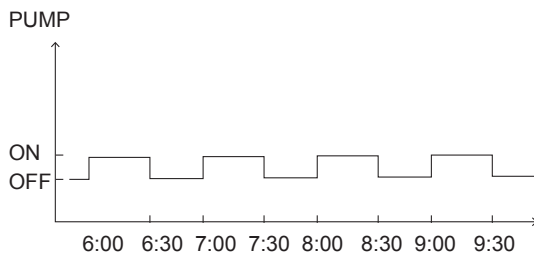
6.4 Schedule

SCHEDULE menu contents as follows:
1) TIMER to set the day schedule.
2) WEEKLY SCHEDULE to set the weekly schedule.
3) TIME to set the current time and date.

6.4.1 Timer

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

SCHEDULE		
TIMER	WEEKLY SCHEDULE	TIME

NO.	START	END	MODE	TEMP
1 ☐	00:00	00:00	HEAT	0℃
2 ☐	00:00	00:00	HEAT	0℃
3 ☐	00:00	00:00	HEAT	0℃

⬍ ◀▶ SCROLL　　　　　1/2

SCHEDULE		
TIMER	WEEKLY SCHEDULE	TIME

NO.	START	END	MODE	TEMP
4 ☐	00:00	00:00	HEAT	0℃
5 ☐	00:00	00:00	HEAT	0℃
6 ☐	00:00	00:00	HEAT	0℃

⬍ ◀▶ SCROLL　　　　　2/2

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

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

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

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

SCHEDULE		
TIMER	**WEEKLY SCHEDULE**	TIME

Timer 1 is useless.
The start time is same to the end time.

OK　CONFIRM

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Example:

Six timer is set as following:

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

The unit will run as following:

HEAT MODE COOL MODE DHW MODE
DHW MODE HEAT MODE COOL MODE

1:00 3:00 7:00 9:00 11:30 13:00 14:00 15:00 18:00 19:00 23:00 24:00
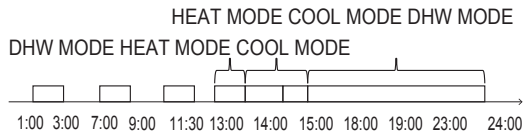
The operation of the controller at the following time:

TIME	The operatin of the controller
1：00	DHW mode is turned ON
3：00	DHW mode is turned OFF
7：00	HEAT MODE is turned ON
9：00	HEAT MODE is turned OFF
11：30	COOL MODE is turned ON
13：00	COOL MODE is turned OFF
14：00	HEAT MODE is turned ON
15：00	COOL MODE is turned ON and HEAT MODE is turned OFF
16：00	HEAT MODE is turned OFF
18：00	DHW MODE is turned ON
19：00	COOL MODE is turned OFF
23：00	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 the weekly schedule is off, the later setting is effective.If WEEKLY SCHEDULE is activated, 🕐 is displayed on the home page.

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

```
SCHEDULE

TIMER    WEEKLY  SCHEDULE    TIME

MON  TUES WED  THUR  FRI  SAT  SUN
 ■    □    □     □     □    □    □


         SET                 CANCEL
 OK  MON SELECT   ⬍ ◀▶ SCROLL
```

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

ⓘ INFORMATION

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

```
SCHEDULE

TIMER    WEEKLY  SCHEDULE    TIME

MON  TUES WED  THUR  FR    SAT  SUN
 ☑    ☑    ☑     ☑    ☑     □    □


         SET                 CANCEL
 OK  MON SELECT   ⬍ ◀▶ SCROLL
```

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

The following pages will appear:

```
SCHEDULE

TIMER    WEEKLY  SCHEDULE    TIME

NO.      START    END    MODE   TEMP
 1 ☑     00:00   02:00   HEAT   30℃
 2 ☑     03:00   04:00   COOL   20℃
 3 ☑     06:00   08:00   HEAT   35℃


 ⬍ ◀▶ SCROLL                    1/2
```

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```
SCHEDULE
┌─────────┬──────────────────┬─────────┐
│ TIMER   │ WEEKLY SCHEDULE  │  TIME   │
└─────────┴──────────────────┴─────────┘
 NO.     START   END    MODE   TEMP
  4 ☑    09:00   10:00  HEAT   32℃
  5 ☐    00:00   00:00  HEAT    0℃
  6 ☐    00:00   00:00  HEAT    0℃

  ⬍ ◀▶ SCROLL                   2/2
```

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 of no effect.

How to cancel the WEEKLY SCHEDULE
Cancel the schedule: First select the days of the week. Use "◀ "、 "► "to scroll.

```
SCHEDULE
┌─────────┬──────────────────┬─────────┐
│ TIMER   │ WEEKLY SCHEDULE  │  TIME   │
└─────────┴──────────────────┴─────────┘
  MON TUES WED THUR FRI SAT SUN
   ☑   ☑   ☑   ☑   ☑   ☐   ☐


         SET            CANCEL
  OK ENTER      ⬍ ◀▶ SCROLL
```

Use "◀ "、 "► "to move to "CANCEL", press "OK" to cancel the schedule.If you want to exit WEEKLY SCHEDULE,press "BACK".

ⓘ INFORMATION

You have to reset TIMER/WEEKLY SCHEDULE, if you change the MAIN page to the ROOM page or you change the ROOM page to the MAIN page.
The TIMER or WEEKLY SCHEDULE is invalid, if ROOM THERMOSTAT is effect.

6.4.3 TIME

The TIME function is used to set the local actual time and date.

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

```
SCHEDULE
┌─────────┬──────────────────┬─────────┐
│ TIMER   │ WEEKLY SCHEDULE  │  TIME   │
└─────────┴──────────────────┴─────────┘
  CURRENT TIME              12：30
  CURRENT DAY            01-01-2015


  ⬍ ◀▶ SCROLL
```

Use "◀ "、 "► "、 "▼ "、 "▲" to scroll and Use "▲" 、 "▼ " adjust the time and date.

ⓘ INFORMATION

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

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

• TIMER or WEEKLY SCHEDULE is not affected when ECO or COMFORT is valid. TIMER or WEEKLY SCHEDULE is activated when the ECO or COMFORT is not running.

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

• PRSET TEMP. and WATHER TEMP.SET are at the same priority. The after setting function is valid.

ⓘ INFORMATION

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

6.5 Options

OPTIONS menu contents as following:
1) SILENT MODE
2) HOLIDAY AWAY
3) HOLIDAY HOME
4) BACKUP HEATER

6.5.1 Silent Mode

The SILENT MODE is used to decrease the sound of the unit. However, it also decreases the heating/cooling capacity of the system. There are two silent mode levels. level2 is more silent than level1 , and the heating or cooling capacity is also more decreasing.
There are two method to use the silent mode:
1) silent mode in all time;
2) silent mode in timer.

●   Go to the home page to check if silent mode is activated. If is displayed, If the silent mode is activated, will display on the home page.

● Go to "MENU" > "OPTIONS" > "SILENT MODE". Press "OK" . The following page will appear:

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
CURRENT STATE			OFF
SILENT LEVEL			◢
TIMER			ENTER
`ON/OFF` ON/OFF		◀▶ SCROLL	

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

Description:
If CURRENT STATE is OFF, SILENT MODE is invalid.

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

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
CURRENT STATE			ON
SILENT LEVEL			◤◢
TIMER			ENTER
↕ ADJUST		◀▶ SCROLL	

LEVEL 1

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
CURRENT STATE			ON
SILENT LEVEL			◢
TIMER			ENTER
↕ ADJUST		◀▶ SCROLL	

LEVEL 2

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

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

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
NO.	START	END	
1 ☑	12:00	15:00	
2 ☑	22:00	07:00	
↕ ◀▶ SCROLL			

There are two timers for setting. Move to "■", press " OK " to select or unselect.
If the two time are both unselected,the silent mode will operate in all time.Otherwise, it will operate according as the time.

6.5.2 Holiday Away

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

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

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

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

OPTIONS			
SILENT MODE	**HOLIDAY AWAY**	HOLIDAY HOME	BACKUP HEATER
▲			
FROM			**07**-08-2015
UNTIL			07-08-2015
↕ ◀▶ SCROLL			2/2

Usage example: You go away during the winter.The current date is 2016-01-31,two days later is 2016-02-02, it is the beginning date of the holiday.

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

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Then you can do the following:
1) Configure the holiday. configure the following settings:
2) Activate the holiday mode.
Go to "MENU" > "OPTIONS" > "HOLIDAY AWAY". Press "OK" .
Use "ON/OFF" to select "OFF" or "ON" and use "◄ "、"► "、"▼"、"▲" to scroll and adjust.

Setting	Value
Holiday away	ON
From	2 February 2016
Until	16 February 2016
Operation mode	Heating
disinfect	ON

ⓘ INFORMATION

• If DHW mode in holiday away mode is ON, The disinfect set by user is invalid.

• If holiday away mode is ON, The timer and weekly schedule are invalid except exit.

• If the CURRENT STATE is OFF,the HOLIDAY AWAY is OFF.

• If the CURRENT STATE is ON,the HOLIDAY AWAY is ON.

• The remote control doesn't accept any orders when holiday away mode is ON.

• Disinfecting the unit on 23:00 of the last day if disinfect is ON.

• When in holiday away mode, the climate related curves previously set is invalid, and the curves will automatically take effect after the holiday away mode is ends.

• The preset temperature is invalid when in holiday away mode, but the preset value still display on the main page.

6.5.3 Holiday Home

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

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

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

To activate or deactivate the holiday home mode:
Go to "MENU" > "OPTIONS" > "HOLIDAY HOME". Press "OK" . The following page will appear:

```
OPTIONS
┌─────────┬─────────┬─────────┬─────────┐
│ SILENT  │ HOLIDAY │ HOLIDAY │ BACKUP  │
│ MODE    │ AWAY    │ HOME    │ HEATER  │
├─────────┴─────────┴─────────┴─────────┤
│ CURRENT  STATE                 ON      │
│ FROM                      15-08-2015   │
│ UNTIL                     17-08-2015   │
│ TIMER                        ENTER     │
├────────────────────────────────────────┤
│ ON/OFF ON/OFF      ⬍ SCROLL           │
└────────────────────────────────────────┘
```

Use "ON/OFF" to select "OFF" or "ON" and use "◄ "、"► "、"▼"、"▲" to scroll and adjust.

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

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

Use "▼"、"▲" to adjust the date.

• Before and after your holiday, your normal schedule will be used.

• During your holiday, you save energy and prevent your house from freezing.

ⓘ INFORMATION

You have to reset Holiday away or Holiday home, if you change the unit whether or not have the function of DHW or HEAT.

6.5.4 Backup Heater

• The BACKUP HEATER function is used to force the backup heater. Go to "MENU" > "OPTIONS" > "BACKUP HEATER". Press "OK" . If the HEATER is set NON in "OTHER HEATING SOURCE", The following page will appear:

```
OPTIONS
┌─────────┬─────────┬─────────┬─────────┐
│ SILENT  │ HOLIDAY │ HOLIDAY │ BACKUP  │
│ MODE    │ AWAY    │ HOME    │ HEATER  │
├─────────┴─────────┴─────────┴─────────┤
│                                        │
│                                        │
│                                        │
│                                        │
├────────────────────────────────────────┤
│ ◄► SCROLL                              │
└────────────────────────────────────────┘
```

• If the HEATER is set YES in "OTHER HEATING SOURCE" , The following page will appear:

```
OPTIONS
┌─────────┬─────────┬─────────┬─────────┐
│ SILENT  │ HOLIDAY │ HOLIDAY │ BACKUP  │
│ MODE    │ AWAY    │ HOME    │ HEATER  │
├─────────┴─────────┴─────────┴─────────┤
│ BACKUP HEATER1                 ON      │
│ BACKUP HEATER2                 ON      │
│                                        │
│                                        │
├────────────────────────────────────────┤
│ OK ENTER   ◄► SCROLL                   │
└────────────────────────────────────────┘
```

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Use "ON/OFF" to select "OFF" or "ON" and use "▼"、"▲" to scroll .

```
┌─ⅰ─ INFORMATION ──────────┐
```

- If the operation mode is auto mode in space heating or cooling side, the buckup heater function can not be selected.

- The BACKUP HEATER function is invalid when only ROOM heat mode enabled.

6.6 Child Lock

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

```
┌──────────────────────────────┐
│ CHILD  LOCK                  │
│                              │
│ Please input the password:   │
│                              │
│                              │
│           1  2  3            │
│                              │
│                              │
│                              │
│ OK ENTER   ↕ ADJUST  ◄► SCROLL│
└──────────────────────────────┘
```

Input the corrent password,the following page will appear:

```
┌──────────────────────────────┐
│ CHILD  LOCK                  │
│                              │
│ COOL/HEAT  TEMP. ADJUST  UNLOCK│
│                              │
│ COOL/HEAT  MODE  ON/OFF  UNLOCK│
│ DHW  TEMP. ADJUST        UNLOCK│
│ DHW  MODE  ON/OFF        UNLOCK│
│                              │
│                              │
│ UNLOCK LOCK/UNLOCK    ◄► SCROLL│
└──────────────────────────────┘
```

Use "▼"、"▲" to scroll and" UNLOCK" to select LOCK or UNLOCK. The temperature can't be adjusted when the temperature is locked.The mode can't be changed when the mode is locked. If you want to change them, you must unlock them use the CHILD LOCK function.

6.7 Service information

6.7.1 About service information

Service information menu contents as following:
1) service call: to check service call for contacting;
2) error code: to check the error code mean;
3) parameter: to review the operation parameters;
4) display: to set the display.

6.7.2 How to go to service information menu

- Go to "MENU" > "SERVICE INFORMATION". Press "OK" . The following page will appear:

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

```
┌──────────────────────────────────┐
│ SERVICE  INFORMATION             │
│┌────────┬──────┬─────────┬───────┐│
││SERVICE │ERROR │PARAMETER│DISPLAY││
││CALL    │CODE  │         │       ││
│└────────┴──────┴─────────┴───────┘│
│ PHONE  NO.  0000000000000        │
│ MOBILE  NO.  0000000000000       │
│                                  │
│                                  │
│ ◄► SCROLL                        │
└──────────────────────────────────┘
```

Error code is used to show when the fault or proction happen and show the mean of the error code.

```
┌──────────────────────────────────┐
│ SERVICE  INFORMATION             │
│┌────────┬──────┬─────────┬───────┐│
││SERVICE │ERROR │PARAMETER│DISPLAY││
││CALL    │CODE  │         │       ││
│└────────┴──────┴─────────┴───────┘│
│ E2              14:10 01-08-2015 │
│ E2              14:00 01-08-2015 │
│ E2              13:50 01-08-2015 │
│ E2              13:20 01-08-2015 │
│ OK ENTER    ◄► SCROLL            │
└──────────────────────────────────┘
```

Press OK the page will appear:

```
┌─ⅰ─ INFORMATION ──────────────┐
```

A total of eight fault codes can be recorded.

```
┌──────────────────────────────────┐
│ SERVICE  INFORMATION             │
│┌────────┬──────┬─────────┬───────┐│
││SERVICE │ERROR │PARAMETER│DISPLAY││
││CALL    │CODE  │         │       ││
│└────────┴──────┴─────────┴───────┘│
│ E2              14:10 01-08-2015 │
│ E2              14:00 01-08-2015 │
│ E2              13:50 01-08-2015 │
│ E2              13:20 01-08-2015 │
│ OK ENTER    ◄► SCROLL            │
└──────────────────────────────────┘
```

press OK to show the mean of the error code：

```
┌──────────────────────────────────┐
│                                  │
│      12:30 08-08-2015 SAT.       │
│   E2 comunication fault between  │
│   controller and indoor unit     │
│                                  │
│   Please contact your dealer.    │
│                                  │
│ OK COMFIRM                       │
└──────────────────────────────────┘
```

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

```
┌─────────────────────────────────────────┐
│ SERVICE  INFORMATION                     │
├─────────┬────────┬───────────┬──────────┤
│ SERVICE │ ERROR  │ PARAMETER │ DISPLAY  │
│ CALL    │ CODE   │           │          │
├─────────┴────────┴───────────┴──────────┤
│ ROOM  SET  TEMP.              26℃       │
│ MAIN  SET  TEMP.              55℃       │
│ TANK  SET  TEMP.              55℃       │
│ ROOM  ACTUAL  TEMP.           24℃       │
│                                          │
│ [OK] ENTER      ◀▶ SCROLL               │
└─────────────────────────────────────────┘
```

The display function is used to set the interface, the main items is language,backlight, buzzer and screen lock time:

```
┌─────────────────────────────────────────┐
│ SERVICE  INFORMATION                     │
├─────────┬────────┬───────────┬──────────┤
│ SERVICE │ ERROR  │ PARAMETER │ DISPLAY  │
│ CALL    │ CODE   │           │          │
├─────────┴────────┴───────────┴──────────┤
│ LANGUAGE                        EN       │
│ BACKLIGHT                       ON       │
│ BUZZER                          ON       │
│ SCREEN  LOCK  TIME          120SEC      │
│                                          │
│ [OK] ENTER      ◀▶ SCROLL               │
└─────────────────────────────────────────┘
```

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

Information：
Now there is only one language English in the interface.

6.8 Operation Parameter

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

• At home page, go to "MENU" > "OPERATION PARAMETER".

• Press "OK". There are five pages for the operating parameter as following. Use "▼ "、 "▲" to scroll.

```
┌─────────────────────────────────────────┐
│ CHILD  LOCK                              │
├─────────────────────────────────────────┤
│ OPERATE MODE              COOL           │
├─────────────────────────────────────────┤
│ COMPRESSOR  CURRENT        12A           │
│ COMPRESSOR  FREQUNCY       24Hz          │
│ COMP.RUN TIME1            54MIN          │
│ COMP.RUN TIME2            65MIN          │
│ COMP.RUN TIME3            10MIN          │
│                                          │
│ ↕ SCROLL                      1/5        │
└─────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────┐
│ OPERATION PARAMETER                      │
├─────────────────────────────────────────┤
│ COMP.RUN  TIME4        1000HOUR          │
├─────────────────────────────────────────┤
│ EXPANSION  VALUE            240P         │
│ FAN  SPEED             600 R/MIN         │
│ BACKUP  HEATER1  CURRENT    0 A          │
│ BACKUP  HEATER2  CURRENT    0 A          │
│ T1  LEAVING  WATER TEMP.1   25℃         │
│                                          │
│ ↕ SCROLL                      2/5        │
└─────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────┐
│ OPERATION PARAMETER                      │
├─────────────────────────────────────────┤
│ T1B LEAVING WATER TEMP.2       25°C      │
├─────────────────────────────────────────┤
│ T2    PLATE  F-OUT  TEMP.      30°C      │
│ T2B  PLATE  F-IN  TEMP.        45°C      │
│ T3  OUTDOOR EXCHANGE TEMP.     -7°C      │
│ T4  OUTDOOR AIR TEMP.          -7°C      │
│ T5  WATER TANK TEMP.           -7°C      │
│                                          │
│ ↕ SCROLL                      3/5        │
└─────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────┐
│ OPERATION PARAMETER                      │
├─────────────────────────────────────────┤
│ Ta Room temp                   25°C      │
├─────────────────────────────────────────┤
│ Th    COMP. SUCTION  TEMP.     25°C      │
│ Tp    COMP. DISCHARGE TEMP.    25°C      │
│ Tw-0  PLATE W-OUTLET TEMP.     25°C      │
│ Tw-I  PLATE W-INLET  TEMP.     25°C      │
│ P1  COMP. PRESSURE1        200kPa        │
│                                          │
│ ↕ SCROLL                      4/5        │
└─────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────┐
│ OPERATION PARAMETER                      │
├─────────────────────────────────────────┤
│ P2 COMP. PRESSURE2            --kPa      │
├─────────────────────────────────────────┤
│ POWER CONSUMPTION           OKWH         │
│                                          │
│                                          │
│                                          │
│                                          │
│ ↕ SCROLL                      5/5        │
└─────────────────────────────────────────┘
```

ⓘ INFORMATION

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

6.9 For Serviceman
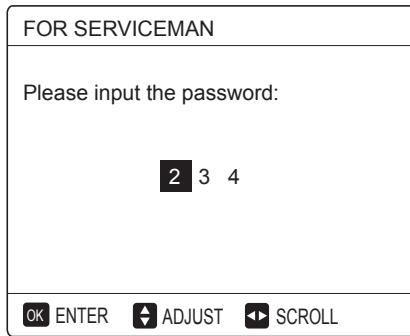
6.9.1 About For Serviceman

FOR SERVICEMAN is used for installater and service engineer.

• Setting the composition of equipment.

• Setting the parameters.

6.9.2 How To Go To For Serviceman

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

```
┌─────────────────────────────────┐
│  FOR SERVICEMAN                 │
│ ─────────────────────────────── │
│  Please input the password:     │
│                                 │
│                                 │
│              2  3  4            │
│                                 │
│                                 │
│                                 │
│ ─────────────────────────────── │
│ OK ENTER   ↕ ADJUST  ◄► SCROLL  │
└─────────────────────────────────┘
```
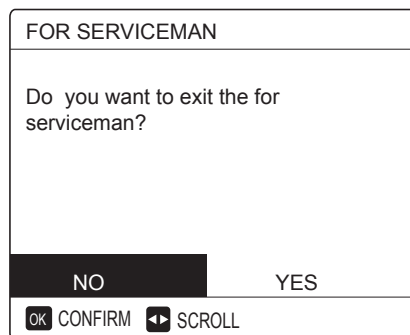
- The FOR SERVICEMAN is used for installer or service engineer. It is NOT instended the home owener alters setting with this menu.

- It is for this reason password protection is requierd to prevent unauthorised access to the service settings.

- The password is 234.

6.9.3 How To Exit For SERVICEMAN

If you have set all the parameter.
Press "BACK", the following page will appear：

```
┌─────────────────────────────────┐
│  FOR SERVICEMAN                 │
│ ─────────────────────────────── │
│  Do  you want to exit the for   │
│  serviceman?                    │
│                                 │
│                                 │
│                                 │
│                                 │
│      NO              YES        │
│ ─────────────────────────────── │
│ OK CONFIRM  ◄► SCROLL           │
└─────────────────────────────────┘
```

Select "YES" and press "OK" to exit the FOR SERVICEMAN.
After exiting the FOR SERVICEMAN, the unit will be turned off.

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7 Menu structure : Overview

```
MENU
SPACE OPERATION MODE ─────────────────┐
PRESET TEMPERATURE                     │
DOMESTIC HOT WATER(DHW)                │
SCHEDULE                               │
OPTIONS                                │
CHILD LOCK                             │
SERVICE INFORMATION                    │
OPERATION PARAMETER                    │
FOR SERVICEMAN                         │
```

SPACE OPERATION MODE
HEAT
COOL
AUTO

PRESET TEMPERATURE
PRESET TEMP.
WEATHER TEMP. SET
ECO MODE

DOMESTIC HOT WATER(DHW)
DISINFECT
FAST DHW
TANK HEATER
DHW PUMP

DISINFECT
CURRENT STATE
OPERATE DAY
STATE TIME

SCHEDULE
TIMER
WEEKLY SCHEDULE
TIME

TIME
CURRENT TIME
CURRENT DAY

OPTIONS
SILENT MODE
HOLIDAY AWAY
HOLIDAY HOME
BACKUP HEATER

SILENT MODE
CURRENT STATE
SILENT LEVEL
TIMER

CHILD LOCK
COOL/HEAT TEMP.ADJUST
COOL/HEAT MODE
DHW TEMP.ADJUST
DHW MODE

HOLIDAY AWAY
CURRENT STATE
DHW MODE
DISINFECT
HEAT MODE
FROM
UNTIL

SERVICE INFORMATION
SERVICE CALL
ERROR CODE
PARAMETER
DISPLAY

HOLIDAY HOME
CURRENT STATE
FROM
UNTIL
SCHEDULE

OPERATION PARAMETER

INSTALLATION MENU
DHW MODE SETTING
COOL MODE SETTING
HEAT MODE SETTING
AUTO MODE SETTING
TEMP. TYPE SETTING
ROOM THERMOSTAT
OTHER HEATING SOURECE
HOLIDAY AWAY SETTING
SERVICE CALL
RESTORE FACTORY SETTINGS
TEST RUN
SPECIAL FUNCTION
AUTO RESTART

DISPLAY
LANGUAGE
BACKLIGHT
BUZZER
SCREEN LOCK TIME

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Airwell

Installation menu
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 SOURECE
8 HOLIDAY AWAY SETTING
9 SERVICE CALL
10 RESTORE FACTORY SETTINGS
11 TEST RUN
12 SPECIAL FUNCTION
13 AUTO RESTART

---

1 DHW MODE SETTING
1.1 DHW MODE
1.2 TANK HEATER
1.3 DISINFECT
1.4 DHW PRIORITY
1.5 DHW PUMP

2 COOL MODE SETTING
COOL MODE
T1S RANGE
T4CMAX
T4CMIN
dT1SC
dTSC
t_INTERVAL_C

3 HWAT MODE SETTING
HEAT MODE
T1S RANGE
T4HMAX
T4HMIN
dT1SH
dTSH
t_INTERVAL_H

4 AUTO MODE SETTING
T4AUTOMIN
T4AUTOMAX

5 SPACE TEMPER. SETPOINT
WATER TEMPER
ROOM TEMPER.

6 ROOM THERMOSTAT
ROOM THERMOSTAT

7 OTHER HEATING SOURCE
7.1 H.B. HEATER
7.2 AHS
SOLAR ENERGE

8 HOLIDAY AWAY SETTING
T1S H.A. H
T5S H.M. DHW

9 SERVICE CALL
PHONE NO.
MOBILE NO.

11 TEST RUN
AIR PURGE
PUMP RUNNING
COOL MODE RUNNING
HEAT MODE RUNNING
DHW RUNNING

12 SPECIAL FUNCTIONG
12.1 AIR PURGE
12.2 RREHEATING FOR FLOOR
12.3 FLOOR DRYING UP

13 AUTO RESTAR
COOL/HEAT MODE
DHW MODE

1.1 DHW mode
dT5 on
dT1S5
T4DHWMAX
T4DHWMIN
t INTERVAI DHW

1.2 tank heater
dT5 TBH OFF
T4 DHW ON
t DHW DELAY

1.3 DISINFECT
T5S DI
t DI hightemp.
t DI max

1.4 DHW PRIORITY
t DHWHP MAX
t DHWHP RESTRICT

1.5 DHW pump
TIMER YUNNING
DISINFECT
PUMP RUNNING TIME

7.1 HYDRO-BOX HEATER
HEAT MODE
DHW MODE
T4 IBH ON
Td1 IBH ON
t IBH DELAY
t IBH12 DELAY

7.2 AHS
HEAT MODE
DHW MODE
T4 AHS ON
dT1 AHS ON
dT1 AHS OFF
t AHS DELAY

12.2 PREHEATING FOR FLOOR
FLOW SET TEMPERATURE
RETURN TEMPERATURE
PREHEATING TIME
OPERATE PREHEATING FOR FLOOR

12.3 FLOOR DRYING UP
DRYING UP TIME
HIGE TEMP. TIME
DRYING DOWN TIME
PEAK TEMPERATURE
START TIME
START DATE
OPERATE FLOOR DRYING UP

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

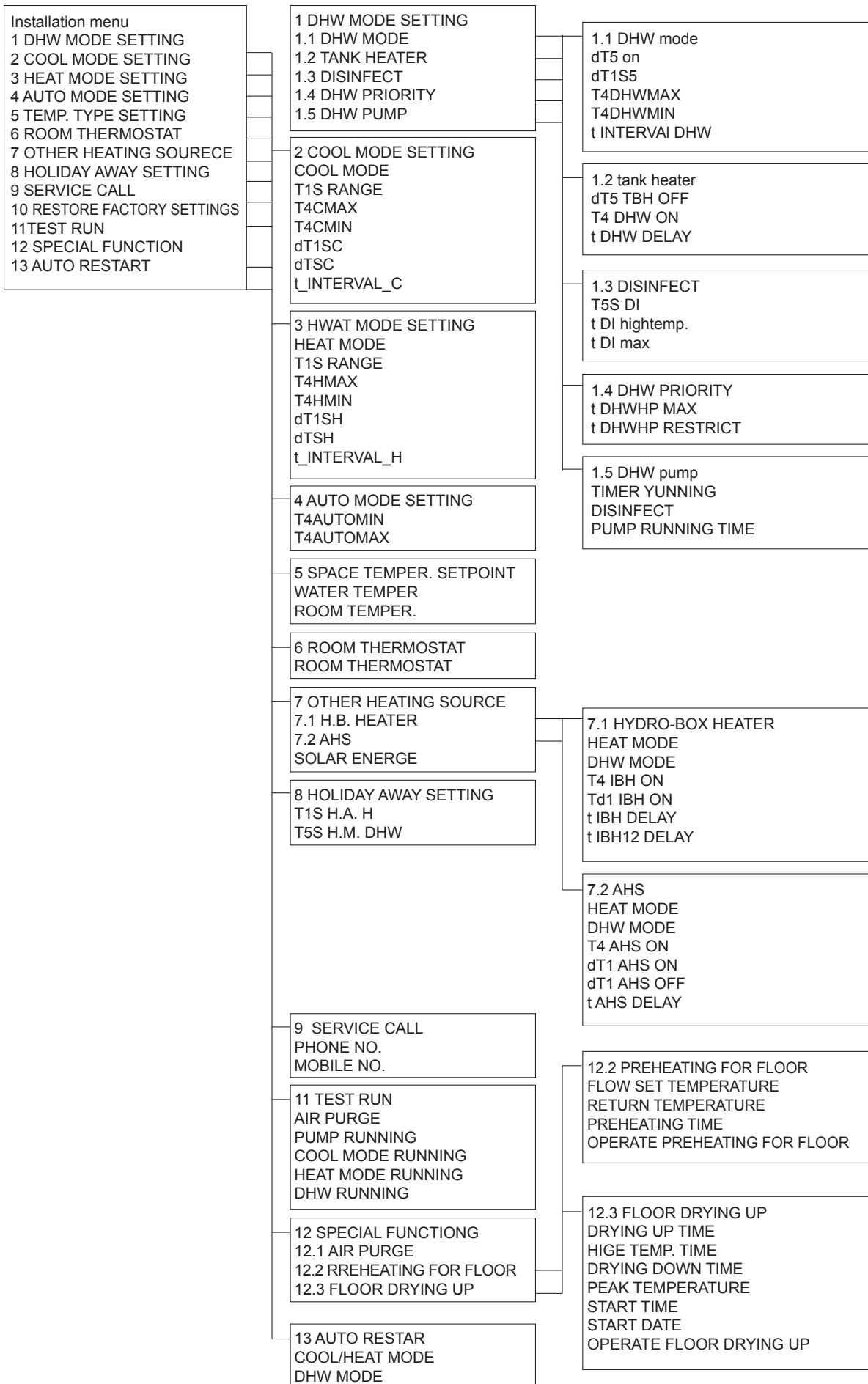| T4	≤-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1-T1S	38	38	38	38	37	37	37	37	37	37	36	36	36	36	36	36	36	35	35	35	35
2-T1S	35	35	35	35	34	34	34	34	34	34	34	34	33	33	33	33	33	33	33	33	32
3-T1S	33	33	33	33	33	33	33	32	32	32	32	32	32	32	32	32	32	32	32	32	31
4-T1S	35	35	35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

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

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

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

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

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

NOTE

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