



FULL DC INVERTER SYSTEMS

USER MANUAL

HYDROBOX SDV5-140HB3P

COMMERCIAL AIR CONDITIONERS SDV5

Original instructions

IMPORTANT NOTE:

Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.

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ANNEX

1 GENERAL SAFETY PRECAUTIONS

1.1 About the documentation

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

DANGER

Indicates a situation that results in death or serious injury.

DANGER: RISK OF ELECTROCUTION

Indicates a situation that could result in electrocution.

DANGER: RISK OF BURNING

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

WARNING

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

CAUTION

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

NOTE

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

INFORMATION

Indicates useful tips or additional information.

1.2 For the user

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

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

CAUTION

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

Unit are marked with the following symbol:



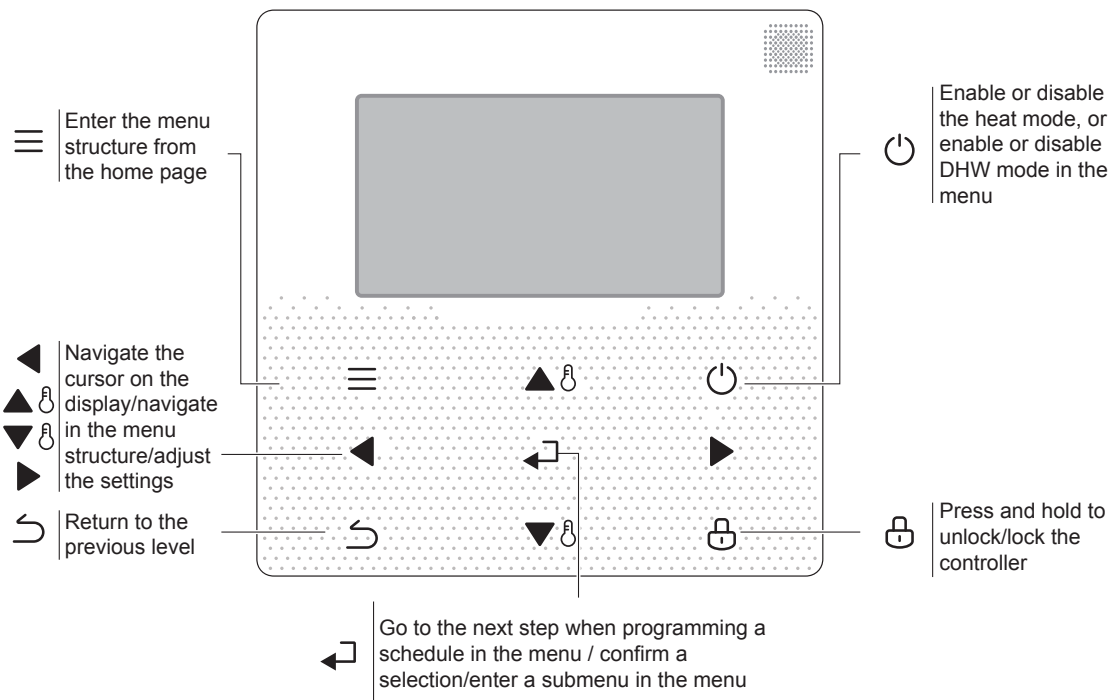
This means that electrical and electronic products can not be mixed with unsorted household waste. Do NOT try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable legislation. Units must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

ATTENTION:

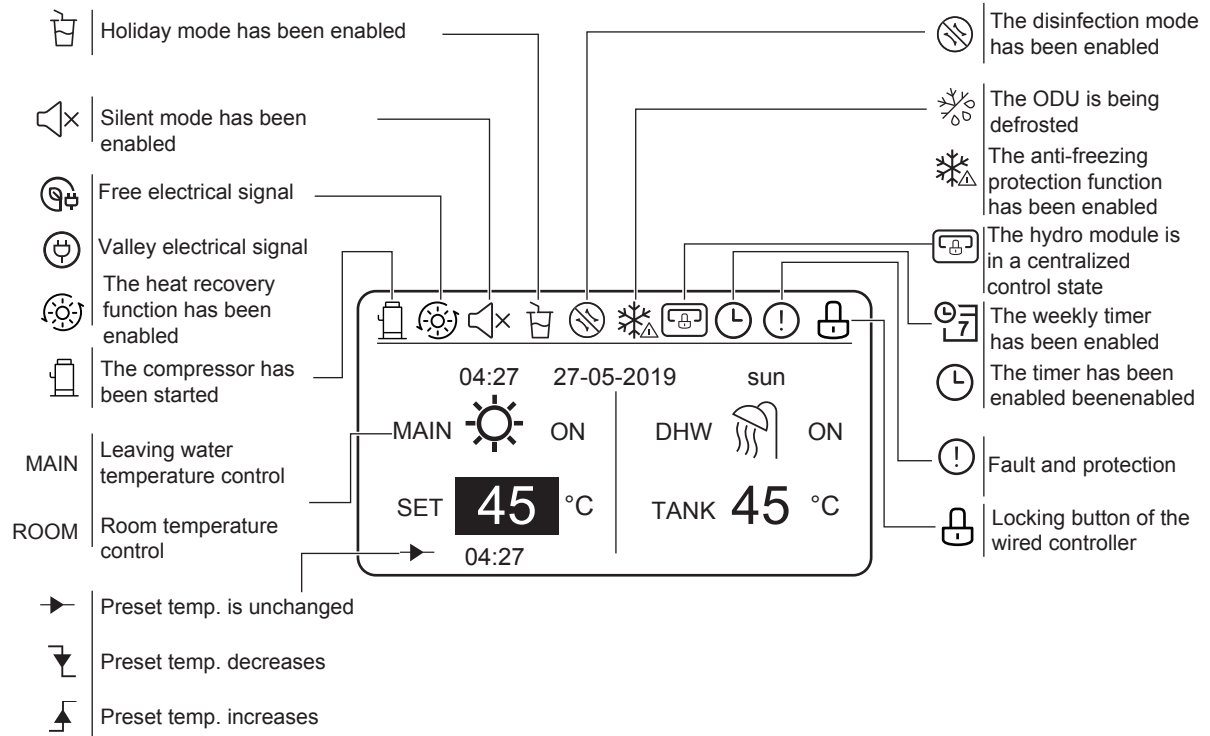
- Placed in a location away from radiation.
- Min. water pressure: 1 bar .
- Max. water pressure: 3 bar.
- Min. water temperature: 5°C.
- Max. water temperature: 80 °C.
- Please release pressure before disassembly, Gastightness Test 3.1Mpa for R134a loop, 4.0MPa for R410a loop.
- For appliances intended for use at altitudes exceeding 2000 m, the maximum altitude of use shall be stated.

2 A GLANCE OF THE USER INTERFACE

2.1 The appearance of the wired controller



2.2 Status Icons



3 USING HOME PAGES

The hydro module features the heating function and DHW function, which can be classified into the hydro module that supports heat mode only ("FOR SERVICEMAN" > "Heat mode setting" > "HEAT MODE=YES" and "FOR SERVICEMAN" > "DHW mode setting" > "DHW MODE=NON"), the hydro module that supports DHW mode only ("FOR SERVICEMAN" > "Heat mode setting" > "HEAT MODE=NON" and "FOR SERVICEMAN" > "DHW mode setting" > "DHW MODE=YES"), and the hydro module that supports both heat mode and DHW mode ("FOR SERVICEMAN" > "Heat mode setting" > "HEAT MODE=YES" and "FOR SERVICEMAN" > "DHW mode setting" > "DHW MODE=YES"). The heat mode is classified into leaving water temperature control ("FOR SERVICEMAN" > "Heat mode setting" > "LEAVING WATER TEMP.=YES") and room temperature control ("FOR SERVICEMAN" > "Heat mode setting" > "ROOM TEMP.=YES"). The leaving water temperature control and room temperature control is either-or. In leaving water temperature control mode, the hydro module sets the desired leaving water temperature and operates according to the defined desired temperature. In room temperature control mode, the hydro module sets the desired room temperature and conducts control according to the room temperature collected by the wired controller.

The wired controller interfaces are subject to on-site settings. Definitions of symbols of the wired controller:

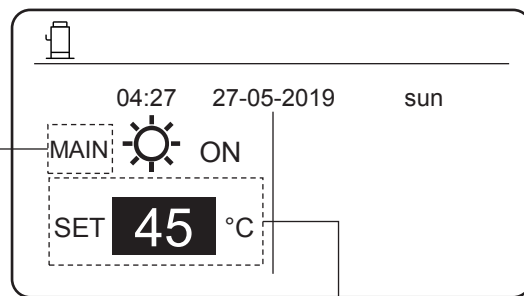
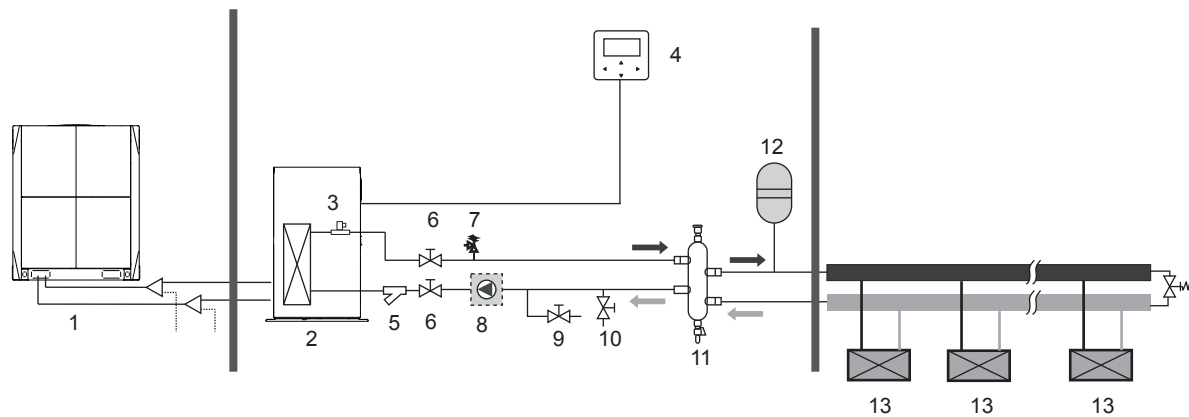
ROOM---Room temperature control

MAIN---Leaving water temperature control

DHW--- Domestic hot water mode

Scenario 1

Only heating mode is available and the hydro module is operating in leaving water temperature control mode. (For more information, please read the Installation Manual.)



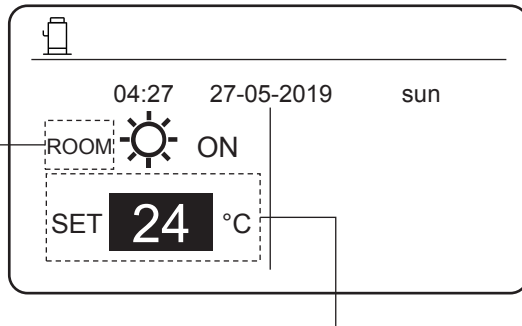
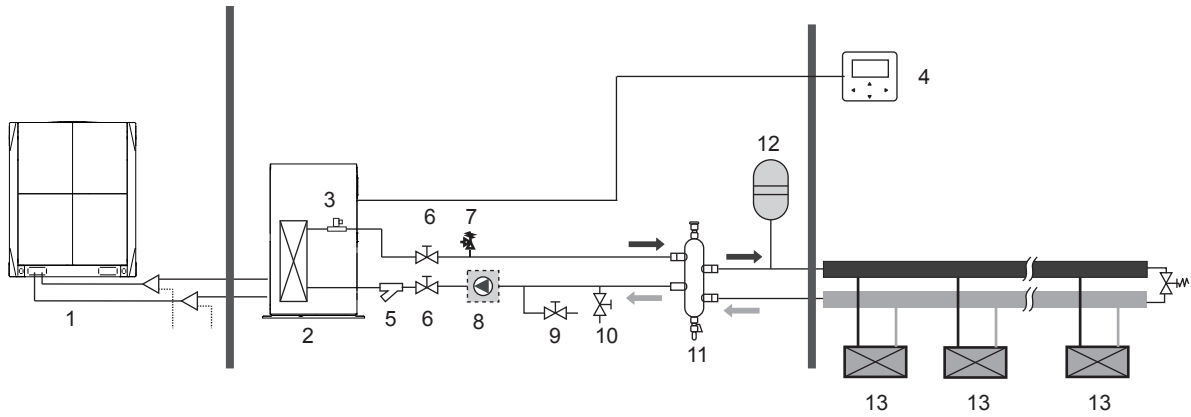
Indicates that the hydro module operates in leaving water temperature control mode.

Sets the desired leaving water temperature, ranging from 25°C to 80°C.

Scenario 2

Only heat mode is available and the hydro module operates in room temperature control mode. (For more information, please read the Installation Manual.)

Note: The wired controller must be installed indoors, where heating is required. The wired controller is equipped with a temperature sensor for detecting room temperature.

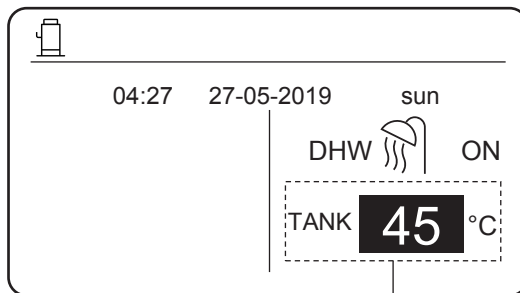
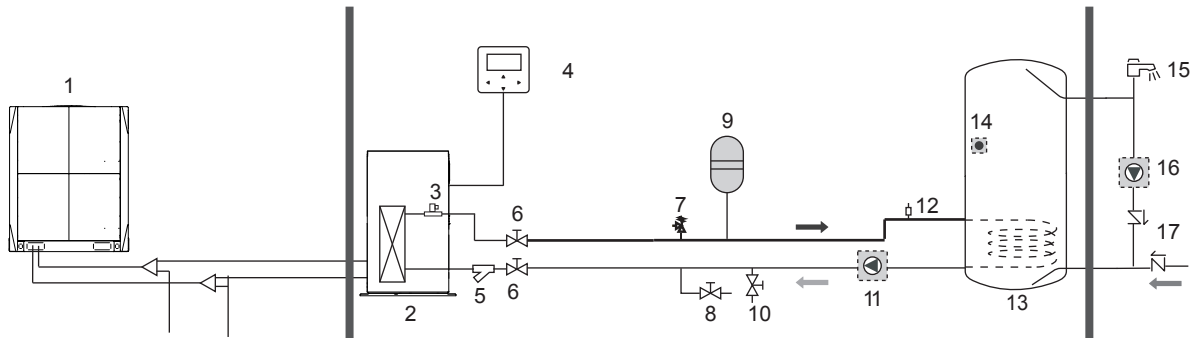


Indicates that the hydro module operates in room temperature control mode.

Sets the desired room temperature, ranging from 17°C to 30°C

Scenario 3

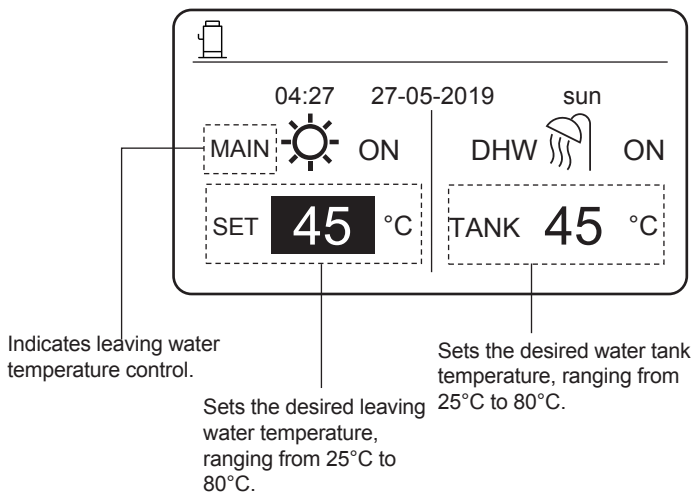
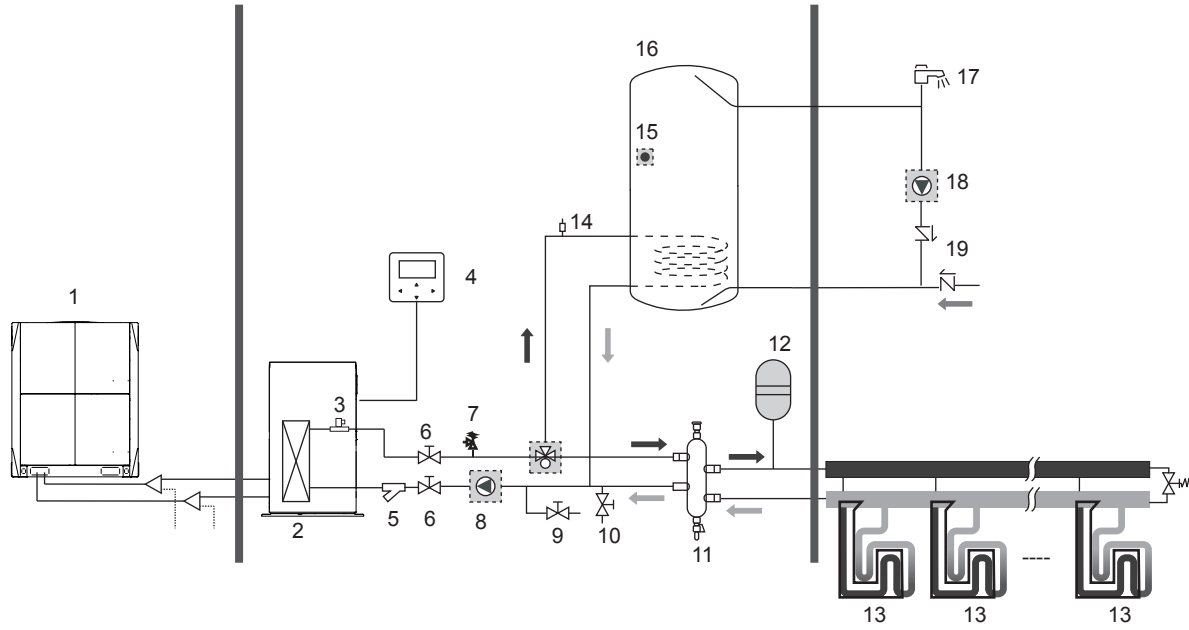
Only DHW mode is available. (For more information, please read the Installation Manual.)



Sets the desired water tank temperature, ranging from 25°C to 80°C

Scenario 4

Both heat mode and DHW mode are available. (For more information, please read the Installation Manual.)

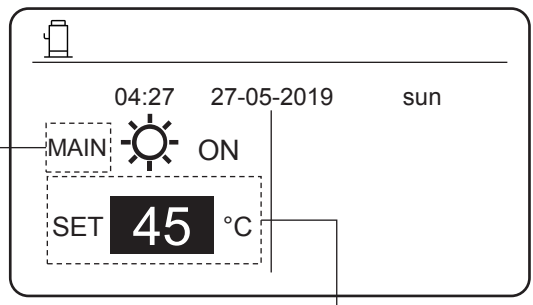
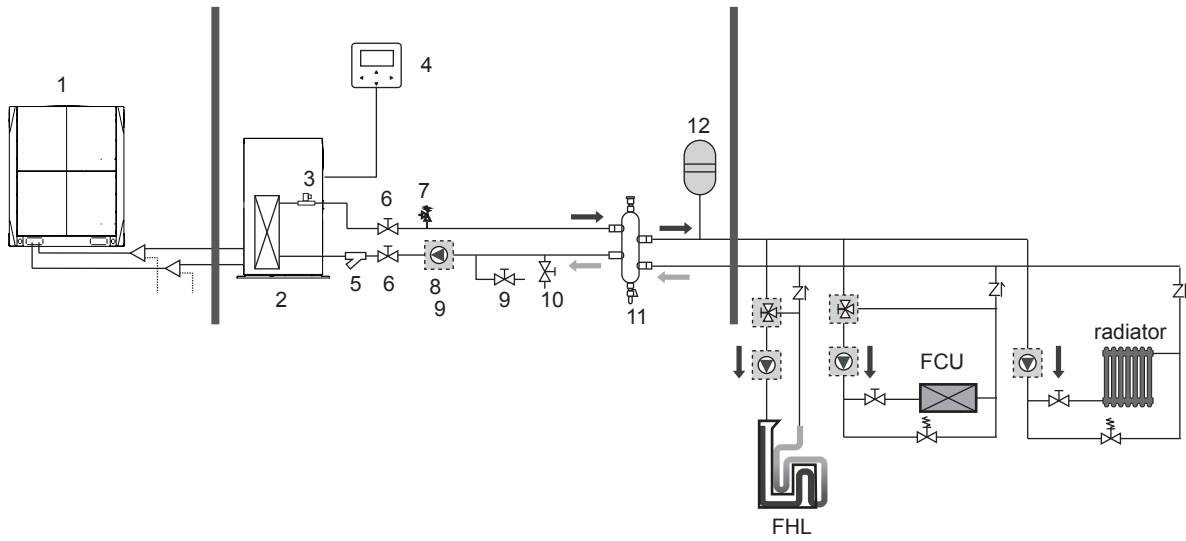


Scenario 5

Only heat mode is available and there are multiple set points for the heat mode. (For more information, please read the Installation Manual and see "Multiple Set Points" on Page 14 in this document.)

The settings of multiple set points do not affect the main interface. The temperature of multiple set points is set through the menu of the wired controller, while only the space 0 room temperature is set on the main interface.

Note: The temperature of multiple set point 2 is lower than the temperature of multiple set point 1 and the temperature of multiple set point 1 is lower than the temperature set on the main interface.



MAIN: Leaving water temperature control

Sets the desired temperature of the main set point.

ROOM: Room temperature control

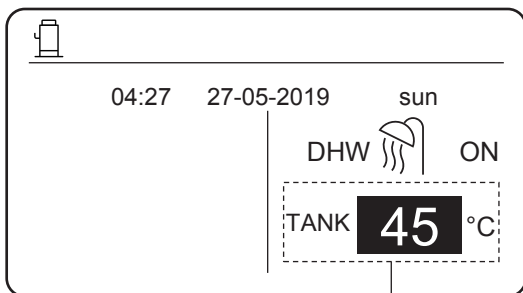
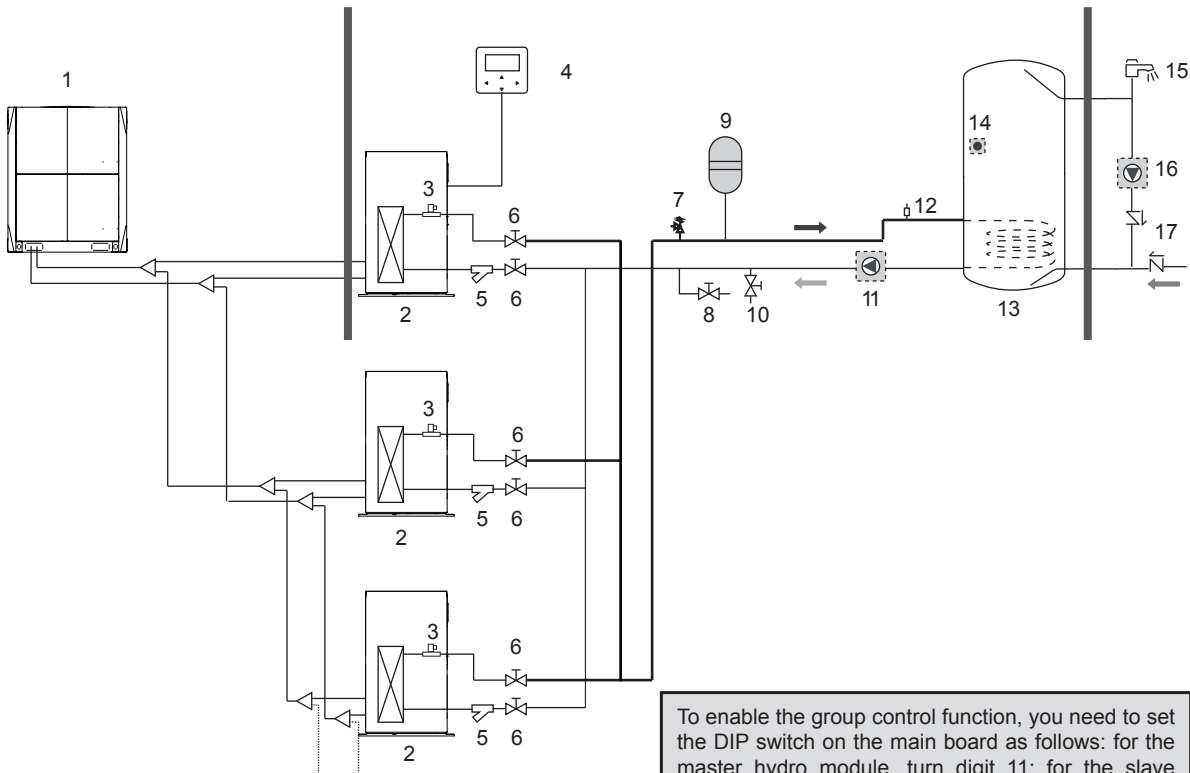
Scenario 6

Group control of the hydro module.

When multiple hydro modules heat water in one water tank, the group control function of the hydro module should be used. (For more information, please read the Installation Manual.) The group control function is only valid for the DHW mode.

Notes:

1. The group control function of the hydro module is valid for the DHW mode only.
2. Master and slave hydro modules should be set. For instructions on how to set master and slave hydro modules, see the Installation Manual.
3. The master hydro module must be connected to a wired controller. The main wired controller can be used to set temperature.
4. The slave hydro module can be connected to or not connected to a wired controller. The slave wired controller provides limited functions, such as parameter query.
5. The circulating pump and water tank temperature sensor should be connected to the master hydromodule.



Sets the desired water tank temperature, ranging from 25°C to 80°C.

To enable the group control function, you need to set the DIP switch on the main board as follows: for the master hydro module, turn digit 11; for the slave hydro module, turn digit 10:

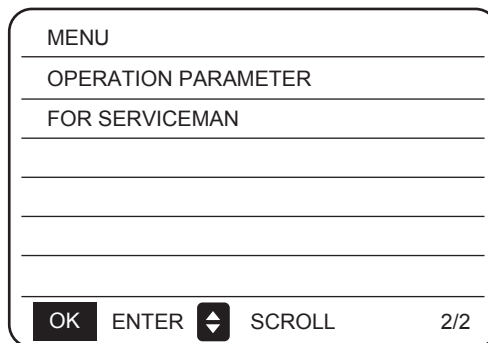
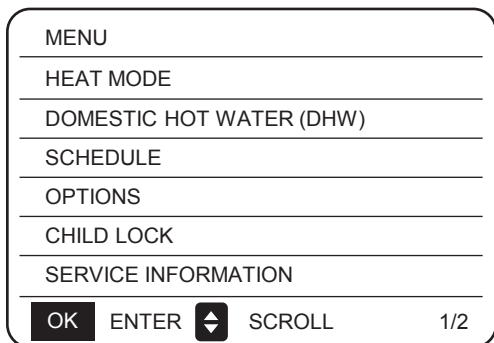
Group control function setting:
 00 and 01: Group control function is unavailable.
 11: Group control function is available. This hydro module is a master hydro module.
 10: Group control function is available. This hydro module is a slave hydro module.
 (By default, the value is 00, indicating that a controlled group contains only one master unit.)
 ON=1, OFF=0

Notes:

1. The master unit must be connected to a wired controller. The wired controller is used to set the desired water tank temperature.
2. The slave unit can be connected to or not connected to a wired controller. The wired controller of the slave unit provides the query function only.
3. The pump is controlled by the master unit. The temperature sensor of the water tank is connected to the master unit.
4. The wired controller connected to the master unit is used to set the desired water tank temperature.




4 MENU

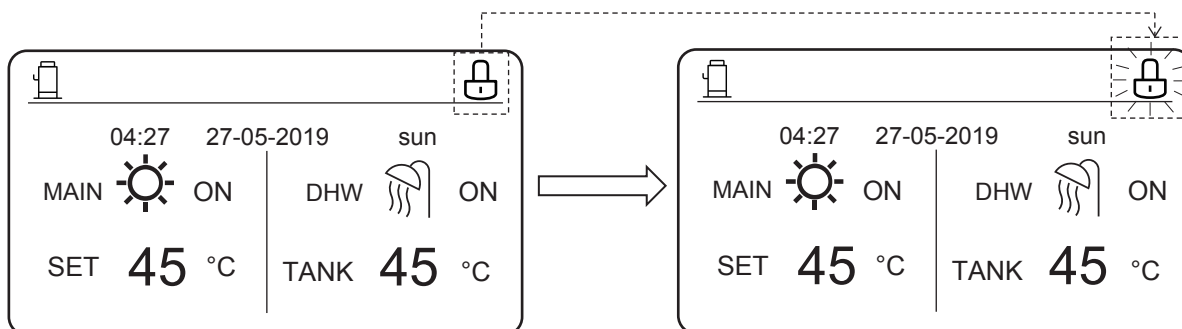
On the main interface, press **MENU**. The following interface is displayed.



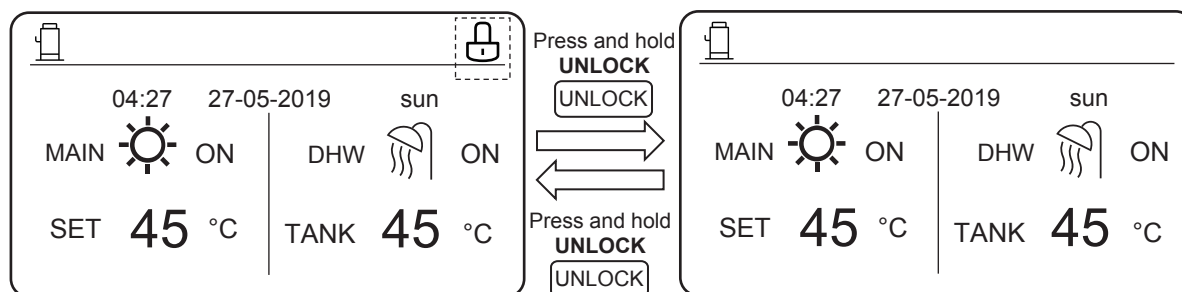
5 BASIC APPLICATION

5.1 Unlocking the Screen

If the  icon is displayed on the screen, it indicates that the wired controller has been locked. If you press any key, the  icon blinks. Press and hold the **UNLOCK** key, the  icon will disappear. In this case, you can operate using the wired controller interface.

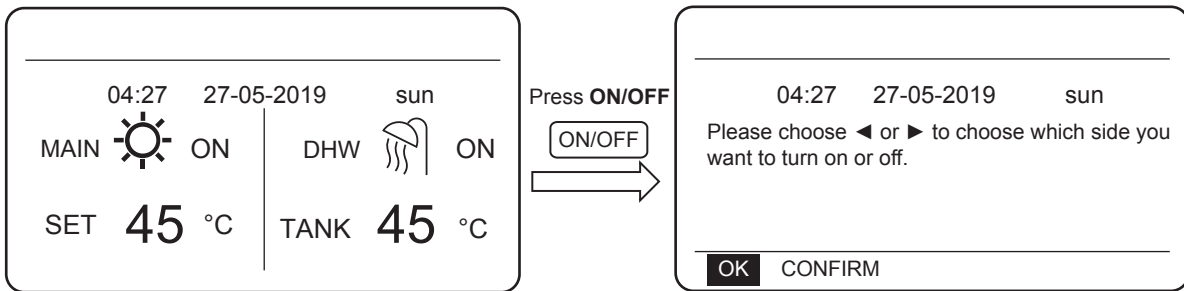


If you do not operate the wired controller for a long time (by default, 120s, which can be set on the wired controller. For details, see section 6.7 "Service Information"), the wired controller will lock automatically. If the wired controller is unlocked, press and hold the **UNLOCK** key, and the wired controller will be locked.



On the main interface, if you press the **ON/OFF** key, you cannot enable/disable any function, and the following prompt is displayed:

Press **▲** to enter main interface settings. Press **▶** or **◀** to select the mode to be set.



5.2 Enabling/Disabling Mode and Setting Temperature

Both heat mode and DHW mode can be enabled and disabled through the wired controller.

5.2.1 Heat Mode

There are two control methods for the heat mode:

- Leaving water temperature control
- Room temperature control

Leaving water temperature control

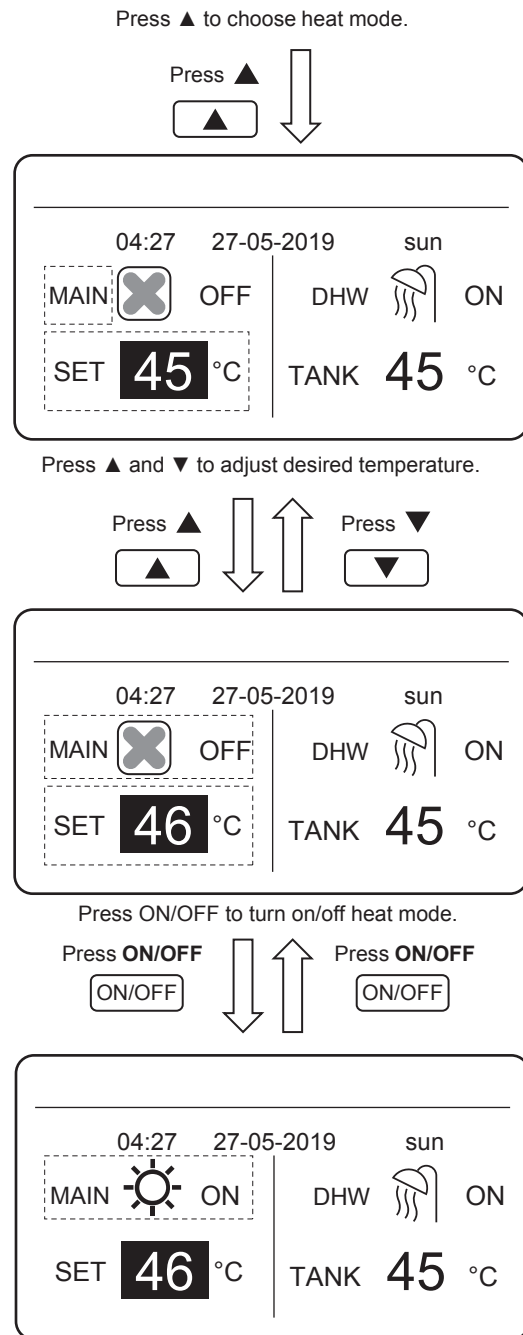
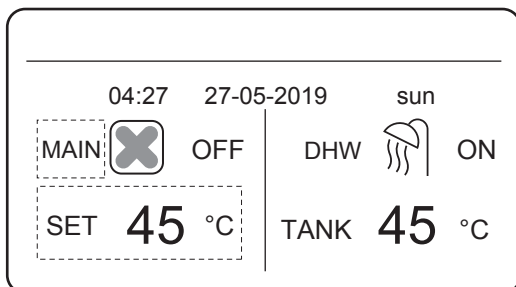
In leaving water temperature control mode, the hydro module operates according to the defined leaving water temperature so that the water outlet temperature reaches the desired leaving water temperature. The water outlet temperature can be set manually, or through the timer function.

- Steps for setting the leaving water temperature control mode of the hydro module: **MENU > FOR SERVICEMAN > HEAT MODE > LEAVING WATER TEMP.**
- Set **LEAVING WATER TEMP.** to **YES**.
- The desired leaving water temperature ranges from 25°C to 80°C.
- Sets the mode to leaving water temperature control and heating main interface to MAIN.

Notes:

If **LEAVING WATER TEMP.** is set to YES, **ROOM TEMP.** is automatically set to **NON**. If **ROOM TEMP.** is set to **YES**, **LEAVING WATER TEMP.** is automatically set to **NON**.

After setting, take the following steps to enable/disable the heat mode and adjust the desired water outlet temperature.



Room temperature control

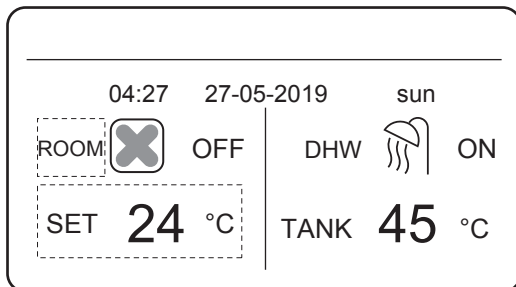
In room temperature control mode, set the desired room temperature. The hydro module will control the operating of the hydro module according to the room temperature collected by the wired controller. The desired room temperature can be set manually, or through the timer function and weather temperature curve.

- Take the following steps to set room temperature control mode: **MENU > FOR SERVICEMAN > HEAT MODE > ROOM TEMP.**
- Set **ROOM TEMP.** to **YES**.
- Room temperature ranges from 17 C to 30 C.
- Sets the mode to water outlet temperature control and heating main interface to ROOM.

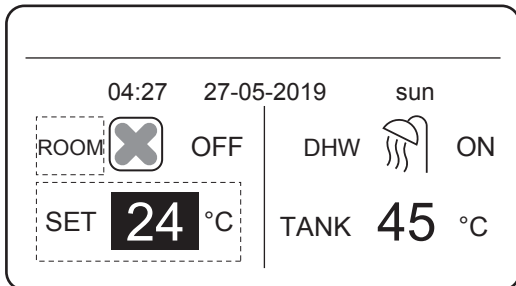
Notes:

1. The wired controller should be installed where heating is needed.

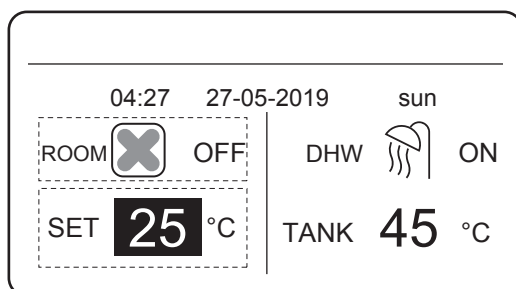
If **LEAVING WATER TEMP.** is set to **YES**, **ROOM TEMP.** is automatically set to **NON**. If **ROOM TEMP.** is set to **YES**, **LEAVING WATER TEMP.** is automatically set to **NON**.



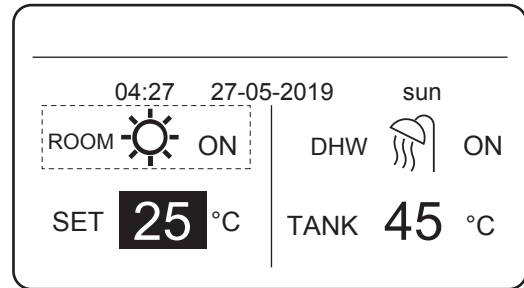
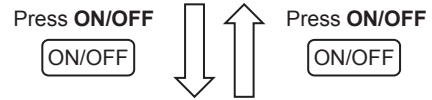
Press ▲ to choose heat mode.



Press ▲ and ▼ to adjust desired temperature.

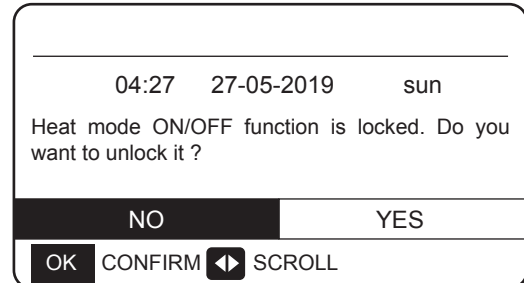
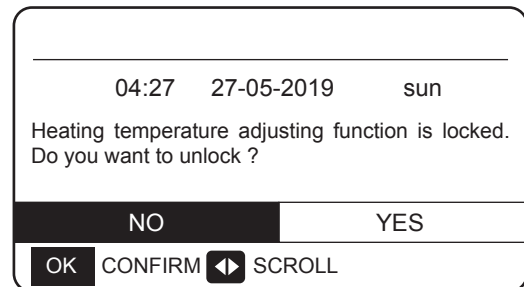



Press ON/OFF to turn on/off heat mode.



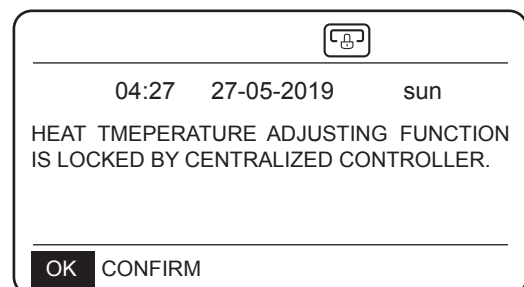
Assume that the temperature adjustment function in heat mode or mode on/off function are locked on the wired controller. If you adjust temperature or enable/disable a mode, the following interface is displayed:

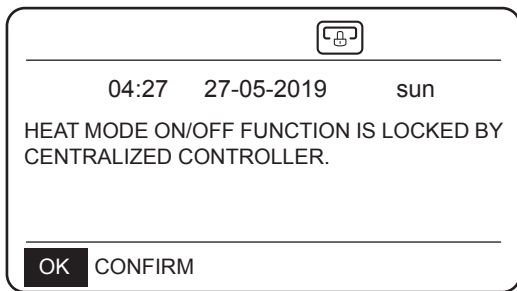
If you press **NO**, you will return to the main interface. If you press **YES**, you will enter the **CHILD LOCK** interface.



If temperature adjustment function or mode on/off function are locked on the centralized controller, the  icon on the top will be lit. If you adjust temperature or enable/disable a mode on the wired controller, the following interface is displayed:

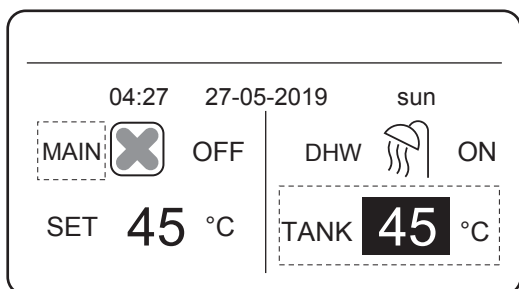
In this case, the hydro module can be only unlocked on the centralized controller.



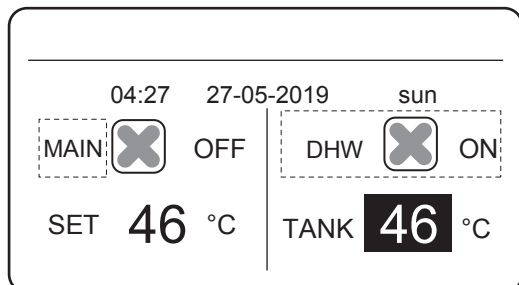
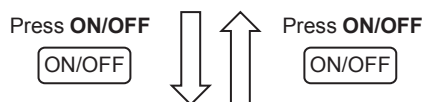
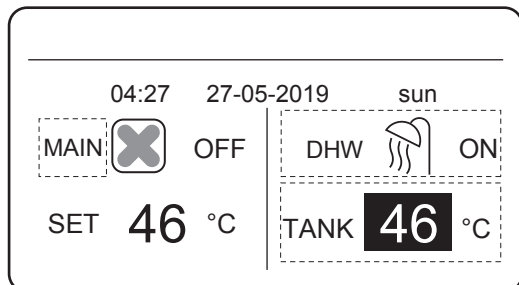
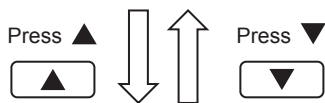


5.2.2 DHW Mode

- Take the following steps to set the DHW mode: **MENU > FOR SERVICEMAN > DHW MODE.**
- Set **DHW MODE** to **YES**.
- The water tank temperature ranges from 25°C to 80°C



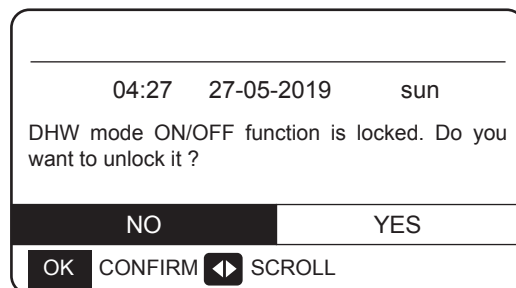
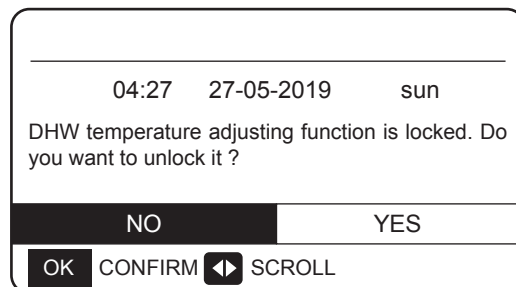
Press ▲ and ▼ to adjust desired temperature.



Press ON/OFF to turn on/off heat mode.

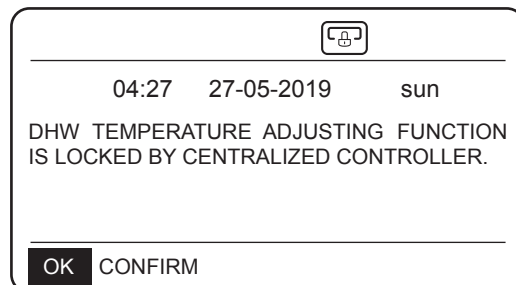
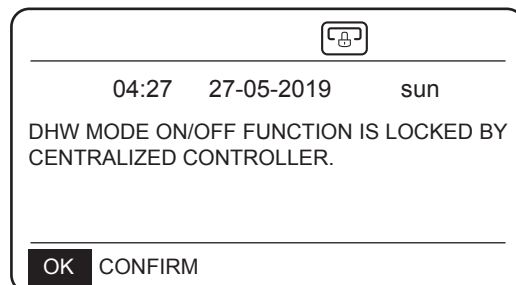
Assume that the temperature adjustment function in DHW mode or mode on/off function are locked on the wired controller. If you adjust temperature or enable/disable a mode, the following interface is displayed:

If you press **NO**, you will return to the main interface. If you press **YES**, you will enter the **CHILD LOCK** interface.



If temperature adjustment function or mode on/off function are locked on the centralized controller, the lock icon on the top will be lit. If you adjust temperature or enable/disable a mode on the wired controller, the following interface is displayed:

In this case, the hydro module can be only unlocked on the centralized controller.



6 FUNCTIONS

6.1 HEAT MODE

In heat mode, PRESET TEMP., WEATHER TEMP. SET, MULTIPLE SET POINT are available.

6.1.1 PRESET TEMP.

PRESET TEMP. is used to set different desired water outlet temperatures at different times.

- PRESET TEMP. = PRESET TEMPERATURE
- The PRESET TEMP. function will be automatically disabled in the following conditions:
 - 1) Timer is set.
 - 2) Weekly schedule is set.

Take the following steps to enable PRESET TEMP.:
MENU > PRESET TEMPERATURE > PRESET TEMP.
 Press **OK**.

The following interface is displayed:

| HEAT MODE | | |
|--------------|--------------------------|--------------------|
| PRESET TEMP. | WEATHER TEMP. SET | MULTIPLE SET POINT |
| No. | TIME | TEMP. |
| 1 | <input type="checkbox"/> | 00:00 45°C |
| 2 | <input type="checkbox"/> | 00:00 45°C |
| 3 | <input type="checkbox"/> | 00:00 45°C |

SCROLL 1/2

| HEAT MODE | | |
|--------------|--------------------------|--------------------|
| PRESET TEMP. | WEATHER TEMP. SET | MULTIPLE SET POINT |
| No. | TIME | TEMP. |
| 4 | <input type="checkbox"/> | 00:00 45°C |
| 5 | <input type="checkbox"/> | 00:00 45°C |
| 6 | <input type="checkbox"/> | 00:00 45°C |

SCROLL 2/2

use "▲", "▼", "▶", "◀" to scroll and use "▲", "▼" to adjust the time and the temperature. When the cursor is on "■", as in the following page:

| HEAT MODE | | |
|--------------|-------------------------------------|--------------------|
| PRESET TEMP. | WEATHER TEMP. SET | MULTIPLE SET POINT |
| No. | TIME | TEMP. |
| 1 | <input checked="" type="checkbox"/> | 00:00 45°C |
| 2 | <input type="checkbox"/> | 00:00 45°C |
| 3 | <input type="checkbox"/> | 00:00 45°C |

OK SELECT SCROLL 1/2

| HEAT MODE | | |
|--------------|-------------------------------------|--------------------|
| PRESET TEMP. | WEATHER TEMP. SET | MULTIPLE SET POINT |
| No. | TIME | TEMP. |
| 1 | <input checked="" type="checkbox"/> | 00:00 45°C |
| 2 | <input checked="" type="checkbox"/> | 00:00 45°C |
| 3 | <input checked="" type="checkbox"/> | 00:00 45°C |

OK CANCEL SCROLL 1/2

Press "OK", and the "■" becomes "▣". The timer 1 is selected. Press "OK" again, and "▣" becomes "■". The timer 1 is unselected.
 use "▲", "▼", "▶", "◀" to scroll and use "▲", "▼" to adjust the time and the temperature. Six temperatures can be set.

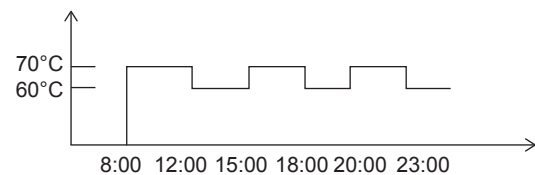
For example:

The time is 8:00 and temperature is 60°C. If PRESET TEMP. is set as follows, the hydro module will operate according to the following curve.

| HEAT MODE | | |
|--------------|--------------------------|--------------------|
| PRESET TEMP. | WEATHER TEMP. SET | MULTIPLE SET POINT |
| No. | TIME | TEMP. |
| 1 | <input type="checkbox"/> | 00:00 45°C |
| 2 | <input type="checkbox"/> | 00:00 45°C |
| 3 | <input type="checkbox"/> | 00:00 45°C |
| 4 | <input type="checkbox"/> | 00:00 45°C |
| 5 | <input type="checkbox"/> | 00:00 45°C |
| 6 | <input type="checkbox"/> | 00:00 45°C |

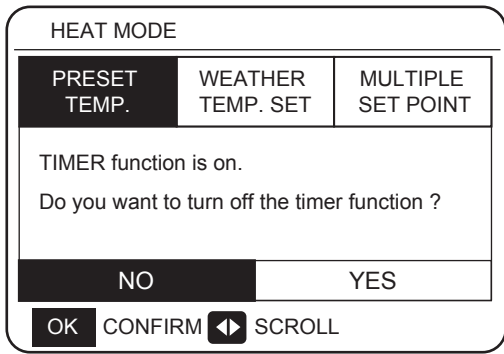
04:27 27-05-2019 sun
 MAIN ON
 SET **45** °C
 04:27

| No. | TIME | TEMP. |
|-----|-------|-------|
| 1 | 8:00 | 70°C |
| 2 | 12:00 | 60°C |
| 3 | 15:00 | 70°C |
| 4 | 18:00 | 60°C |
| 5 | 20:00 | 70°C |
| 6 | 23:00 | 60°C |

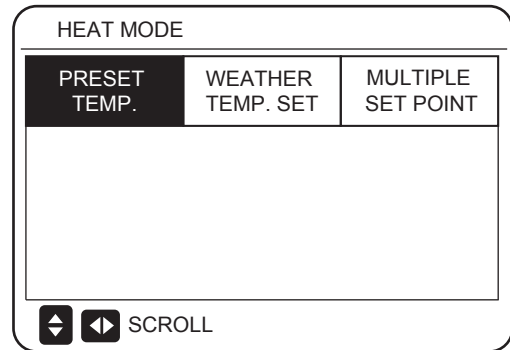


Notes:

1. When the multiple set point function is enabled, the PRESET TEMP. function is valid to space0 only.
2. If the hydro module is powered off, the preset temperature at the current time is invalid. The hydro module will be started at the time point where the next preset temperature is set.
3. When the timer function is valid, if you move the cursor to **PRESET TEMP.** and press the **OK** key, the following prompt is displayed:

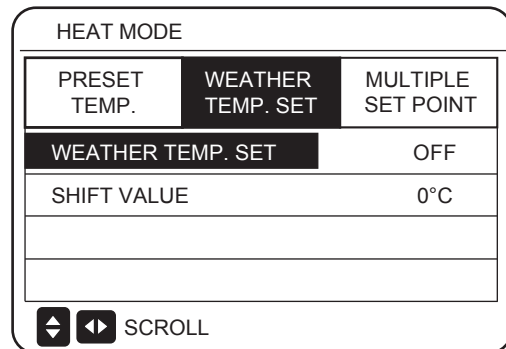
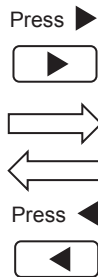
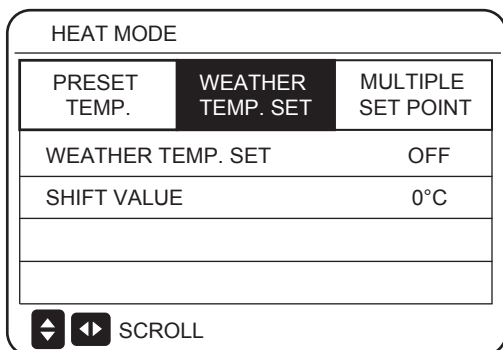


4. The preset temperature is only valid for the water outlet temperature control of heat mode. If **ROOM TEMP.** is set to **YES** on the wired controller, the following information is displayed:

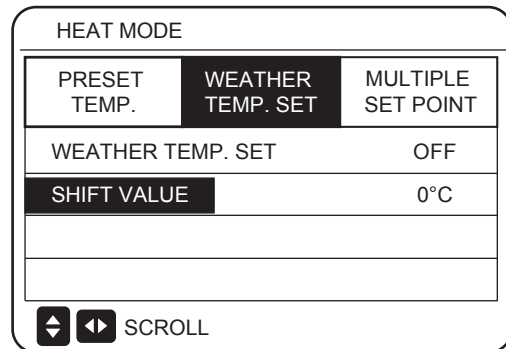
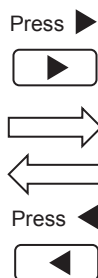
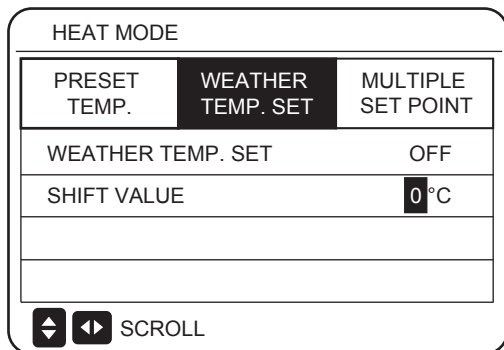


6.1.2 WEATHER TEMP. SET

- WEATHER TEMP. SET=WEATHER TEMPERATURE
- On the **WEATHER TEMP.SET** page, you cannot set the desired water outlet temperature. The desired water outlet temperature is calculated according to the outside ambient temperature. The higher the outside ambient temperature, the lower the desired water temperature.
- During the operation of the weather temperature curve, you can set the shift value of the weather temperature curve with the range of [-5,+5]. The shift value is the difference between the calculation value and the actual operation value. Example: +5°C indicates that the actual operation value is 5°C greater than the calculation value.
- Take the following steps to set the weather temperature curve: **MENU > PRESET TEMPERATURE > WEATHER TEMP. SET**. Press **OK**. The following interface is displayed:

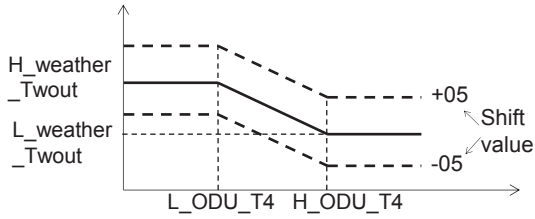


Press ON/OFF button to turn on/off weather temperature function.



Press "▲" or "▼" to adjust the shift value.

You can set the following 4 parameters in FOR SERVICEMAN. (See "FOR SERVICEMAN".)



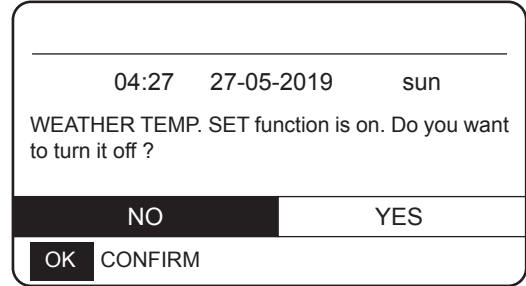
H_ODU_T4: high outdoor temperature (indicates the high temperature point among outdoor ambient temperature)

L_ODU_T4: low outdoor temperature (indicates the low temperature point among outdoor ambient temperature)

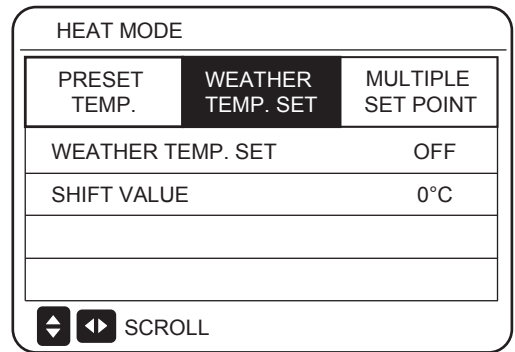
L_weather_Twout: the desired leaving water temperature when the outdoor temperature equals or drops below the low ambient temperature (indicates that the desired water outlet temperature is lower than the low temperature point of the outdoor ambient temperature)

H_weather_Twout: the desired leaving water temperature when the outdoor temperature equals or rises above the high ambient temperature (indicates the desired water outlet temperature is higher than the high temperature point of the outside ambient temperature)

If Weather TEMP.SET is enabled, you cannot set the desired water outlet temperature. If you press ▼ or ▲, the following interface is displayed.



Press **OK** at **NO** to return to the main interface. Move the cursor to **YES**, and then press **OK**. The weather temperature curve setting interface is displayed as follows.

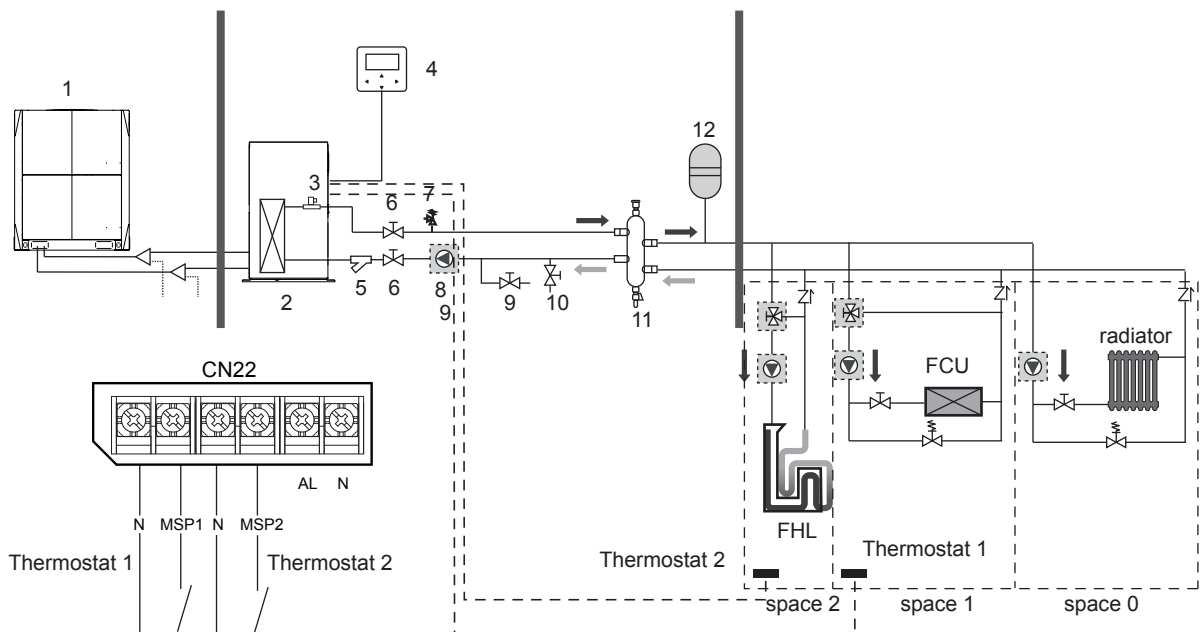


6.1.3 Multiple Set Point Function

When the hydro module is connected to multiple terminals that raise different water temperature requirements, you need to use the multiple set point function. The multiple set point function is used to set the desired water outlet temperature of space1 and space2. (For more information, please read the Installation Manual.)

The hydro module will calculate the space that requires energy and operate at the highest water temperature among the water outlet temperature requirements.

Note: For space 0, water temperature is set on the main interface.



Notes:

1. The hydro module can meet the control requirements at different water temperatures. You must connect an external third-party temperature reduction device to the circuits of space1 and space2.

2. The multiple set point switch can be set on the FOR SERVICEMAN interface of the wired controller. If multiple set point 1=YES or multiple set point 2=YES, this indicates that multiple set points exist.

3. On the wired controller, multiple set point 1 required temp. is corresponding to the required water temperature of multiple set point 1, while multiple set point 2 required temp. is corresponding to the required water temperature of multiple set point 2.

4. The energy demand of space 1 is determined according to the thermostat 1. If thermostat 1 is on, it indicates that there is an energy demand, while if thermostat 1 is off, it indicates that energy is not demanded.

5. The energy demand of space 2 is determined according to the thermostat 2. If thermostat 2 is on, it indicates that there is an energy demand, while if thermostat 2 is off, it indicates that energy is not demanded.

| HEAT MODE | | |
|-----------------------|-------------------|--------------------|
| PRESET TEMP. | WEATHER TEMP. SET | MULTIPLE SET POINT |
| SPACE 1 DESIRED TEMP. | | 45 °C |
| SPACE 2 DESIRED TEMP. | | 30 °C |
| SCROLL | | |

| | Desired temperature | Thermo status (energy demand status) | | | |
|-------------------------|---------------------|--------------------------------------|--------|--------|-----|
| | | OFF | ON | OFF | OFF |
| space 0 | a | OFF | ON | OFF | OFF |
| space 1 | b | OFF | ON/OFF | ON | OFF |
| space 2 | c | OFF | ON/OFF | ON/OFF | ON |
| Resulting desired temp. | OFF | a | b | c | |

6.2 DOMESTIC HOT WATER (DHW)

DOMESTIC HOT WATER (DHW) has DISINFECT/DHW PUMP 2 items.

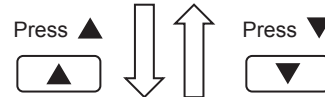
6.2.1 Disinfection Mode

In disinfection mode, legionella bacteria can be killed. In disinfection mode, the water tank temperature will forcedly rise to 70°C to 80°C. The disinfection temperature can be set on the FOR SERVICEMAN interface.

Choose **MENU > DOMESTIC HOT WATER > DISINFECT**. Press **OK**. The following interface is displayed.

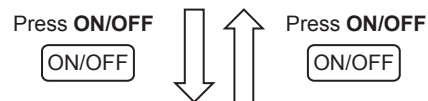
DOMESTIC HOT WATER (DHW)

| | |
|---------------|----------|
| DISINFECT | DHW PUMP |
| CURRENT STATE | OFF |
| OPERATION DAY | FRI. |
| START | 23:00 |
| SCROLL | |



DOMESTIC HOT WATER (DHW)

| | |
|---------------|----------|
| DISINFECT | DHW PUMP |
| CURRENT STATE | OFF |
| OPERATION DAY | FRI. |
| START | 23:00 |
| SCROLL | |



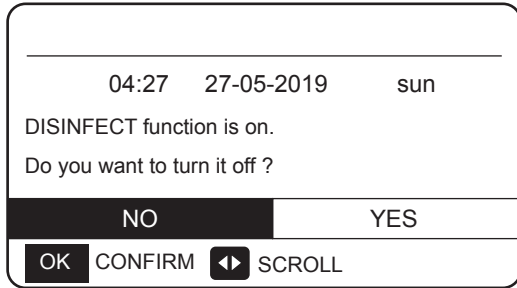
DOMESTIC HOT WATER (DHW)

| | |
|---------------|----------|
| DISINFECT | DHW PUMP |
| CURRENT STATE | ON |
| OPERATION DAY | FRI. |
| START | 23:00 |
| SCROLL | |

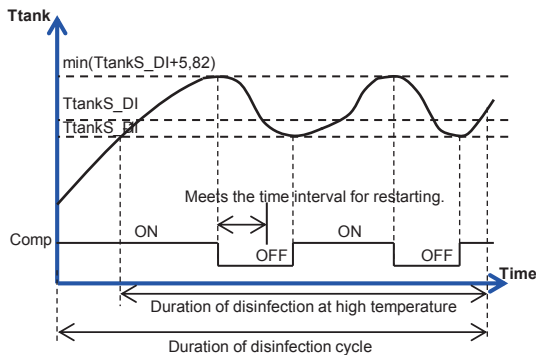
Use “◀”, “▶”, “▼”, “▲” to scroll and use “▼”, “▲” to adjust the parameters when setting “OPERATE DAY” and “START”. If the OPERATE DAY is set to FRIDAY and the START is set 23:00, the disinfect function will activate at 23:00 on Friday. If the disinfect function is running, the following page will appear:

| | | | | | |
|-------|----|------------|------|-----|----|
| 23:00 | | 27-05-2019 | | sun | |
| ROOM | ☀️ | ON | DHW | 💧 | ON |
| SET | 25 | °C | TANK | 45 | °C |

Note:
When the hydro module operates in disinfection mode, if you press the **On/Off** key, the pressing is invalid and the following interface is displayed.

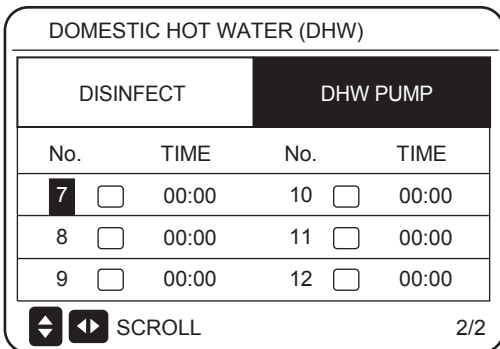
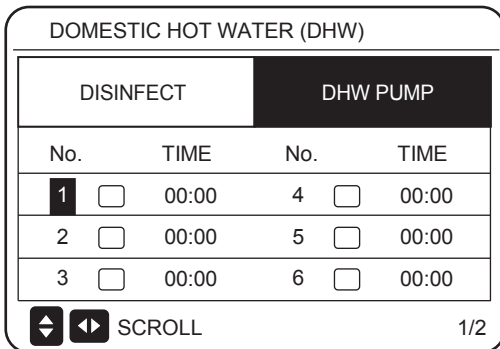


In disinfection mode, the hydro module will operate according to the following figure. The water temperature of the water tank will keep the disinfection temperature $T_{\text{tank_DI}}$.

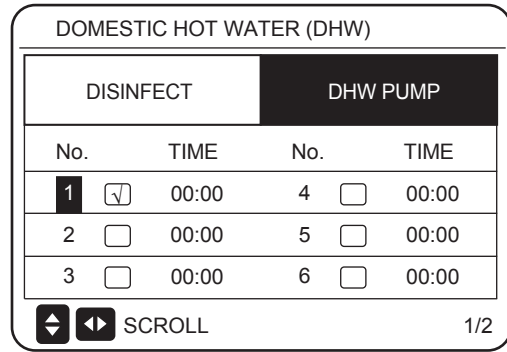


6.2.2 DHW PUMP

The DHW PUMP function is used to control the start time of the water tank and pump so that hot water can flow out of the tap at any time. Choose **MENU > DOMESTIC HOT WATER > DHW PUMP**. Press **OK**. The following interface is displayed.



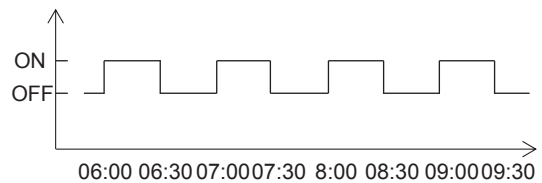
Move to "■", press "OK" to select or unselect. (the timer is selected. the timer is unselected.)



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

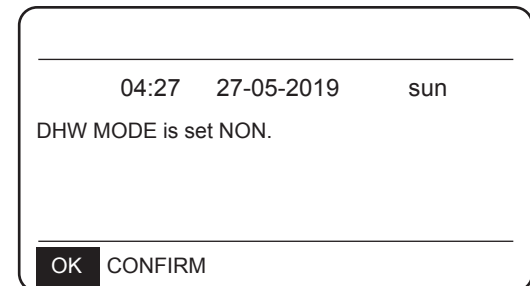
For example: You have set the parameter about the DHW PUMP (See "FOR SERVICEMAN" > "DHW MODE SETTING" on "Installation manual"). PUMP RUNNING TIME is 30 minutes. Set as follows:

| No. | START |
|-----|-------|
| 1 | 06:00 |
| 2 | 07:00 |
| 3 | 08:00 |
| 4 | 09:00 |

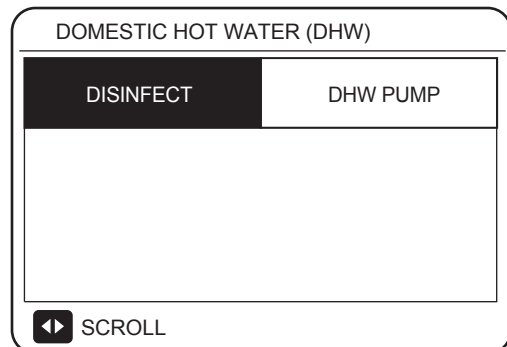


Notes:

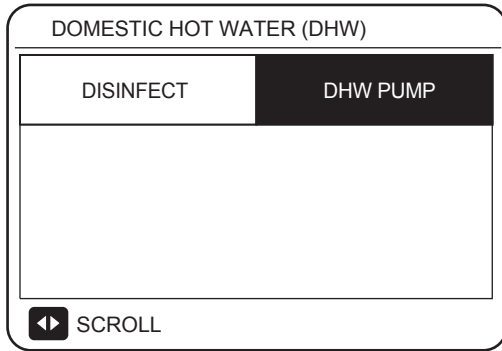
1. If DHW MODE=NON, choose **MENU > DOMESTIC HOT WATER**. Press **OK**. The following interface is displayed.



2. If DISINFECT MODE=NON on the FOR SERVICEMAN interface, choose **MENU > DOMESTIC HOT WATER > DOMESTIC HOT WATER**. Press **OK**. The following interface is displayed.



3. If DHW PUMP RUNNING TIME=NON, choose **MENU** > **DOMESTIC HOT WATER** > **DHW PUMP**. Press **OK**. The following interface is displayed.




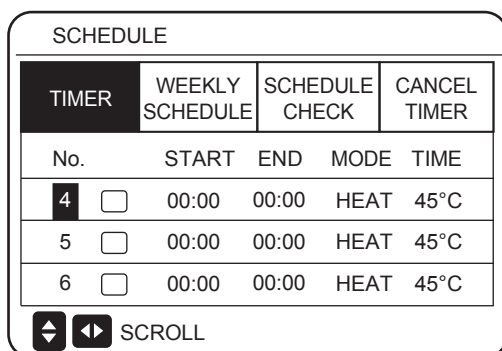
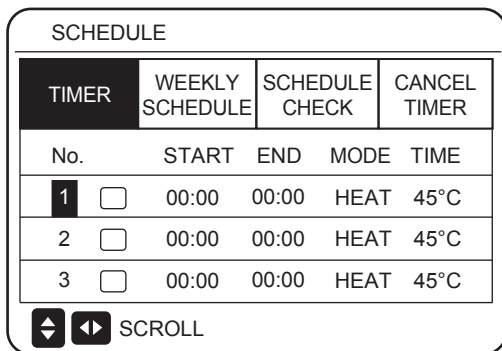
6.3 SCHEDULE Function

The **SCHEDULE** menu contains the following items:

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

6.3.1 TIMER Function

If the timer function is enabled, the icon  will be displayed on the main interface of the wired controller. If the weekly schedule function is enabled, the timer function will be disabled.

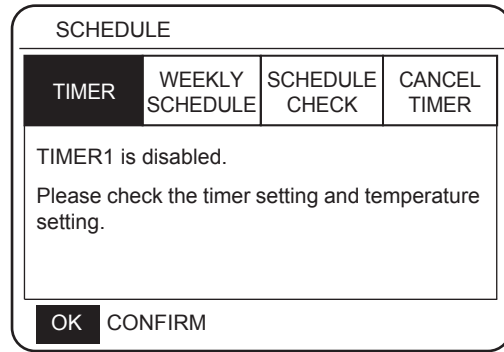


Use "◀", "▶", "▼", "▲" to scroll and use "▼", "▲" to adjust the time, the mode and the temperature.

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, change the cursor to "■", and press "OK". The will become , and the timer is disabled.

If the start time is later than the end time, the following interface is displayed.

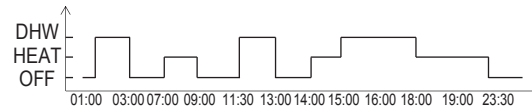


For example:

Six groups of schedules are set, as shown in the following table:

| No. | START | END | MODE | TEMP. |
|-----|-------|-------|------|-------|
| 1 | 1:00 | 3:00 | DHW | 70 |
| 2 | 7:00 | 9:00 | HEAT | 50 |
| 3 | 11:30 | 13:00 | DHW | 70 |
| 4 | 14:00 | 16:00 | HEAT | 50 |
| 5 | 15:00 | 19:00 | DHW | 70 |
| 6 | 18:00 | 23:30 | HEAT | 50 |

The hydro module will operate as shown in the following figure:



| TIME | The operation of the controller |
|-------|---------------------------------------------------|
| 1:00 | DHW mode is turned ON |
| 3:00 | DHW mode is turned OFF |
| 7:00 | HEAT MODE is turned ON |
| 9:00 | HEAT MODE is turned OFF |
| 11:30 | DHW MODE is turned ON |
| 13:00 | DHW MODE is turned OFF |
| 14:00 | HEAT MODE is turned ON |
| 15:00 | DHW MODE is turned ON and HEAT MODE is turned OFF |
| 18:00 | HEAT MODE is turned ON and DHW MODE is turned OFF |
| 23:30 | HEAT mode is turned OFF |

Note:

If the start time is the same as the end time, the schedule is invalid.

6.3.2 WEEKLY SCHEDULE

Timer and weekly schedule cannot take effect at the same time. The time which is set later will take effect first. If the weekly schedule is set, the icon will be displayed on the main interface.

Choose **MENU > SCHEDULE > WEEKLY SCHEDULE**. Press **OK**. The following interface is displayed.

| SCHEDULE | | | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| TIMER | WEEKLY SCHEDULE | SCHEDULE CHECK | CANCEL TIMER | | | |
| MON. | TUE. | WED. | THU. | FRI. | SAT. | SUN. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ENTER | | | CANCEL | | | |
| OK | MON SELECT | ↓ | ↔ | SCROLL | | |

| SCHEDULE | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| TIMER | WEEKLY SCHEDULE | SCHEDULE CHECK | CANCEL TIMER | | | |
| MON. | TUE. | WED. | THU. | FRI. | SAT. | SUN. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ENTER | | | CANCEL | | | |
| OK | ENTER | ↓ | ↔ | SCROLL | | |

First select the days of the week you wish to schedule. Use "◀" and "▶" to scroll. Press "OK" to select or unselect the day. " " means that the day is selected, " **MON.** " means that the day is unselected.

Use "◀" or "▶" to SET, and press "ENTER". The Monday to Friday are selected to be scheduled and they have the same schedule. The following pages will appear:

| SCHEDULE | | | | | |
|----------|--------------------------|----------------|--------------|--------|------|
| TIMER | WEEKLY SCHEDULE | SCHEDULE CHECK | CANCEL TIMER | | |
| No. | START | END | MODE | TIME | |
| 1 | <input type="checkbox"/> | 00:00 | 00:00 | HEAT | 45°C |
| 2 | <input type="checkbox"/> | 00:00 | 00:00 | HEAT | 45°C |
| 3 | <input type="checkbox"/> | 00:00 | 00:00 | HEAT | 45°C |
| OK | MON SELECT | ↓ | ↔ | SCROLL | |

| SCHEDULE | | | | | |
|----------|--------------------------|----------------|--------------|--------|------|
| TIMER | WEEKLY SCHEDULE | SCHEDULE CHECK | CANCEL TIMER | | |
| No. | START | END | MODE | TIME | |
| 4 | <input type="checkbox"/> | 00:00 | 00:00 | HEAT | 45°C |
| 5 | <input type="checkbox"/> | 00:00 | 00:00 | HEAT | 45°C |
| 6 | <input type="checkbox"/> | 00:00 | 00:00 | HEAT | 45°C |
| OK | MON SELECT | ↓ | ↔ | SCROLL | |

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 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 disabled.

6.3.3 SCHEDULE CHECK

Schedule check can only check the weekly schedule. Go to "MENU" > "SCHEDULE" > "SCHEDULE' CHECK". Press "OK". The following page will appear:

| SCHEDULE | | | |
|------------------------|-----------------|----------------|--------------|
| TIMER | WEEKLY SCHEDULE | SCHEDULE CHECK | CANCEL TIMER |
| WEEKLY SCHEDULE CHECK. | | | |
| | | | |
| | | | |
| OK | ENTER | ↓ | ↔ |

| SCHEDULE | | | | | |
|----------|-------|--------------------------|------|--------|-------------|
| DAY | No. | MODE | SET | START | END |
| | T1 | <input type="checkbox"/> | HEAT | 45°C | 00:00 00:00 |
| | T2 | <input type="checkbox"/> | HEAT | 45°C | 00:00 00:00 |
| | T3 | <input type="checkbox"/> | HEAT | 45°C | 00:00 00:00 |
| | T4 | <input type="checkbox"/> | HEAT | 45°C | 00:00 00:00 |
| | T5 | <input type="checkbox"/> | HEAT | 45°C | 00:00 00:00 |
| | T6 | <input type="checkbox"/> | HEAT | 45°C | 00:00 00:00 |
| | ↓ | | | | |
| OK | ENTER | ↓ | ↔ | SCROLL | |

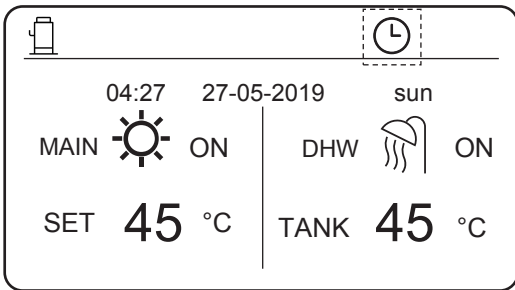
Press "▼", "▲", the timer from Monday to Sunday will appear.

6.3.4 CANCEL TIMER

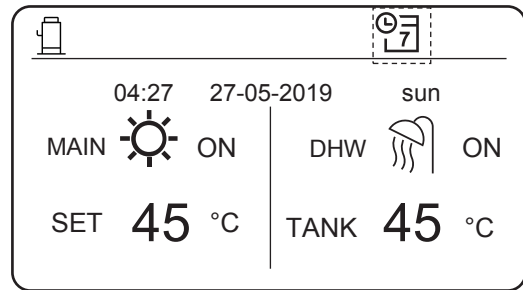
Go to "MENU" > "SCHEDULE" > "CANCEL TIMER". Press "OK". The following page will appear:

| SCHEDULE | | | |
|-------------------------------------------------------|-----------------|----------------|--------------|
| TIMER | WEEKLY SCHEDULE | SCHEDULE CHECK | CANCEL TIMER |
| Do you want to cancel the timer and weekly schedule ? | | | |
| | | | |
| ON | | YES | |
| OK | CONFIRM | ↕ | ↔ SCROLL |

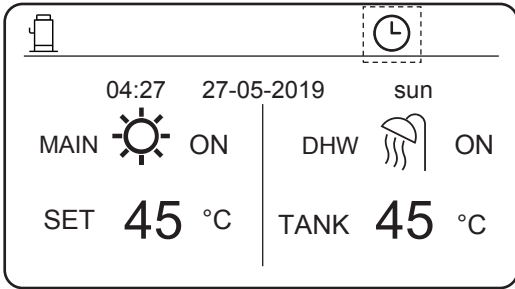
Use "◀", "▶", "▼", "▲" to move to "YES". Press "OK" to cancel the timer. If you want to exit CANCEL TIMER, press "BACK". If TIMER or WEEKLY SCHEDULE is activated, the timer icon "⌚" or weekly schedule icon "📅" will display on the home page. If TIMER or WEEKLY SCHEDULE is canceled, icon "⌚" or "📅" will disappear on the home page.



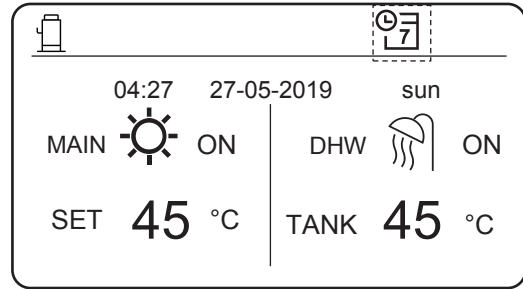
Home screen showing a timer icon (⌚) in the top right corner, which is highlighted with a dashed box. The screen displays: 04:27, 27-05-2019, sun. MAIN: [sun icon] ON, DHW: [umbrella icon] ON. SET: 45 °C, TANK: 45 °C.



Home screen showing a weekly schedule icon (📅) in the top right corner, which is highlighted with a dashed box. The screen displays: 04:27, 27-05-2019, sun. MAIN: [sun icon] ON, DHW: [umbrella icon] ON. SET: 45 °C, TANK: 45 °C.



Home screen showing a timer icon (⌚) in the top right corner, which is highlighted with a dashed box. The screen displays: 04:27, 27-05-2019, sun. MAIN: [sun icon] ON, DHW: [umbrella icon] ON. SET: 45 °C, TANK: 45 °C.



Home screen showing a weekly schedule icon (📅) in the top right corner, which is highlighted with a dashed box. The screen displays: 04:27, 27-05-2019, sun. MAIN: [sun icon] ON, DHW: [umbrella icon] ON. SET: 45 °C, TANK: 45 °C.

You have to reset TIMER/WEEKLY SCHEDULE, if you change the LEAVING WATER TEMP. to the ROOM TEMP. or you change the ROOM TEMP. to the LEAVING WATER TEMP.

6.4 OPTIONS



OPTIONS menu contents as follows:




- 1) SILENT MODE
- 2) HOLIDAY AWAY
- 3) HOLIDAY HOME

6.4.1 SILENT MODE



The silent mode is used to reduce the noise of the hydro module, which may degrade the capability of the hydro module. You can set the hydro module to always operate in silent mode or to enter silent mode within a period of time.



- On the main interface, you can check whether silent mode is enabled. If it is, the icon will be displayed on the main interface.
- Choose **MENU > OPTIONS > SILENT MODE**. Press **OK**. The following interface is displayed.

| OPTIONS | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME |
| CURRENT STATE | | OFF |
| TIMER | | ENTER |
| | | |
| | | |
|   SCROLL | | |


| OPTIONS | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME |
| CURRENT STATE | | OFF |
| TIMER | | ENTER |
| | | |
| | | |
|    SCROLL | | |

Choose **ON/OFF** to determine whether the silent mode is enabled. If **CURRENT STATE=OFF**, silent mode is invalid. If **CURRENT STATE=ON**, silent mode is valid. On the **TIMER** page, you can set the time for enabling the silent mode. Two periods of time can be set. The silent mode will be started at the **START** time, and disabled at the **END** time. If **TIMER** is not set, the hydro module will remain in silent mode.

| OPTIONS | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME |
| CURRENT STATE | | OFF |
| TIMER | | ENTER |
| | | |
| | | |
|   SCROLL | | |



| OPTIONS | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|-------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME | |
| No. | START | END | |
| 1 | <input type="checkbox"/> | 00:00 | 00:00 |
| 2 | <input type="checkbox"/> | 00:00 | 00:00 |
| | | | |
| | | | |
|   SCROLL | | | |

6.4.2 HOLIDAY AWAY


If holiday away mode is enabled, the  icon will be displayed on the main interface.

The holiday away mode can prevent water from freezing during holidays and start heating and water heating before you are back home, thus guaranteeing comfort and hot water at home.



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

| OPTIONS | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME |
| CURRENT STATE | | OFF |
| DHW MODE | | ON |
| DISINFECT | | ON |
| HEAT MODE | | ON |
|   SCROLL | | |



| OPTIONS | | |
|---------------|--------------|--------------------------------------------------------------------------------------------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME |
| CURRENT STATE | | OFF |
| DHW MODE | | ON |
| DISINFECT | | ON |
| HEAT MODE | | ON |
| ON/OFF ON/OFF | |  SCROLL |
| 1/2 | | |



| OPTIONS | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME |
| FROM | | 02-01-2019 |
| UNTIL | | 16-01-2019 |
|   SCROLL | | |
| 2/2 | | |

For example:

Assume that you plan to leave home for a winter vacation. If the current date is 2018-12-31 and you will start your holiday two days later, the holiday start date is 2019-01-02. If you have a two-week holiday and you want to save energy and prevent freezing at home, you can start holiday away mode as follows:

| SETTING | VALUE |
|--------------|------------|
| HOLIDAY AWAY | on |
| DHW MODE | on |
| DISINFECT | on |
| HEAT MODE | on |
| FROM | 02-01-2019 |
| UNTIL | 16-01-2019 |


When DISINFECT is set to ON, and you set the disinfection mode, the hydro module will automatically perform disinfection at the set disinfection time prior to the end of the holiday. For example, if FROM=2020-01-02, UNTIL=2020-01-16, and disinfection time is set to 23:00 on Friday, disinfection begins from 23:00 on 2020-01-10. If you do not set the disinfection mode, the hydro module will forcedly enter disinfection mode at 22:00 on the day before the end of the holiday. If you do not set the disinfection mode, the hydro module will begin disinfection from 22:00 on 2020-01-16. After the hydro module exits disinfection mode, the wired controller will send the heat mode start-up command and DHW mode start-up command to the hydro module.

TwoutS=TwoutS_H.A_H indicates the heat mode, while TtankS=TtankS_H.A_DHW indicates the DHW mode. TwoutS_H.A_H and TtankS_H.A_DHW are set on the FOR SERVICEMAN interface of the wired controller.

Notes:

- In holiday mode, timer and weekly schedule are invalid until the hydro module exits from holiday mode.
- The CURRENT STATE option determines whether to enable holiday mode. If CURRENT STATE = OFF, HOLIDAY AWAY = OFF. If CURRENT STATE = ON, HOLIDAY AWAY = ON.
- The multiple set point is invalid when the hydro module operates in holiday mode.
- If disinfection mode is set in holiday mode, the hydro module will enter the disinfection mode at 22:00 on the day before the end of the holiday mode.
- In holiday mode, the weather temperature curve is invalid until the hydro module exits from holiday mode.
- In holiday mode, Preset Temp. is invalid until the hydro module exits from holiday mode.


If you operate the wired controller in holiday mode, the following prompt is displayed:

| | | |
|-------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------|
| 04:27 27-05-2019 sun | | |
| The "HOLIDAY AWAY FUNCTION" is on. Do you want to turn off the holiday away function ? | | |
| NO | | YES |
| OK | CONFIRM |  SCROLL |


6.4.3 HOLIDAY HOME Mode

In holiday home mode, the hydro module can operate according to the schedule settings of the holiday mode without affecting the normal schedule.

| Period | Then... |
|------------------------------|----------------------------------------------|
| Before an after your holiday | Your normal schedules will be used. |
| During your holiday | The configured holiday setting will be used. |

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

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

| OPTIONS | | |
|--------------------------------------------------------------------------------------------------------|--------------|--------------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME |
| CURRENT STATE | | OFF |
| FROM | | 02-01-2019 |
| UNTIL | | 16-01-2019 |
| 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 "▼" and "▲" to adjust the date. Before and after your holiday, your normal schedule will be used. During your holiday, you will save energy and prevent your house from freezing.


6.5 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 correct password, and the following page will appear:

| CHILD LOCK | |
|---------------------------------------------------------------------------------------------------------------|--------|
| HEAT TEMP. ADJUST | UNLOCK |
| HEAT MODE ON/OFF | UNLOCK |
| DHW TEMP. ADJUST | UNLOCK |
| DHW MODE ON/OFF | UNLOCK |
| UNLOCK LOCK/UNLOCK  SCROLL | |


Notes:

1. If both **HOLIDAY AWAY** and **HOLIDAY HOME** are set to **ON**, **FROM** and **UNTIL** set on the **HOLIDAY AWAY** page cannot coincide or overlap with those set on the **HOLIDAY HOME** page. If they coincide or overlap, the following page is displayed:

| | | |
|-------------------------------------------------------------------------------------------------------|------------|-----|
| 04:27 | 27-05-2019 | sun |
| The "HOLIDAY AWAY FUNCTION" is on. Do you want to turn off the holiday away function ? | | |
| NO | | YES |
| OK CONFIRM  SCROLL | | |

Press OK TO go back to the holiday away page.



| OPTIONS | | |
|----------------------------------------------------------------------------------------------------------------|--------------|--------------|
| SILENT MODE | HOLIDAY AWAY | HOLIDAY HOME |
| CURRENT STATE | | OFF |
| DHW MODE | | ON |
| DISINFECT | | ON |
| HEAT MODE | | ON |
| ON/OFF ON/OFF  SCROLL 1/2 | | |

Use "▼" and "▲" to scroll and "ON/OFF" to select LOCK or UNLOCK.

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

The heat/DHW mode can't turn on or off when the HEAT/DHW MODE ON/OFF is locked. If you want to turn the heat/DHW mode on or off when HEAT/DHW MODE ON/OFF is locked, the following page will appear:

04:27 27-05-2019 sun

The heating temperature adjusting function is locked. Do you want to unlock it ?

NO YES

OK CONFIRM ◀▶ SCROLL

04:27 27-05-2019 sun

The heat mode ON/OFF function is locked. Do you want to unlock it ?

NO YES

OK CONFIRM ◀▶ SCROLL

04:27 27-05-2019 sun

The DHW temperature adjusting function is locked. Do you want to unlock it ?

NO YES

OK CONFIRM ◀▶ SCROLL

04:27 27-05-2019 sun

The DHW mode ON/OFF function is locked. Do you want to unlock it ?

NO YES

OK CONFIRM ◀▶ SCROLL

If you press NO, you will return to the home page. If you press YES, you will go to the CHILD LOCK page.

6.6 SERVICE INFORMATION

6.6.1 About service information

Service information menu contents are as follows:

- 1) SERVICE CALL
- 2) ERROR CODE
- 3) PARAMETER
- 4) DISPLAY

6.6.2 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 number. The installer can input the phone number. See "FOR SERVICEMAN".

SERVICE INFORMATION

| SERVICE CALL | ERROR CODE | PARAMETER | DISPLAY |
|--------------|------------|----------------------|---------|
| PHONE NO. | | 00000000000000000000 | |
| MOBILE NO. | | 00000000000000000000 | |

◀▶ SCROLL

An error code is used to show when the fault happened and show the meaning of the error code.

SERVICE INFORMATION

| SERVICE CALL | ERROR CODE | PARAMETER | DISPLAY |
|--------------|------------|-----------|------------|
| HB01# | E1 | 17:32 | 03-06-2019 |
| HB01# | E2 | 09:20 | 04-06-2019 |
| HB01# | Ed | 12:10 | 20-06-2019 |
| HB01# | PL | 19:32 | 03-07-2019 |

◀▶ SCROLL 1/5

Press OK and the following page will appear:

SERVICE INFORMATION

| SERVICE CALL | ERROR CODE | PARAMETER | DISPLAY |
|--------------|------------|-----------|------------|
| HB01# | E1 | 17:32 | 03-06-2019 |
| HB01# | E2 | 09:20 | 04-06-2019 |
| HB01# | Ed | 12:10 | 20-06-2019 |
| HB01# | PL | 19:32 | 03-07-2019 |

OK ENTER ◀▶ SCROLL 1/5

Press OK to show the mean of the error code:

| | | |
|-------------------------------------------------------|--|--|
| 04:27 27-05-2019 sun | | |
| HB01# E1 | | |
| Communication fault between controller and hydro box. | | |
| Please contact your dealer. | | |
| <input type="button" value="OK"/> CONFIRM | | |

NOTE:

A total of twenty fault codes can be recorded.

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

| SERVICE INFORMATION | | | |
|-----------------------------------------|------------|-------------------|---------|
| SERVICE CALL | ERROR CODE | PARAMETER | DISPLAY |
| | | ROOM SET TEMP. | -°C |
| | | MAIN SET TEMP | 45°C |
| | | TANK SET TEMP. | 40°C |
| | | ROOM ACTUAL TEMP. | -°C |
| <input type="button" value="↕"/> SCROLL | | | 1/2 |

| SERVICE INFORMATION | | | |
|-----------------------------------------|------------|-------------------|---------|
| SERVICE CALL | ERROR CODE | PARAMETER | DISPLAY |
| | | MAIN ACTUAL TEMP. | 25°C |
| | | TANK ACTUAL TEMP. | 25°C |
| <input type="button" value="↕"/> SCROLL | | | 2/2 |

The DISPLAY function is used to set the interface:

| SERVICE INFORMATION | | | |
|-----------------------------------------|------------|-----------|------------|
| SERVICE CALL | ERROR CODE | PARAMETER | DISPLAY |
| | | TIME | 18:39 |
| | | DATE | 03-06-2019 |
| | | LANGUAGE | EN |
| | | BACKLIGHT | ON |
| <input type="button" value="↕"/> SCROLL | | | 1/2 |

| SERVICE INFORMATION | | | |
|---------------------------------------------------------------------------------------------------------------------|------------|------------------|---------|
| SERVICE CALL | ERROR CODE | PARAMETER | DISPLAY |
| | | BUZZER | ON |
| | | SCREEN LOCK TIME | 300 SEC |
| <input type="button" value="ON/OFF"/> <input type="button" value="ON/OFF"/> <input type="button" value="↔"/> SCROLL | | | 2/2 |

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

6.7 OPERATION PARAMETERS

Spot check the operating parameters of the hydro module and some operating parameters of the ODU.

This menu is for installer or service engineer reviewing the operation parameter of hydro box and ODU units.

- At the home page, go to "MENU" > "OPERATION PARAMETERS".
- Press "OK". There are six pages for the operating parameter as following. Use "▼", "▲" to scroll.

| OPERATION PARAMETERS | |
|---------------------------------------------------------------------------------|--|
| HYDRO BOX | |
| OUTDOOR UNITS | |
| <input type="button" value="OK"/> ENTER <input type="button" value="↔"/> SCROLL | |

The parameters of hydro box are as follows:

| OPERATION PARAMETERS | |
|-----------------------------------------|--------|
| OPERATION MODE | OFF |
| CURRENT | 0.0 A |
| COMPRESSOR FREQUENCY | 0 HZ |
| COMP. RUN TIME 1 | 1 MIN |
| COMP. RUN TIME 2 | 95 MIN |
| COMP. RUN TIME 3 | 3 MIN |
| <input type="button" value="↕"/> SCROLL | |

| OPERATION PARAMETERS | |
|-----------------------------------------|--------|
| COMP. RUN TIME 4 | 80 Hrs |
| EXPANSION VALVE 1 | 0 P |
| EXPANSION VALVE 2 | 0 P |
| TWOUT | 25°C |
| TWIN | 25°C |
| TTANK | 25°C |
| <input type="button" value="↕"/> SCROLL | |

| OPERATION PARAMETERS | |
|----------------------|-------|
| TCS | 25°C |
| PC | 0 kPa |
| PE | 0 kPa |
| TC | 25°C |
| TE | 25°C |
| T7C | 25°C |
| SCROLL | 3/6 |

| OPERATION PARAMETERS | |
|----------------------|------|
| T7 | 25°C |
| T3 | 25°C |
| T2A | 25°C |
| TF | 25°C |
| DSH | 25°C |
| SSH | 25°C |
| SCROLL | 4/6 |

| OPERATION PARAMETERS | |
|----------------------|-------|
| SC | 25°C |
| PRIMARY CURRENT | 0.0 A |
| SECONDARY CURRENT | 0.0 A |
| PRIMARY VOLTAGE | 0 V |
| POWER CONSUMPTION | 0 W |
| HEAT POWER | 0 W |
| SCROLL | 5/6 |

| OPERATION PARAMETERS | |
|----------------------|-----|
| HYDRO BOX SOFTWARE | V00 |
| CONTROLLER SOFTWARE | V01 |
| | |
| | |
| | |
| SCROLL | 6/6 |

The parameters of ODU units are as follows:

| OPERATION PARAMETERS | |
|-------------------------|--|
| HYDRO BOX | |
| OUTDOOR UNITS | |
| | |
| | |
| | |
| OK ENTER SCROLL | |

| OPERATION PARAMETERS | |
|----------------------|-------|
| ODU1_INV | 0 HZ |
| ODU1_PC | 0 kPa |
| ODU1_PE | 0 kPa |
| ODU1_DSH | 0 °C |
| ODU1_T4 | 25°C |
| ODU1_SOFTWARE | V01 |
| SCROLL | 1/3 |

| OPERATION PARAMETERS | |
|----------------------|-------|
| ODU2_INV | 0 HZ |
| ODU2_PC | 0 kPa |
| ODU2_PE | 0 kPa |
| ODU2_DSH | 0 °C |
| ODU2_T4 | 25°C |
| ODU2_SOFTWARE | V01 |
| SCROLL | 2/3 |

| OPERATION PARAMETERS | |
|----------------------|-------|
| ODU3_INV | 0 HZ |
| ODU3_PC | 0 kPa |
| ODU3_PE | 0 kPa |
| ODU3_DSH | 0 °C |
| ODU3_T4 | 25°C |
| ODU3_SOFTWARE | V01 |
| SCROLL | 3/3 |

| Parameter | Content |
|----------------------|--------------------------------------------------------|
| OPERATION MODE | Operation Mode |
| CURRENT | Current |
| COMPRESSOR FREQUENCY | Compressor frequency |
| COMP. RUN TIME 1 | Current compressor operation time |
| COMP. RUN TIME 2 | Last compressor operation time |
| COMP. RUN TIME 3 | Last two compressor operation time |
| COMP. RUN TIME 4 | Compressor total operation time |
| EXPANSION VALVE 1 | Electronic expansion valve 1 |
| EXPANSION VALVE 2 | Electronic expansion valve 2 |
| TWOUT | Water outlet temperature |
| TWIN | Water inlet temperature |
| TTANK | Water tank temperature |
| TCS | Desired discharge pipe pressure saturation temperature |
| PC | Discharge pipe pressure |
| PE | Suction pipe pressure |
| TC | Discharge pipe pressure saturation temperature |
| TE | Scution pipe pressure saturation temperature |
| T7C | Discharge pipe temperature |
| T7 | Suction pipe temperature |
| T3 | Liquid pipe temperature on the R134a loop |
| T2A | Liquid pipe temperature on the R410a loop |
| TF | Module temperature |
| DSH | Discharge pipe superheat degree |
| SSH | Suction pipe superheat degree |
| SC | Subcooling degree of liquid pipe in R410a loop |
| PRIMARY CURRENT | Primary current |
| SECONDARY CURRENT | Secondary current |
| PRIMARY VOLTAGE | Primary voltage |
| POWER CONSUMPTION | Power consumption |
| HEAT POWER | Heat power capacity |

6.8 User Settings

| Code | Description | Default Value | Min. Value | Max. Value | Adjustment Step | Unit |
|-------------------------------------|--------------------------------------------------------------------|---------------|------------|------------|-----------------|-------|
| TwoutS | Water outlet temperature of heating mode set on the main interface | 45 | 25 | 80 | 1 | °C |
| TaS | Room temperature of heating mode set on the main interface | 24 | 17 | 30 | 1 | °C |
| TtankS | Water tank temperature of DHW mode set on the main interface | 50 | 25 | 80 | 1 | °C |
| HEAT | Heat mode on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| DHW | DHW mode on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| PRESET TEMP. TIMER1 | PRESET TEMP. timer 1 on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| PRESET TEMP. TIME1 | PRESET TEMP. time 1 | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| Temper.1 | PRESET TEMP. 1 | 45 | 25 | 80 | 1 | °C |
| PRESET TEMP. TIMER2 | PRESET TEMP. timer 2 on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| PRESET TEMP. TIME2 | PRESET TEMP. time 2 | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| Temper.3 | PRESET TEMP. 2 | 45 | 25 | 80 | 1 | °C |
| PRESET TEMP. TIMER3 | PRESET TEMP. timer 2 on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| PRESET TEMP. TIME3 | PRESET TEMP. time 3 | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| Temper.3 | PRESET TEMP. 3 | 45 | 25 | 80 | 1 | °C |
| PRESET TEMP. TIMER4 | PRESET TEMP. timer 3 on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| PRESET TEMP. TIME4 | PRESET TEMP. time 4 | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| Temper.4 | PRESET TEMP. 4 | 45 | 25 | 80 | 1 | °C |
| PRESET TEMP. TIMER5 | PRESET TEMP. timer 4 on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| PRESET TEMP. TIME5 | PRESET TEMP. time 5 | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| Temper.5 | PRESET TEMP. 5 | 45 | 25 | 80 | 1 | °C |
| PRESET TEMP. TIMER6 | PRESET TEMP. timer 6 on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| PRESET TEMP. TIME6 | PRESET TEMP. time 6 | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| Temper.6 | PRESET TEMP. 6 | 45 | 25 | 80 | 1 | °C |
| weather temp. set | Temperature setting curve on/off: OFF = 0, ON = 1 | 0 | 0 | 1 | 1 | / |
| shift value | Temperature setting curve shift value | 0 | -5 | 5 | 1 | °C |
| multiple set point 1 required temp. | Sets water temperature at multiple set point 1 | 65 | 25 | 80 | 1 | °C |
| multiple set point 2 required temp. | Sets water temperature at multiple set point 2 | 35 | 25 | 80 | 1 | °C |
| DISINFECT CURRENT STATE | Disinfection on/off: OFF = 0, ON = 1 | 0 | 0 | 1 | 1 | / |
| DISINFECT OPERATE DAY. | Disinfection week | FRI | MON | SUN | 1 | / |
| DISINFECT START | Start time for disinfection | 23:00 | 0:00 | 23:50 | 1/10 | h/min |

| Code | Description | Default Value | Min. Value | Max. Value | Adjustment Step | Unit |
|----------------------------|------------------------------------------------------------------|------------------|------------|------------|-----------------|--------|
| DHW PUMPTIMER1-16 | Pipeline water return pump timer on/off: OFF = 0, ON = 1 | 0 | 0 | 1 | 1 | / |
| DHW PUMP START 1-16 | Pipeline water return pump start time: 1-16 | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| TIMER1-TIMER6 | Timers 1-6 on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| TIMER1-TIMER6 START | Timers 1-6 start time | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| TIMER1-TIMER6 END | Timers 1-6 end time | 0:00 | 0:00 | 23:50 | 1/10 | h/min |
| TIMER MODE 1-6 | Timer mode: 0 = HEAT, 3 = DHW | 0 | 0 | 3 | 1 | / |
| TIMER TEMP. 1-6 | Temperature setting timer | 45 | 25 | 80 | 1 | °C |
| CANCEL TIMER | Cancels all the defined timers | 0 | 0 | 1 | 1 | / |
| SILENT MODE CURRENT STATE | Silent mode on/off: 0 = Off, 1 = On | 0 | 1 | 1 | 1 | / |
| SILENT TIMER | Silent mode timer on/off: 0 = Off, 1 = On | 1 | 0 | 1 | 1 | / |
| SILENT MODE TIMER START 1 | Silent mode timer start time 1 | 12:00 | 0:00 | 23:50 | 1/10 | h/min |
| SILENT MODE TIMER END 1 | Silent mode timer end time 1 | 15:00 | 0:00 | 23:50 | 1/10 | h/min |
| SILENT MODE TIMER START 2 | Silent mode timer start time 2 | 22:00 | 0:00 | 23:50 | 1/10 | h/min |
| SILENT MODE TIMER ENDT 2 | Silent mode timer end time 2 | 7:00 | 0:00 | 23:50 | 1/10 | h/min |
| HOLIDAY AWAY CURRENT STATE | Holiday away mode on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| HOLIDAY AWAY DHW MODE | Holiday away DHW mode on/off: 0 = Off, 1 = On | 1 | 0 | 1 | 1 | / |
| HOLIDAY AWAY DISINFECT | Holiday away disinfection mode on/off: 0 = Off, 1 = On | 1 | 0 | 1 | 1 | / |
| HOLIDAY AWAY HEAT MODE | Holiday away heat mode on/off: 0 = Off, 1 = On | 1 | 0 | 1 | 1 | / |
| HOLIDAY AWAY FROM | Holiday away start date | Current date + 1 | 1/1/2018 | 1/1/2100 | 1 | / |
| HOLIDAY AWAY UNTIL | Holiday away end date | Current date + 8 | 1/1/2018 | 1/1/2100 | 1 | / |
| HOLIDAY home CURRENT STATE | Holiday home mode on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| HOLIDAY home FROM | Holiday home start date | Current date | 1/1/2018 | 1/1/2100 | 1 | / |
| HOLIDAY home UNTIL | Holiday home end date | Current date + 7 | 1/1/2018 | 1/1/2100 | 1 | / |
| HOLIDAY home TIMER | Holiday home timer on/off: 0 = Off, 1 = On | 0 | 0 | 1 | 1 | / |
| CURRENT TIME | Current time | 0:00 | 0:00 | 23:59 | 1/10 | h/min |
| CURRENT DATE | Current date | 1/1/2018 | 1/1/2018 | 1/1/2100 | 1 | / |
| LANGUAGE | Language: EN = 0, FR = 1, IT = 2, SP = 3, PL = 4, DE = 5, TR = 6 | 0 | 0 | 5 | 1 | / |
| BACKLIGHT | Backlight on/off: 0 = Off, 1 = On | 1 | 0 | 1 | 1 | / |
| BUZZER | Buzzer on/off: 0 = Off, 1 = On | 1 | 0 | 1 | 1 | / |
| SCREEN LOCK TIME | Screen locking time | 120 | 60 | 300 | 10 | Second |

6.9 On-site FOR SERVICEMAN Settings

6.9.1 About FOR SERVICEMAN

FOR SERVICEMAN is used for installers and service engineers.

- Setting the function of equipment.
- Setting the parameters.

6.9.2 How to Go to FOR SERVICEMAN

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

- The FOR SERVICEMAN is used for installers or service engineers. It is NOT intended for home owners to alter setting with this menu.
- It is for this reason that password protection is required 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 parameters. Press "BACK", and the following page will appear:

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

6.9.4 Settings of Special Functions

6.9.4.1 Max. Power Limitation Function

This function can limit the power consumption of the hydro module. Choose **MENU > FOR SERVICEMAN > POWER INPUT LIMITATION**. Press **OK**. The following interface is displayed.

Select speed. 0 = Not limited; 1 = Speed 1; 2 = Speed 2; 3 = Speed 3.

Speed 0: It indicates that the maximum current for hydro module operation is 16 A.

Speed 1: It indicates that the maximum current for hydro module operation is 15 A.

Speed 2: It indicates that the maximum current for hydro module operation is 14 A.

Speed 3: It indicates that the maximum current for hydro module operation is 13 A.

6.9.4.2 Heat Recovery Function

This function will automatically enable the heat recovery function of the hydro module to produce hot water when the start-up capacity of the chiller's IDU is great. Choose **MENU > FOR SERVICEMAN > HEAT RECOVERY MODE SETTING**. Press **OK**. The following interface is displayed.

HEAT RECOVERY=YES indicates that the heat recovery function is enabled. HEAT RECOVERY=NON indicates that heat recovery function is disabled.

Ttank_recovery_max indicates that the desired tank temperature of the heat recovery function is set.

6.9.5 Meanings of Each Setting Item

| Code | | Description | Default Value | Min. Value | Max. Value | Adjustment Step | Unit |
|----------------------------|-------------------------|---------------------------------------------------------------------------------------|---------------|------------|------------|-----------------|-------|
| DHW MODE SETTING | DHW MODE | DHW mode on/off: 0 = NON, 1 = YES | 1 | 0 | 1 | 1 | / |
| | DISINFECT MODE | Disinfection on/off: 0 = NON, 1 = YES | 1 | 0 | 1 | 1 | / |
| | DHW PRIORITY | Water heating priority on/off: 0 = NON, 1 = YES | 1 | 0 | 1 | 1 | / |
| | dTtankSH | Power-on return difference of water heating | 5 | 2 | 10 | 1 | °C |
| | TtankS_DI | Sets temperature for disinfection | 65 | 60 | 70 | 1 | °C |
| | t_DI_HIGHTEMP. | Duration of disinfection at high temperature | 15 | 5 | 60 | 5 | MIN |
| | t_DI_MAX | Longest disinfection duration | 210 | 90 | 300 | 5 | MIN |
| | DHW PUMP RUNNING TIME | Time-based control of pipeline water return pump on/off: 0 = Off, 1 = On | 1 | 0 | 1 | 1 | / |
| HEAT MODE SETTING | HEAT MODE | Heat mode on/off: 0 = NON, 1 = YES | 1 | 0 | 1 | 1 | / |
| | LEAVING WATER TEMP. | Water outlet temperature control on/off: 0 = NON, 1 = YES | 1 | 0 | 1 | 1 | / |
| | ROOM TEMP. | Room temperature control on/off: 0 = NON, 1 = YES | 0 | 0 | 1 | 1 | / |
| | t_ODU_T4_FRESH_H | Weather temperature curve T4 refresh time in heat mode | 0.5 | 0.5 | 6 | 0.5 | hours |
| | dTwoutSH | Power-on return difference in heat mode (Water outlet temperature control) | 5 | 2 | 10 | 1 | °C |
| | dTaSH | Power-on return difference in heat mode (ambient temperature sensor control Ta) | 2 | 1 | 10 | 1 | °C |
| WEATHER TEMP. SETTING | L_weather_Twout | Water outlet temperature at low air temperature | 70 | 25 | 80 | 1 | °C |
| | H_weather_Twout | Water outlet temperature at high air temperature | 45 | 25 | 80 | 1 | °C |
| | L_ODU_T4 | Low ambient temperature | -10 | -20 | 5 | 1 | °C |
| | H_ODU_T4 | High ambient temperature | 15 | 10 | 20 | 1 | °C |
| MULTIPLE SET POINT SETTING | multiple set point 1 | Multiple set point 1 on/off: 0 = OFF, 1 = YES | 0 | 0 | 1 | 1 | / |
| | multiple set point 2 | Multiple set point 2 on/off: 0 = OFF, 1 = YES | 0 | 0 | 1 | 1 | / |
| HOLIDAY AWAY SETTING | TwoutS_H.A_H | Water outlet temperature of holiday mode | 25 | 28 | 80 | 1 | °C |
| | TtankS_H.A_DHW | Water tank temperature of holiday mode | 40 | 25 | 80 | 1 | °C |
| HEAT RECOVERY MODE SRTTING | HEAT RECOVERY | Heat recovery mode on/off: 0 = NON, 1 = YES | 1 | 0 | 1 | 1 | / |
| | Ttank_recovery_max | Max. heat recovery water tank temperature | 70 | 45 | 80 | 1 | °C |
| POWER INPUT LIMITATION | POWER INPUT LIMITATION | Sets input power limitation gear: 0 = Not limited, 1 = Gear 1, 2 = Gear 2, 3 = Gear 3 | 0 | 0 | 3 | 1 | / |
| SMART GRID | SMART GRID | Sets smart grid on/off: 0 = NON, 1 = YES | 1 | 0 | 1 | 1 | / |
| | Ttank_smartgrid_max | Sets the highest water tank temperature of the smart grid | 70 | 45 | 80 | 1 | °C |
| HYDRO BOX ADDERSSING | HYDRO BOX ADDERSSING | Sets hydro module address | 0 | 0 | 63 | 1 | / |
| TEST RUN | VACUUM PUMPING | Sets vacuumizing mode on/off | 0 | 0 | 1 | 1 | / |
| | CIRCULATED PUMP RUNNING | Sets external water pump on/off | 0 | 0 | 1 | 1 | / |
| | DHW PUMP RUNNING | Sets water tank and pump on/off | 0 | 0 | 1 | 1 | / |

7 MENU STRUCTURE: OVERVIEW

7.1 STRUCTURE

MENU

| | |
|---|-------------------------|
| 1 | Heat mode |
| 2 | Domestic hot water(DHW) |
| 3 | Schedule |
| 4 | Options |
| 5 | Child lock |
| 6 | Service information |
| 7 | Operation parameter |
| 8 | For serviceman |

| | |
|----|----------------------------|
| 1 | Preset temp. |
| 2 | Weather temp. set |
| 1 | Disinfect |
| 2 | DHW pump |
| 1 | Timer |
| 2 | Weekly schedule |
| 3 | Schedule check |
| 4 | Cancel timer |
| 1 | Silent mode |
| 2 | Holiday away |
| 3 | Holiday home |
| 1 | Heat temp. adjust |
| 2 | Heat mode on/off |
| 3 | DHW temp. adjust |
| 4 | DHW mode on/off |
| 1 | Service call |
| 2 | Error code |
| 3 | Parameter |
| 4 | Display |
| 1 | Hydro box |
| 2 | Outdoor units |
| 1 | DHW mode setting |
| 2 | Heat mode setting |
| 3 | Weather temp. setting |
| 4 | Multiple set point setting |
| 5 | Holiday away setting |
| 6 | Service call |
| 7 | Restore factory setting |
| 8 | Test run |
| 9 | Heat recovery mode setting |
| 10 | Power input limitation |
| 11 | SMART GRID |
| 12 | Hydro box addressing |

| | |
|---|------------------------|
| 1 | DHW MODE |
| 2 | Disinfect mode |
| 3 | DHW priority |
| 4 | dTtankSH |
| 5 | TtankS_DI |
| 6 | t_DI_HIGHTEMP. |
| 7 | t_DI_MAX |
| 8 | DHW PUMP RUNNING TIME |
| 1 | HEAT MODE |
| 2 | LEAVING WATER TEMP. |
| 3 | ROOM TEMP. |
| 4 | t_ODU_t4_FRESH_H |
| 5 | dTwoutSH |
| 6 | dTaSH |
| 1 | L_weather_Twout |
| 2 | H_weather_Twout |
| 3 | L_ODU_T4 |
| 4 | H_ODU_T4 |
| 1 | Multiple set point 1 |
| 2 | Multiple set point 2 |
| 1 | TwoutS_H.A_H |
| 2 | TtankS_H.A_DHW |
| 1 | HEAT RECOVERY |
| 2 | Ttank_recovery_max |
| 1 | POWER INPUT LIMITATION |
| 1 | SMART GRID |
| 2 | Ttank_smartgrid_max |
| 1 | HYRDO BOX ADDRESSING |

8 MAINTENANCE

NOTE

Before repair and maintenance, ensure that the hydro module is powered off.

- Water pressure

Check if the water pressure is above 0.3 bar. Add water if necessary.

- Water filter

Clean the water filter.

- Water pressure relief valve

Check for correct operation of the pressure relief valve by turning the red knob along the valve counter-clockwise:

1. If you do not hear a clacking sound, contact your local dealer.
2. If water keeps running out of the unit, close both the water inlet and outlet shut-off valves first and then contact your local dealer.

- Pressure relief valve hose

Check that the pressure relief valve hose is positioned appropriately to drain the water. If the drain pan kit is installed, make sure that the pressure relief valve hose end is positioned in the drain pan.

- Auxiliary heater vessel insulation cover

Check that the auxiliary heater insulation cover is fastened tightly around the auxiliary heater vessel.

- Sanitary hot water tank pressure relief valve (field supply)

Applies only to installations with a sanitary hot water tank. Check for correct operation of the pressure relief valve on the sanitary hot water tank.

- Sanitary hot water electric heater

Applies only to installations with a sanitary hot water tank. It is advisable to remove lime buildup on the electric heater to extend its life span, especially in regions with hot water. To do so, drain the sanitary hot water tank, remove the electric heater from the sanitary hot water tank and immerse in a bucket (or similar) with lime-removing product for 24 hours.

- Indoor unit control box

1. Carry out a through visual inspection of the control box and look for obvious defects such as loose connections or defective wiring.
2. Check for correct operation of contactors by the use of an ohmmeter. All of these contactors must be in open position.

Important information for the used refrigerant

This product has the fluorinated gas, it is forbidden to release to air.

Refrigerant type: R410A/ Kg or R134a / Kg

Volume of GWP: 2088 or 1430; tonnes CO₂ equivalent

GWP=Global Warming Potential

ATTENTION:

Frequency of Refrigerant Leak Checks

- 1) For equipment that contains fluorinated greenhouse gases in quantities of 5 tonnes of CO₂ equivalent or more, but of less than 50 tonnes of CO₂ equipment, at least every 12 months, or where a leakage detection system is installed, at least every 24 months.
- 2) For equipment that contains fluorinated greenhouse gases in quantities of 50 tonnes of CO₂ equivalent or more, but of less than 500 tonnes of CO₂ equipment, at least every six months, or where a leakage detection system is installed, at least every 12 months.
- 3) For equipment that contains fluorinated greenhouse gases in quantities of 500 tonnes of CO₂ equivalent or more, at least every three months, or where a leakage detection system is installed, at least every six months.
- 4) This air-conditioning unit is a hermetically sealed equipment that contains fluorinated greenhouse gases.
- 5) Only certificated person is allowed to do installation, operation and maintenance.

8.1 Error Codes

| Error code | Content |
|------------|------------------------------------------------------------------------|
| FE | Undefined address error |
| EE | EEPROM error |
| C7 | PL protection appears three times in 100 minutes |
| E9 | EEPROM mismatch |
| H4 | Inverter module protection |
| H5 | P2 protection appears three times in 60 minutes |
| H6 | P4 protection appears three times in 100 minutes |
| 1F6 | Electronic expansion valve 1 connection error |
| 2F6 | Electronic expansion valve 2 connection error |
| E1 | Communication error between hydro module and wired controller |
| E8 | Water flow failure |
| F3 | Water outlet temperature sensor error |
| F9 | Water inlet temperature sensor error |
| F5 | Tank temperature sensor error |
| E7 | Discharge pipe temperature sensor error |
| FA | Suction pipe temperature sensor error |
| F7 | IDU same address error |
| FC | R410a loop liquid pipe temperature sensor error |
| Fd | R134a loop liquid pipe temperature sensor error |
| F8 | Room temperature sensor error |
| H8 | High pressure sensor error |
| Hb | Low pressure sensor error |
| E2 | Communication error between hydro box and outdoor unit |
| H0 | Communication error between main control chip and inverter driver chip |
| E0 | Communication error between master hydro module and slave hydro module |
| Ed | Outdoor unit error |
| E5 | Abnormal power supply |
| PP | Compressor discharge insufficient superheat protection |
| P1 | Discharge pipe high pressure protection |
| P2 | Suction pipe low pressure protection |
| P3 | Compressor current protection |
| P4 | Discharge temperature protection |
| PL | Inverter module temperature protection |
| F1 | DC bus voltage error |

NOTE CONCERNING PROTECTION OF ENVIRONMENT

This product must not be disposed of via normal household waste after its service life, but must be taken to a collection station for the recycling of electrical and electronic devices. The symbol on the product, the operating instructions or the packaging indicate such disposal procedures. The materials are recyclable in accordance with their respective symbols. By means of re-use, material recycling or any other form of recycling old appliances you are making an important contribution to the protection of our environment. Please ask your local council where your nearest disposal station is located.

INFORMATION CONCERNING USED REFRIGERANT MEDIUM

This unit is containing fluorinated gases included in the Kyoto protocol. The maintenance and the liquidation must T be carried out by qualified personnel.

Type of refrigerant: R404A

7KH TXDQWLW\ RI WKH UHIULJHUDQW SOHDVH VHH WKH XQLW ODEHO

7KH YDOXH *:3 NJ 5 \$ W & 2 HT

*:3 *OREDO :DUPLQJ 3RWHQWLDO

In case of quality problem or other please contact your local supplier or authorized service center. T

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