IMMERGAS

USER'S MANUAL

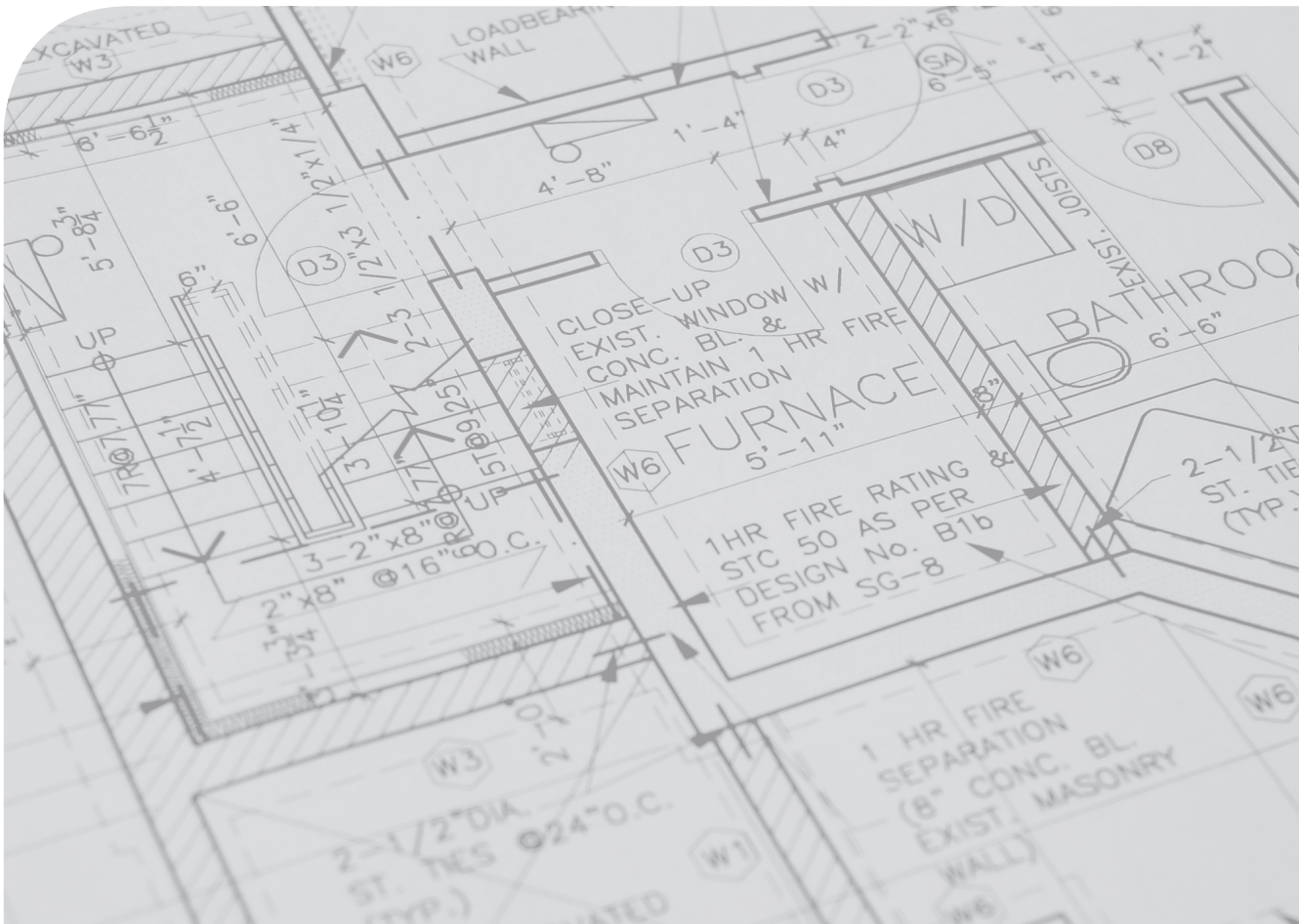
MAGIS M4/6/8 EH3 M12/14/16 T EH9

Block heat pumps with integrated backup heater
Control Panel

IE

Instructions and recommendations

1.048020ENG



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Dear Customer

Congratulations for having chosen a top-quality Immergas product, able to assure well-being and safety for a long period of time. As an Immergas customer you can also count on a Qualified Authorised After-Sales Technical Assistance Centre, prepared and updated to guarantee the constant efficiency of your products. Read the following pages carefully: you will be able to draw useful tips on the proper use of the device, compliance with which will confirm your satisfaction with the Immergas product.
For assistance and routine maintenance, contact Authorised Technical Service Centres: they have original spare parts and are specifically trained directly by the manufacturer.

The company **IMMERGAS S.p.A.**, with registered office in via Cisa Ligure 95 42041 Brescello (RE), declares that the design, manufacturing and after-sales assistance processes comply with the requirements of standard **UNI EN ISO 9001:2015**.
For further details on the product CE marking, request a copy of the Declaration of Conformity from the manufacturer, specifying the appliance model and the language of the country.

The manufacturer declines all liability due to printing or transcription errors, reserving the right to make any modifications to its technical and commercial documents without forewarning.

LIST OF ABBREVIATIONS USED

The following is the key of the abbreviations used in this document.

ACS	Domestic hot water
CO_2	Carbon dioxide
CVC	Fan coil
DHW	Domestic hot water
etc.	Etc.
FCU	Fan coil
Fig.	Figure
FHL	Floor heating circuit
IBH	Backup heater
MFA	Maximum fuse amp.
MOP	Maximum overcurrent protection
Max.	Maximum
Min.	Minimum
Nom.	Rated
Par.	Paragraph
RAD	Radiator
Ta	Room temperature
TBH	DHW storage tank backup heater

GENERAL RECOMMENDATIONS

- The instruction booklet is an integral and essential part of the product and must be given to the new user in the case of transfer or succession of ownership.
- It must be stored with care and consulted carefully, as all of the warnings provide important safety indications for installation, use and maintenance stages.
- In compliance with the legislation in force, the systems must be designed by qualified professionals, within the dimensional limits established by the Law. Installation and maintenance must be performed in compliance with the regulations in force, according to the manufacturer's instructions and by professionally qualified staff, meaning staff with specific technical skills in the plant sector, as provided for by Law.
- Improper installation or assembly of the Immergas device and/or components, accessories, kits and devices can cause unexpected problems for people, animals and objects. Read the instructions provided with the product carefully to ensure proper installation.
- This instructions manual provides technical information for installing Immergas products. As for the other issues related to the installation of products (e.g. safety at the workplace, environmental protection, accident prevention), it is necessary to comply with the provisions of the standards in force and the principles of good practice.
- All Immergas products are protected with suitable transport packaging.
- The material must be stored in a dry place protected from the weather.
- Damaged products must not be installed.
- Maintenance must be carried out by skilled technical staff. For example, the Authorised Service Centre that represents a guarantee of qualifications and professionalism.
- The appliance must only be destined for the use for which it has been expressly declared. Any other use will be considered improper and therefore potentially dangerous.
- If errors occur during installation, operation and maintenance, due to non-compliance with technical laws in force, standards or instructions contained in this booklet (or however supplied by the manufacturer), the manufacturer is excluded from any contractual and extra-contractual liability for any damages and the device warranty is invalidated.
- In the event of malfunctions, faults or incorrect operation, turn the appliance off and contact an authorised company (e.g. the Authorised Technical Assistance Centre, which has specifically trained staff and original spare parts). Do not attempt to modify or repair the appliance alone.
- Do not use tools to accelerate the defrosting process or to clean equipment other than those recommended by the manufacturer.
- The appliance must be stored in such a way as to avoid mechanical damage, in a well-ventilated environment and without ignition sources in continuous operation (for example: open flames, gas appliance or electric stoves in operation).
- Do not puncture or burn.
- Be aware that refrigerants are odourless.

- For further information regarding legislative and statutory provisions relative to the installation of heat pumps, consult the Immergas site at the following address: www.immergas.com
- This manual provides a detailed explanation on the precautions to be taken during use.
- Read this manual carefully before using the wall-mounted control unit to guarantee its proper operation.
- After you have read this manual, keep it for future consultation.

SAFETY SYMBOLS USED

GENERIC HAZARD
Strictly follow all of the indications next to the pictogram. Failure to follow the indications can generate hazard situations resulting in possible harm to the health of the operator and user in general, and/or property damage.

ELECTRICAL HAZARD
Strictly follow all of the indications next to the pictogram. The symbol indicates the appliance's electrical components or, in this manual, identifies actions that can cause an electrical hazard.

WARNING FOR INSTALLER
Read the instruction booklet carefully before installing the product.

WARNINGS
Strictly follow all of the indications next to the pictogram. Failure to follow the indications can generate hazard situations resulting in possible minor injuries to the health of both the operator and the user in general, and/or slight material damage.

ATTENTION
Read and understand the instructions of the appliance before carrying out any operation, carefully following the instructions given. Failure to observe the instructions may result in malfunction of the unit.

INFORMATION
Indicates useful tips or additional information.

EARTH TERMINAL CONNECTION
The symbol identifies the appliance's earth terminal connection point.

DISPOSAL WARNING
The user must not dispose of the appliance at the end of its service life as municipal waste, but send it to appropriate collection centres.

Personal protective equipment

SAFETY GLOVES

EYE PROTECTION

SAFETY FOOTWEAR

1 GENERAL SAFETY WARNINGS.

1.1 FOR THE USER.

- If you are not sure how to operate the unit, contact your installer.
- This appliance must not be used by persons (including children) without adequate physical, sensory or mental capacities or without specific experience and knowledge, unless they are supervised or have been instructed as to how to use the appliance by a person responsible for their safety. Supervise children and make sure they do not play with the device.

Do NOT wash the unit as this could result in electrocution or fire.

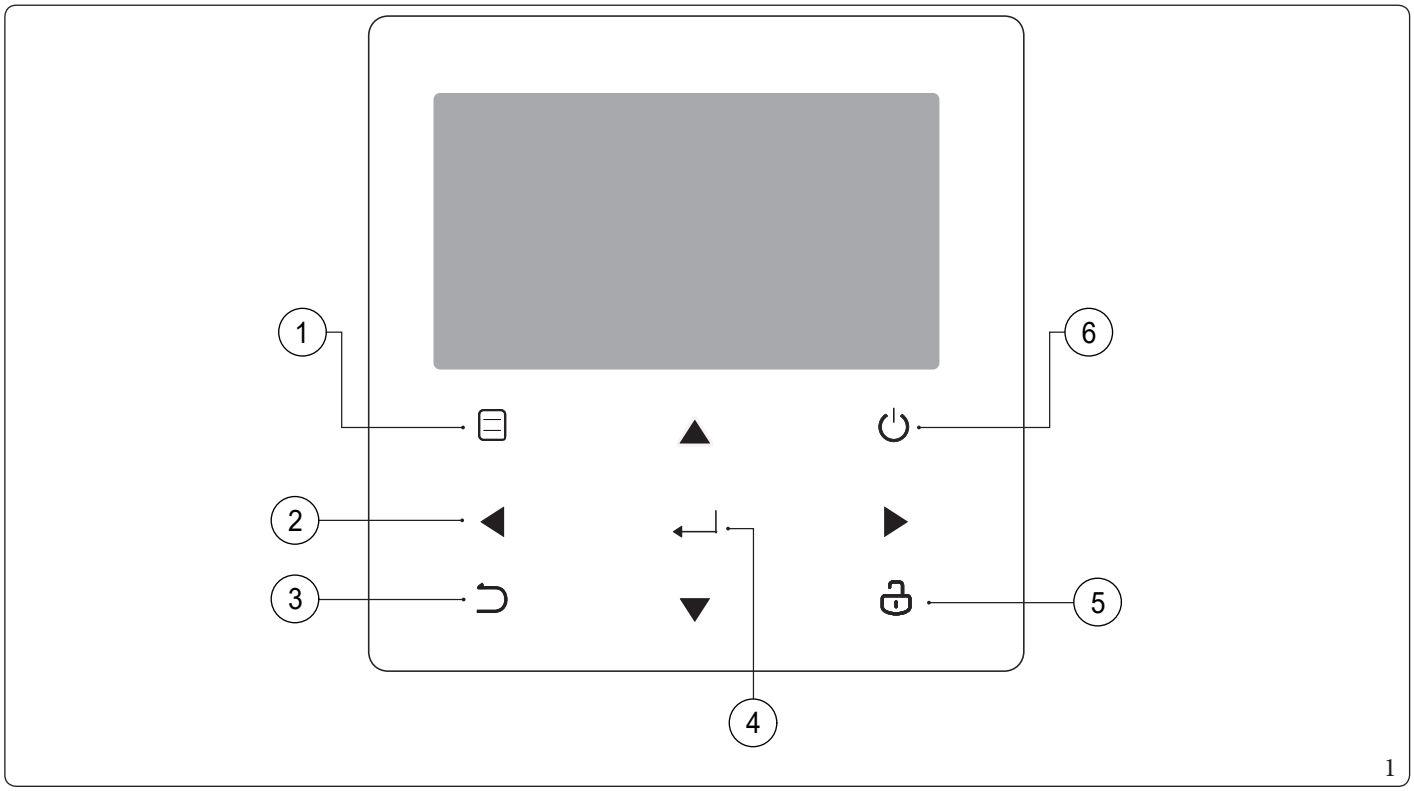
- The devices are marked with the following symbol:

This symbol indicates that electric and electronic products must not be disposed of together with household unsorted waste.
Do NOT try to disassemble the system on your own: only a qualified installer may disassemble the device and process the refrigerant, oil and other components, in compliance with standards in force.
The units must be processed at a specific waste disposal facility so that the materials can be reused, recycled and recovered.
Making sure that the product is disposed of correctly shall avoid possible negative consequences for the environment and human health.
For further information, contact your installer or local authorities.

- Install in a place where there is no radiation present.

2 PRESENTATION OF CONTROL PANEL.

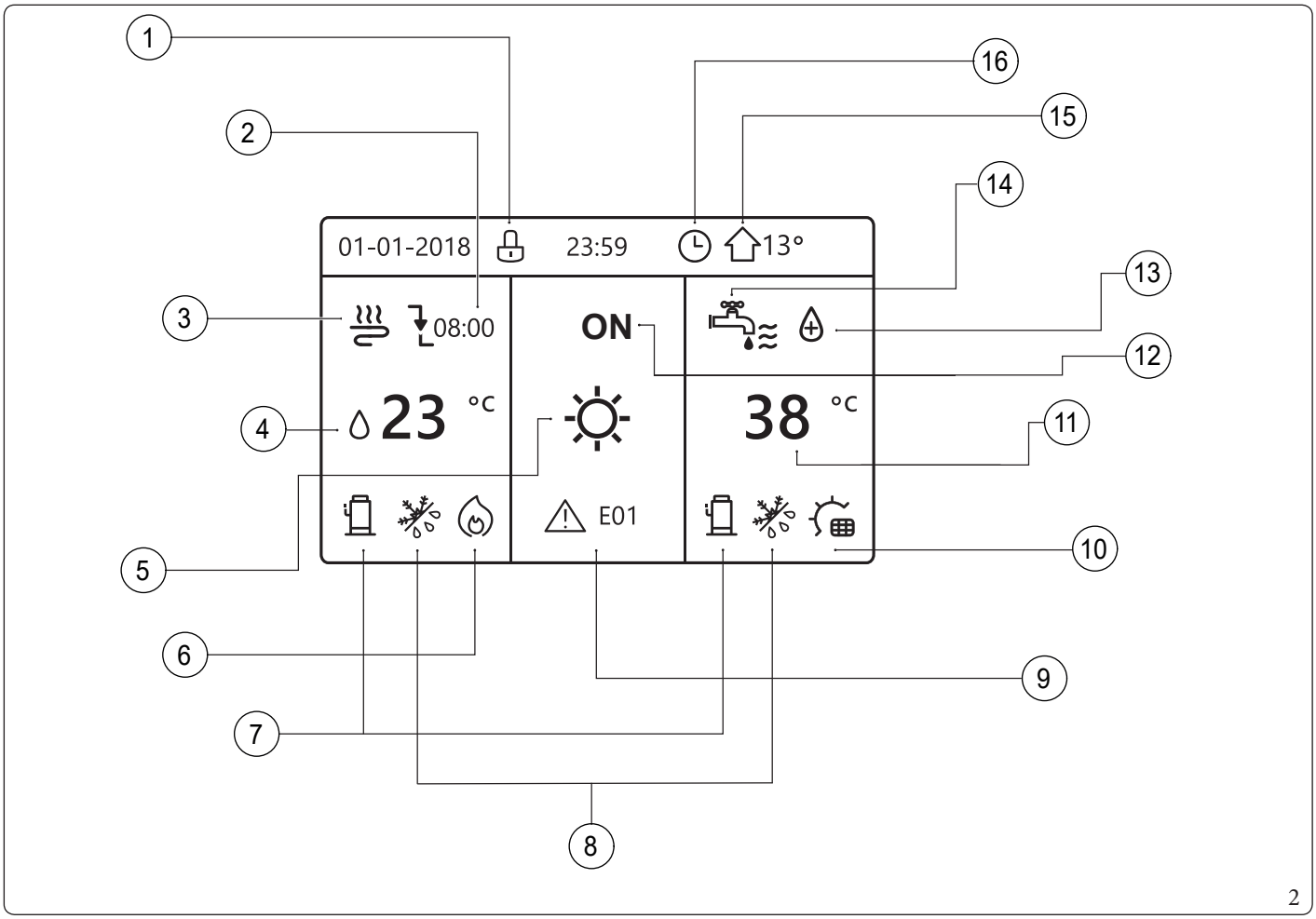
2.1 APPEARANCE OF THE CONTROL PANEL.



1

Reference	Icon	Function
1		Enter the menu structure from the home page.
2		Move the cursor on the display. Navigate in the menu structure. Adjust the settings.
3		Go back to higher level.
4		Go to the next step when programming a schedule in the menu structure. Confirm a selection. Enter a submenu in the menu structure.
5		Long press to unlock/lock the control panel. Release/block some functions like "DHW TEMP.ADJUST".
6		Activate or deactivate the room operation mode or "13.2 DHW MODE". Enable or disable the function in the menu structure.

2.2 STATUS ICONS.



2

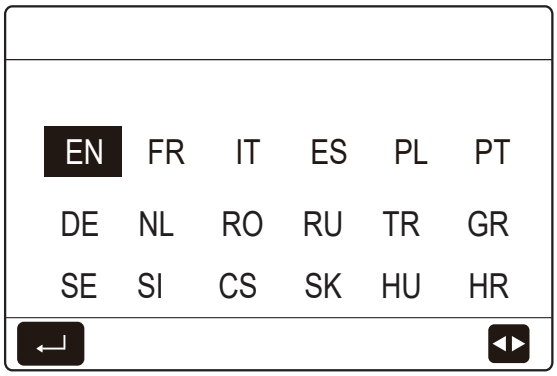
Reference	Icon	Description	
1		Lock icon	
2		Desired temperature does not change	At the next scheduled action, the desired temperature will decrease
		Desired temperature decreases	
		Desired temperature increases	
3		Fan coil	
		Radiator	
		Floor heating	
4	23 °C	Desired water flow temperature	
	23,5 °C	Desired room temperature	
5		Heating Mode	
		Cooling Mode	
		Auto mode	
6		Additional heating source (not used)	
		Heating source (IBH backup heater)	

Reference	Icon	Description
7		Compressor on
8		Anti-freeze mode activated
		Defrost mode activated
		Holiday away / home activated
		Silent mode activated
		ECO mode activated
9		Error or protection icon
		Pump I on
		Smart grid: Free electricity
		Smart grid: Peak end electricity
		Smart grid: Peak electricity
10		Additional heating source (not used)
		Photovoltaic contact activated
		Storage tank heater on
11	38 °C	Domestic hot water Storage tank temperature
12	OFF ON	Turn Off / On
13		Disinfect function activated
14		Domestic hot water
15	13°	External room temperature
16		Weekly schedule icon
		Timer Icon

	Fan coil	Radiator	Floor heating	Domestic hot water
ON				
OFF				

3 USING HOME PAGES.

When the control panel is switched on, the language selection page is displayed. Choose the desired language and then press ↵ to view the home pages. If you do not press ↵ within 60 seconds, the system will set the currently selected language:



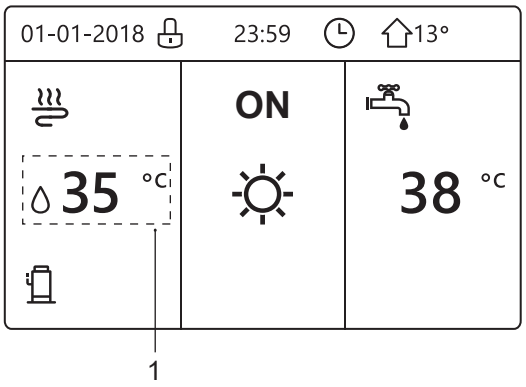
3

The home pages can be used to read and adjust settings intended for daily use. The settings displayed and that can be set on the home pages are described in the relative sections. The following home pages can be displayed depending on the system layout:

- Desired water flow temperature;
- Desired room temperature;
- DHW storage tank temperature.

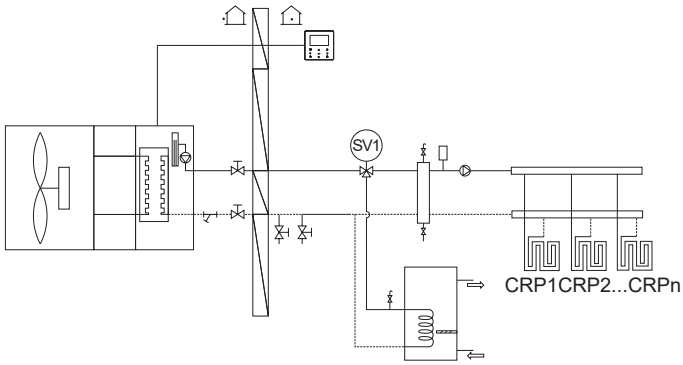
Home page 1.

If "5.1 WATER FLOW TEMP." is set at "YES" and "5.2 ROOM TEMP." is set at "NON" (see "FOR SERVICEMAN" > "5. TEMP. TYPE SETTING" in the Use and Installation Booklet), the system will also include the floor and domestic hot water heating function. The home page will appear (Fig. 4):



4

System layout 1



5

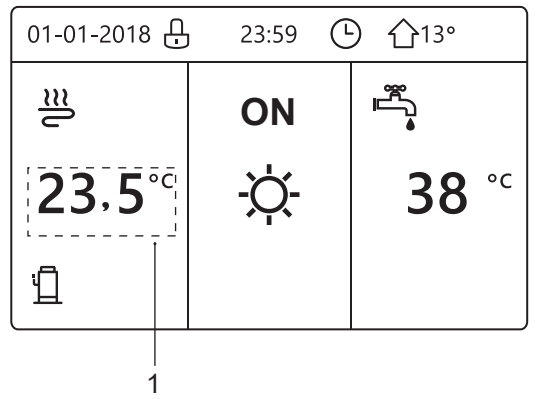
Key (Fig. 4):

1 - Desired water flow temperature

All the images in the manual have been inserted for illustrative purposes. Therefore there could be differences compared to the pages that actually appear on the screen.

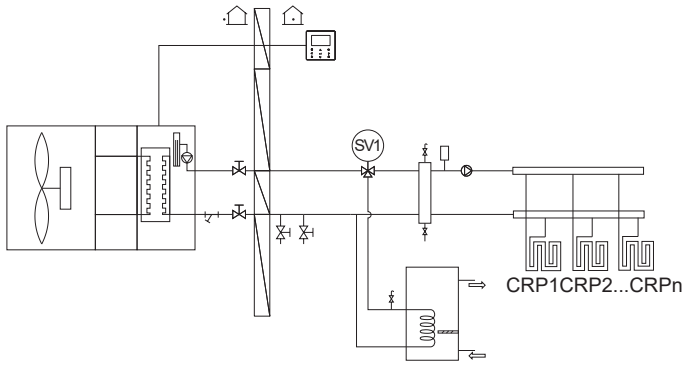
Home page 2.

If "5.1 WATER FLOW TEMP." is set at "NON" and "5.2 ROOM TEMP." is set at "YES" (see "FOR SERVICEMAN" > "5. TEMP. TYPE SETTING" in the Use and Installation Booklet), the system will also include the floor and domestic hot water heating function. The home page will appear (Fig. 6):



6

System layout 2



7

Key (Fig. 6):

1 - Desired room temperature

The wall-mounted control panel should be installed in the floor heating room to be able to control the room temperature.

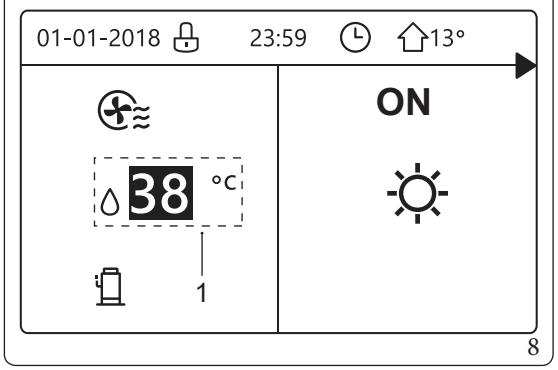
Home page 3.

If "13.2 DHW MODE" is set at "NON" (see “FOR SERVICEMAN” > “1. DHW MODE SETTING” in the Use and Installation Booklet”) and if "5.1 WATER FLOW TEMP." is set at "YES", "5.2 ROOM TEMP." is set at "YES" (see“FOR SERVICEMAN” > “5. TEMP. TYPE SETTING” in the Use and Installation Booklet”).

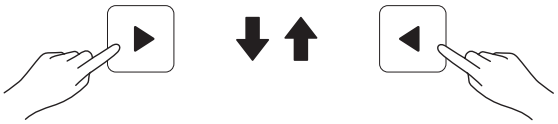
There will be a main page and an additional page. The system also has the function including floor heating and space heating for fan coil.

The home page will appear (Fig. 8):

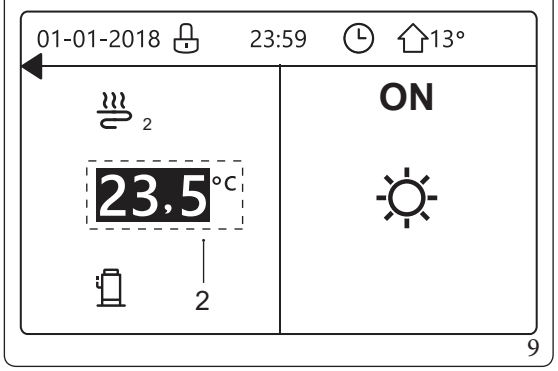
Main page



8

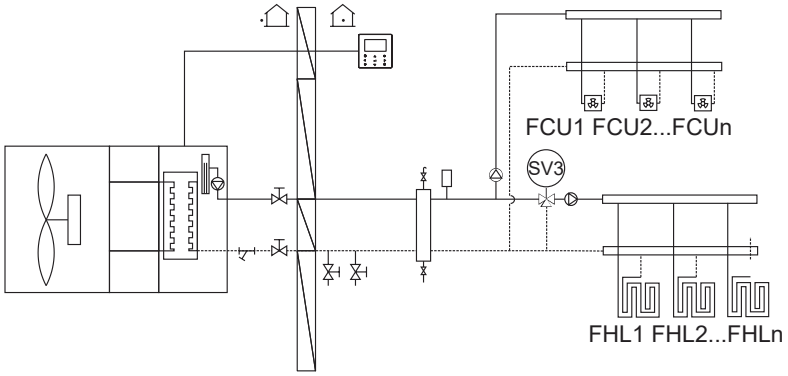


Additional page



9

System layout 3



10

Key (Fig. 8 - 9):

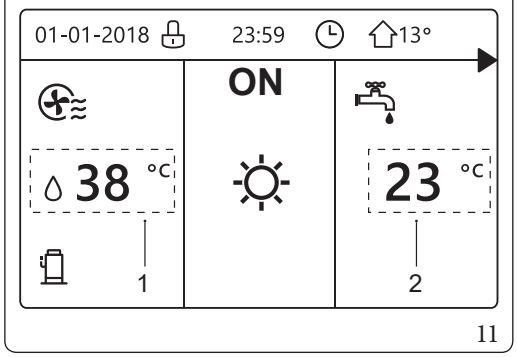
1 - Zone 1 desired water flow temperature

2 - Zone 2 desired room temperature

Home page 4.

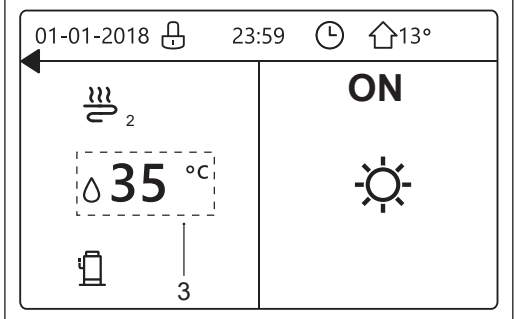
If "6. ROOM THERMOSTAT" is set at "DOUBLE ZONE" or "DOUBLE ZONE" is set at "YES", there will be a main page and an additional page. The system also has the function including floor heating, space heating for fan coil and domestic hot water.
The home page will appear (Fig. 11):

Main page



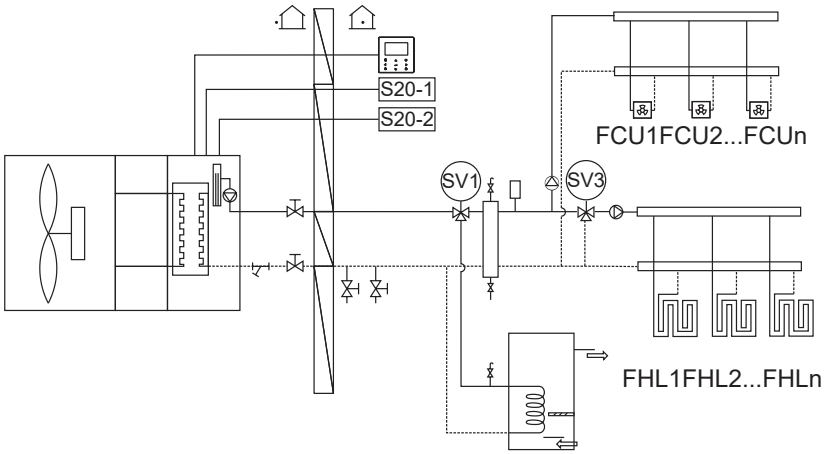
11

Additional page



12

System layout 4



13

Key (Fig. 11 - 12 - 13):

- *1 - Zone 1 desired water flow temperature*
- *2 - DHW tank real temperature*
- *3 - Zone 2 desired room temperature*
- *S20-1 - Zone 1 room thermostat*
- *S20-2 - Zone 2 room thermostat*

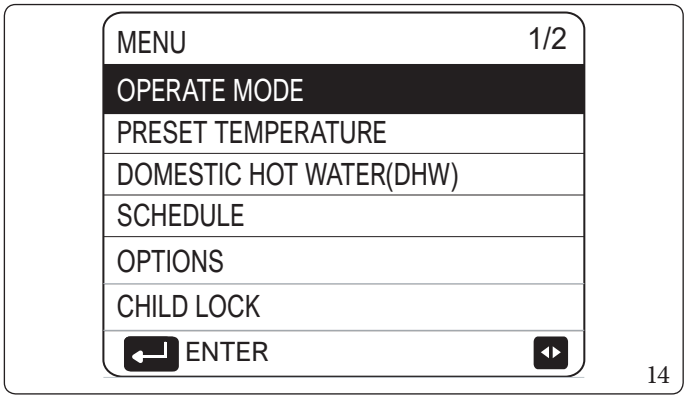
4 MENU STRUCTURE.

4.1 ABOUT THE MENU STRUCTURE.

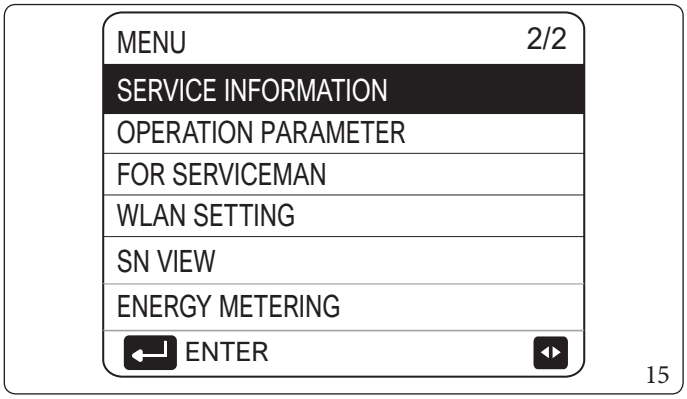
The menu structures can be used to read and adjust settings NOT intended for daily use.
The settings displayed and that can be set in the menu structures are described in the relative sections.
For an overview of the menu structure, see chapter 7 "Menu structure: overview".

4.2 ACCESS TO THE MENU STRUCTURE.

From a home page, press ☰. This will display the menu structure:



14



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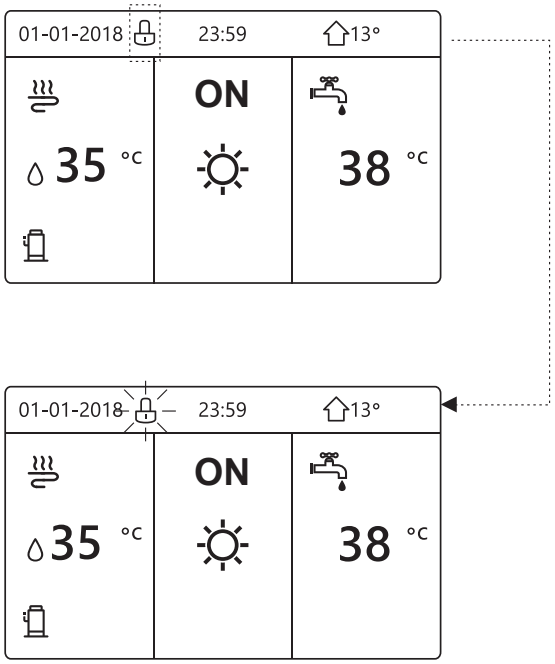
4.3 HOW TO NAVIGATE IN THE MENU STRUCTURE.

Use "▼" and "▲" to scroll.

5 BASIC USE.

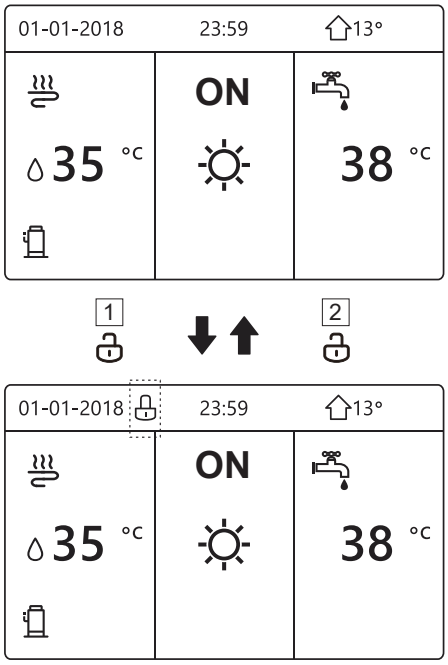
5.1 SCREEN UNLOCK.

If the icon appears on the screen, the control panel is locked. The following page is displayed:



16

Press any key, the icon flashes. Press and hold the key. The icon will disappear, making it possible to control the panel.
The control panel will lock if no operations are performed for much time (approximately 120 seconds): the setting can be adjusted on the panel, see paragraph 6.7 "Technical information.".
If the control panel is unlocked, press and hold the key to lock it.



17

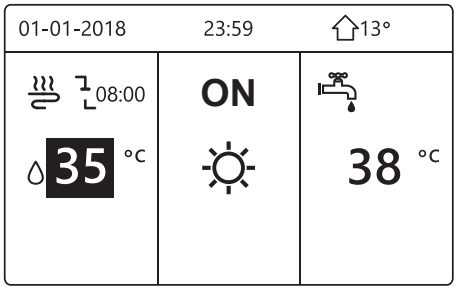
Key (Fig. 17):

1 - Press and hold
2 - Press and hold

5.2 SWITCHING CONTROLS ON/OFF.

Use the control panel of the unit to switch space heating or cooling on or off.

- You may switch the unit on/off from the control panel if "6. ROOM THERMOSTAT" is set at "NON" (see "6. ROOM THERMOSTAT" in the Use and Installation Booklet).
- Press "◀" and "▶" on the home page, the black cursor will appear:



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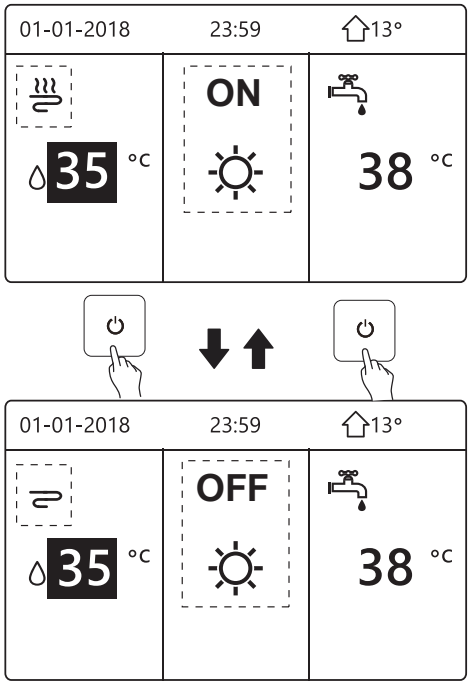
- 1) When the cursor is on the temperature on the space operation mode side (which includes "HEATING" mode ☼, "COOLING" mode ❄ and "AUTO" mode Ⓐ, press the ⏻ key to activate/deactivate space heating or cooling.



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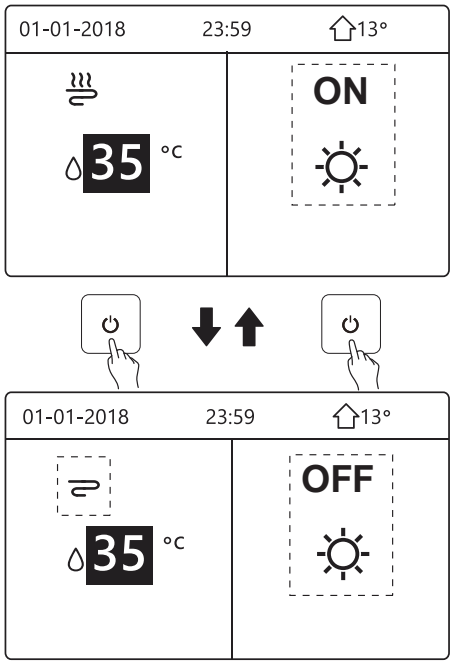
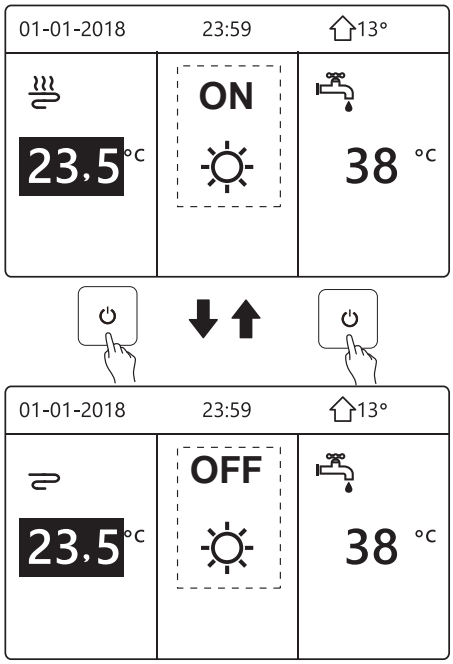
If DHW TYPE is set at NO, the following pages will appear:



20

If "5. TEMP. TYPE SETTING" is set at "5.2 ROOM TEMP.", the following pages will appear:



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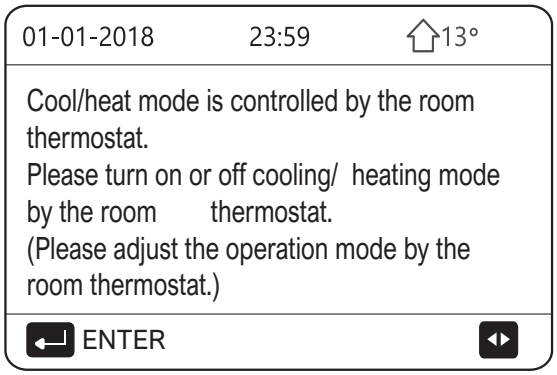
Use the room thermostat to switch space heating or cooling on or off.

- 1) The room thermostat is set at "ONE ZONE" or "DOUBLE ZONE" or "MODE SET" (see "6. ROOM THERMOSTAT" in the Use and Installation Booklet). The unit for space heating or cooling is activated or deactivated from the room thermostat. If you press "⏻" on the control panel, the following page will appear:



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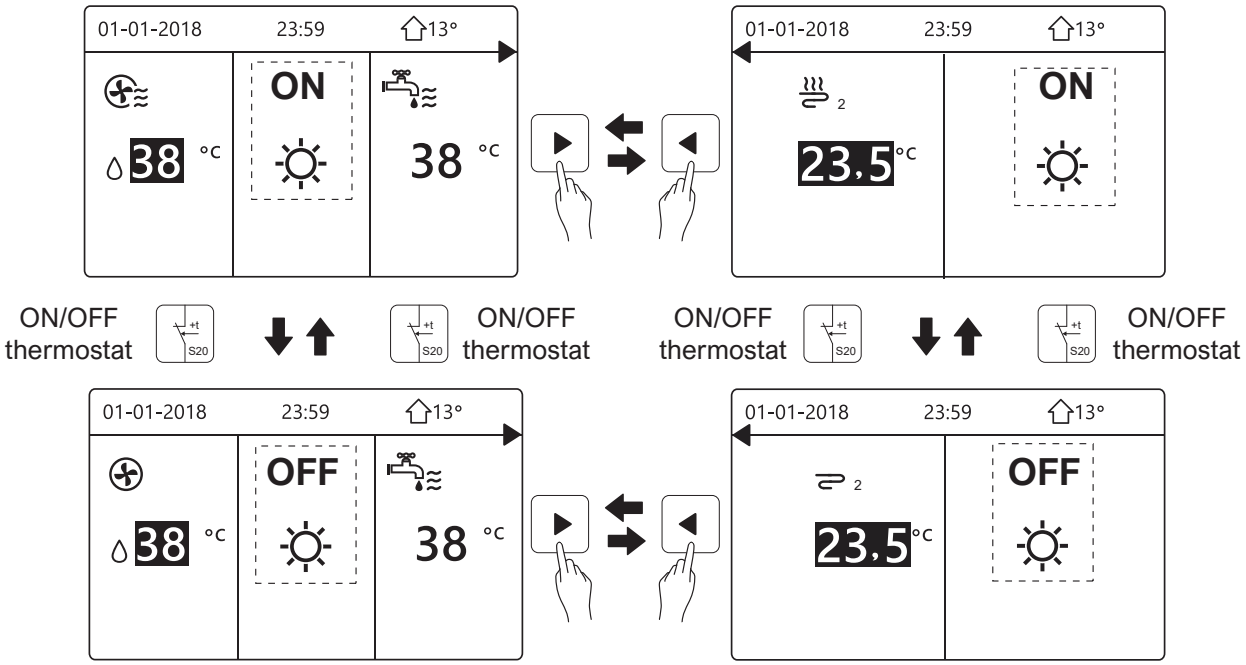
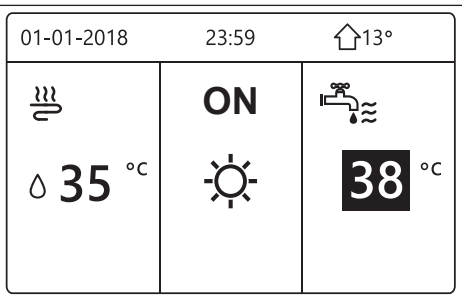
- 2) The room thermostat is set at "ONE ZONE" or "DOUBLE ZONE" (see "6. ROOM THERMOSTAT" in the Use and Installation Booklet). The room thermostat controls the ON/OFF operating mode of the unit, set on the control panel. The following pages show the control of the DOUBLE ZONE room thermostat.



23

Use the control panel to switch the "DHW" unit on or off. Press "◀" and "▶" on the home page, the black cursor will appear:



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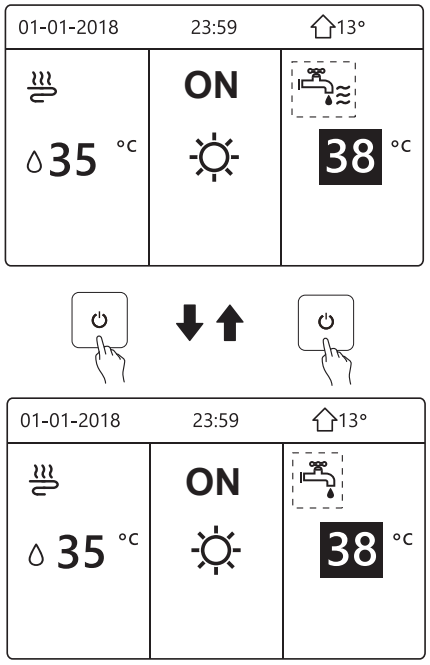
- 1) When the cursor is on the temperature of the "13.2 DHW MODE", press the "⏻" key to activate or deactivate it.
- If the space operation mode is activated (ON), the following pages appear:



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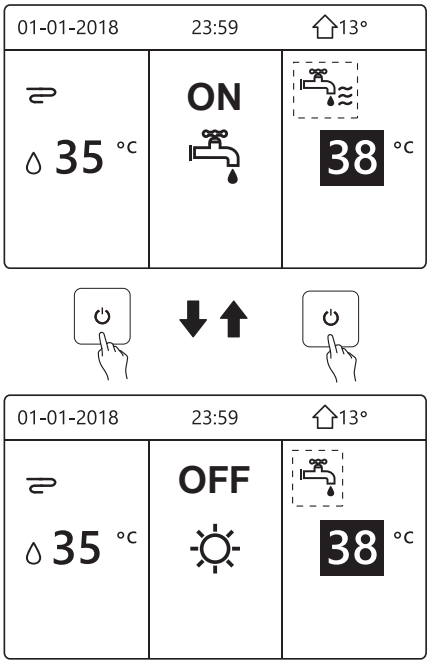
If the space operation mode is deactivated (OFF), the following pages appear:



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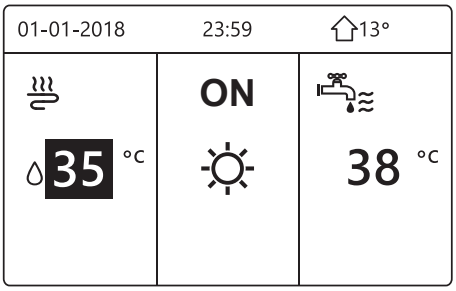
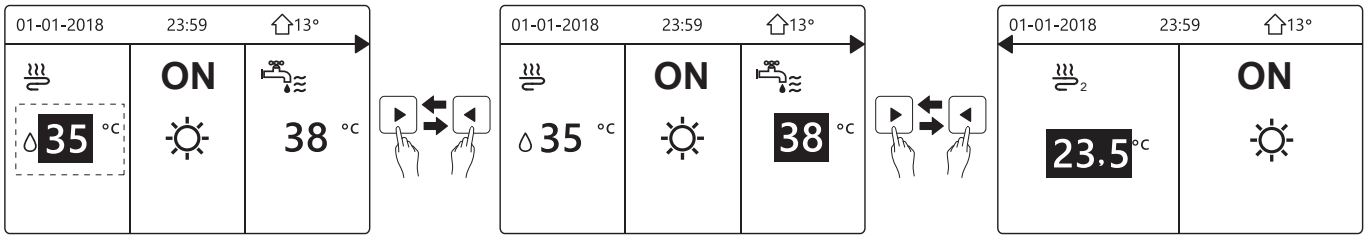
5.3 ADJUSTING THE TEMPERATURE.

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



27

- If the cursor is on the temperature, use "◀" and "▶" to select (Fig. 28) and use "▼" and "▲" to adjust the temperature (Fig. 29).



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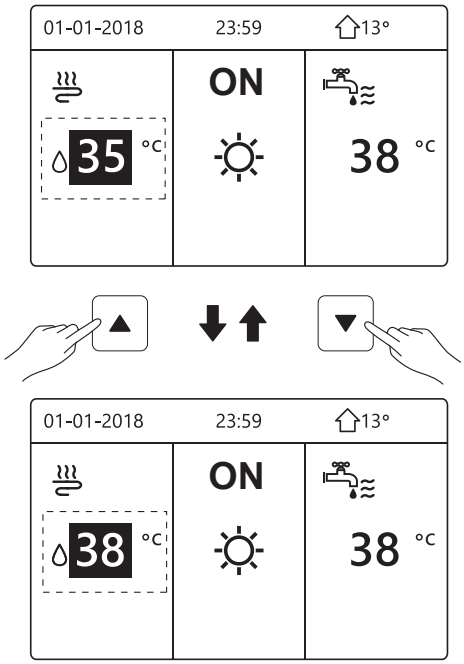

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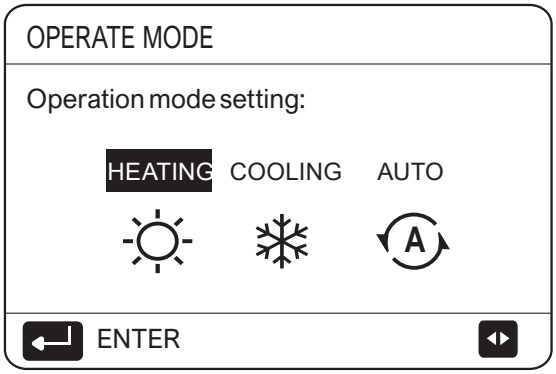
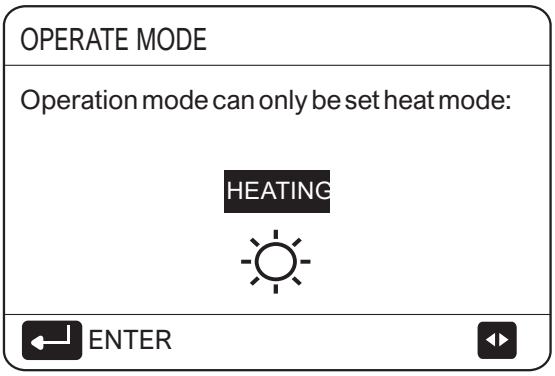
5.4 ADJUSTING SPACE OPERATION MODE.

- Adjusting space operation mode from control panel.
  Go to "☰" > "OPERATE MODE". Press ↵, the following page will appear:

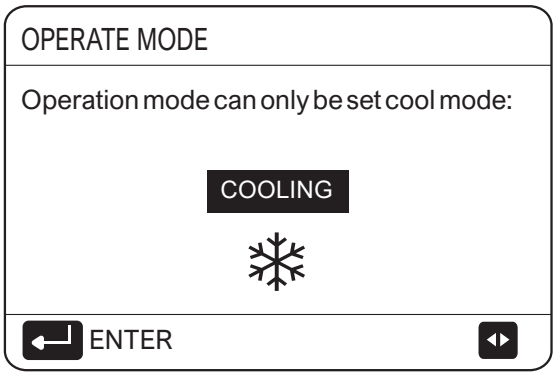


30

- You may select three modes, namely "HEATING", "COOLING" and "AUTO". Use "◀" and "▶" to scroll, press ↵ to select.
  If you do not press ↵ and you exit the page by pressing ↩, the mode will remain operational if the cursor was moved to the operation mode.
  If only "HEATING" mode (COOLING) is available, the following page will appear:



31

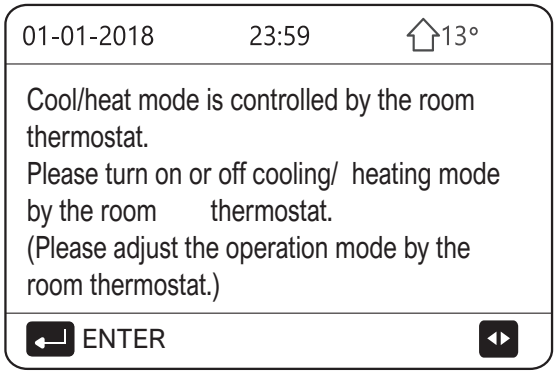


32

- The operation mode cannot be changed.

If you select...	Then the space operation mode is...
☼ HEATING	Always in Central heating
❄ COOLING	Always in Cooling
Ⓐ AUTO	Setting automatically changed by the software based on the outdoor temperature (and depending on installer settings of the outdoor temperature), and taking monthly restrictions into account. Note: the automatic change is only possible under certain conditions. See "FOR SERVICEMAN" > "4. AUTO MODE SETTING" in the Use and Installation Booklet

- Adjust the operation mode from the room thermostat (see “6. ROOM THERMOSTAT” in the Use and Installation Booklet). Go to “ ” > “OPERATE MODE”. If you press any key for a selection or adjustment, the following page appears:



33

6 OPERATION.

6.1 OPERATION MODE.

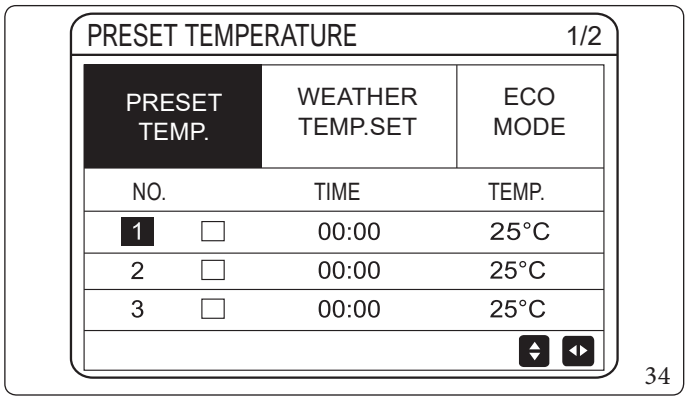
See Paragraph 5.4 “Adjusting space operation mode”.

6.2 PRESET TEMPERATURE.

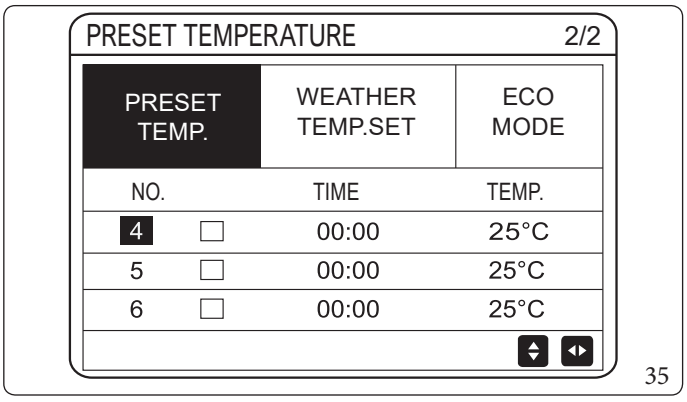
"PRESET TEMPERATURE" has 3 elements:
- PRESET TEMP.:
- WEATHER TEMP.SET;
- ECO MODE.

PRESET TEMP.:

The "PRESET TEMP." function allows you to set a different temperature at a different time when Heat or Cool mode is active.
- PRESET TEMP. =PRESET TEMPERATURE
- The "PRESET TEMPERATURE" function is deactivated under these conditions:
  - 1) the "AUTO" mode is on;
  - 2) "TIMER" or "WEEKLY SCHEDULE CHECK" are running.
- Go to “☰” > “PRESET TEMPERATURE” > “PRESET TEMP.”. Press ↵.
  - The following page is displayed:

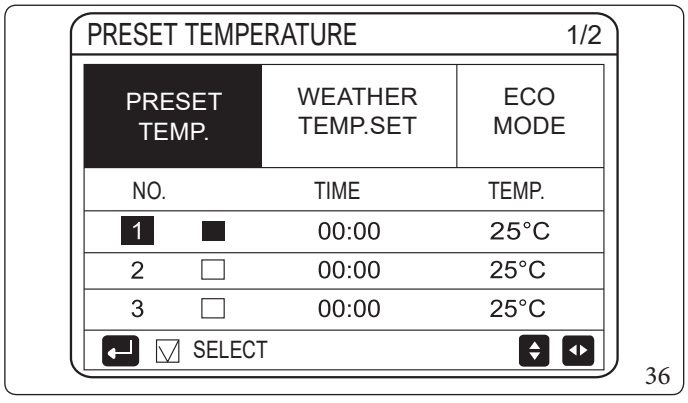


34

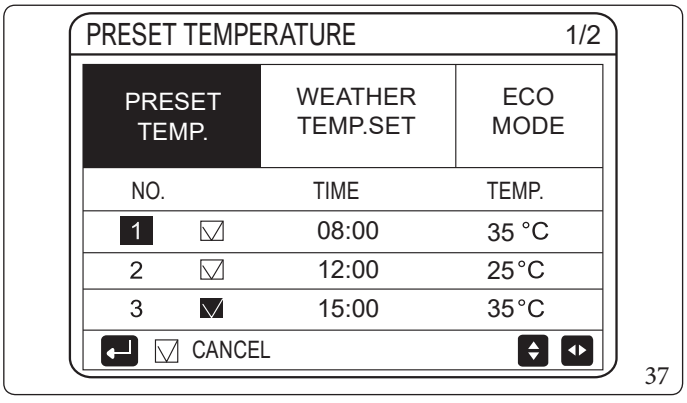


35

When the "DOUBLE ZONE" function is activated, “PRESET TEMP.” is only active for zone 1.
Use “◀”, “▶”, “▼”, “▲” to scroll and use “▼” and “▲” to adjust the time and the temperature.
When the cursor is on “■”, as in the following page;
Press ↵ and “■” becomes “☑”. Timer 1 is selected. Press “↵” again and “☑” becomes “■”. Timer 1 is unselected.



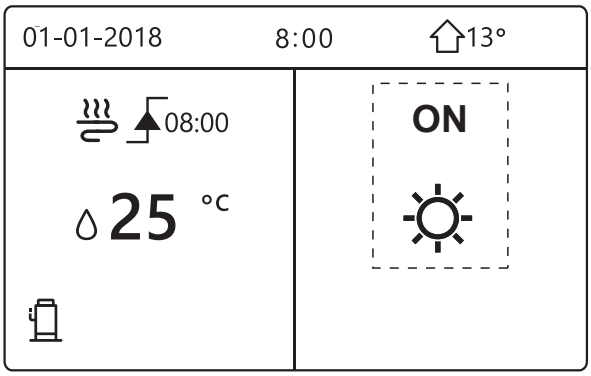
36



37

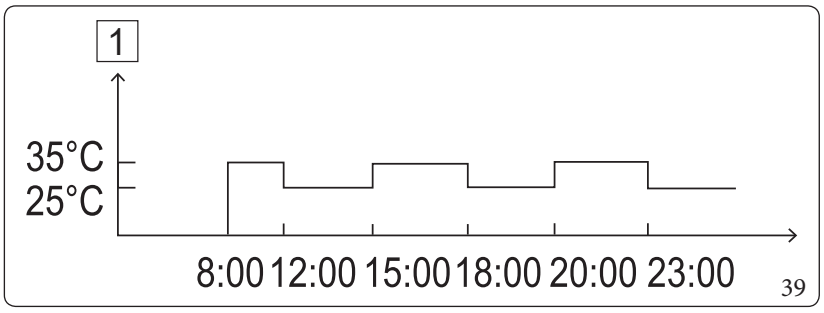
Use “◀”, “▶”, “▼”, “▲” to scroll and use “▼” and “▲” to adjust the time and temperature. Six periods and six temperatures can be set.

For example: now it is 8:00 and the temperature is 30°C. We set "PRESET TEMP." as in the table below.
The following page is displayed:



38

NO.	TIME	TEMPER.
1	8:00	35°C
2	12:00	25°C
3	15:00	35°C
4	18:00	25°C
5	20:00	35°C
6	23:00	25°C



39

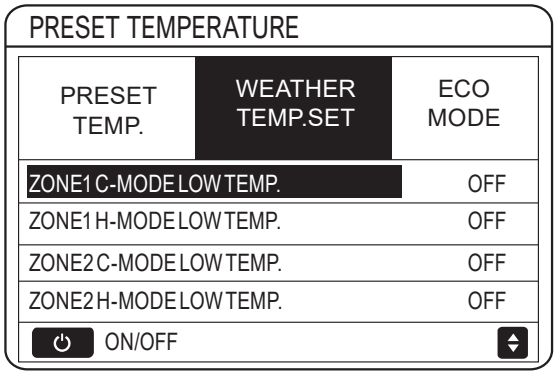
Key (Fig. 39):
1 - Temperature

When the space operation mode is changed, PRESET TEMP. automatically switches off.
The "PRESET TEMP." function can be used in Heating or Cooling. However if the operation mode is changed, the "PRESET TEMP." function needs to be restored.
The current preset temperature is not valid when the unit is OFF. When the unit is switched back on, it will run at the next preset temperature.

WEATHER TEMP.SET

- WEATHER TEMP.SET = CLIMATE TEMPERATURE SETTING
- The "WEATHER TEMP.SET" function allows you to preset the desired water flow temperature based on the outdoor air temperature. When the weather heats up, heating is turned down. Therefore to save energy, the desired water flow temperature is reduced when the outdoor temperature increases and the "HEATING mode is active.

Go to "☰" > "PRESET TEMPERATURE" > "WEATHER TEMP.SET". Press ↵.
The following page is displayed:



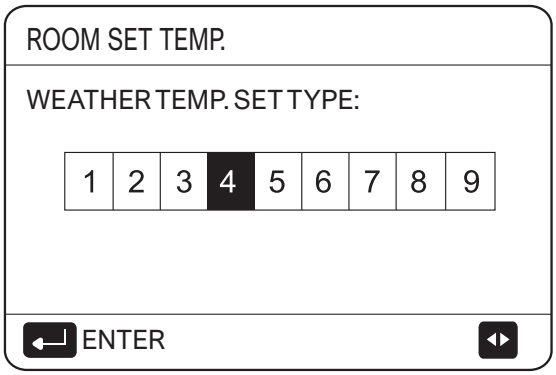
40

- "WEATHER TEMP.SET" has four types of curves:
  1) the high temperature heating setting curve;
  2) the low temperature heating setting curve;
  3) the high temperature cooling setting curve;
  4) the low temperature cooling setting curve.

Use only the high temperature heating setting curve if high temperature is set for central heating.
Use only the low temperature heating setting curve if low temperature is set for central heating.
Use only the high temperature cooling setting curve if high temperature is set for cooling.
Use only the low temperature cooling setting curve if low temperature is set for cooling.

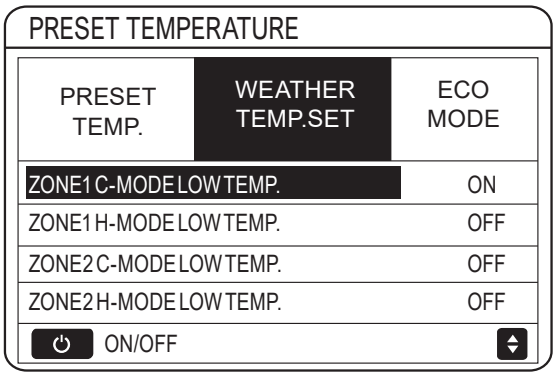
- See “FOR SERVICEMAN” > “2.COOL MODE SETTING” and > “3. HEAT MODE SETTING” in the Use and Installation Booklet.
- It is not possible to adjust the desired temperature (T1S), when the temperature curve is set at "ON".

- To use the "HEATING" mode in zone 1, select “ZONE1 H-MODE HIGH TEMP.”. To use the "COOLING" mode in zone 1, select “ZONE1 C-MODE HIGH TEMP.”. Selecting “ON” displays the following page:



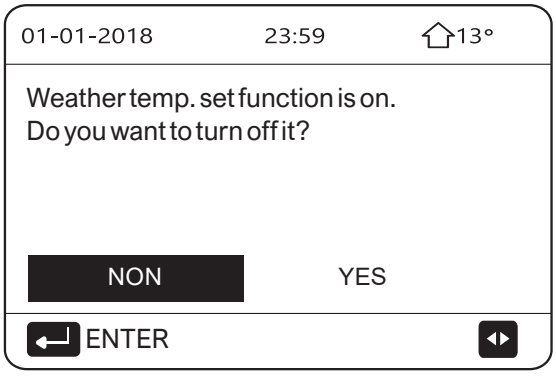
41

Use “◀” and “▶” to scroll. Press “↵” to select.



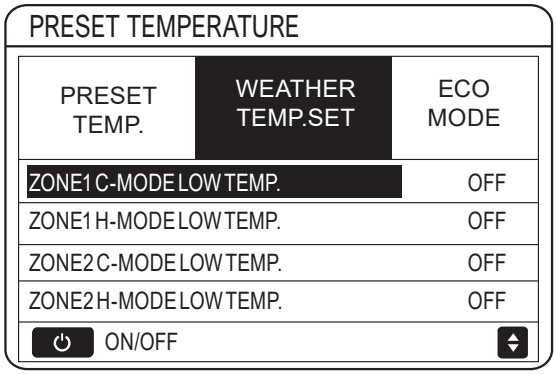
42

- If the "WEATHER TEMP.SET" function is on, the desired temperature cannot be adjusted on the control panel. If “▼” and “▲” are pressed to adjust the temperature on the home page. The following page is displayed:



43

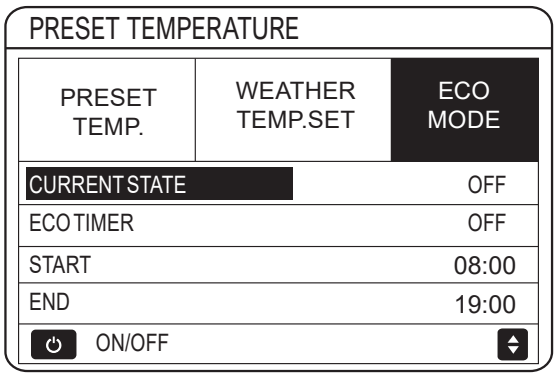
- Move to “NON”, press ↵ to go back to the home page. Move to “YES”, press ↵ to reset "WEATHER TEMP.SET".



44

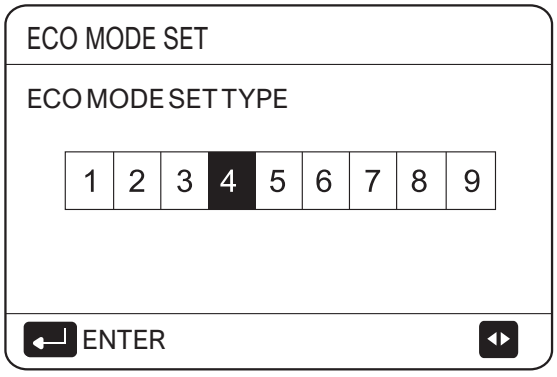
ECO MODE.

Eco Mode allows you to save energy. Go to “☰” > “PRESET TEMPERATURE” > “ECO MODE”.
Press “↵”. The following page is displayed:



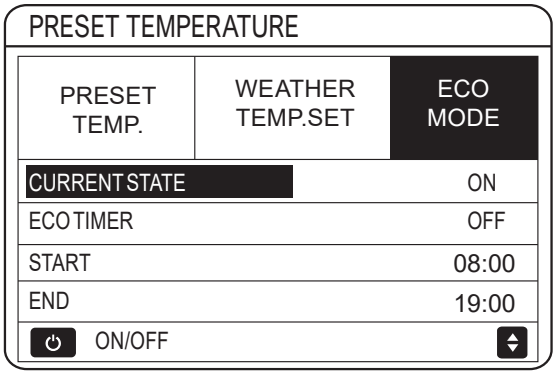
45

Press ⏻. The following page is displayed:



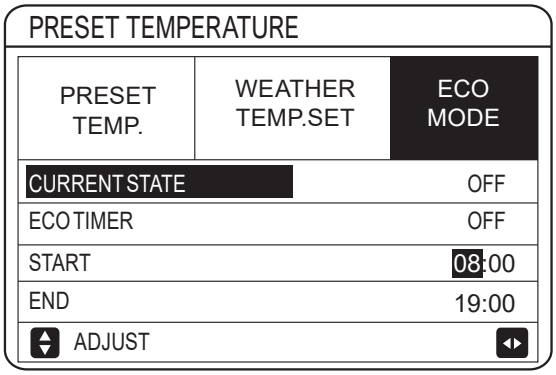
46

Use "◀" and "▶" to scroll. Press ↵ to select. The following page is displayed:



47

Use ⏻ to activate/deactivate; use "▼" and "▲" to scroll.



48

When the cursor is on "START" or "END", you can use "◀", "▶", "▼", "▲" to scroll and "▼" and "▲" to adjust the time.

- "ECO MODE SET" has two types of curves:
  1) the high temperature heating setting curve;
  2) the low temperature heating setting curve;

There is only the high temperature heating setting curve if high temperature is set for central heating.
There is only the low temperature heating setting curve if low temperature is set for central heating.

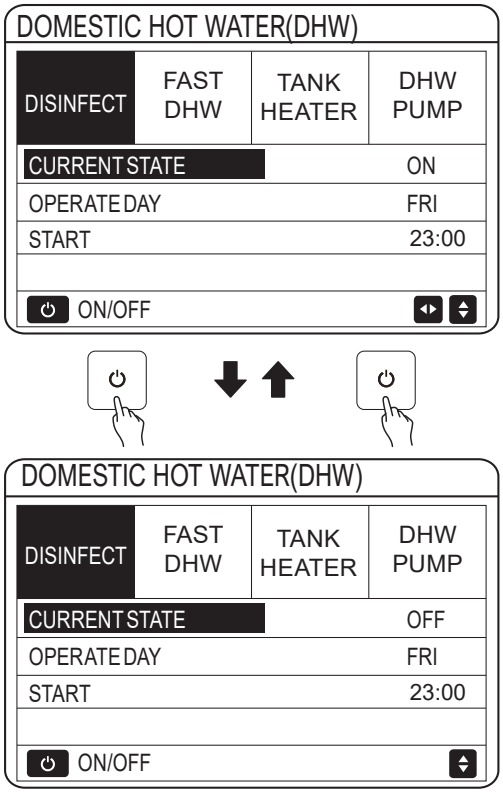
- See "FOR SERVICEMAN" > "MODE SET HEATING" in the Use and Installation Booklet.
- It is not possible to adjust the desired temperature (T1S), when the "ECO MODE" is activated (ON).
- You may select the low or high temperature setting for heating: see "Table 1-2".
- If "ECO MODE" is activated (ON) and "ECO TIMER" is deactivated (OFF), the unit will always run in "ECO" mode.
- If "ECO MODE" is activated (ON) and "ECO TIMER" is activated (ON), the unit will work in "ECO" mode based on the start and end time.

6.3 DOMESTIC HOT WATER (DHW).

"DHW" mode normally includes the following items:
- DISINFECT;
- FAST DHW;
- TANK HEATER;
- DHW PUMP.

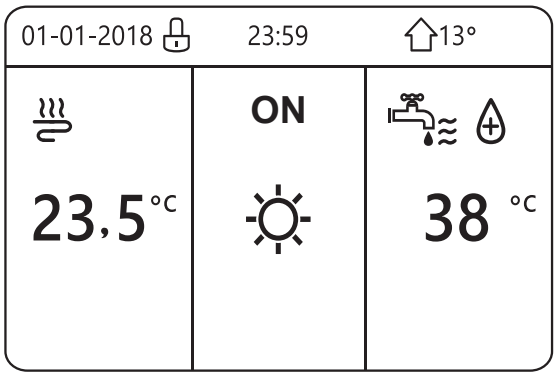
DISINFECT.

The "DISINFECT" function allows you to eliminate legionella bacteria. The storage tank temperature mandatorily reaches 65-70°C in the disinfect function.
The disinfect temperature is set in "13.2 DHW MODE". See "FOR SERVICEMAN" > "1. DHW MODE SETTING" > "1.2 DISINFECT" in the Use and Installation Booklet.
Go to "☰" > "DOMESTIC HOT WATER(DHW)" > "DISINFECT". Press ↵.
The following page is displayed:



49

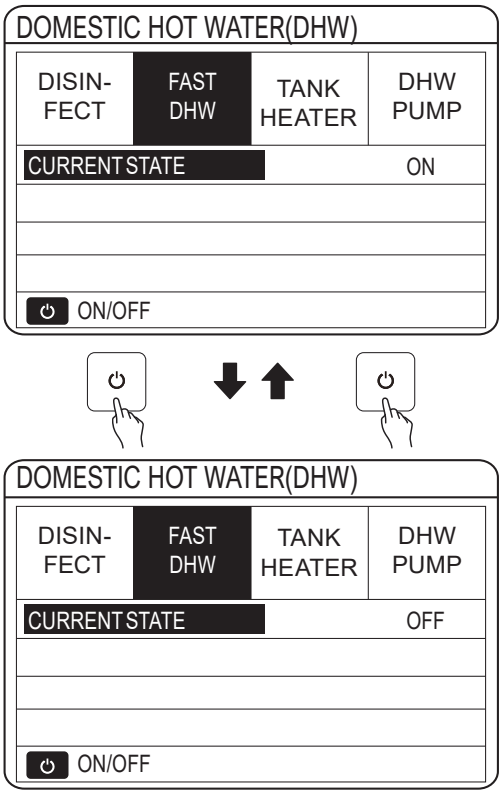
Use "◀", "▶", "▼", "▲" to scroll and use "▼" and "▲" to adjust the parameters when setting "OPERATE DAY" and "START". If "OPERATE DAY" is set at "FRI" and "START" is set at 23:00, the disinfect function will activate on Friday at 23:00.
If the disinfect function is active, the following page appears:



50

FAST DHW.

The "FAST DHW" function forces the system to activate "13.2 DHW MODE".
The heat pump and storage tank heater activate together for "13.2 DHW MODE" and the desired DHW temperature switches to 60°C.
Go to "☰" > "DOMESTIC HOT WATER(DHW)" > "FAST DHW". Press ↵.



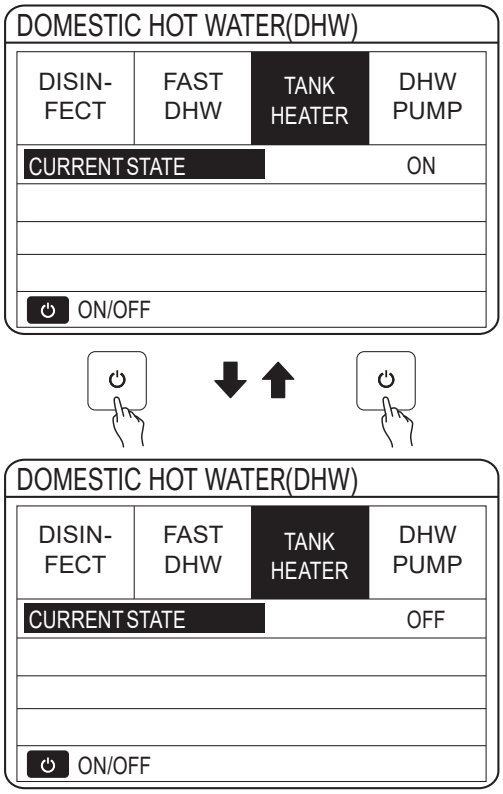
51

Use the ⏻ key to select activated (ON) or deactivated (OFF).

If "CURRENT STATE" is deactivated (OFF), the "FAST DHW" function is not valid, while if it is activated (ON), the "FAST DHW" function is active.
The "FAST DHW" activates once.

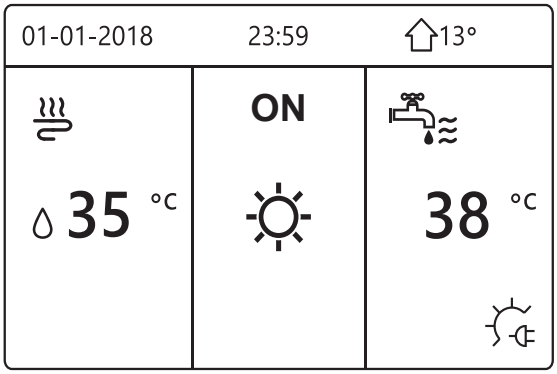
TANK HEATER

The "TANK HEATER" function forces water heating in the storage tank. In the same situation, cooling or heating is required and the heat pump system is operating for cooling or heating. However there is a domestic hot water demand as well.
Furthermore, if the heat pump system is not sufficient, the "TANK HEATER" can also be used to heat water in the storage tank.
Go to "☰" > "DOMESTIC HOT WATER(DHW)" > "TANK HEATER". Press "↵".



52

Use ⏻ to select activated (ON) or deactivated (OFF). Use "↩" to exit.
If "TANK HEATER" is active, the following page will appear:



53

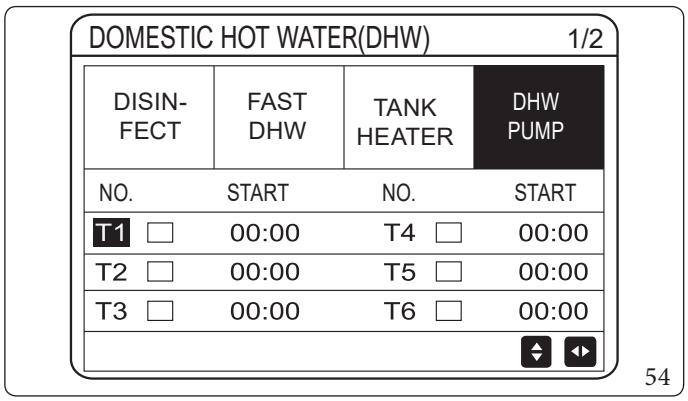
If "CURRENT STATE" is deactivated (OFF), "TANK HEATER" cannot be activated. If the storage tank sensor (T5) is faulty, the storage tank heater cannot work.

DHW PUMP.

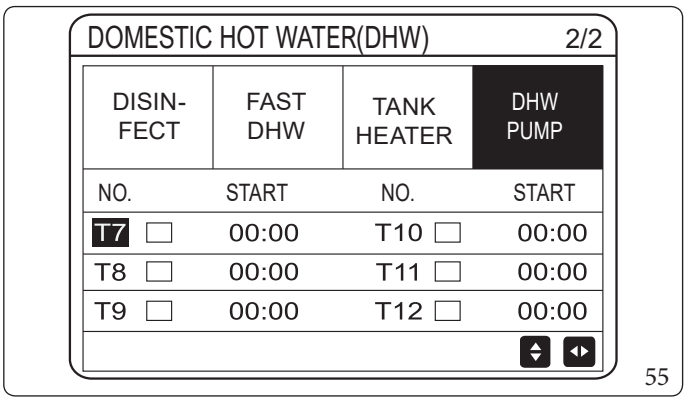
The "DHW PUMP" function allows to maintain the temperature inside the storage tank uniform, by activating a DHW recirculation pump.

Go to "☰" > "DOMESTIC HOT WATER(DHW)" > "DHW PUMP". Press "↵".

The following page is displayed:

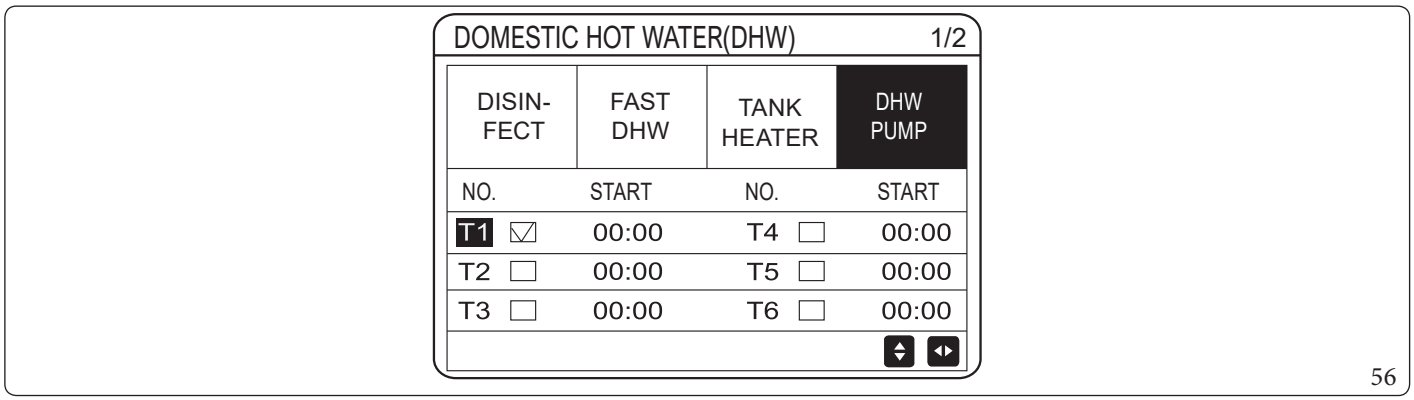


54



55

Move to "■", press ↵ to select or unselect (☑ the timer is selected; ☐ the timer is not selected).



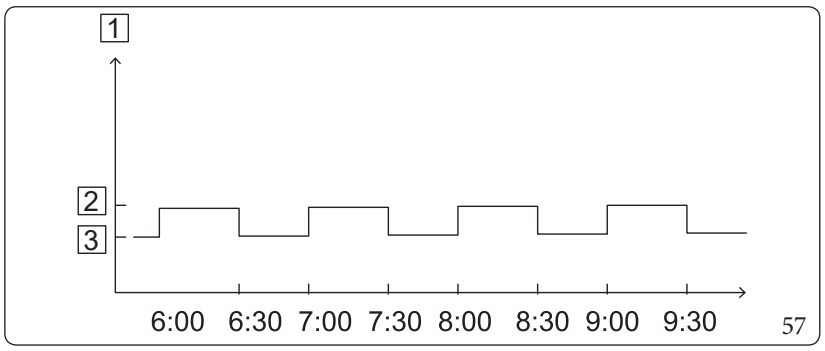
56

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

For example: the parameter relative to "DHW PUMP" was set (see "FOR SERVICEMAN" > "1. DHW MODE SETTING" in the Use and Installation Booklet). "PUMP_D RUNNING TIME" is 30 minutes.

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

The PUMP is switched on as shown below:



57

Key (Fig. 57):

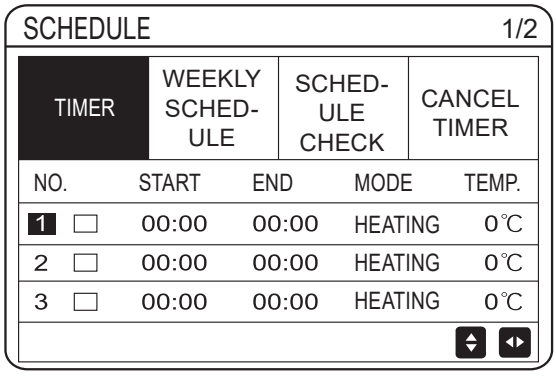
1 - Pump
2 - ON
3 - OFF

6.4 PROGRAMMING.

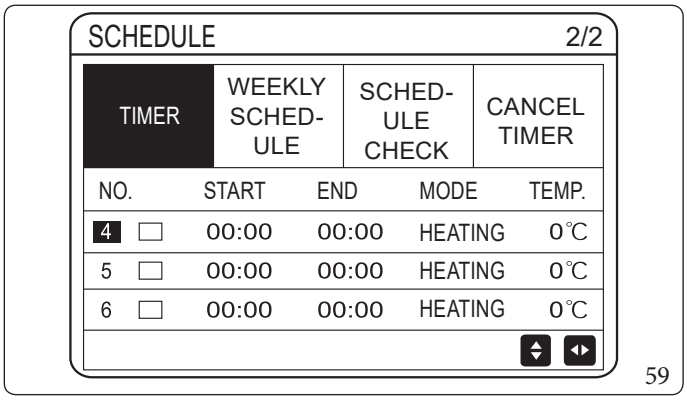
The "SCHEDULE menu contains the following items:
- TIMER;
- WEEKLY SCHEDULE;
- SCHEDULE CHECK;
- CANCEL TIMER.

TIMER.

If the weekly schedule is on and the timer is off, the most recent setting applies. If the "TIMER" is on, ⏲ is displayed on the home page.

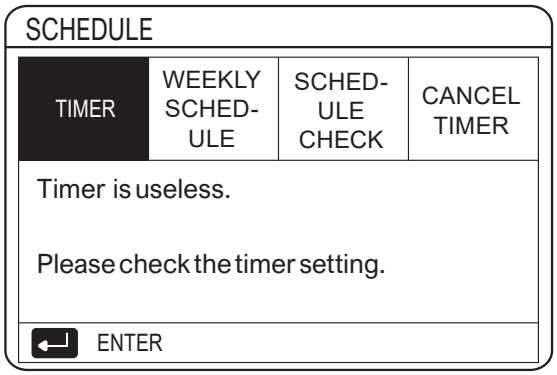


58



59

Use "◀", "▶", "▼", "▲" to scroll and use "▼" and "▲" to adjust the time, the mode and the temperature.
Move to "■", press ↵ to select or unselect (☑ the timer is selected; ☐ the "TIMER" is not selected). Six timers can be set.
To cancel the "TIMER", move the cursor to " ☑ ", and press ↵ . The icon ☑ becomes ☐ and the "TIMER" is not active.
If you set the start time later than the end time (or the temperature out of range of the mode), the following page appears:



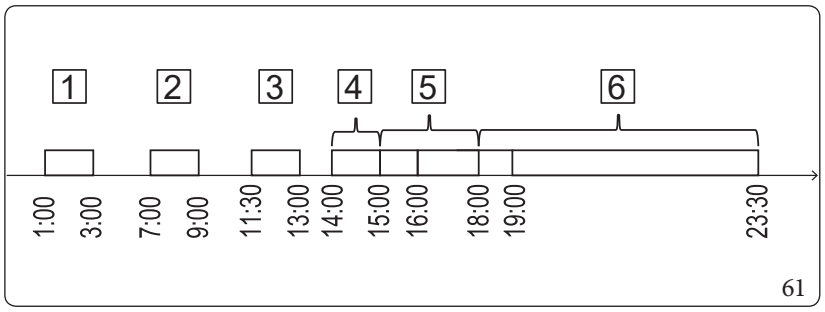
60

- Example:

Six timers are set as follows:

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

The PUMP is switched on as shown below:



Key (Fig. 61):

1 - DHW
2 - HEATING
3 - COOLING
4 - HEATING
5 - COOLING
6 - DHW

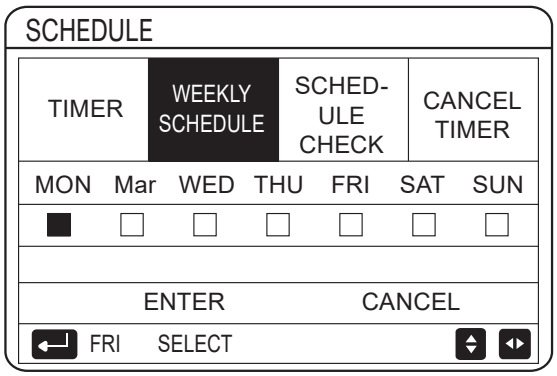
The control panel switches on at the following times:

TIME	Operation of the control panel
1:00	The "13.2 DHW MODE" is activated (ON)
3:00	"13.2 DHW MODE" is deactivated (OFF)
7:00	The "HEAT MODE" is activated (ON)
9:00	"HEAT MODE" is deactivated (OFF)
11:30	The "COOL MODE" is activated (ON)
13:00	"COOL MODE" is deactivated (OFF)
14:00	The "HEAT MODE" is activated (ON)
15:00	"COOL MODE" is activated (ON) and "HEAT MODE" is deactivated (OFF)
18:00	"13.2 DHW MODE" is activated (ON) and "COOL MODE" is deactivated (OFF)
23:30	"13.2 DHW MODE" is deactivated (OFF)

The timer is not valid if the start and end time are the same.

Weekly schedule.

If the timer is on and the weekly schedule is off, the most recent setting applies.
If the "WEEKLY SCHEDULE" function is on, "7" appears on the home page
Go to "☰" > "SCHEDULE" > "WEEKLY SCHEDULE". Press "↵".
The following page is displayed:



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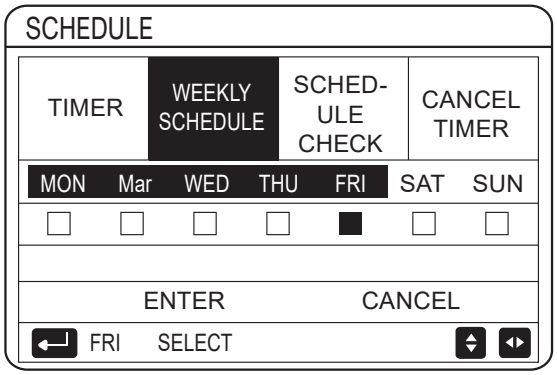
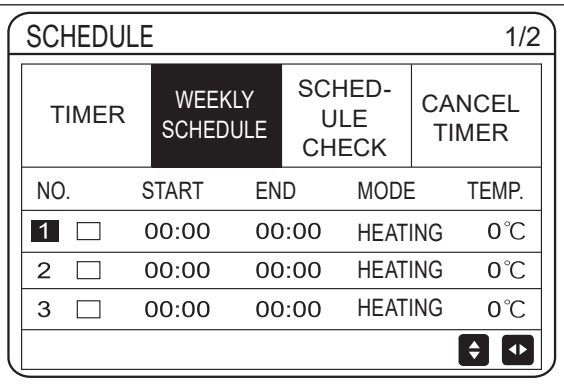
First select the days of the week you wish to schedule.
Use "◀" and "▶" to scroll, press ↵ to select or unselect the day.
"MON" indicates that the day is selected, "MON" means that that day is selected.

At least two days must be set when activating the "WEEKLY SCHEDULE" function.

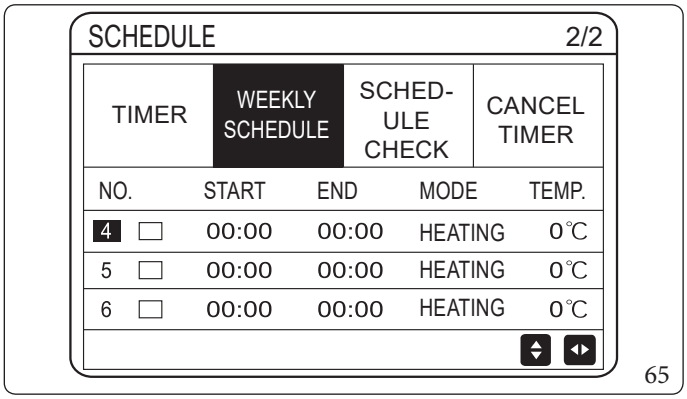


63

Use "◀" and "▶" to scroll, press ↵ to SET and press "ENTER". Monday to Friday are selected and they have the same schedule.
The following pages are displayed:



64



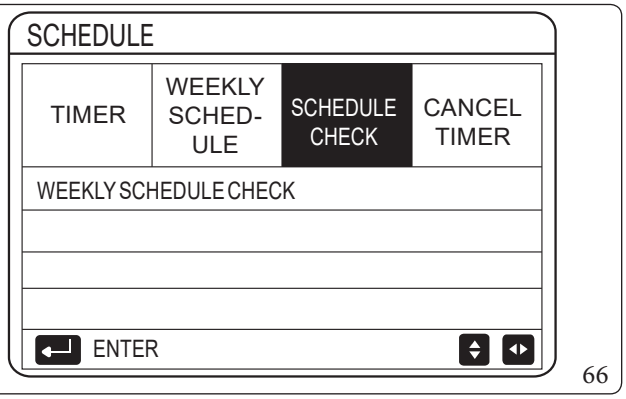
65

Use "◀", "▶", "▼", "▲" to scroll and adjust the time, the mode and the temperature.
Several timer settings can be made, including start and end time, mode and temperature. "HEAT MODE", "COOL MODE" and "13.2 DHW MODE" are included.
The setting method refers to the timer setting. The end time must be later than the start time. Otherwise the Timer useless indication will appear, namely that it cannot be activated.

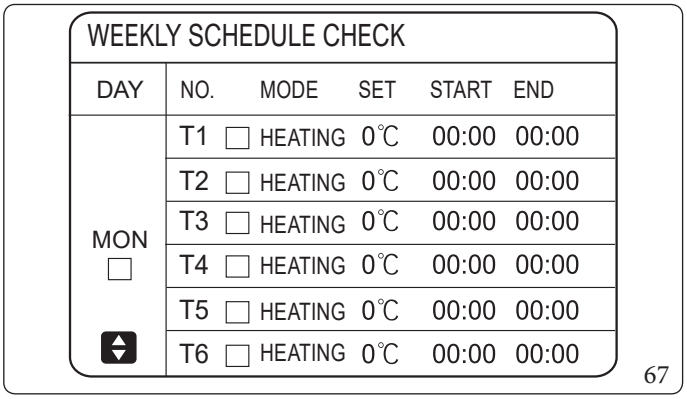
Schedule check.

The "SCHEDULE CHECK" function can only check the weekly schedule.

Go to "☰" > "SCHEDULE" > "SCHEDULE CHECK". Press "↵". The following page is displayed:



66

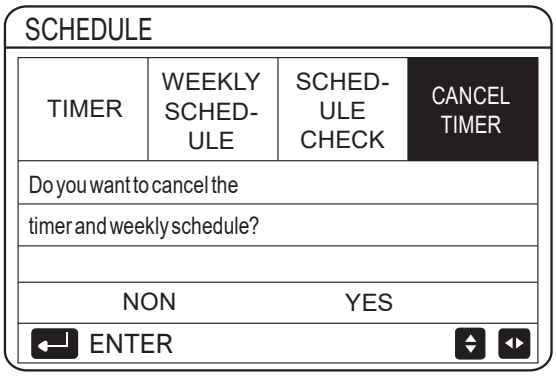


67

Press "▼" and "▲", the Monday to Sunday timer is displayed.

CANCEL TIMER.

Go to "☰" > "SCHEDULE" > "CANCEL TIMER". Press "↵".
The following page is displayed:



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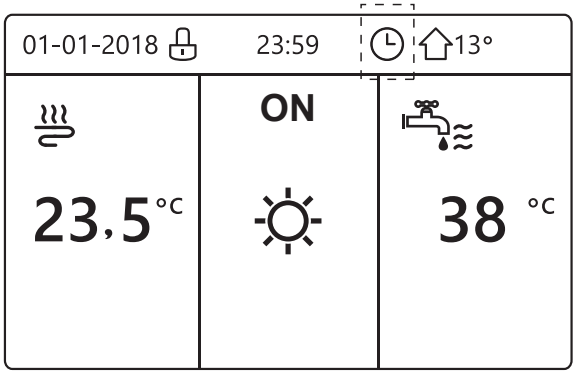
Use "◀", "▶", "▼", "▲" to move to "YES", press ↵ to cancel the timer.

To exit "CANCEL TIMER", press "↩".

If the "TIMER" or "WEEKLY SCHEDULE" functions are on, the timer icon "🕒" or the weekly schedule icon "7" appear on the home page.



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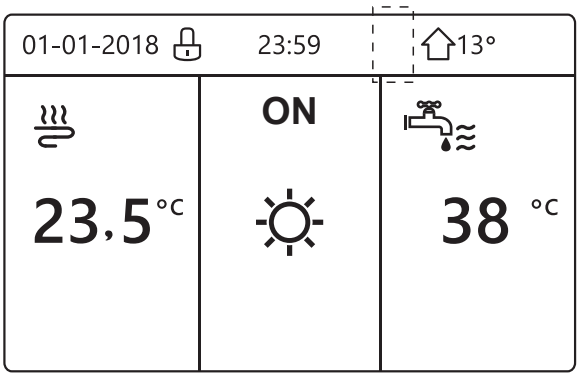
If the "TIMER" or "WEEKLY SCHEDULE" is cancelled, the icon "🕒" or "7" disappears from the home page.



70

"TIMER"/"WEEKLY SCHEDULE" must be restored if switching from setting "5.1 WATER FLOW TEMP." to "5.2 ROOM TEMP." or from setting "5.2 ROOM TEMP." to "5.1 WATER FLOW TEMP.".
"TIMER" or "WEEKLY SCHEDULE" are not valid if "6. ROOM THERMOSTAT" is active.

- "ECO" has the highest priority. "TIMER" or "WEEKLY SCHEDULE" have the intermediate priority and "PRESET TEMP." or "WEATHER TEMP.SET" have the lowest priority.
- "PRESET TEMP." or "WEATHER TEMP.SET" are no longer valid when "ECO is on. You must reset "PRESET TEMP." or "WEATHER TEMP.SET" when "ECO" is deactivated.
- "TIMER" or "WEEKLY SCHEDULE" are not valid when "ECO" is activated. "TIMER" or "WEEKLY SCHEDULE" are activated when "ECO" is not running.
- "TIMER" or "WEEKLY SCHEDULE" have the same priority. The function with the most recent setting is applied."PRESET TEMP." is no longer valid when "TIMER" or "WEEKLY SCHEDULE" are activated. "TIMER" or"WEEKLY SCHEDULE" have no effect on "WEATHER TEMP.SET".
- "PRESET TEMP." and "WEATHER TEMP.SET" have the same priority. The function with the most recent setting is applied.

All the items ("PRESET TEMP.", "ECO, "DISINFECT", "DHW PUMP", "TIMER", "WEEKLY SCHEDULE", "SILENT MODE", "HOLIDAY HOME") can be programmed by setting the relative function on "ON/OFF" from the starting time to the end time.

6.5 OPTIONS.

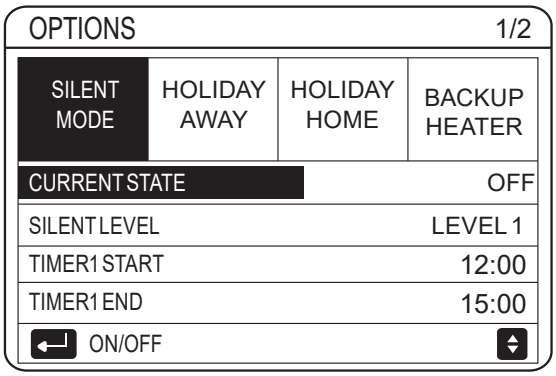
The "OPTIONS" menu contains the following items:
- SILENT MODE;
- HOLIDAY AWAY;
- HOLIDAY HOME;
- BACKUP HEATER.

SILENT MODE

"SILENT MODE" allows you reduce the noise level of the unit. However this also reduces the heating/cooling capacity of the system.
Silent mode has two levels.
Level 2 is quieter than level 1 and also has a lower heating or cooling capacity.
There are two ways to use the Silent mode:

1. Silent mode the whole time;
2. Silent mode based on timer.

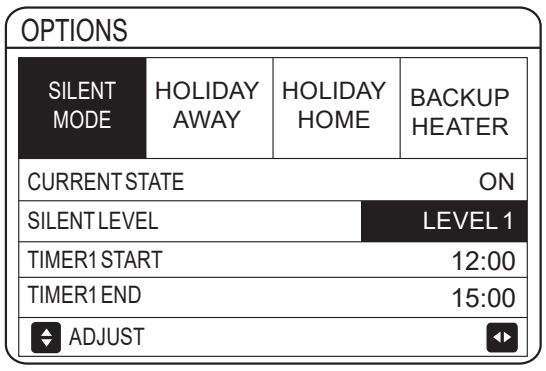
- Go to the home page to check whether Silent mode is on. If silent mode is activated, "" will be enabled on the home page.
- Go to "" > "OPTIONS" > "SILENT MODE". Press "". The following page is displayed:



71

Use to select activated (ON) or deactivated (OFF).
Description: if "CURRENT STATE" is set at "OFF", "SILENT MODE" is not valid.
Selecting "SILENT LEVEL" and pressing "" or "" displays the following page:

LEVEL 1



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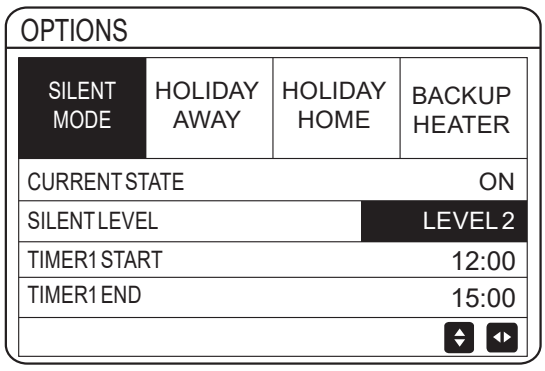
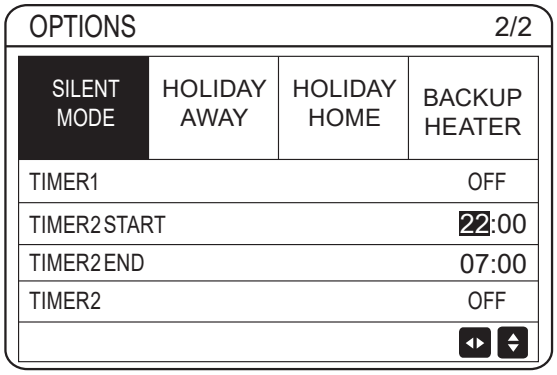
LEVEL 2



73

You can use "" and "" to select level 1 or level 2. Press "".

If the silent "TIMER" is selected, press "↵" to enter. The following page is displayed:



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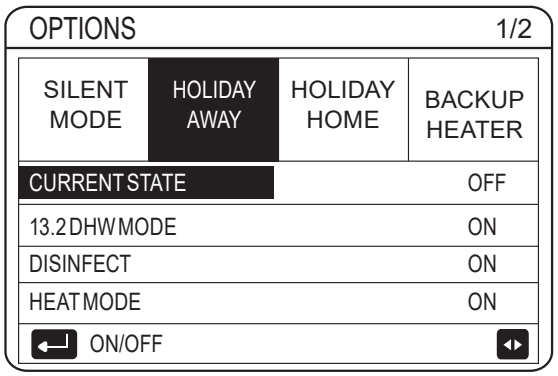
It is possible to set two timers. Move to "■", press "↵" to select or unselect.
If both timers are unselected, the Silent mode will remain active. Otherwise operation will be time-controlled.

HOLIDAY AWAY.

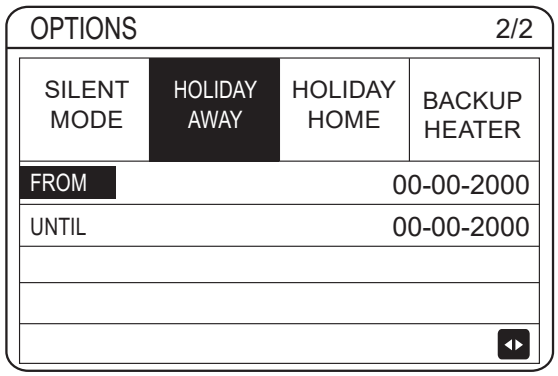
- If the "HOLIDAY AWAY" mode is on, is displayed on the home page.

The "HOLIDAY AWAY" function prevents the system from freezing during winter when away on vacation and reactivates the unit before the end of holidays.

Go to "☰" > "OPTIONS" > "HOLIDAY AWAY". Press "↵". The following page is displayed:



75



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For example: you leave during winter. Today is 31/12/2018 and holidays start in two days (02/01/2019).

- Let's suppose that you are in this situation: in 2 days you will leave for 2 weeks during winter.
- You want to save energy but without the system freezing.

You can perform the following operations:

1. Configure the holiday away settings below.
2. Activate Holiday mode.

Go to "☰" > "OPTIONS" > "HOLIDAY AWAY". Press "↵".

Use ⏻ to select activated (ON) or deactivated (OFF) and use "◀", "▶", "▼", "▲" to scroll and adjust.

Setting	Value
HOLIDAY AWAY	ON
FROM	2 January 2018
UNTIL	16 January 2018
OPERATE MODE	HEATING
DISINFECT	ON

- If "13.2 DHW MODE" is on in "HOLIDAY AWAY" mode, the disinfection set by the user is not valid.
- If "HOLIDAY AWAY" mode is activated, the timer and weekly programming are not valid.
- If "CURRENT STATE" is deactivated (OFF), "HOLIDAY AWAY" is deactivated (OFF).
- If "CURRENT STATE" is activated (ON), "HOLIDAY AWAY" is activated (ON).
- The unit is disinfected at 23:00 on the last day, if the disinfect function is activated.
- When "HOLIDAY AWAY" mode is active, the previously set climatic curves are not valid and will automatically take effect at the end of the period set for "HOLIDAY AWAY".
- The preset temperature is not valid when "HOLIDAY AWAY" mode is on, but the preset value still appears on the home page.

HOLIDAY HOME.

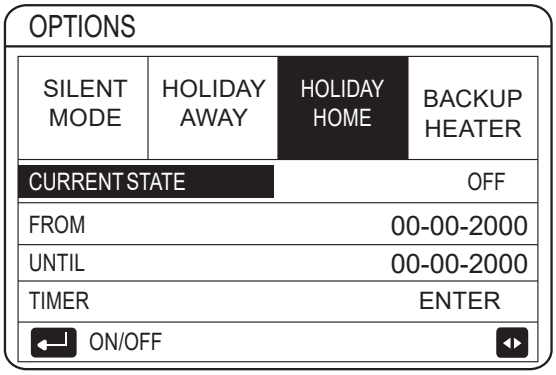
The "HOLIDAY HOME" function allows you to make changes to the normal schedule without needing to adjust them when spending holidays at home.

- During holidays, you may use Holiday mode to make changes to the normal schedules without needing to adjust them.

Period	Schedule
Before and after holidays	Normal schedules are activated
During holidays	The configured holiday settings are activated

If "HOLIDAY HOME" mode is activated, will appear on the home page.

Go to "☰" > "OPTIONS" > "HOLIDAY HOME". Press "↵". The following page is displayed:



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Use "⏻" to select activated (ON) or deactivated (OFF) and use "◀", "▶", "▼", "▲" to scroll and adjust.

If "CURRENT STATE" is deactivated (OFF), "HOLIDAY HOME" is deactivated (OFF).

If "CURRENT STATE" is activated (ON), "HOLIDAY HOME" is activated (ON).

Use "▼" and "▲" to set the date.

- The normal schedule is activated before and after holidays.

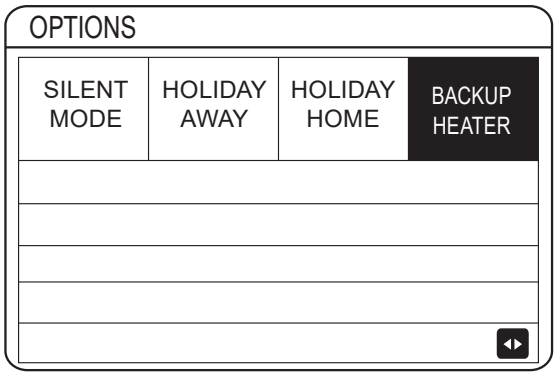
If you change the operation mode of the unit, you must exit "HOLIDAY AWAY" or "HOLIDAY HOME".

BACKUP HEATER

The "BACKUP HEATER" function forces activation of the backup heater. Go to "☰" > "OPTIONS" > "BACKUP HEATER".

Press "↵".

- If the system backup heater (IBH) is not set as valid by the DIP switch on the main board of the hydronic module, the following page is displayed:



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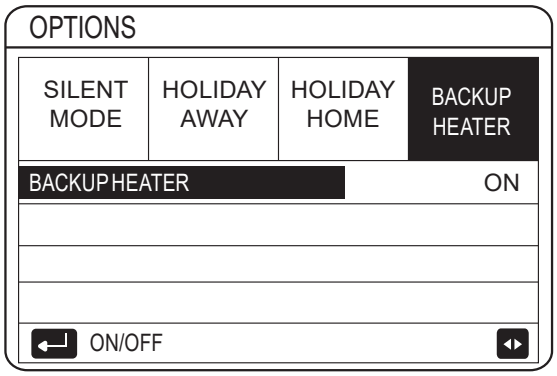
- If the system backup heater (IBH) is set as valid by the DIP switch on the main board of the hydronic module, the following page is displayed:



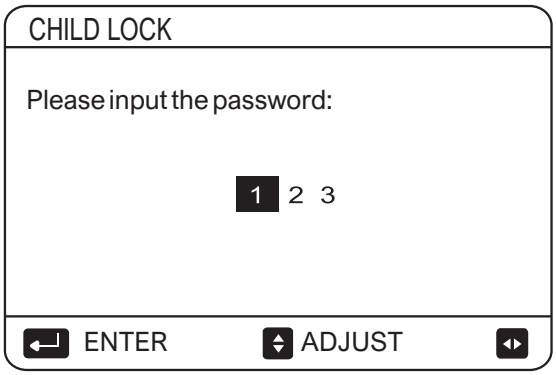
79

Use the ⏻ to select deactivated (OFF) or activated (ON).

- If automatic operation mode is set on the space heating or cooling side, the "BACKUP HEATER" function cannot be selected.
- The "BACKUP HEATER" function is not valid when only "HEAT MODE" is activated.

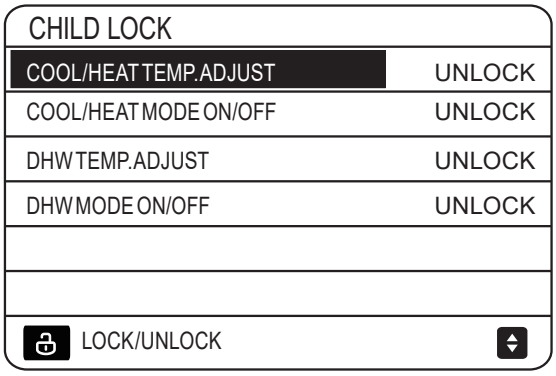
6.6 CHILD LOCK.

The "CHILD LOCK" function allows you to prevent children from improperly using the unit.
Mode settings and temperature adjustments can be locked or unlocked by means of the "CHILD LOCK" function.
Go to "☰" > "CHILD LOCK". The following page is displayed:



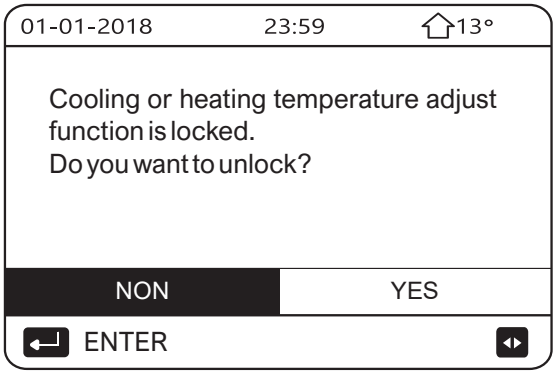
80

Entering the current password will display the following page:



81

Use "▼" and "▲" to scroll and ⏻ to select LOCK or UNLOCK (LOCK/UNLOCK).
The cooling/heating temperature cannot be adjusted when the "COOL/HEAT TEMP.ADJUST" function is locked.
If you wish to adjust the cooling/heating temperature when locked, the following page will appear:



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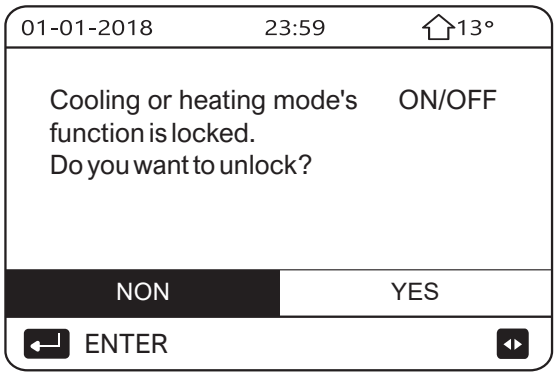
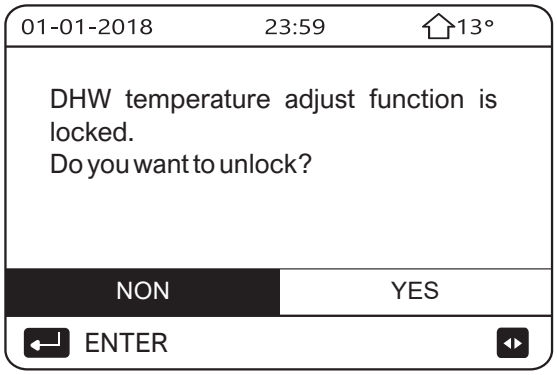
The cooling/heating temperature cannot be adjusted when the "COOL/HEAT MODE ON/OFF" function is locked.
If you wish to adjust the "COOL/HEAT MODE ON/OFF" temperature when locked, the following page will appear:



83

It is not possible to adjust the "DHW" temperature when the "DHW TEMP.ADJUST" function is locked.
If you try to adjust the "DHW" temperature when the "DHW TEMP.ADJUST" function is locked, the following page will appear:



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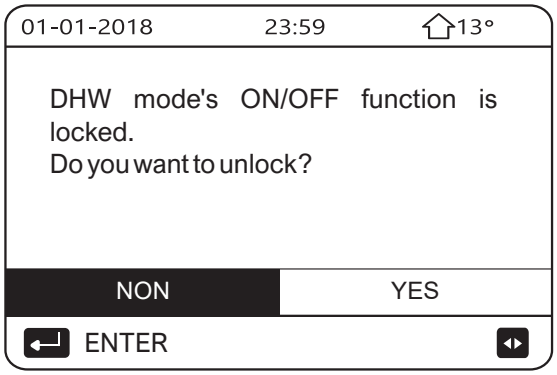
The "DHW" mode cannot be activated or deactivated when the "DHW MODE ON/OFF" function is locked.
If you try to activate or deactivate "DHW" when the "DHW MODE ON/OFF" function is locked, the following page will appear:



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6.7 TECHNICAL INFORMATION.

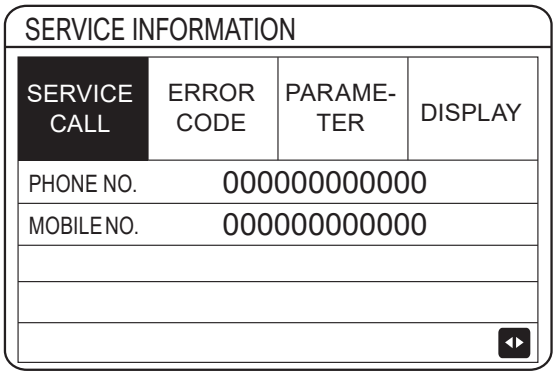
SERVICE INFORMATION

The "SERVICE INFORMATION" menu contains the following items:
- SERVICE CALL;
- ERROR CODE;
- PARAMETER;
- DISPLAY.

How to access the "SERVICE INFORMATION" menus.

- Go to "☰" > "SERVICE CALL".
- Press "↵". The following page is displayed:

The service call can contain a phone number or mobile number.
The installer can enter the phone number. See Paragraph 6.9 "For Serviceman.".



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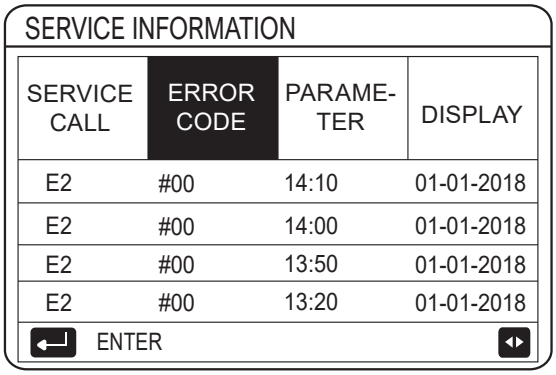
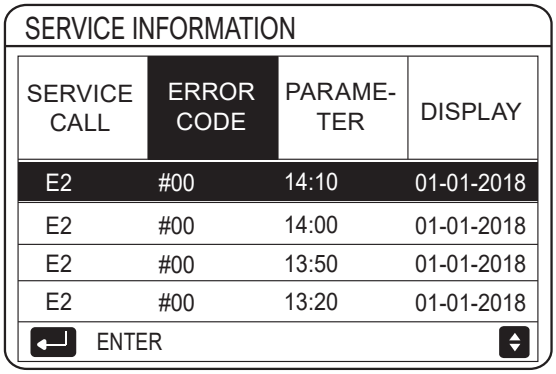
The "ERROR CODE" menu indicates when a fault or problem occurs and shows the meaning of the error code.



87

Press ↵. The following page is displayed:



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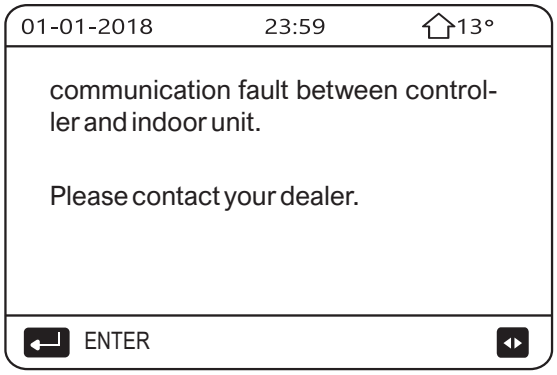
Press ↵ to show the meaning of the error code:



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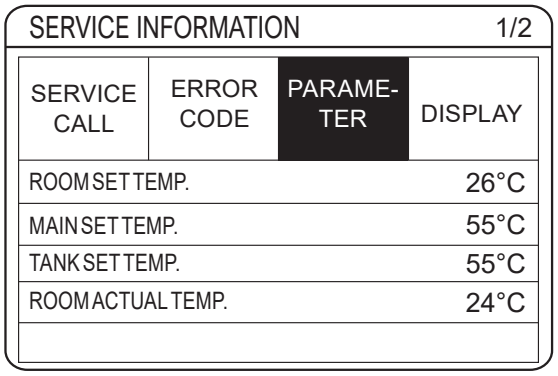
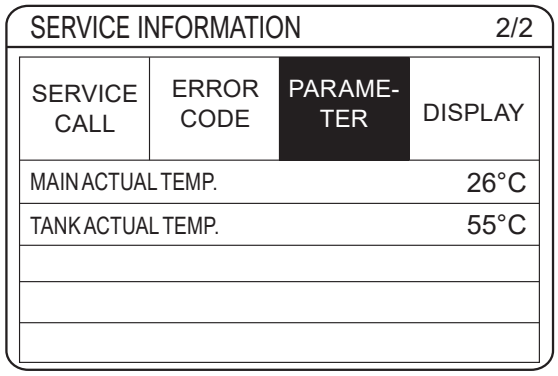
A maximum of eight error codes can be recorded.

The "PARAMETER" function is used to display the main parameters. There are two parameter pages available:



90



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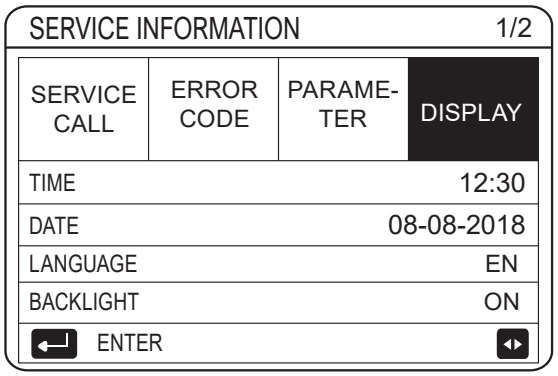
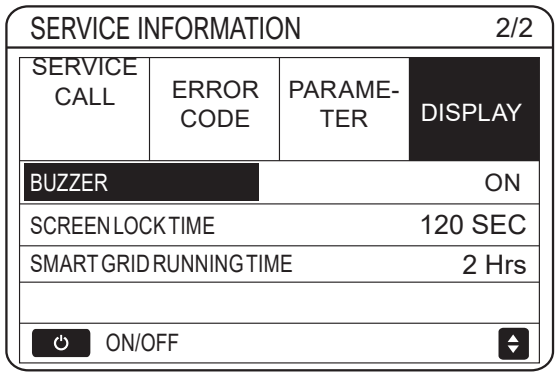
The "DISPLAY" function is used to set the control panel:



92



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

6.8 OPERATION PARAMETERS.

This manual is intended for the installer or service engineer controlling the operating parameters.

- On the home page, go to "☰" > "OPERATION PARAMETER".
- Press "↵". There are six pages for the operation parameters. Use "▼" and "▲" to scroll.

OPERATION PARAMETER	#00
ONLINE UNITS NUMBER	1
OPERATE MODE	COOLING
SV1 STATE	ON
SV2 STATE	OFF
SV3 STATE	OFF
PUMP_I	NON
ADDRESS	1/9

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OPERATION PARAMETER	#00
PUMP_O	OFF
PUMP_C	OFF
PUMP_S	OFF
PUMP_D	OFF
PIPE BACKUP HEATER	OFF
TANK BACKUP HEATER	ON
ADDRESS	2/9

95

OPERATION PARAMETER	#00
GAS BOILER	OFF
T1 LEAVING WATER TEMP.	35°C
WATER FLOW	1,72m³/h
HEAT PUMP CAPACITY	11,52kW
CONSUMPTION	1000kWh
Ta ROOM TEMP.	25°C
ADDRESS	3/9

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OPERATION PARAMETER	#00
T5S_H.A_DHW	53°C
Tw2 CIRCUIT2 WATER TEMP.	35°C
T1S' C1 CLI. CURVE TEMP.	35°C
T1S2' C2 CLI. CURVE TEMP.	35°C
TW_O PLATE W-OUTLET TEMP.	35°C
TW_I PLATE W-INLET TEMP.	30°C
ADDRESS	4/9

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OPERATION PARAMETER	#00
Tbt1 BUFFERTANK_UP TEMP.	35°C
Tbt_2 BUFFERTANK_LOW TEMP.	35°C
Tsolar	25°C
IDU SOFTWARE	01-09-2019V01
ADDRESS	5/9

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OPERATION PARAMETER	#00
ODU MODEL	6kW
COMP. CURRENT	12A
COMP. FREQUENCY	24Hz
COMP.RUN TIME	54 MIN
COMP.TOTAL RUN TIME	1000Hrs
EXPANSION VALVE	200P
ADDRESS	6/9

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OPERATION PARAMETER	#00
FAN SPEED	600 R/MIN
IDU TARGET FREQUENCY	46Hz
FREQUENCY LIMITED TYPE	5
SUPPLY VOLTAGE	230V
DC GENERATRIX VOLTAGE	420V
DC GENERATRIX CURRENT	18A
ADDRESS	7/9

100

OPERATION PARAMETER	#00
TW_O PLATE W-OUTLET TEMP.	35°C
TW_I PLATE W-INLET TEMP.	30°C
T2 PLATE F-OUT TEMP.	35°C
T2B PLATE F-IN TEMP.	35°C
Th COMP.SUCTION TEMP.	5°C
Tp COMP.DISCHARGE TEMP.	75°C
ADDRESS	8/9

101

OPERATION PARAMETER	#00
T3 OUTDOOR EXCHANGE TEMP.	5°C
T4 OUTDOOR AIR TEMP.	5°C
TF MODULE TEMP.	55°C
P1 COMP. PRESSURE	2300kPa
ODU SOFTWARE	01-09-2018V01
HMI SOFTWARE	01-09-2018V01
ADDRESS	9/9

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Entering the power consumption parameter is optional.
Parameters not activated in the system are marked "--".
The heat pump capacity is only indicated as a reference and must not be used to assess the efficiency of the unit.
Sensor accuracy is ± 1°C.
The flow rate parameters are calculated based on the operation parameters of the pump (only for 4-16 kW units).
The deviation changes depending on the flow rates.
The maximum deviation is 15%.

6.9 FOR SERVICEMAN.

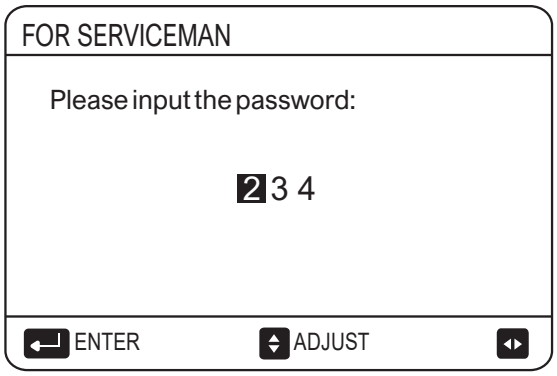
Information on "FOR SERVICEMAN" menu.

The "FOR SERVICEMAN" menu is intended for the installer and service engineer.

- Setting the functions of the appliance.
- Setting the parameters.

How to access the "FOR SERVICEMAN" menu.

Go to "☰" > "FOR SERVICEMAN". Press "↵".



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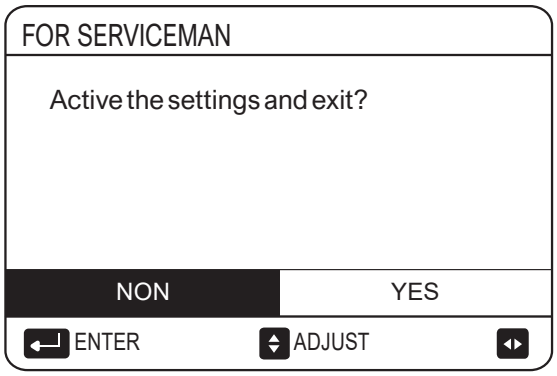
- The "FOR SERVICEMAN" menu is intended for the installer or service engineer. Domestic users must NOT modify the settings through this menu.
- This is why it is protected by password to prevent unauthorised persons from having access to the service settings.
- The password is 234.

How to exit the "FOR SERVICEMAN" menu.

If all the parameters have been set, press "↩". The following page is displayed:



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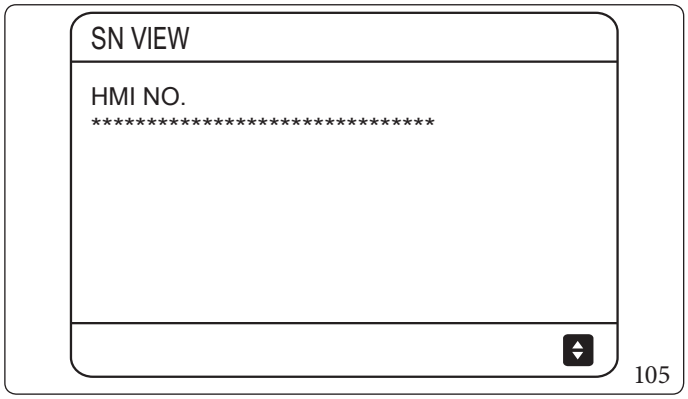
Select "YES" and the press ↵ to exit the "FOR SERVICEMAN" menu.
After you have exited the menu, the unit shuts down.

6.10 SHOWS SN



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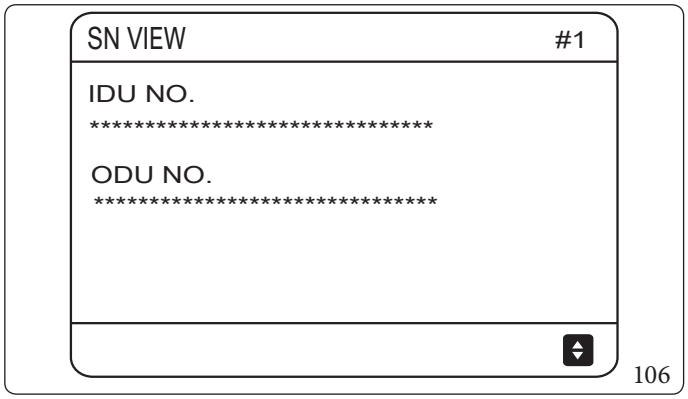

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7 MENU STRUCTURE: OVERVIEW.

MAIN MENU
OPERATE MODE
PRESET TEMPERATURE
DOMESTIC HOT WATER(DHW)
SCHEDULE
OPTIONS
CHILD LOCK
SERVICE INFORMATION
OPERATION PARAMETER
FOR SERVICEMAN
WLAN SETTING (*)
SN VIEW
ENERGY METERING

(*) = Application not available.

OPERATE MODE	HEATING
	COOLING
	AUTO

PRESET TEMPERATURE	PRESET TEMP.
	WEATHER TEMP.SET
	WEATHER TEMP.SET

DOMESTIC HOT WATER(DHW)	DISINFECT	CURRENT STATE
	DISINFECT	OPERATE DAY
	DISINFECT	START
	FAST DHW	
	TANK HEATER	
	DHW PUMP	

SCHEDULE	TIMER
	WEEKLY SCHEDULE
	SCHEDULE CHECK
	CANCEL TIMER

OPTIONS	SILENT MODE	CURRENT STATE
		SILENT LEVEL
		TIMER1 START
		TIMER1 END
		TIMER1
		TIMER2 START
		TIMER2 END
		TIMER2
	HOLIDAY AWAY	CURRENT STATE
		13.2 DHW MODE
		DISINFECT
		HEAT MODE
		FROM
		UNTIL
	HOLIDAY HOME	CURRENT STATE
		FROM
		UNTIL
		TIMER
	BACKUP HEATER	

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

SERVICE INFORMATION	SERVICE CALL	
	ERROR CODE	
	PARAMETER	ROOM SET TEMP.
		MAIN SET TEMP.
		TANK SET TEMP.
		ROOM ACTUAL TEMP.
		MAIN ACTUAL TEMP.
		TANK ACTUAL TEMP.
	DISPLAY	TIME
		DATE
		LANGUAGE
		BACKLIGHT
		BUZZER
		SCREEN LOCK TIME
		SMART GRID RUNNING TIME

OPERATION PARAMETER	OPERATION PARAMETER

FOR SERVICEMAN	1. DHW MODE SETTING
	2.COOL MODE SETTING
	3. HEAT MODE SETTING
	4. AUTO MODE SETTING
	5. TEMP. TYPE SETTING
	6. ROOM THERMOSTAT
	7. OTHER HEATING SOURCE
	8.HOLIDAY AWAY SETTING
	9. SERVICE CALL
	10. RESTORE FACTORY SETTINGS
	11. TEST RUN
	12. SPECIAL FUNCTION
	13. AUTO RESTART
	14. POWER INPUT LIMITATION
	15. INPUT DEFINE
	16.CASCADE SET
	17.HMI ADDRESS SET

WLAN SETTING (*)	Not Used

(*) = Application not available.

SN VIEW	HMI NO.
	IDU NO.
	ODU NO.

ENERGY METERING	HEATING
	COOLING
	DHW

For Serviceman Menu Overview.

FOR SERVICEMAN	
1. DHW MODE SETTING	1.1 DHW MODE
	1.2 DISINFECT
	1.3 DHW PRIORITY
	1.4 PUMP_D
	1.5 DHW PRIORITY TIME SET
	1.6 dT5_ON
	1.7 dT1S5
	1.8 T4DHWMAX
	1.9 T4DHWMIN
	1.10 t_INTERVAL_DHW
	1.11 dT5_TBH_OFF
	1.12 T4_TBH_ON
	1.13 t_TBH_DELAY
	1.14 T5S_DISINFECT
	1.15 t_DI_HIGHTEMP
	1.16 t_DI_MAX
	1.17 t_DHWHP_RESTRICT
	1.18 t_DHWHP_MAX
	1.19 PUMP_D TIMER
	1.20 PUMP_D RUNNING TIME
	1.21 PUMP_D DISINFECT RUN

FOR SERVICEMAN	
2.COOL MODE SETTING	2.1 COOL MODE
	2.2 t_T4_FRESH_C
	2.3 T4CMAX
	2.4 T4CMIN
	2.5 dT1SC
	2.6 dTSC
	2.7 t_INTERVAL_C
	2.8 T1SetC1
	2.9 T1SetC2
	2.10 T4C1
	2.11 T4C2
	2.12 ZONE1 C-EMISSION
	2.13 ZONE2 C-EMISSION

FOR SERVICEMAN	
3. HEAT MODE SETTING	3.1 HEAT MODE
	3.2 t_T4_FRESH_H
	3.3 T4HMAX
	3.4 T4HMIN
	3.5 dT1SH
	3.6 dTSH
	3.7 t_INTERVAL_H
	3.8 T1SetH1
	3.9 T1SetH2
	3.10 T4H1
	3.11 T4H2
	3.12 ZONE1 H-EMISSION
	3.13 ZONE2 H-EMISSION
	3.14 t_DELAY_PUMP

FOR SERVICEMAN	
4. AUTO MODE SETTING	4.1 T4AUTOCMIN
	4.2 T4AUTOHMAX

FOR SERVICEMAN	
5. TEMP. TYPE SETTING	5.1 WATER FLOW TEMP.
	5.2 ROOM TEMP.
	5.3 DOUBLE ZONE
	5.4 ENERGY METERING

FOR SERVICEMAN	
6. ROOM THERMOSTAT	6.1 ROOM THERMOSTAT

FOR SERVICEMAN	
7. OTHER HEATING SOURCE	7.1 dT1_IBH_ON
	7.2 t_IBH_DELAY
	7.3 T4_IBH_ON
	7.4 dT1_AHS_ON (Not Used)
	7.5 t_AHS_DELAY (Not Used)
	7.6 T4_AHS_ON (Not Used)
	7.7 IBH LOCATE
	7.8 P_IBH1
	7.9 P_IBH2 (Not Used)
	7.10 P_TBH

FOR SERVICEMAN	
8.HOLIDAY AWAY SETTING	8.1 T1S_H.A_H
	8.2 T5S_H.A._DHW

FOR SERVICEMAN	
9. SERVICE CALL	PHONE NO.
	MOBILE NO.

FOR SERVICEMAN	
10. RESTORE FACTORY SETTINGS	

FOR SERVICEMAN	
11. TEST RUN	

FOR SERVICEMAN	
12.SPECIAL FUNCTION	

FOR SERVICEMAN	
13. AUTO RESTART	13.1 COOL/HEAT MODE
	13.2 DHW MODE

FOR SERVICEMAN	
14. POWER INPUT LIMITATION	14.1 POWER INPUT LIMITATION

FOR SERVICEMAN	
15. INPUT DEFINE	15.1 M1/M2
	15.2 SMART GRID
	15.3 Tw2
	15.4 Tbt1
	15.5 Tbt2 (Not Used)
	15.6 Ta
	15.7 Ta-adj.
	15.8 SOLAR INPUT
	15.9 F-PIPE LENGTH
	15.10 RT/Ta_PCB
	15.11 PUMP_I SILENT MODE
	15.12 DFT1/DFT2

FOR SERVICEMAN	
16.CASCADE SET	16.1 PER_START
	16.2 TIME_ADJUST
	16.3 ADDRESS RESET

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

Table 1

The room temperature curve of the low temperature setting for heating.

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

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

Table 2

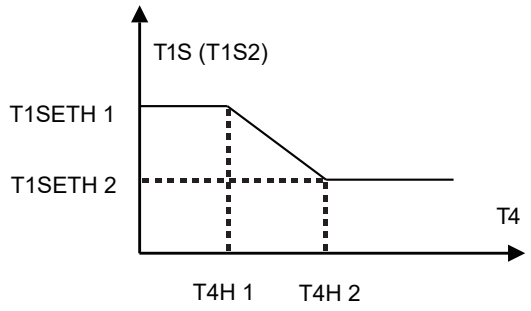
The room temperature curve of the high temperature setting for heating.

T4	≤-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1-T1S	55	55	55	55	54	54	54	54	54	54	54	54	53	53	53	53	53	53	53	53	52
2-T1S	53	53	53	53	52	52	52	52	52	52	52	52	51	51	51	51	51	51	51	51	50
3-T1S	52	52	52	52	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	49
4-T1S	50	50	50	50	49	49	49	49	49	49	49	49	48	48	48	48	48	48	48	48	47
5-T1S	48	48	48	48	47	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	45
6-T1S	45	45	45	45	44	44	44	44	44	44	44	44	43	43	43	43	43	43	43	43	42
7-T1S	43	43	43	43	42	42	42	42	42	42	42	42	41	41	41	41	41	41	41	41	40
8-T1S	40	40	40	40	39	39	39	39	39	39	39	39	38	38	38	38	38	38	38	38	37

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

Automatic central heating setting curve.

The customised setting curve is the ninth; the graph with the parameters to set is displayed below:



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State: in the setting of the control panel, if T4H2<T4H1, exchange their value; if T1SETH1<T1SETH2, exchange their value.

Table 3

The room temperature curve of the low temperature setting for cooling.

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

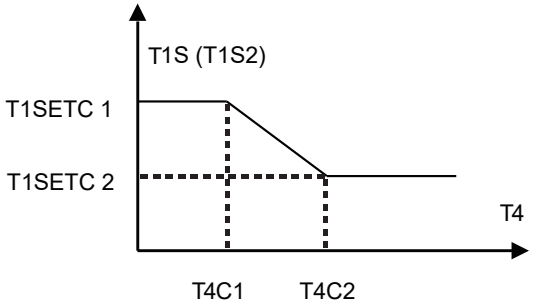
Table 4

The room temperature curve of the high temperature setting for cooling.

T4	-10≤T4≤15	15≤T4≤22	22≤T4≤30	30≤T4
1-T1S	20	18	17	16
2-T1S	21	19	18	17
3-T1S	22	20	19	17
4-T1S	23	21	19	18
5-T1S	24	21	20	18
6-T1S	24	22	20	19
7-T1S	25	22	21	29
8-T1S	25	23	21	20

Automatic cooling setting curve.

The customised setting curve is the ninth; the graph with the parameters to set is displayed below:



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State: in the setting of the control panel, if T4C2<T4C1, exchange their value; if T1SETC1<T1SETC2, exchange their value.

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