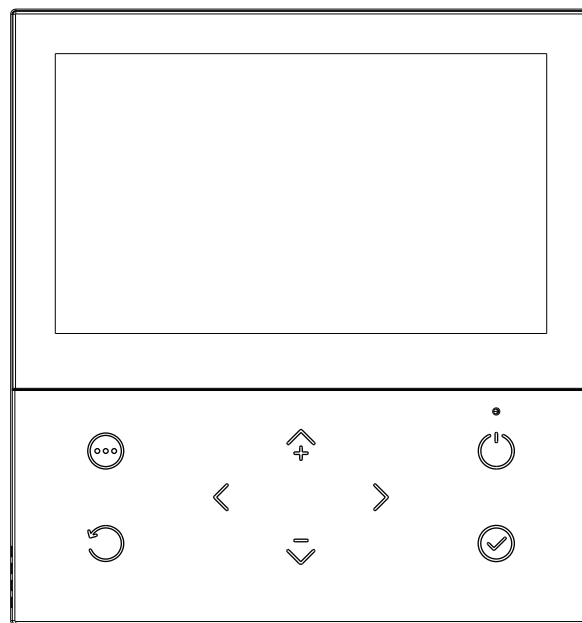
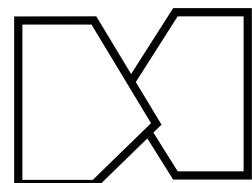


HYUNDAI

OPERATION MANUAL Wired Controller



Thank you very much for purchasing Hyundai product.
Before using the unit, please read this manual carefully and keep it for future reference



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1 SAFETY INSTRUCTION

1.1 About the manual

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 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.

- The unit is marked with the following symbol:

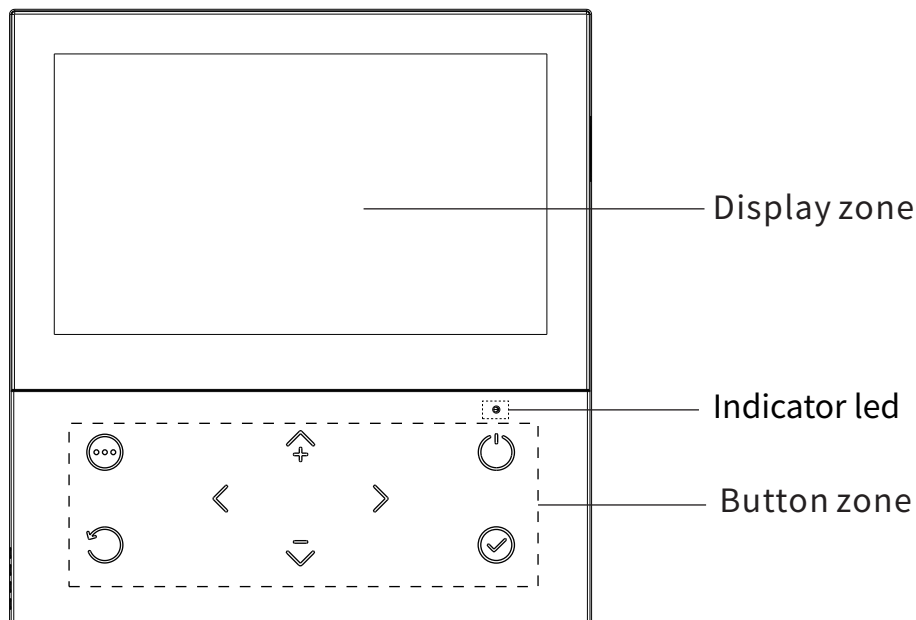


This means that electrical and electronic products cannot be mixed with unsorted household waste. DO NOT try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable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

- Placed in location away from radiation.

2 OVERVIEW OF WIRED CONTROLLER

2.1 The appearance



MENU

Enter the menu structure from the home page.



ON/OFF

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



ARROW

Navigate the cursor on the display; Navigate in the menu structure, Adjust the settings, Flip pages in the menu structure.



BACK

Back to the up level.



ENTER

Go to the next step when programming a schedule in the menu structure, Confirm a selection, Enter a submenu in the menu structure, move to and from between the items in menu when edit the parameters.

• **Indicator led**

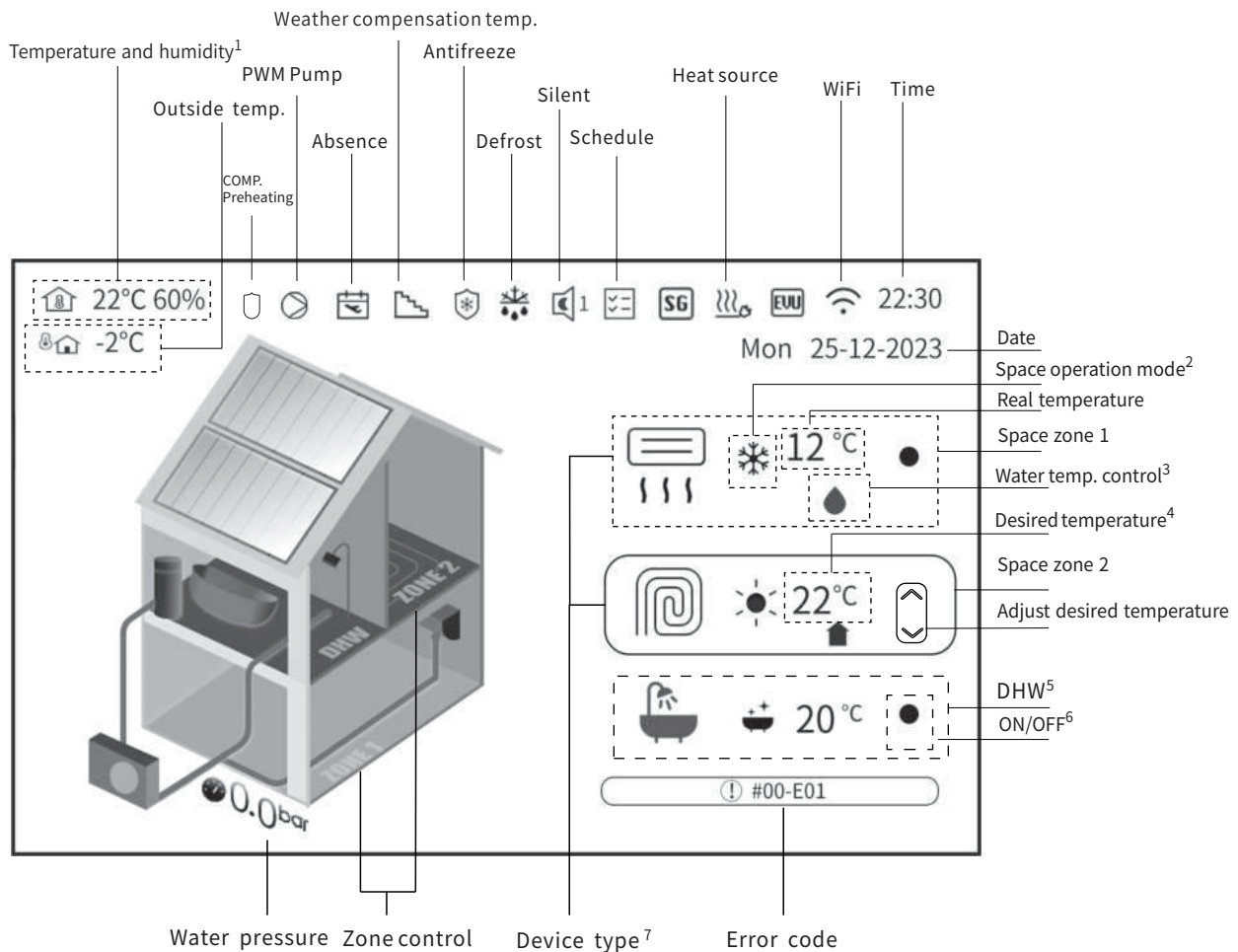
When power supply of the wired controller is on, the led is either always on or flash.












On turning the unit off, the led will be always on.

On turning the unit on, the led flash one time per two seconds.

On updating the software, the led flash fast.

2.2 Status icons



1. Real temperature & humidity of the room where the wired controller is located.
2. Space operation mode: Heating - , Cooling -  and AUTO - .
3. Water drop  means desired temperature is leaving water temperature.
The icon  means desired temperature is the temperature of the room where the wired controller is placed.
4. When the icon  appears, the temperature is desired temperature, otherwise it is real temperature.
5. There is a domestic hot water(DHW) prduction function: DHW - , disinfection - .
6. When turn on heat pump the icon is yellow. when compressor starts up the icon is green.
When turn off heat pump the icon will disappear.
7. There are 3 types of devices: floor loop heater(F LH) - , fan coil unit(FCU) -  and radiator(RAD) - .

Note: An icon is displayed on the screen only when the function associated with it is activated.

The actual order of the icons may be different from the order shown in the image above.

3 HOME PAGES

When power supply of the wired controller is initially on, the screen will appear "Loading..." to initialize the system and then enter home page in a few seconds.

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

- Water flow desired temperature (MAIN)
- Room desired temperature (ROOM)
- DHW tank actual temperature (TANK) (DHW=Domestic Hot Water)

Home page 1

If dip switch SW1-2=OFF (which means DHW mode is valid) and any one of the settings on Table 1 is set, home page 1 will appear:

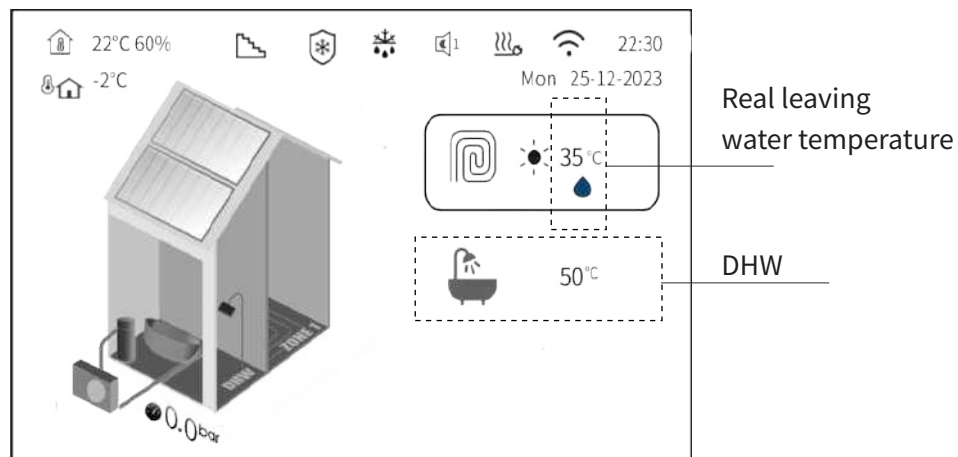


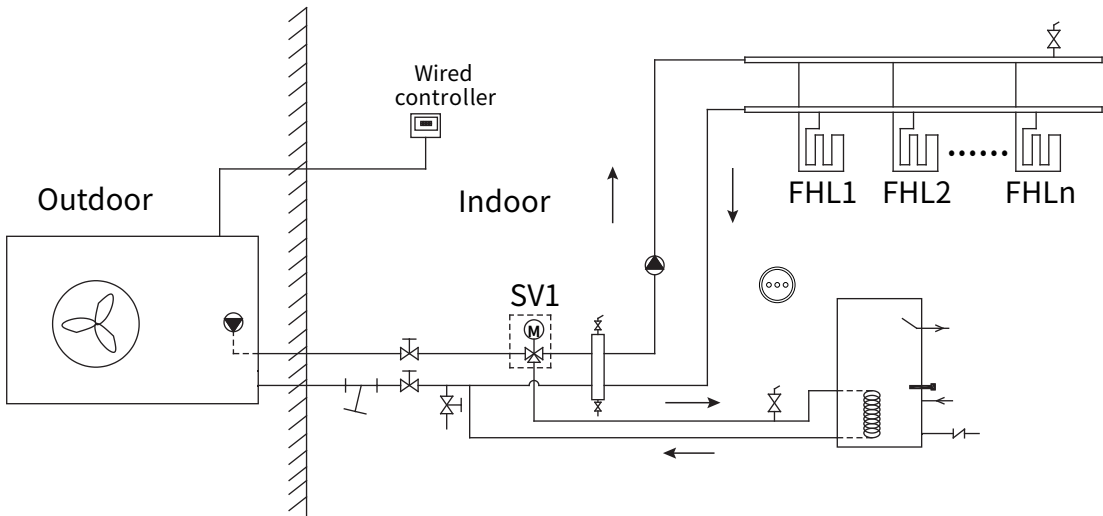
Table 1

No.	System Parameter Setting	Room thermostat	Weather curve temp.
1	ZONE TYPE = 0 and SINGLE ZONE OPERATION SET = 0 and ROOM THERMOSTAT = 0	NON	NON
2	ZONE TYPE = 0 and SINGLE ZONE OPERATION SET = 1 and ROOM THERMOSTAT = 0	NON	YES
3	ROOM THERMOSTAT = 1 and SINGLE ZONE RT OPERATION = 0	YES	NON
4	ROOM THERMOSTAT = 1 and SINGLE ZONE RT OPERATION = 1	YES	YES
5	ROOM THERMOSTAT = 2 and SINGLE ZONE RT OPERATION = 0	YES	NON
6	ROOM THERMOSTAT = 2 and SINGLE ZONE RT OPERATION = 0	YES	YES

The system has only one space operation zone whose desired temperature is leaving water temperature. You can adjust desired temperature by manual or selecting desired weather curve compensation temperature.

Refer to "🔧 > Installer Level > System Parameter > TEMP. TYPE SET and ROOM THERMOSTAT" for the settings in "Installation and owner's manual".

The system has the function including floor heating and domestic hot water:



Home page 2

If dip switch SW1-2=OFF and the settings on Table 2 is set, home page 2 will appear:

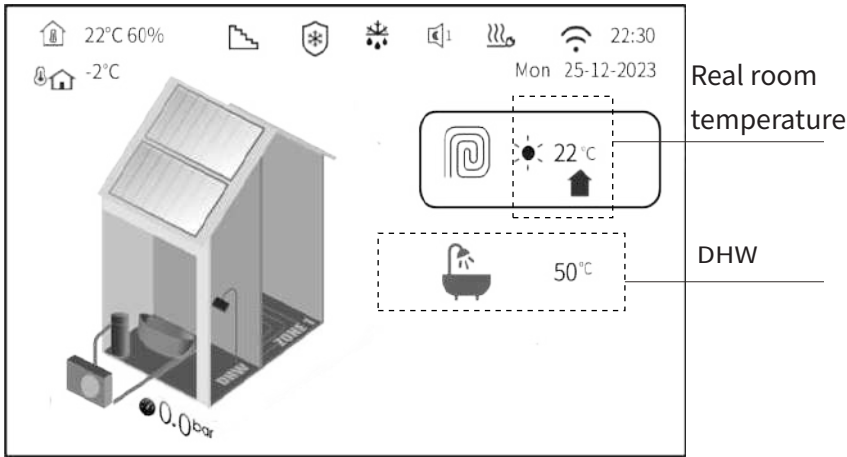


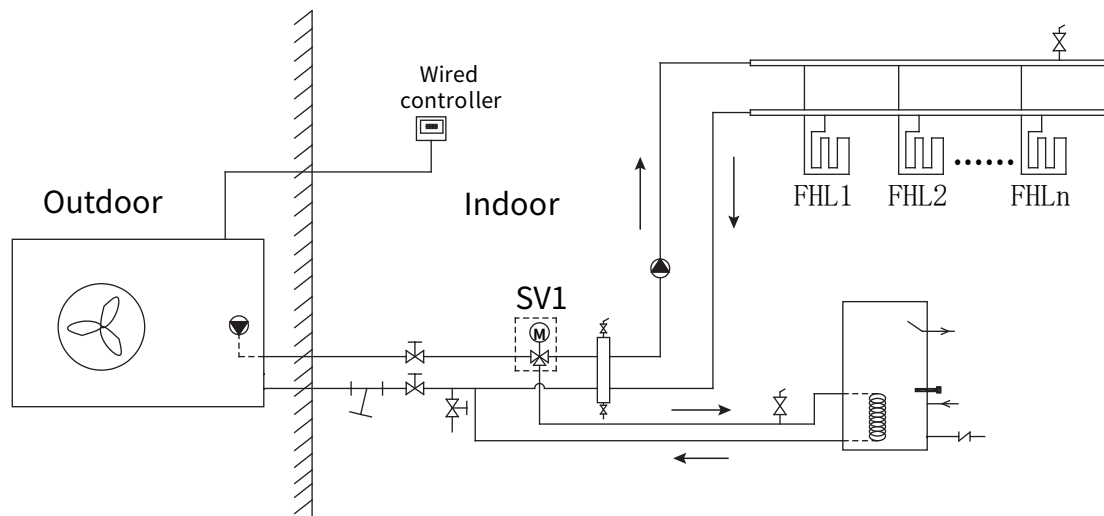
Table 2

No.	System Parameter Setting	Room thermostat	Weather curve temp.
1	ZONE TYPE = 0 and SINGLE ZONE OPERATION SET = 3 and ROOM THERMOSTAT = 0	NON	YES

The system has only one space operation zone whose desired temperature is room temperature detected by the temperature sensor installed on wired controller. You can adjust desired room temperature by manual and select desired weather curve temperature by Table 2. You cannot directly adjust desired leaving water temperature by manual.

Refer to "🔧 > Installer Level > System Parameter > TEMP. TYPE SET and ROOM THERMOSTAT" for the settings in "Installation and owner's manual".

The system has the function including floor heating and domestic hot water:



NOTE:

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

Home page 3

If dip switch SW1-2=OFF and any one of the settings on Table 3 is set, home page 3 will appear:

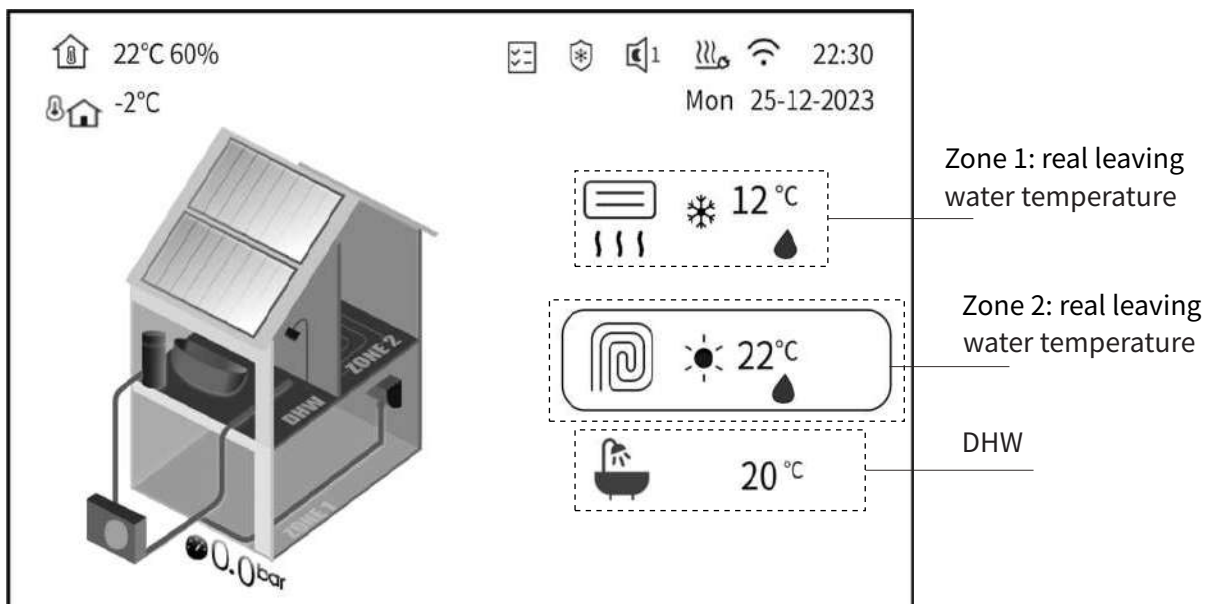


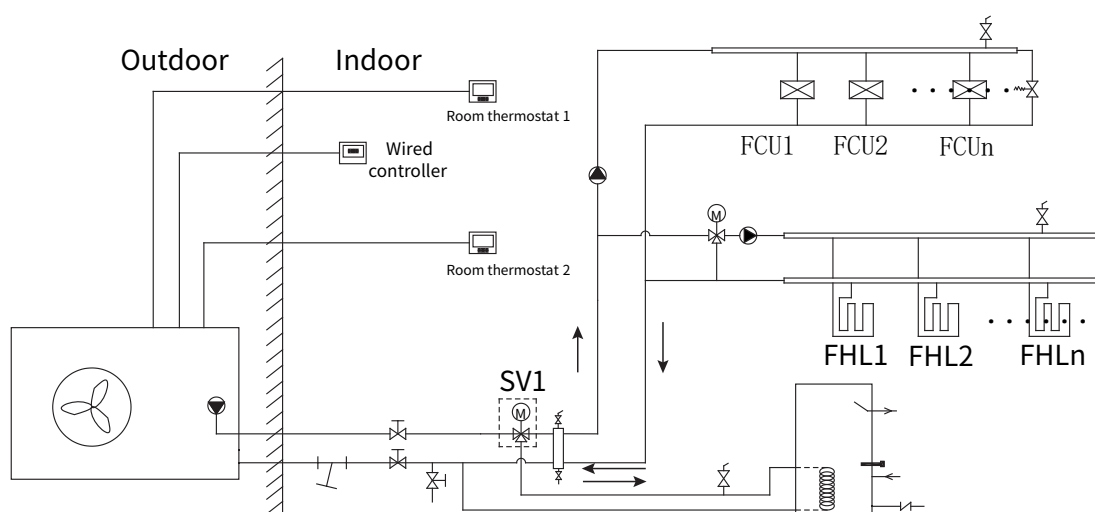
Table 3

No.	System Parameter Setting	Room thermostat	Weather curve temp.	
			Zone 1	Zone 2
1	ROOM THERMOSTAT = 0 and ZONE TYPE = 1 and DULE ZONE OPERATION SET = 0	NON	NON	NON
2	ROOM THERMOSTAT = 0 and ZONE TYPE = 1 and DULE ZONE OPERATION SET = 1	NON	NON	YES
3	ROOM THERMOSTAT = 0 and ZONE TYPE = 1 and DULE ZONE OPERATION SET = 4	NON	YES	NON
4	ROOM THERMOSTAT = 0 and ZONE TYPE = 1 and DULE ZONE OPERATION SET = 5	NON	YES	YES
5	ROOM THERMOSTAT = 3 and DULE ZONE RT OPERATION = 0	YES	NON	NON
6	ROOM THERMOSTAT = 3 and DULE ZONE RT OPERATION = 1	YES	NON	YES
7	ROOM THERMOSTAT = 3 and DULE ZONE RT OPERATION = 2	YES	YES	NON
8	ROOM THERMOSTAT = 3 and DULE ZONE RT OPERATION = 3	YES	YES	YES

The system has two space operation zones whose desired temperature is leaving water temperature not the room temperature. You can adjust desired temperature by manual or selecting desired weather curve compensation temperature by Table 3.

Refer to "☉ > Installer Level > System Parameter > TEMP. TYPE SET and ROOM THERMOSTAT" for the settings in "Installation and owner's manual".

The system has the function including floor heating, space cooling for fan coil and domestic hot water:



Home page 4

If dip switch SW1-2 is set to "ON" and any one of the settings on Table 4 is set, home page 4 will appear:

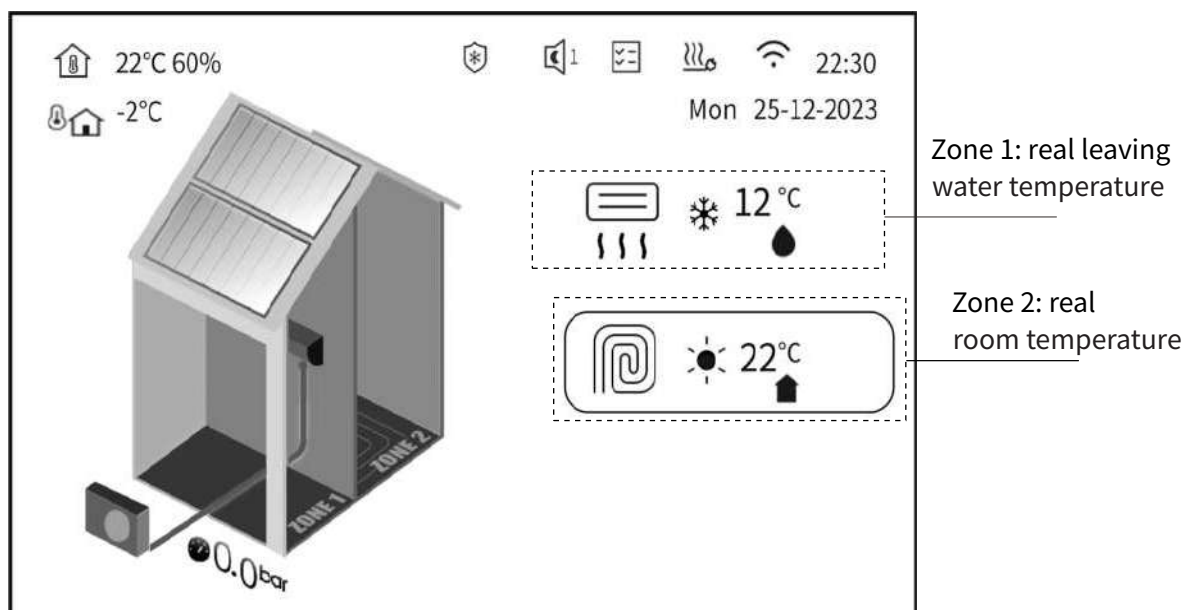


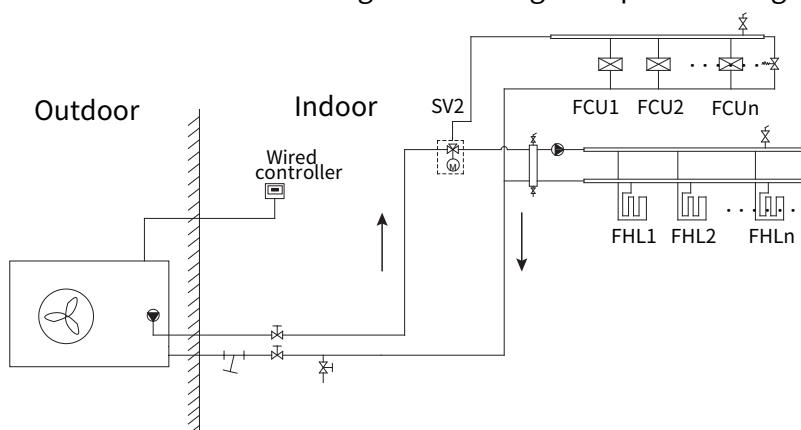
Table 4

No.	System Parameter Setting	Room thermostat	Weather curve temp.	
			Zone 1	Zone 2
1	ROOM THERMOSTAT = 0 and ZONE TYPE = 1 and DULE ZONE OPERATION SET = 3	NON	NON	YES
2	ROOM THERMOSTAT = 0 and ZONE TYPE = 1 and DULE ZONE OPERATION SET = 7	NON	YES	YES

The system has two space operation zones. Desired temperature of Zone 1 is leaving water temperature, and desired temperature of Zone 2 is the room temperature where wired controller is located. You can adjust desired temperature by manual or selecting desired weather curve compensation temperature by Table 4.

Refer to "☉ > Installer Level > System Parameter > TEMP. TYPE SET and ROOM THERMOSTAT" for the settings in "Installation and owner's manual".

The system has the function including floor heating and space heating for fan coil:



NOTE:

1. All the pictures in the manual are only used to explain, the actual pages displayed may have some difference.
2. The software of the wired controller can be upgraded, new version functions may not be described in the manual.

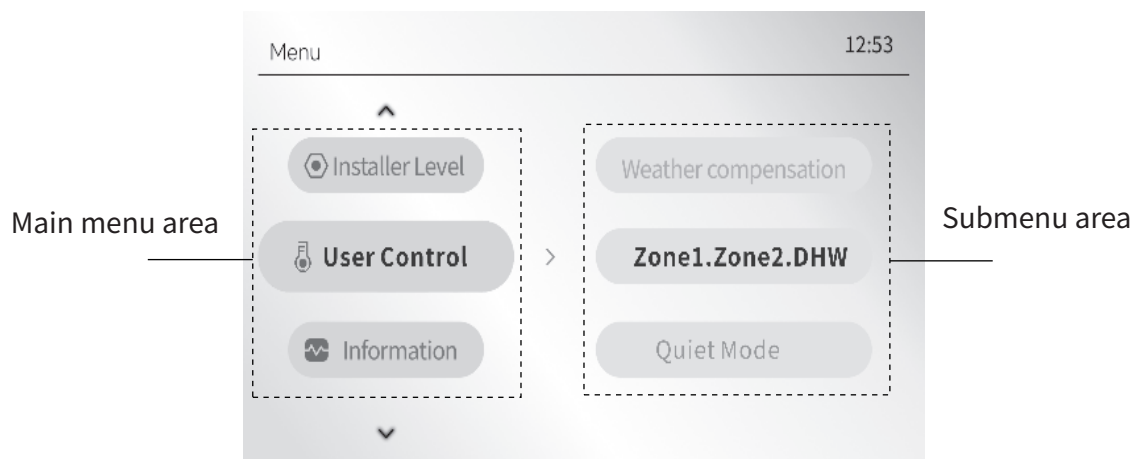
4 MENU STRUCTURE

4.1 About the menu structure

You can use the menu structure to read out and configure settings that are NOT meant for daily usage. What you can see and do in the menu structure is described where applicable.

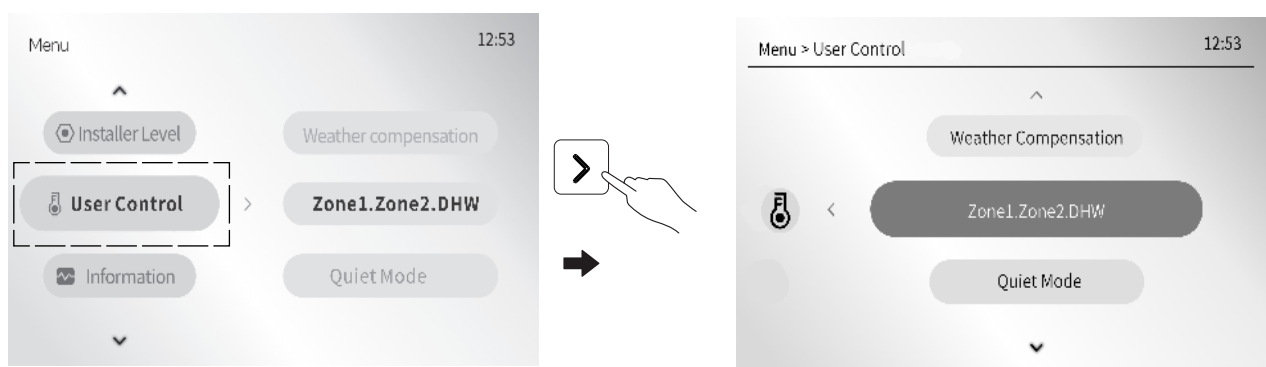
4.2 To go to the menu structure

Press "⊞" on any one page and then go into main menu structure page.

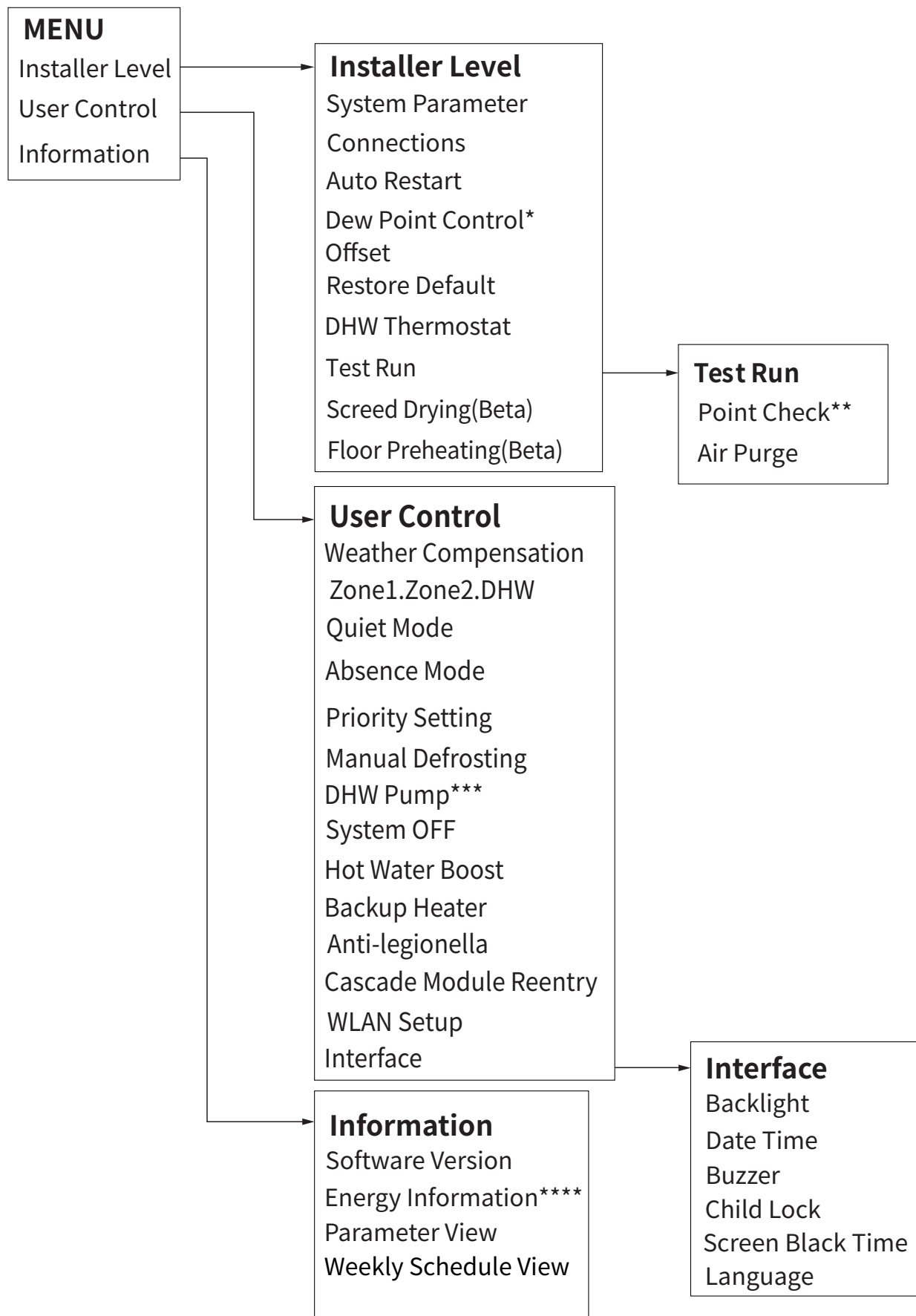


4.3 To navigate in the menu structure

Press "⬆" and "⬆" to select a main menu to be set , and then press" ➤ " to enter its submenu.



4.4 menu structure overview



Note:

*Home page will highlight the text "DP: XX°C" after activation.

** **Point Check*** is available only for R290, not for R32.

*** **DHW Pump** schedule function is available only for R290, not for R32.

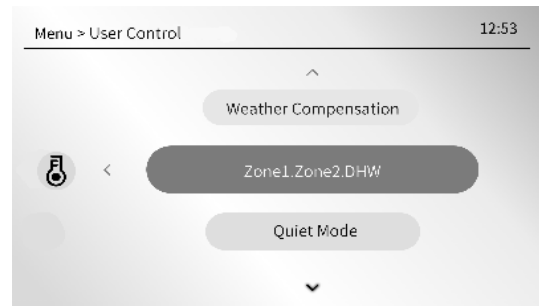
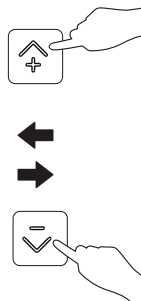
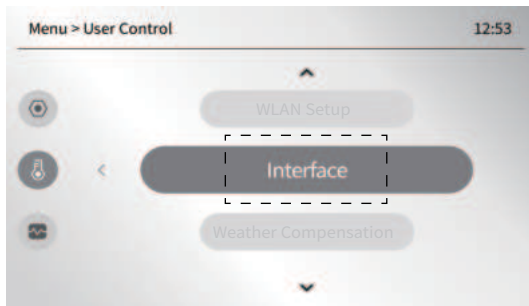
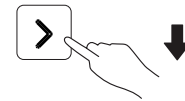
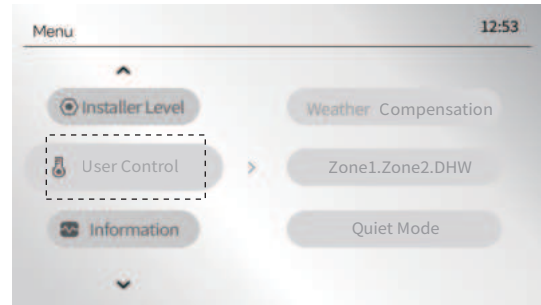
******Energy Information** is optional.

5 BASIC USAGE

5.1 Screen setting

On any one page go to "☰ > User Control > Interface", you can set these function relative to the screen:

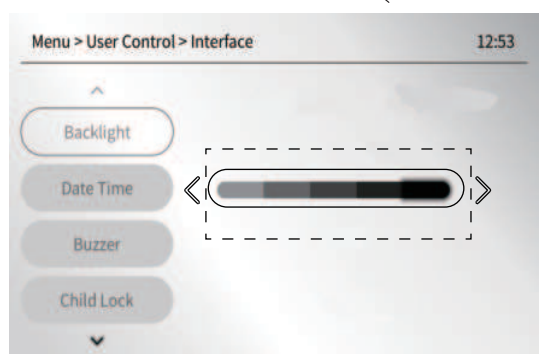
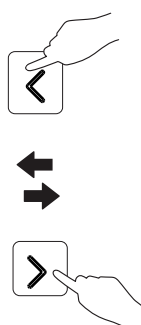
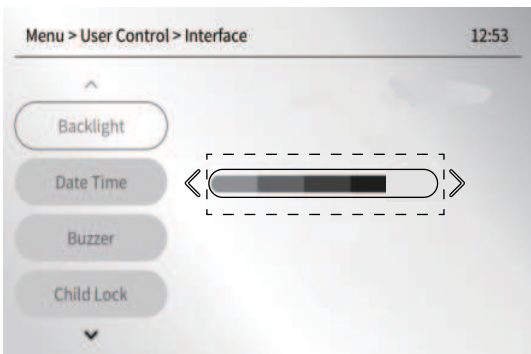
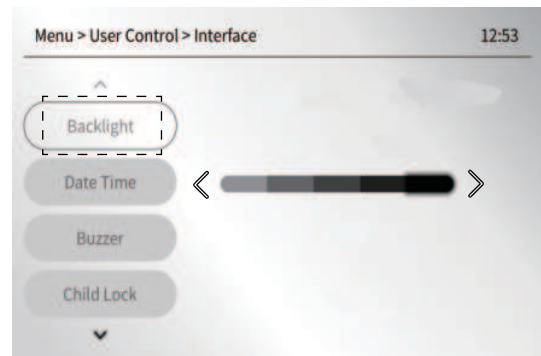
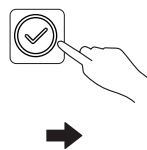
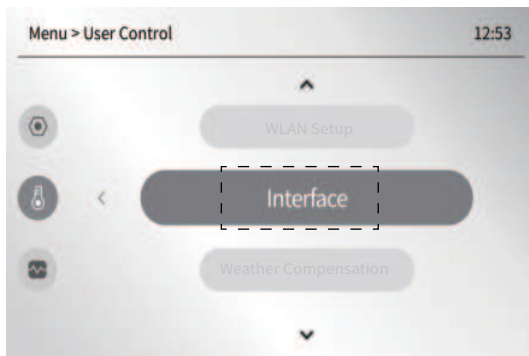
- Backlight
- Date Time
- Buzzer
- Child Lock
- Screen Black Time
- Language



5.1.1 Backlight

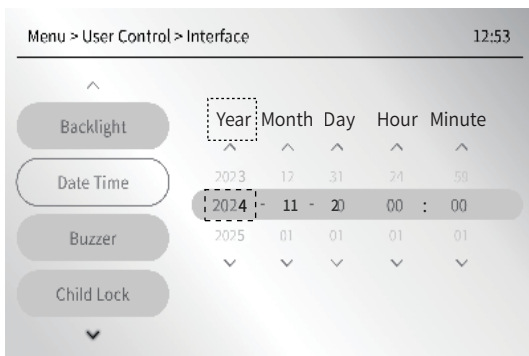
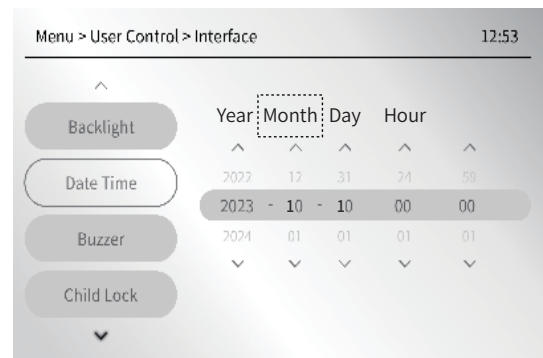
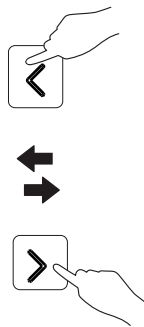
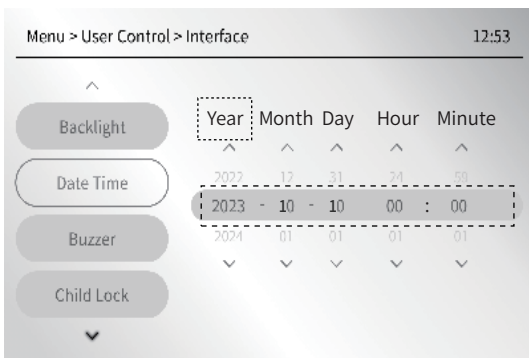
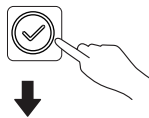
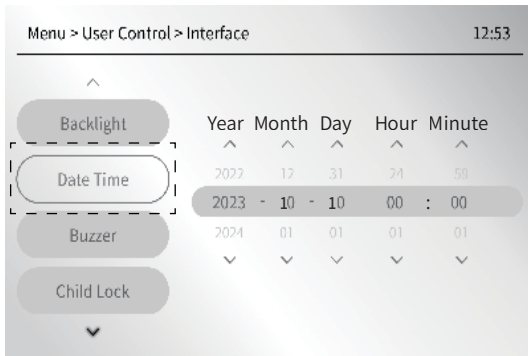
The function is to adjust screen brightness.

On any one page go to "☰ > User Control > Interface > Backlight".



5.1.2 Date Time

Go to "☉ > User Control > Interface > Date Time ", and then press ⓧ, next press ⏪ or ⏩ to select "Year" / "Month" / "Day" / "Hour" / " Minute " to be set, press ⓧ to confirm it again, and then press ⬆ or ⬇ to adjust the date or time.

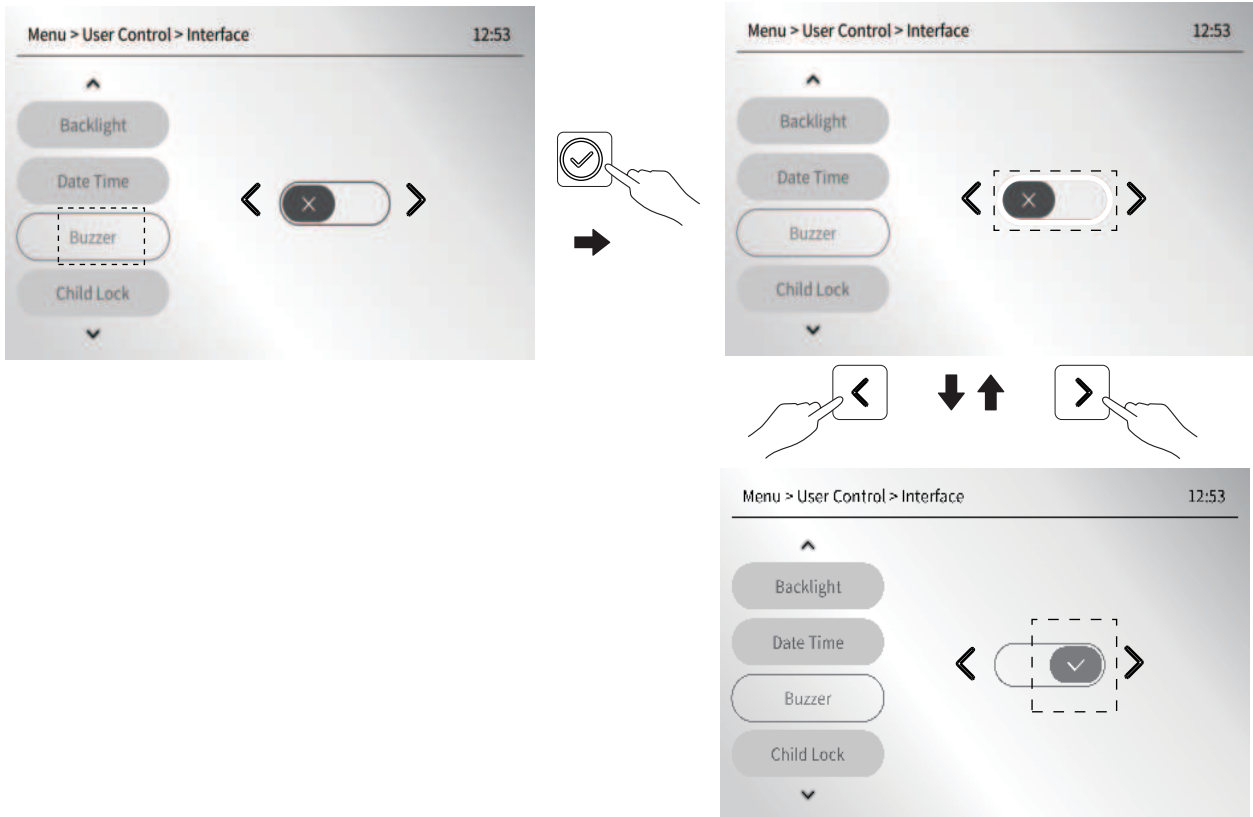


➡ Press confirm button to save time information.

5.1.3 Buzzer


Set whether or not the buzzer sounds when any one button is pressed.

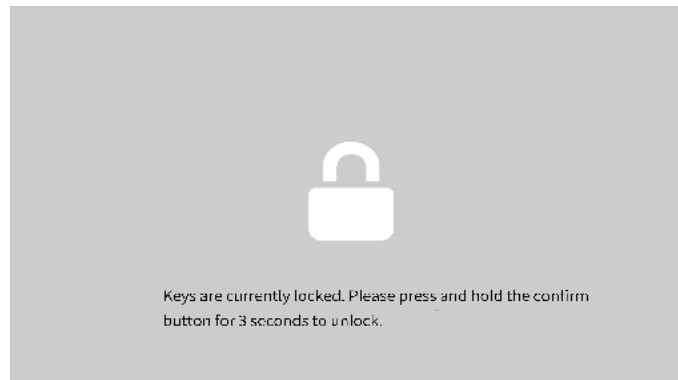
Go to "☉ > User Control > Interface > Buzzer ", and then press ⓧ, next press ⏪ or ⏩ to select ⊗ - silent or ☑ - sound.




5.1.4 Child Lock



"Child Lock" is to set to lock or unlock the screen.

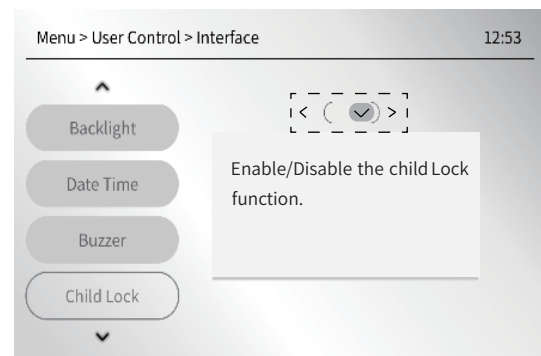
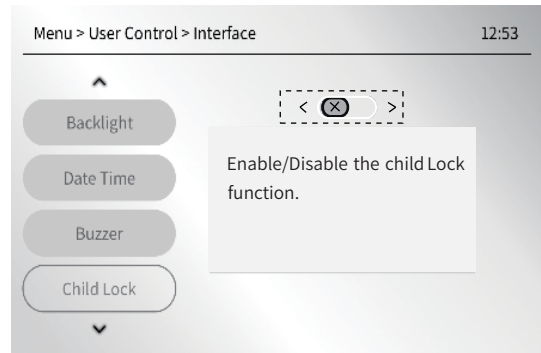
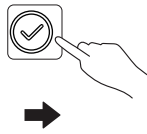
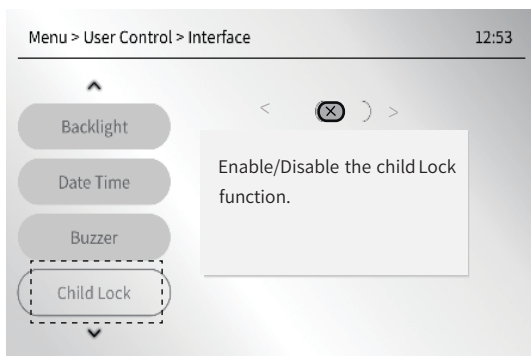
Long Press "  " button for 3 seconds on any one page to lock the screen, and then if press any one button the following screen will appear :



and then the screen will get black in the time "5.1.5 Screen Black Time". After locking the screen, you can only unlock the screen to control the interface again by long-pressing "  " button for 3 seconds.

You can cancel the screen lock function by setting "Child Lock" to  .

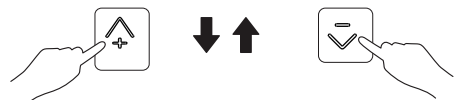
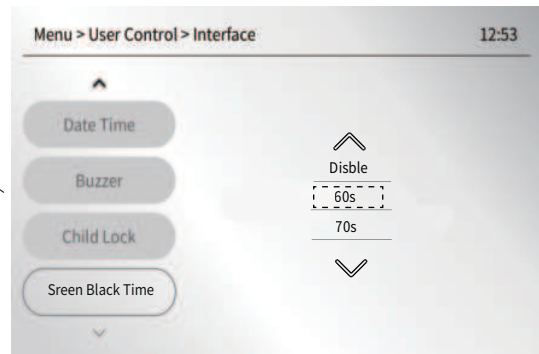
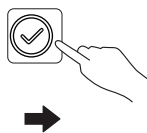
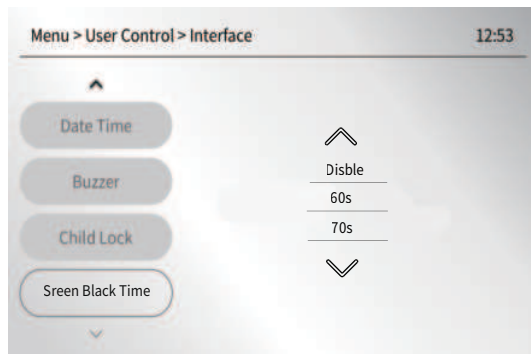
Go to "  > User Control > Interface > Child Lock " , and then press  .



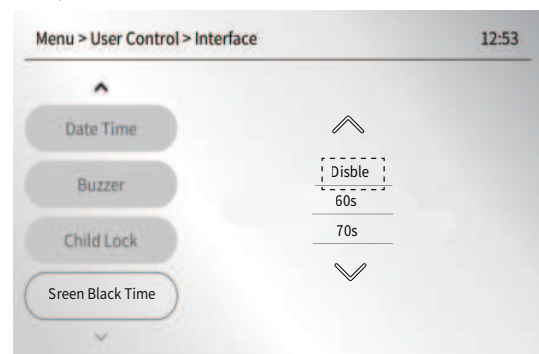
5.1.5 Screen Black Time

The function is to set the time of lighting up the screen. If there is no any handling during the time, the screen will get black with power saving. The default setting is 60 seconds.

Go to "☉☉☉ > User Control > Interface > Screen Black Time, and then press ☑.



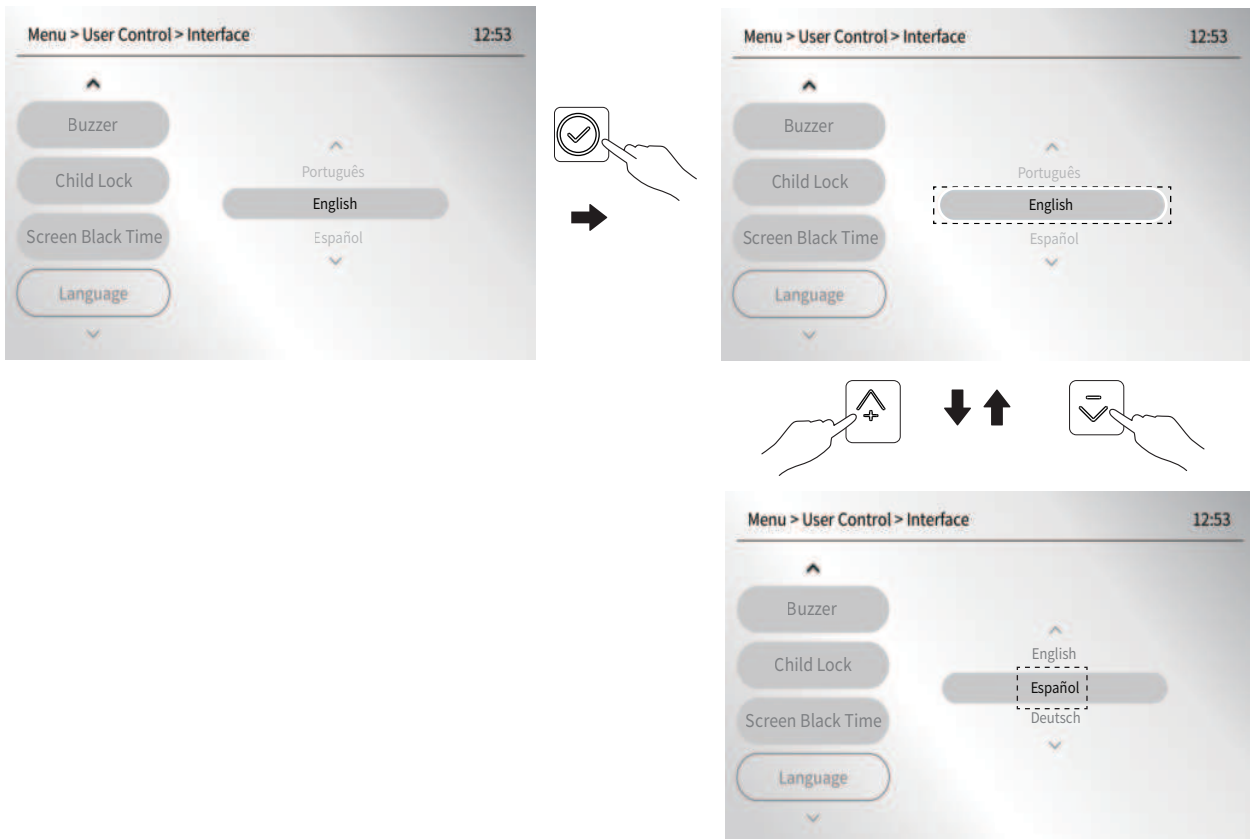
"Disable" means disabling the function of blacking the screen.



5.1.6 Language - Setting the language

The function is to set the desired language. The default is English.

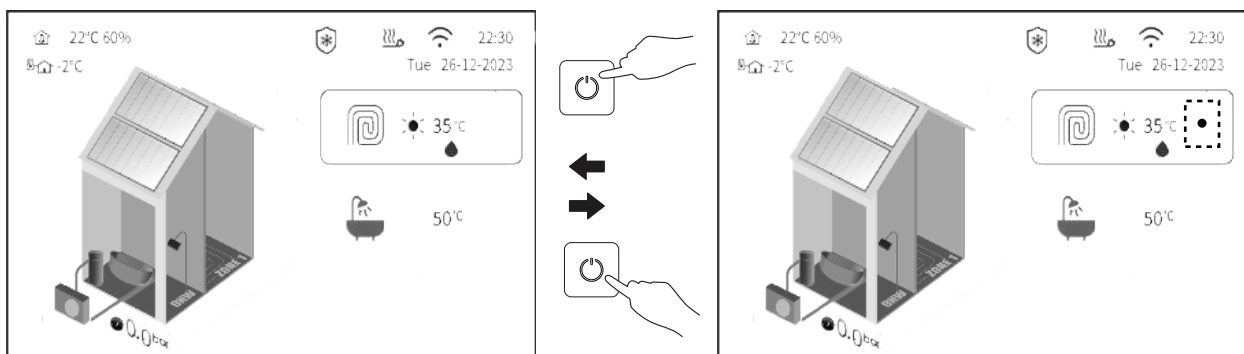
Go to "☉ > User Control > Interface > Chile Lock ", and then press ☑.



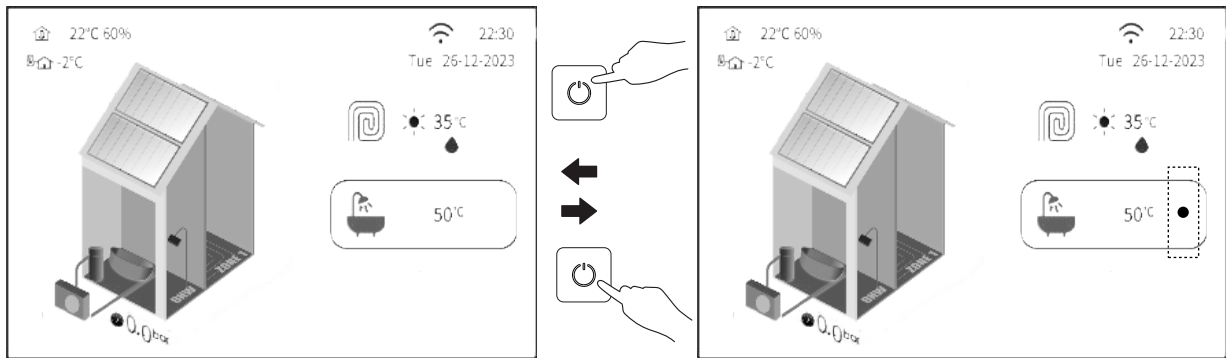
5.2 Turning on/off the unit on home page

- The ON/OFF of the unit can be controlled by the interface if the ROOM THERMOSTAT is NON. (Refer to "☉ > Installer Level > System Parameter > ROOM THERMOSTAT SET" for the settings in "Installation and owner's manual".)
- Press the button "⬆" or "⬇" on home page to move the cursor (blue rectangular box) to a space or DHW operation mode, and then press the button "☑" to turn on or off the mode.

5.2.1 Turn on/off the the space operation (heating or cooling) mode:

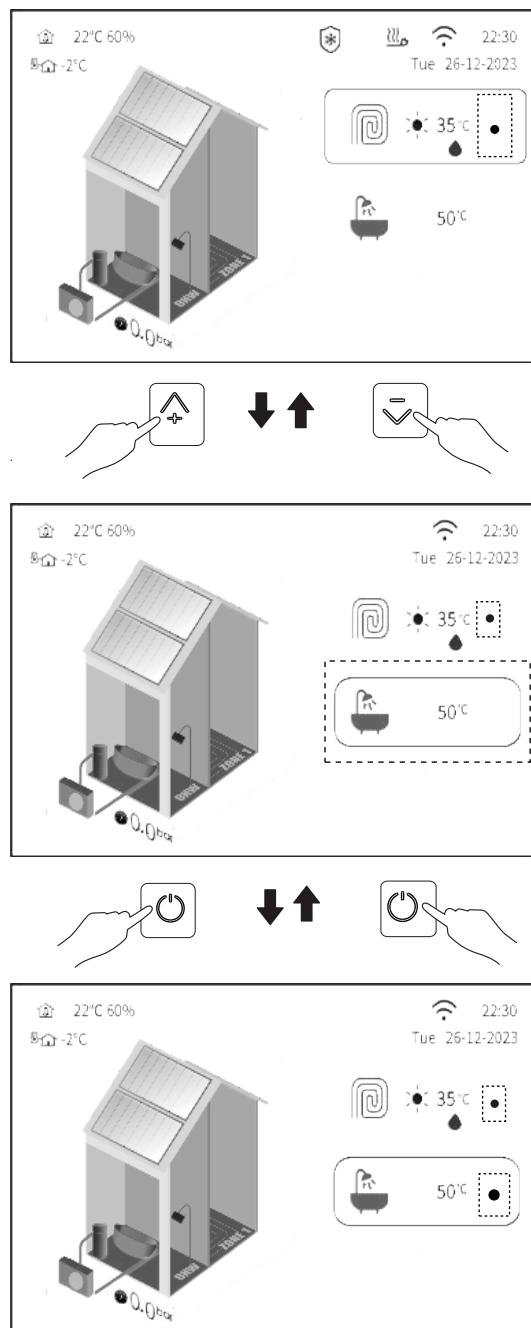


5.2.2 Turn on/off DHW mode:



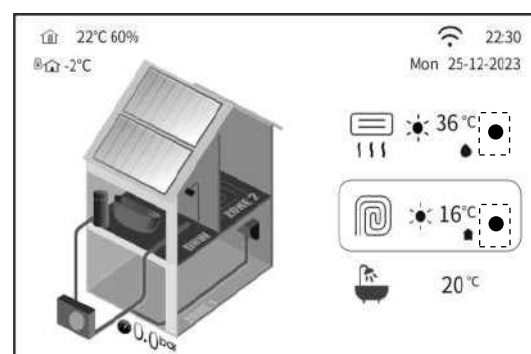
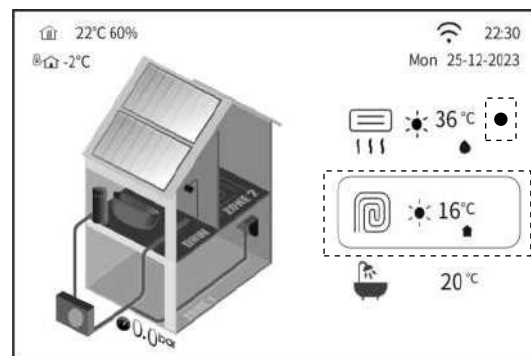
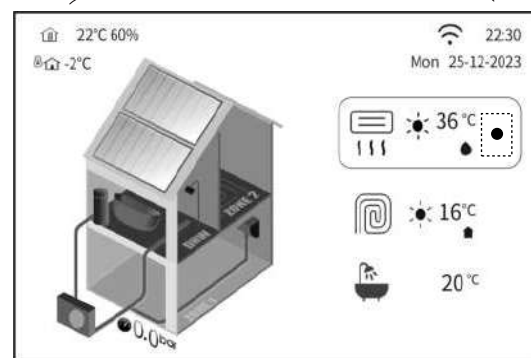
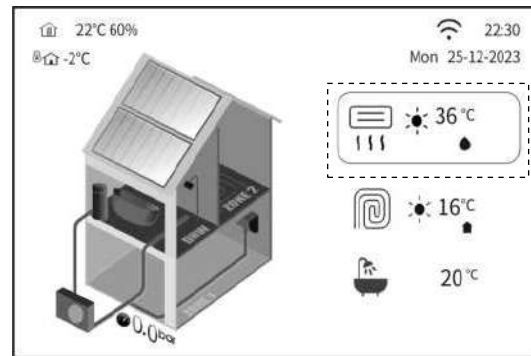
5.2.3 Turn on/off both space operation and DHW mode:

First turning on space operation mode by 5.2.1, and then turn on DHW mode by 5.2.2.



5.2.4 Turn on/off space operation mode both ZONE 1 and ZONE 2:

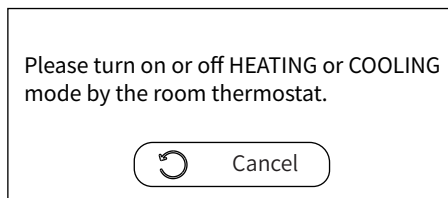
For example, the desired temperature of zone 1 is water temperature, and the desired temperature of zone 2 is room temperature.



Note: you can also turn on or off the unit as described in section 5.5.

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

If the room thermostat is not set "NON" (Refer to "☉" > Installer Level > System Parameter > TEMP. TYPE SET and ROOM THERMOSTAT SET" for the settings in "Installation and owner's manual"), space heating or cooling mode of the unit is turned on or off by room thermostats. If press the button "☉" to turn on the unit on home page, the following text will appear on home page:



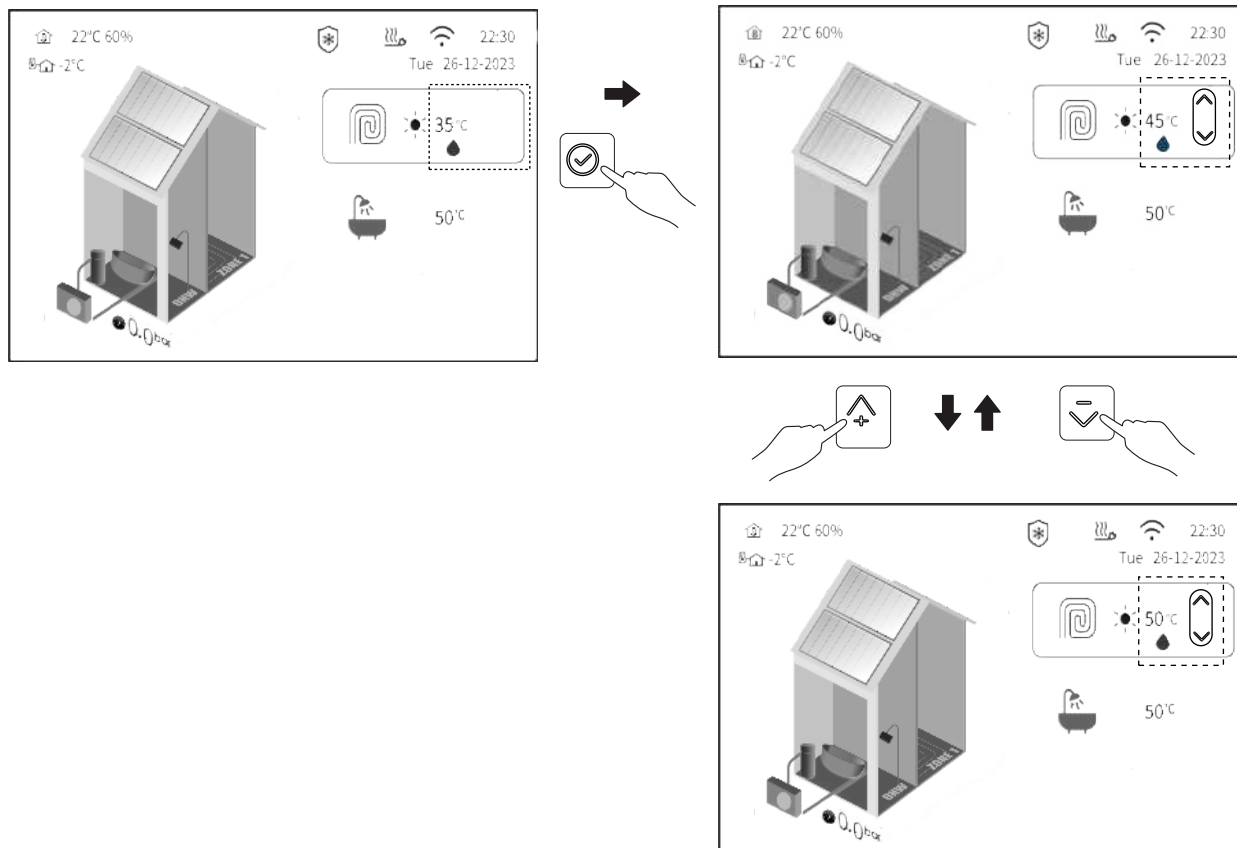
to press "☉" to cancel the operation of turning the unit on or off and then back to home page.

5.3 Adjusting the desired temperature on home page

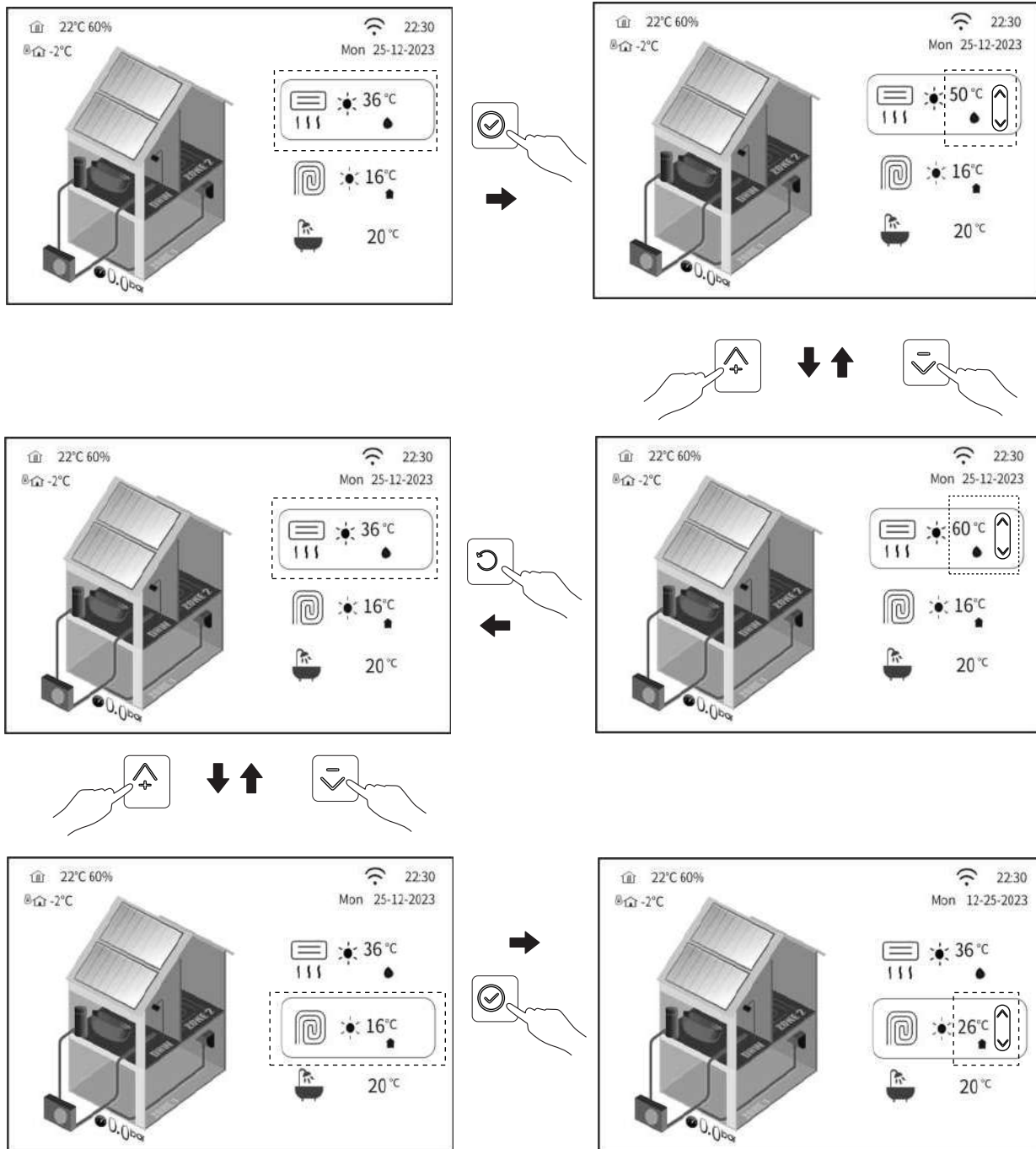
On home page move the cursor to the space or DHW operation mode, and then press the button "☑", the following page will appear:

5.3.1 Adjust the desired temperature of space operation mode

For example, when there is only one zone set by the system, on home page move the cursor to zone 1 side, and then press the button "☑".



When there are two zones set by the system, on home page move the cursor to the zone to be adjusted, and then press the button " ✓ " .

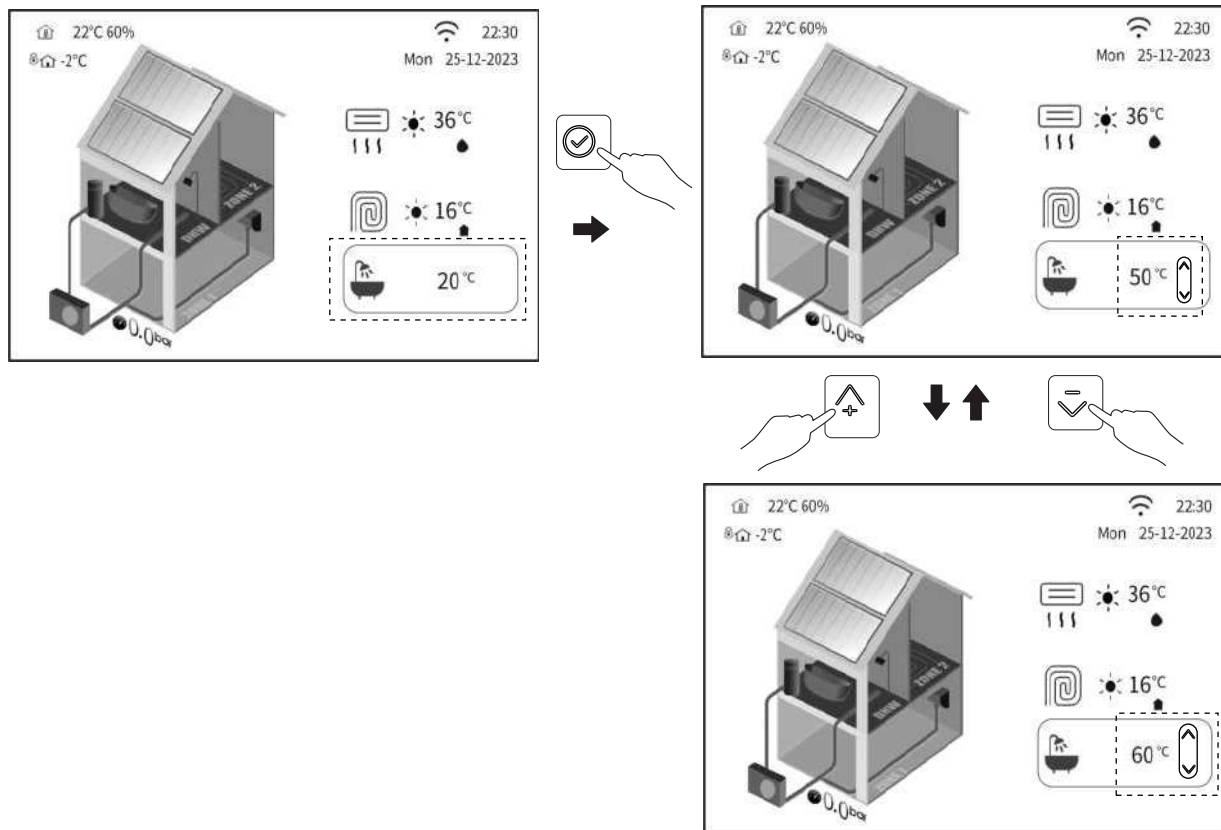


Note: you can also adjust the desired temperature of space operation mode as described in section 5.5.

5.3.2 Adjust the desired temperature of DHW mode

For example, there are two zones and DHW production mode set by the system.

On home page move the cursor to DHW side, and then press the button "☑".

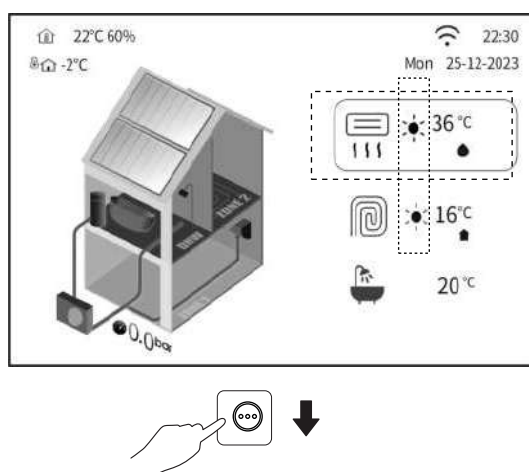


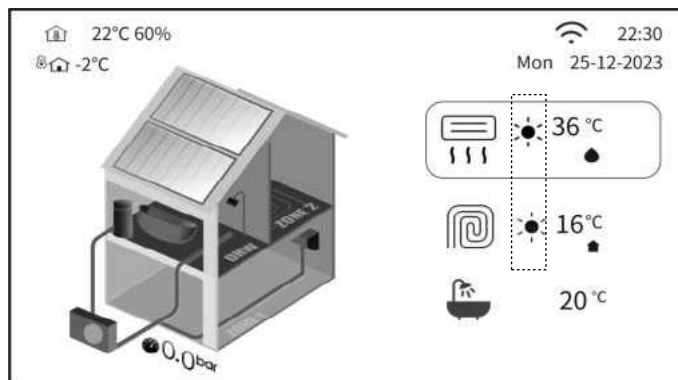
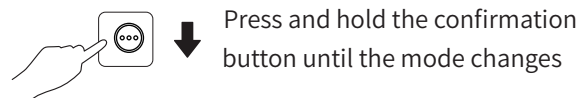
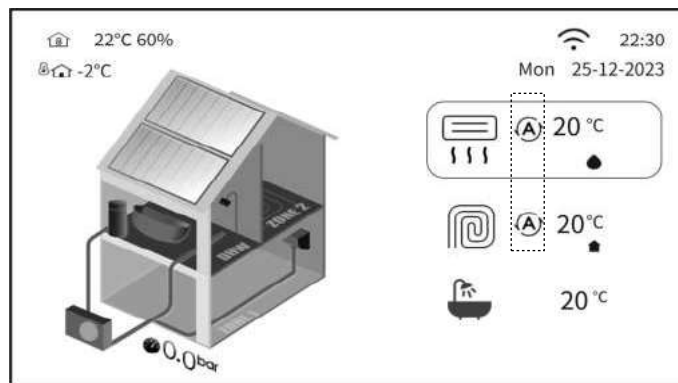
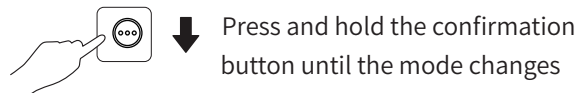
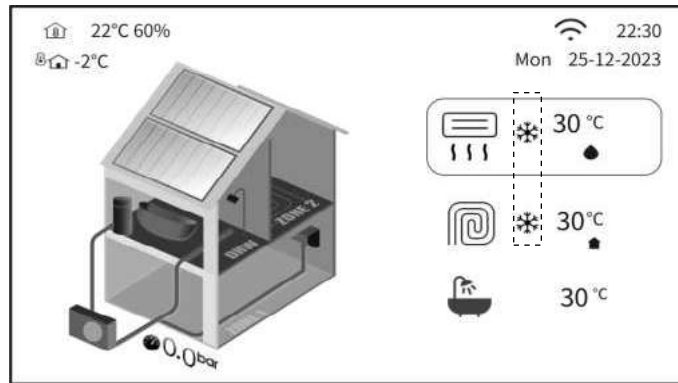
When weather compensation function is activated, you can't adjust the desired temperature directly on home pages, but you can reset weather compensation temperature for referring to "6.2 Weather Compensation".

Note: you can also adjust the desired temperature of DHW mode as described in section 5.5.

5.4 Adjusting space operation mode on home page

Long press the button "⊙" to switch the space operation mode between cooling and heating and automatic on home page, don't let go till you see the new mode icon.





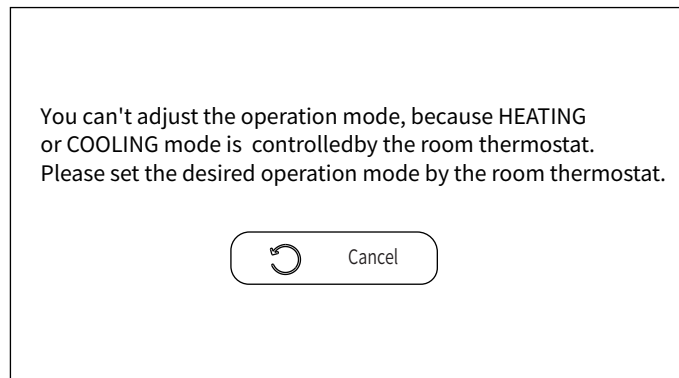
Automatic changeover is only possible under certain conditions.
Zone 1 and Zone 2 have the same space operation mode.

Refer to "☉ > Installer Level > System Parameter > AUTO MODE SET" for the setting in "Installation and owner's manual".

Note: you can also adjust space operation mode as described in section 5.5.

- Adjust space operation mode by the room thermostat

Refer to "☉ > Installer Level > System Parameter > "ROOM THERMOSTAT SET" for the setting in "Installation and owner's manual ". If you press the button "☉ " to change space operation mode on home page, the following text will appear on home page:



5.5 About the menu "Zone1.Zone2.DHW"

By the menu " Zone1.Zone2.DHW ", you can:

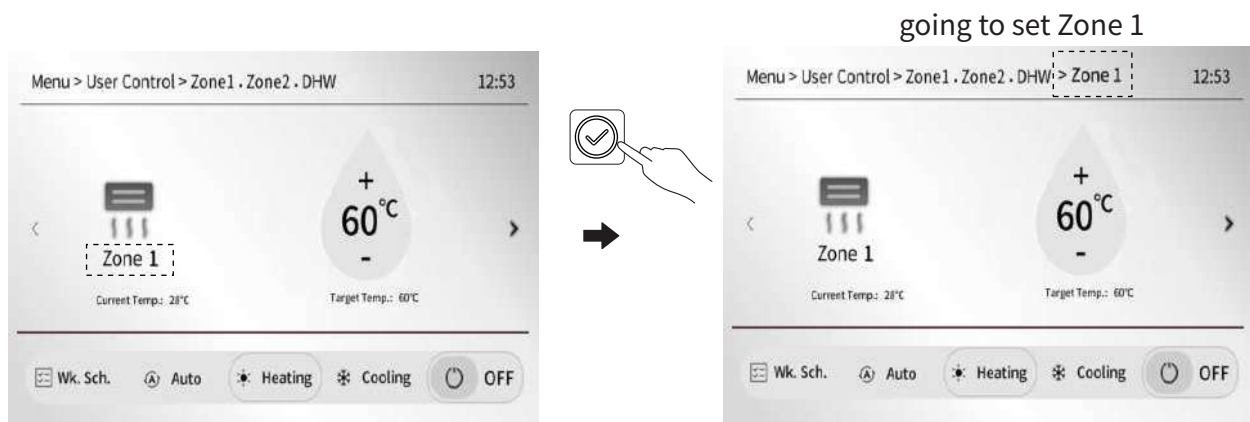
- 1) Turn the unit on or off.
- 2) Set desired operation mode - AUTO or Heating or Cooling or DHW or both space operation mode and DHW.
- 3) Adjust the desired temperature.
- 4) Set weekly schedule operation of the unit.

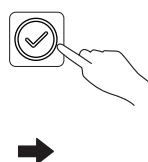
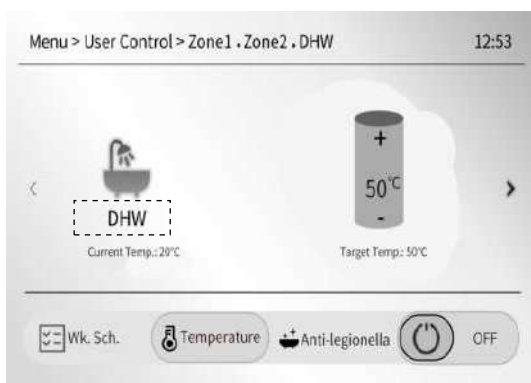
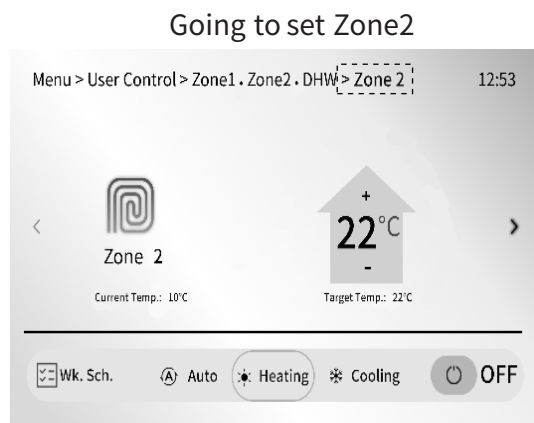
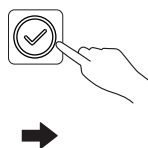
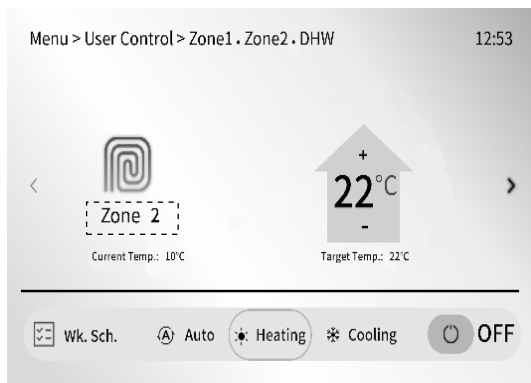
Refer to "3 HOME PAGES" for the detail information about Zone 1, Zone 2 or DHW.

5.5.1 How to go into the menu " Zone1.Zone2.DHW "

On any one page press " ☉ > User Control > Zone1.Zone2.DHW " and then press ☑ .

5.5.2 Select Zone 1 or Zone 2 or DHW to be set



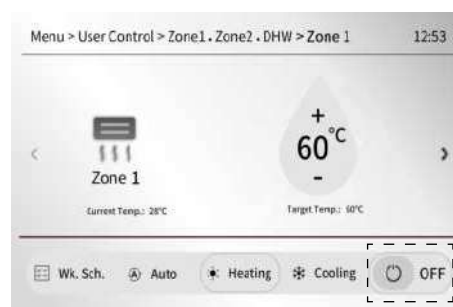


5.5.3 Set Zone 1 or Zone 2 or DHW to be selected

When you have selected Zone 1 or Zone 2 or DHW to be set by 5.5.2, you can:

1) Turn on or off the unit

- Turn on or off Zone 1



Here Heating is current operation mode.

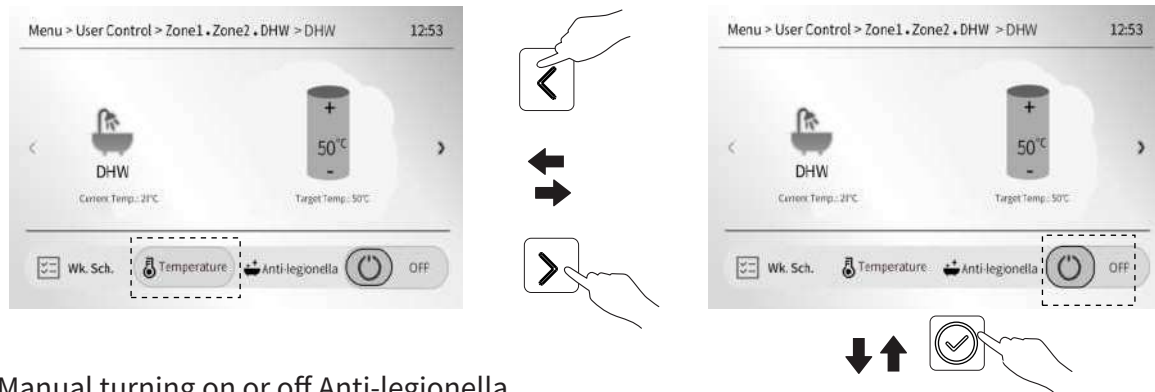


- Turn on or off Zone 2

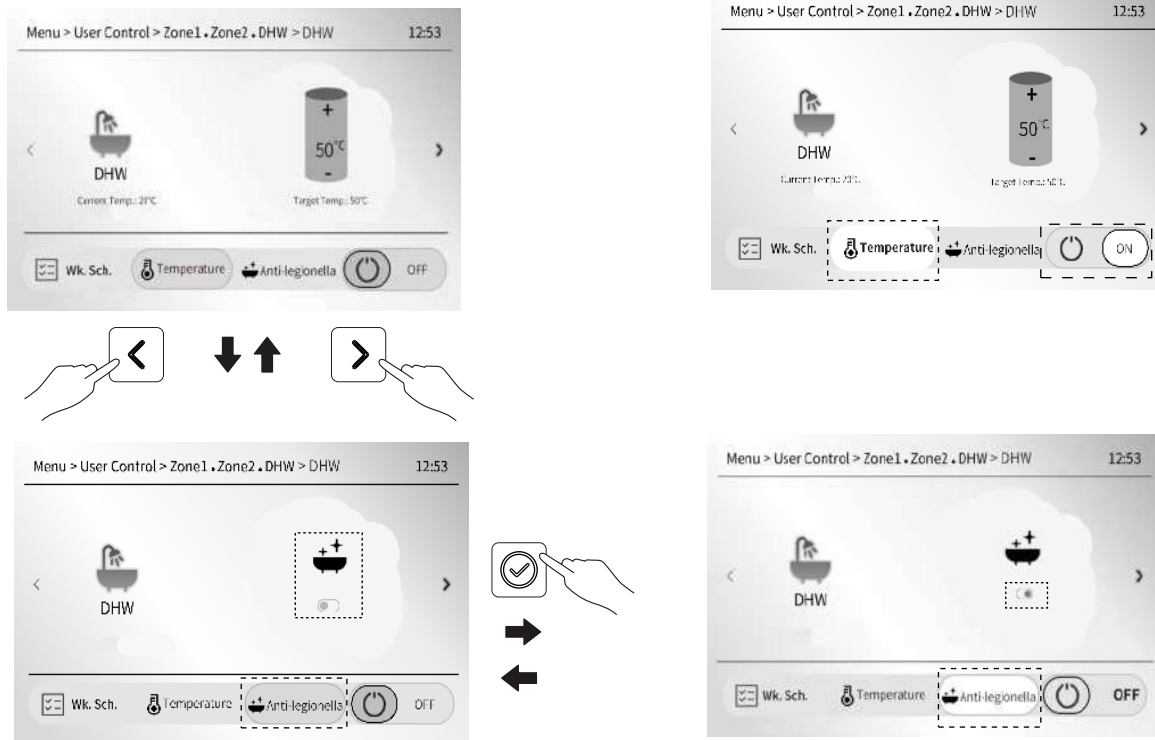
You can also turn on or off Zone 2 following the method of turning on or off Zone 1.



- Turn on or off DHW



- Manual turning on or off Anti-legionella



Note: You can turn on or off only space operation mode, or only DHW production mode, or combined space operation and DHW production mode.

2) Adjust the desired temperature

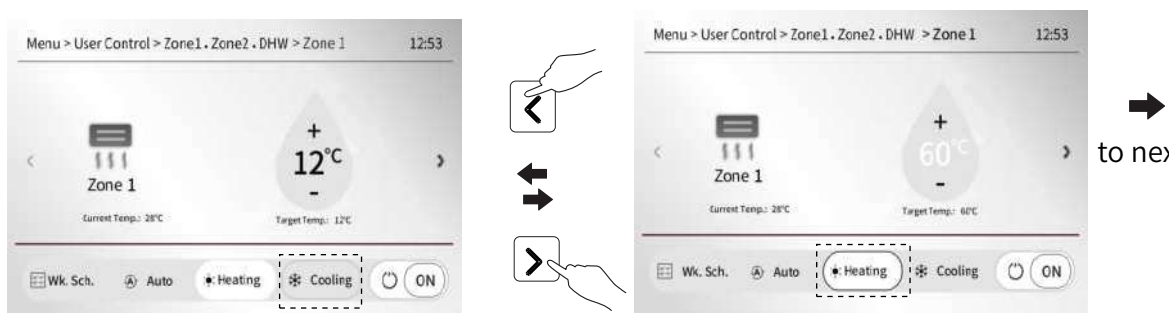
Step 1- Going to Zone 1, Zone 2 or DHW to be adjusted by following 5.5.2.

Step 2- Turning on the unit by following 5.5.3. 1).

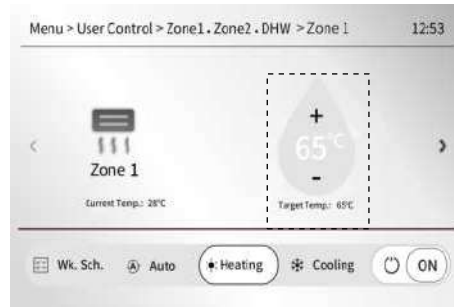
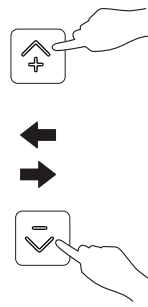
Step 3- Moving the cursor to the current operating mode.

- Adjust the desired temperature of Zone 1

For example, you finished Step 1 and Step 2, and Zone 1 is currently operating on heating mode.



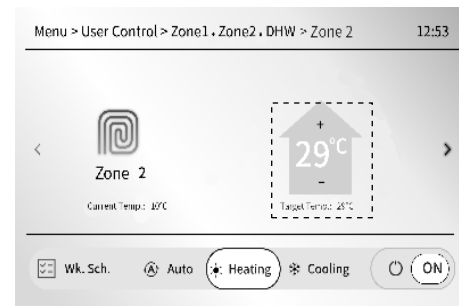
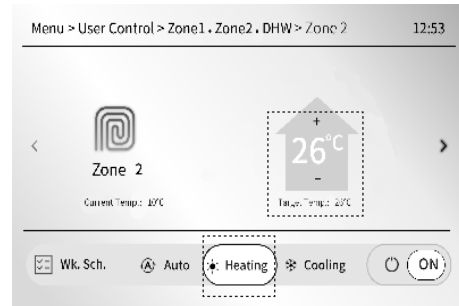
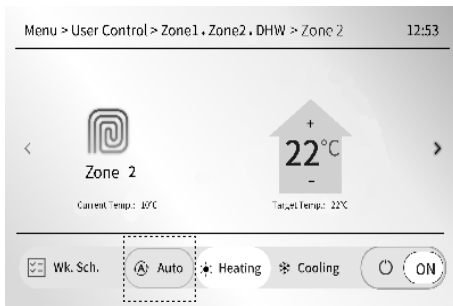
to next page



Big water drop icon means desired Zone 1 temperature is leaving water temperature.

- Adjust the desired temperature of Zone 2

You can adjust the desired temperature of Zone 2 in the same way you adjust desired temperature of Zone 1. For example, Zone 2 is currently operating on heating mode.

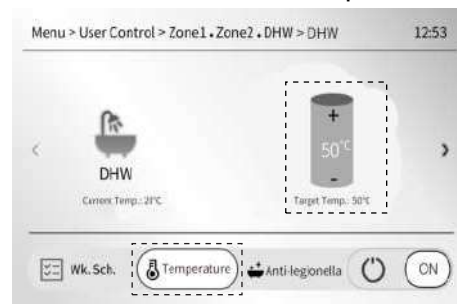
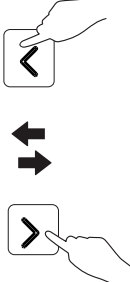
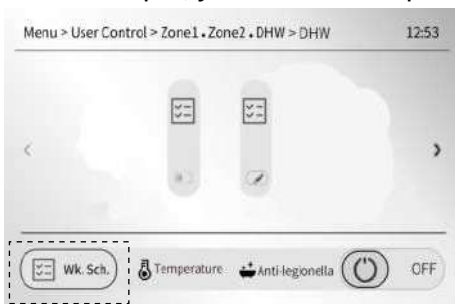


Big room icon means desired Zone 2 temperature is room temperature measured by the temperature sensor installed in the wired controller.

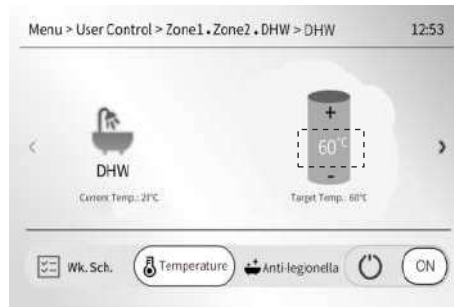
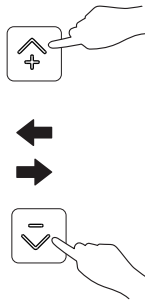
When weather compensation function is activated, you can't adjust the desired temperature directly on home pages, but you can reset weather compensation temperature for referring to "**6.2 Weather Compensation**".

- Adjust the desired DHW temperature

For example, you finished Step 1 and Step 2, and move the cursor to "Temperature".

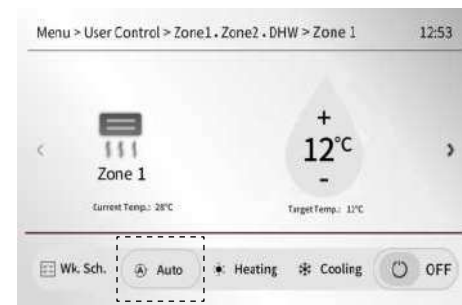
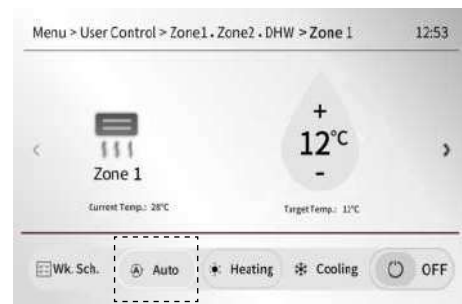
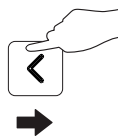
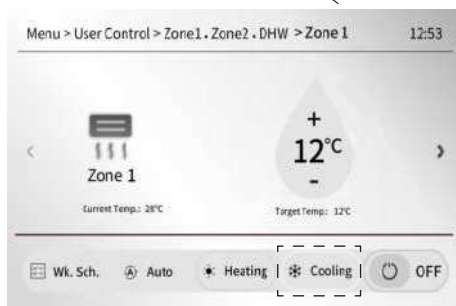
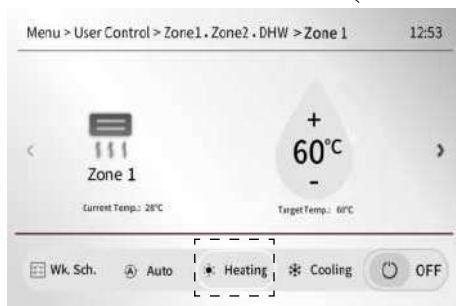
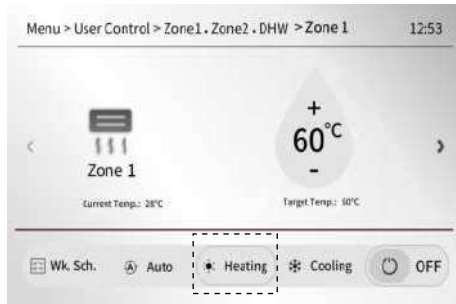


→
to next page



3) Adjust space operation mode

- adjust space operation mode of Zone 1 (Assuming the current mode is heating)



Zone 2 has the same space operation mode as Zone 1. You can also adjust the operation mode of zone 2 first, and then the operation of zone 1 will automatically follow the operation mode of zone 2. When space operation mode is controlled by the room thermostat, you can't adjust space operation mode by wired controller. please refer to the section 5.4 for the description.

6 OPERATION

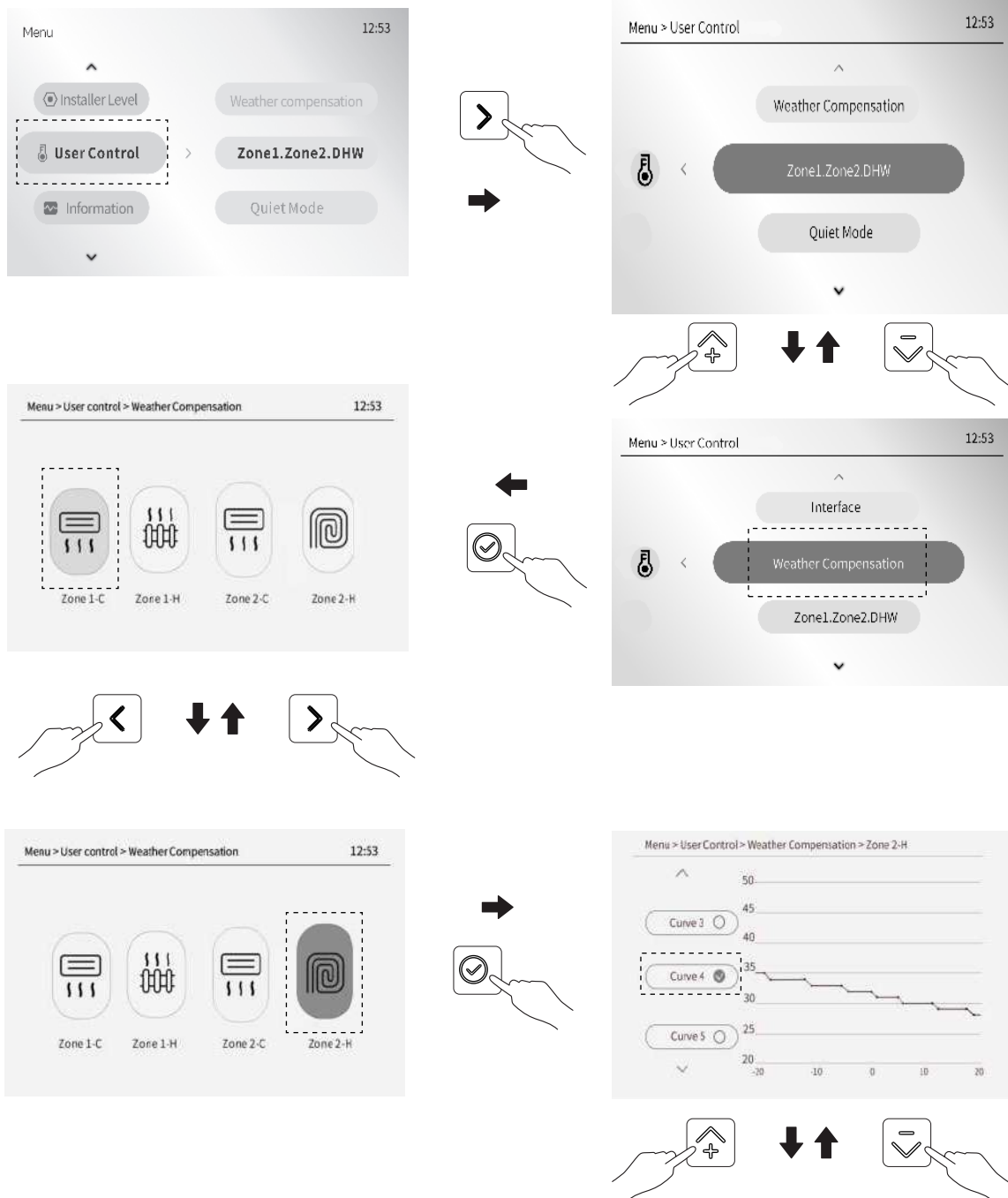
6.1 Operation mode set

About operation mode, please refer to "5.4 "and "5.5.3 Adjusting space operation mode".

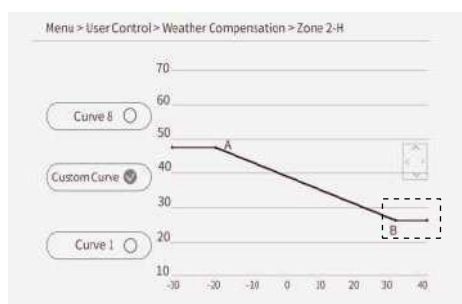
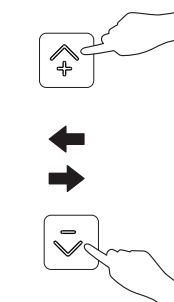
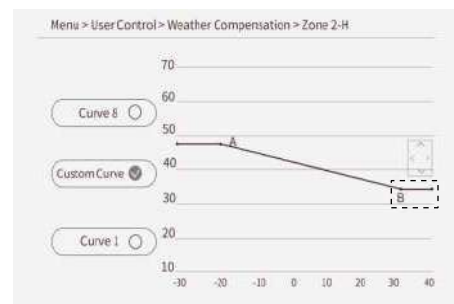
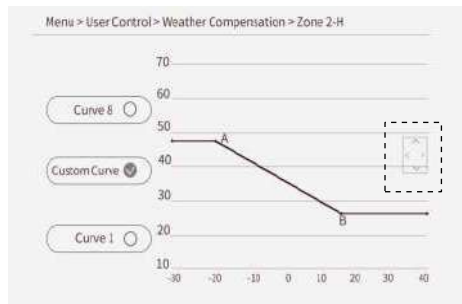
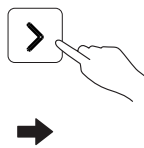
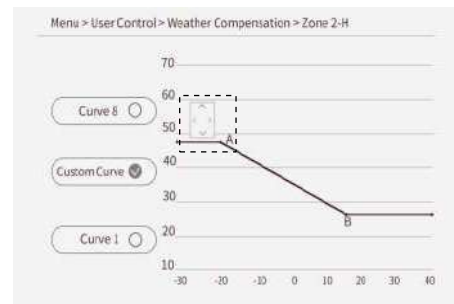
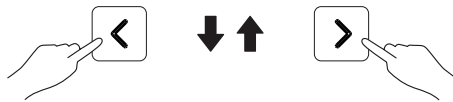
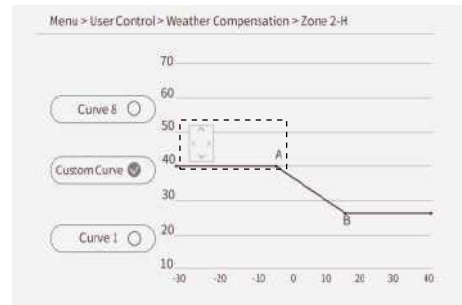
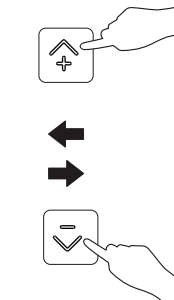
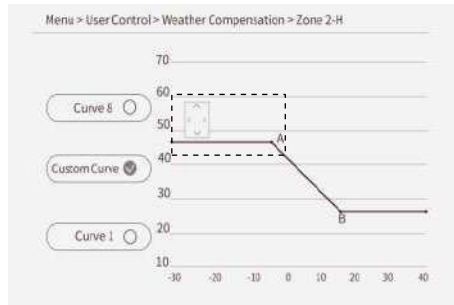
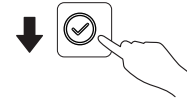
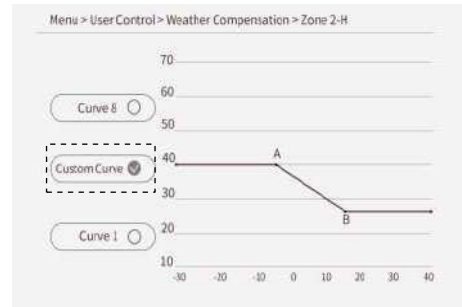
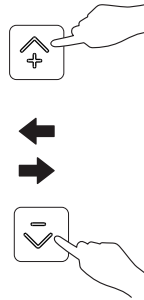
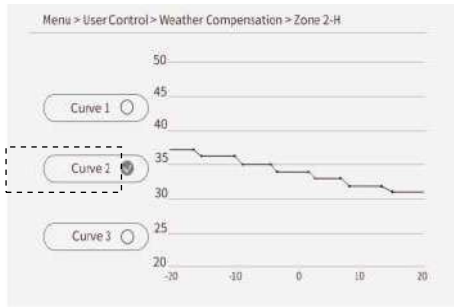
6.2 Weather Compensation




Weather compensation function is used to preset the desired water flow temperature depending on the outside air temperature. During the warmer weather the heating is reduced, to save energy weather compensation can decrease the desired water flow temperature when the outdoor air temperature increased in heating mode.

How to set desired weather compensation curve temperature



to next page



Press " " or " " to select a desired weather compensation curve on the page , and then press the button " " to confirm the setting.

INFORMATION

Weather compensation have four kinds of curves:

1. the curve of the high temperature setting for heating.
2. the curve of the low temperature setting for heating.
3. the curve of the high temperature setting for cooling.
4. the curve of the low temperature setting for cooling.


There are 8 high heating temperature cures to be set for high heating temperature device types: FCU or Radiator.

There are 8 low heating temperature cures to be set for low heating temperature device types: FLH.

There are 8 high cooling temperature cures to be set for high cooling temperature device types: FLH or Radiator.

There are 8 low cooling temperature cures to be set for low cooling temperature device types: FCU.

The desired temperature (TB) can't be adjusted directly when the temperature curve is valid.

- The device type of a zone is to be decided by your setting, refer to the setting " > Installer Level > System Parameter > HEATING MODE SET or COOLING MODE SET".
- You can customize your weather compensation curve, i.e. the 9th curve - "Custom curve".
- If weather compensation function is activated, the desired temperature cannot be adjusted on home page and on the menu "Zone1.Zone2.DHW", otherwise the following text will appear:

You can't adjust the desired temperature, because
Weather Compensation function is currently active.

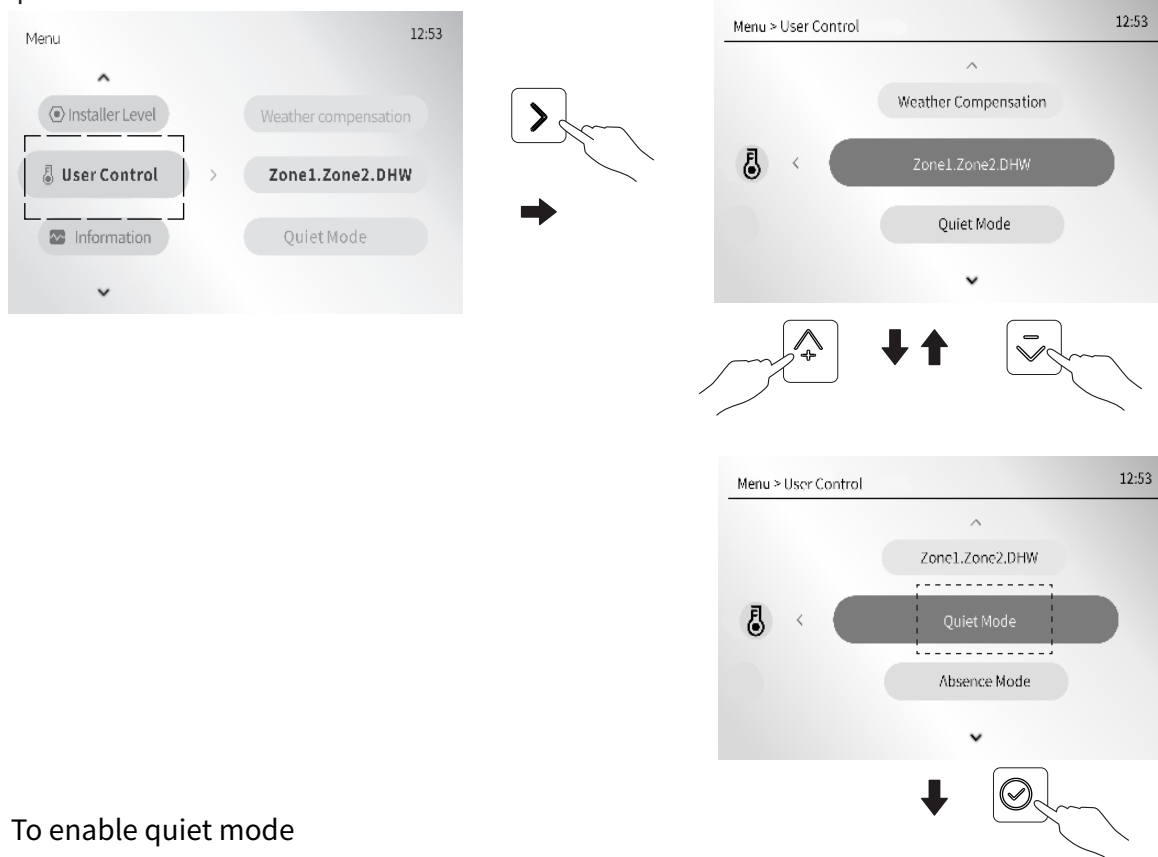
 Cancel

6.3 Quiet Mode

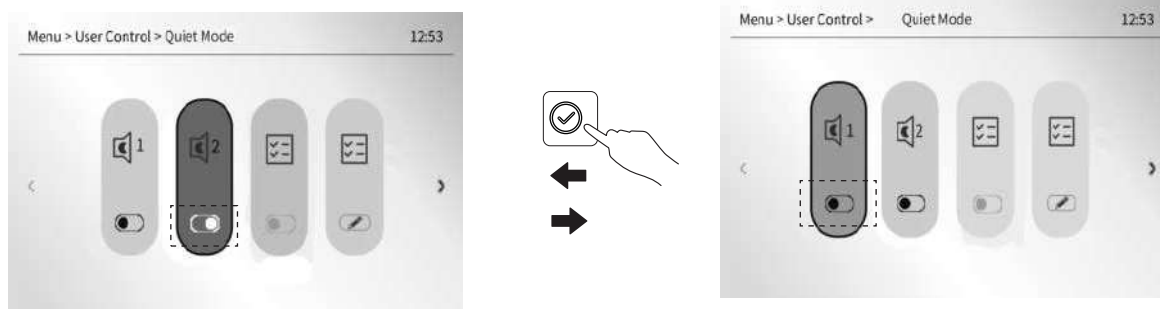
The quiet function is used to reduce the noise of heat pump when it is running, however, it also decreases the heating/cooling capacity of the system.

- How to go to "Quiet Mode"

On any one page go to "☉" > User Control > Quiet Mode" to enable or make a weekly schedule of quiet mode.

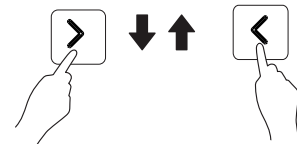
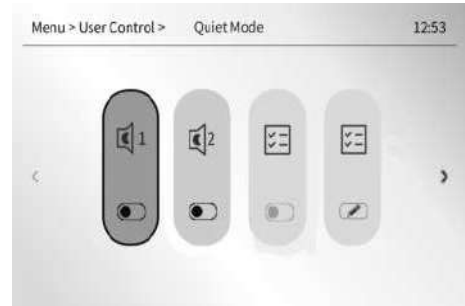
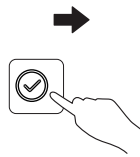
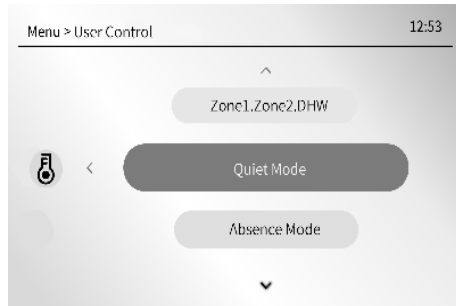


- To enable quiet mode

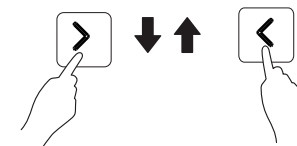
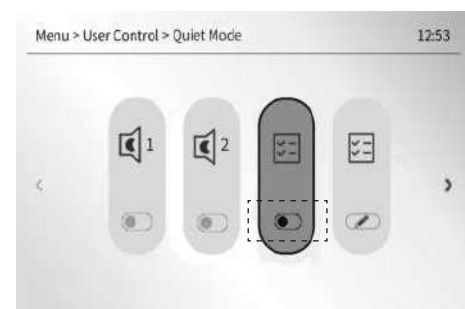
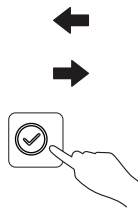
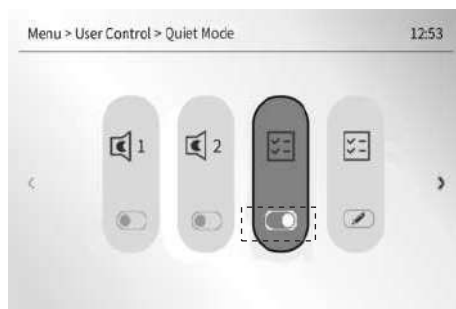


Press left or right button to select desired quiet level, and then press confirm button to enable quiet function. The unit will always operate at the selected quiet level until you disable the quiet level.

- To enable or disable the schedule of quiet mode



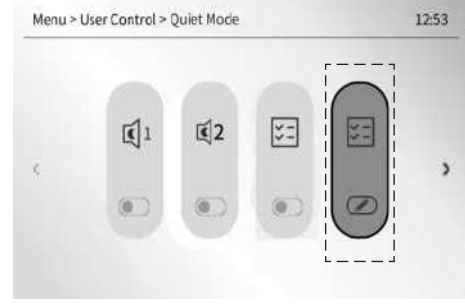
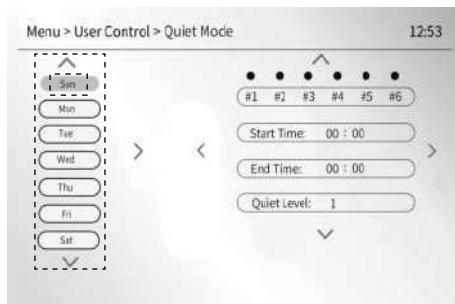
Only when you enable quiet mode is the schedule of quiet mode valid.



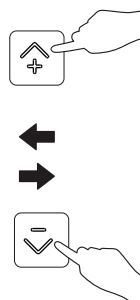
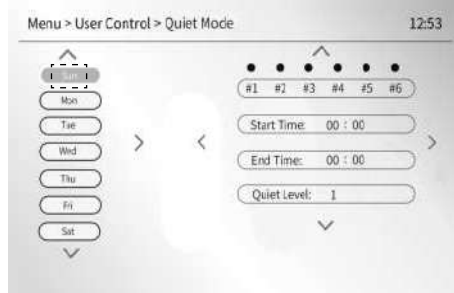
if enabling the quiet mode schedule, a weekly schedule icon will appear on the screen.

- How to schedule the desired quiet mode

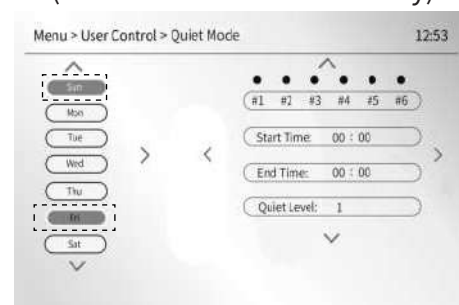
Step 1 - to select and enable the date to be scheduled

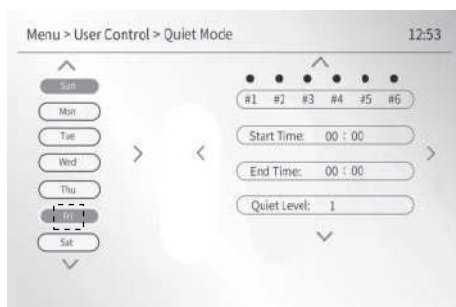


(to enable the selected date Sunday)



(to move the cursor to Friday)

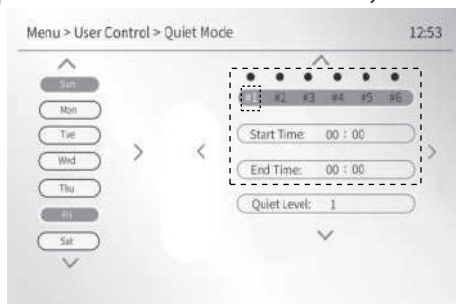




That is an example of selecting and enabling Sunday and Friday for scheduling the quiet operation, and these two dates will share the same timer setting. See note 1 (Method B) for details.

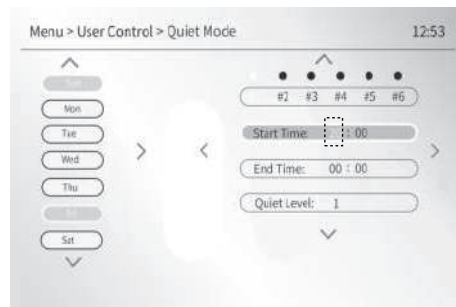
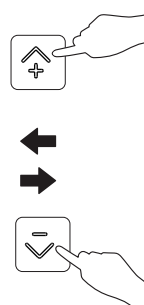
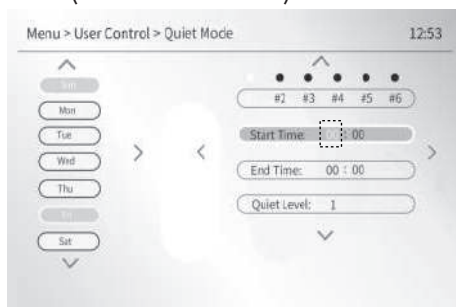
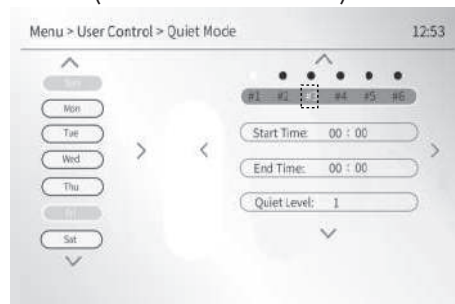
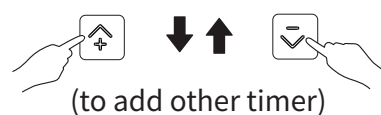
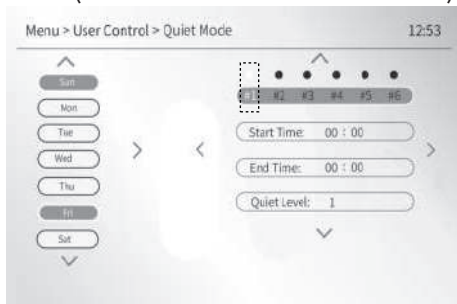
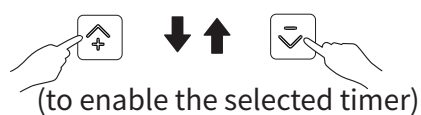
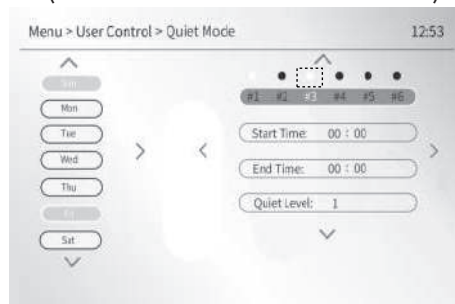


Step 2 - to set the desired timers, see note 2

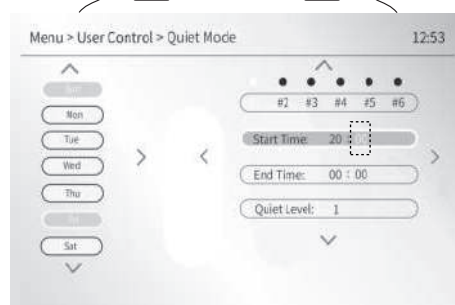
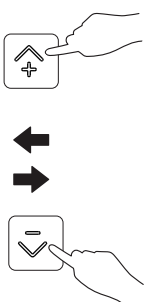
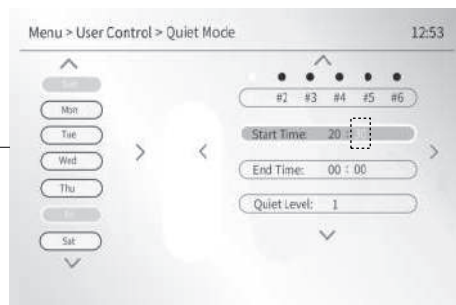


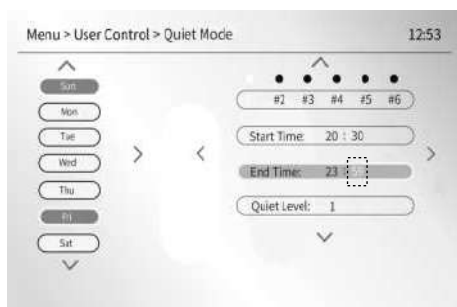
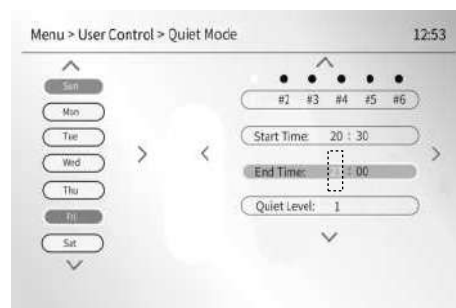
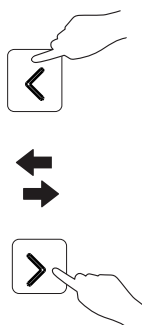
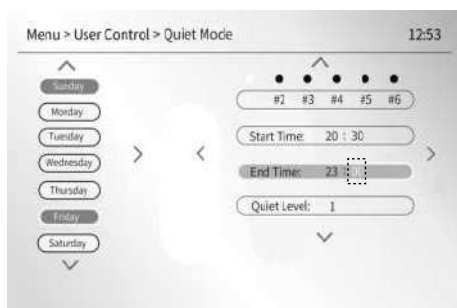
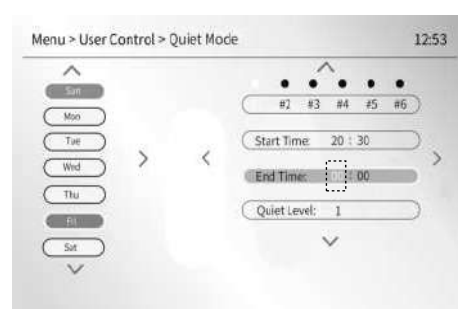
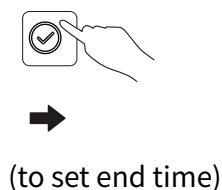
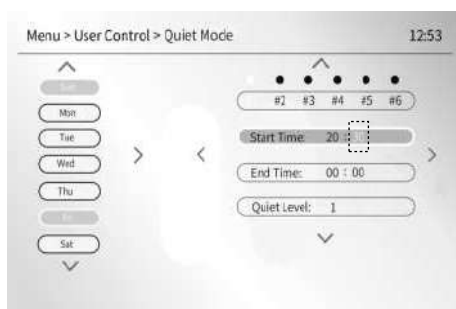
6 timers

(to enable new selected timer)

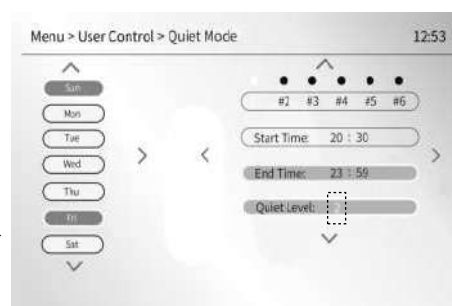
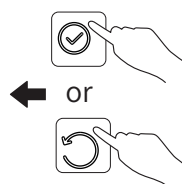
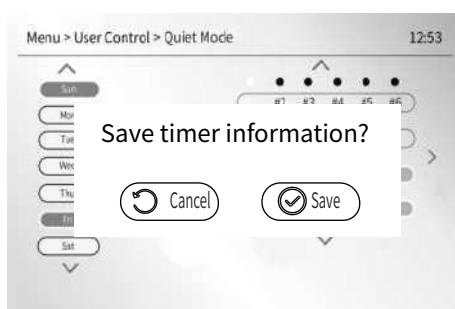
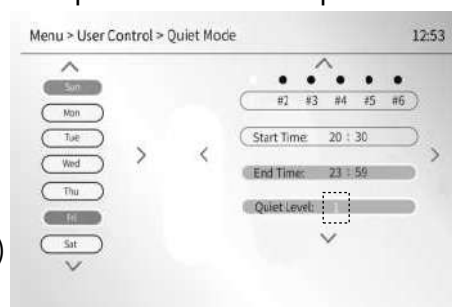


to next page





Step 3- to set desired quiet level



To abort the setting
of the timer

To save the setting
of the timers, See Note 3

(If the unit has only one quiet level,
Please ignore this setting)

Note:

1) When scheduling the dates in the foregoing Step 1, you can schedule a certain day or several day in a week or a whole week for your desired quiet operation.

- If you want to schedule only a certain day in Step 1, in Step 2 you can enable one

or several or all 6 timers you want, and then set the start and end time for each of these enabled timers.


- When you desire to schedule more than one day, there are two methods of setting the dates.

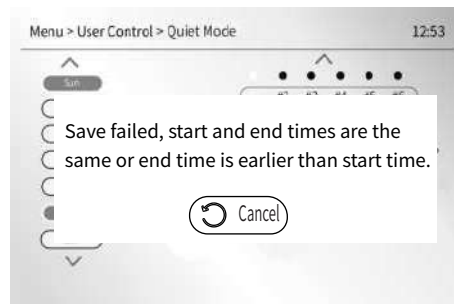
Method A is that you set only any one desired date in Step 1, in Step 2 you enable the desired timers (you can enable one, several or all 6 timers) for it, and then set the start and end time for each of these enabled timers. After finishing setting these enabled timers, save the setting and back to the first step to set another desired date, and then repeat as you have just done until you have set the desired timers for each of these desired date. As a result, every scheduled dates can have its own timer setting, with varying the number of timers, start time and end time. Table 5 below is an example of scheduling Sunday, Wednesday and Friday for quiet operation in this method. Monday, Tuesday, Thursday and Saturday aren't scheduled for quiet operation. Two timers #1 and #3 are available for Sunday. Two timers #1 and #2 are available for Wednesday. Three timers #1 and #2 and #3 are available for Friday. Three timers #4 and #5 and #6 are disabled.

Method B is to set all desired dates in Step 1, and then in Step 2 to enable the desired timers (you can enable one or server or all 6 timers) for these desired dates, and then set the start and end time for each of these enabled timers. As a result these desired dates will share the same timer setting. Table 6 is another example of scheduling a whole week for quiet operation in the method. Every day shares 3 timers #1, #2 and #3. Three timers #4 and #5 and #6 are invalid.

- 2) There are 6 timers from #1 to #6 in total , and each of the 6 timers has its start and end time.

You must select at least one date in order to set the timer.

- 3) If End Time is set to be the same as or earlier than Start Time, when press  , an error message will appear on the screen.



Press  to back to the current setting to reset the start and end time.

Table 5

Date		#1			#2			#3			#4, #5 and #6		
No.	Schedule?												
Sunday	YES	Enable			Disable			Enable			Disable		
		Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level
		00:00	8:00	2	/			21:00	23:59	1	/		
Monday	NON	/											
Tuesday	NON	/											
Wednesday	YES	Enable			Enable			Disable			Disable		
		Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level
		2:00	6:00	2	12:00	14:00	1	/			/		
Thursday	NON	/											
Friday	YES	Enable			Enable			Enable			Disable		
		Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level
		00:00	8:00	2	14:00	16:00	1	21:00	23:59	1	/		
Saturday	NON	/											

Table 6

Date		#1			#2			#3			#4, #5 and #6		
No.	Schedule?												
Sunday	YES	Enable			Enable			Enable			Disable		
		Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level
		00:00	8:00	2	12:00	14:00	1	21:00	23:59	1	/		
Monday	YES	/											
Tuesday	YES	/											
Wednesday	YES	Enable			Enable			Enable			Disable		
		Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level
		00:00	8:00	2	12:00	14:00	1	21:00	23:59	1	/		
Thursday	YES	/											
Friday	YES	Enable			Enable			Enable			Disable		
		Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level	Start Time	End Time	Quiet Level
		00:00	8:00	2	12:00	14:00	1	21:00	23:59	1	/		
Saturday	YES	/											

- How to cancel the scheduled date

If you want to cancel a scheduled date, you must disable all the enabled timers for the date.

For example, in order to cancel Wednesday in Table 5, you can't disable Wednesday directly, and you must disable two enabled timers #1 and #2 in Step 2 relative to it.

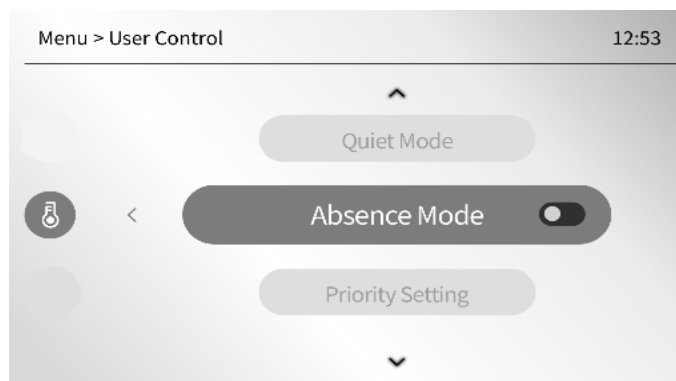
If the quiet mode is activated, the quiet icon will display on the home page.

Note: If APP activates a Weekly Schedule, the weekly schedule of the interface is automatically deactivated or invalid.

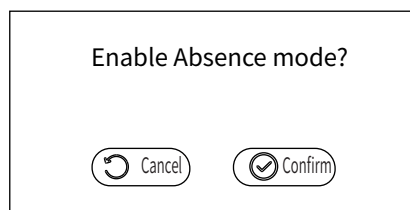
6.4 Absence Mode

The function is used to prevent the unit from freezing in cold winter during your holiday away home. When power supply of the unit is on but is off status, if water temperature is low, the unit will automatically operate on heating mode to raise the water temperature.

On any one page go to "☰ > User Control > Absence Mode" to press Ⓢ to enable or disable the function.

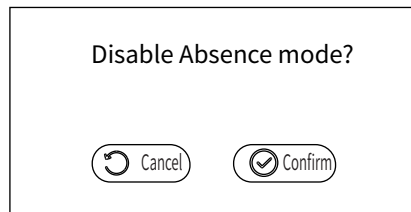


When you enable absence mode, the following text will appear on the screen:



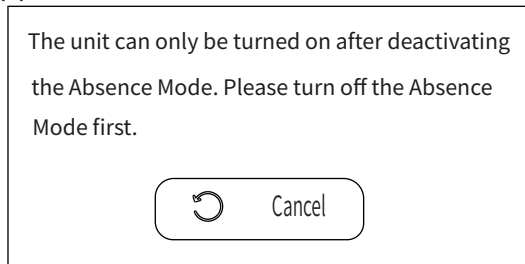
Press Ⓢ to disable the function, Ⓢ to enable the function.

When you want to cancel absence mode, the following text will appear on the screen:



Press to remain to enable the function, to disable absence mode.

When you enable absence mode, and at the end of your holiday if you want to turn on the unit on the home page or on the menu "Zone1.Zone2. DHW" as described on section 5.2 and 5.5, the following text will appear on the screen:



When the unit is running, if you activate the Absence mode, the unit will shut down.

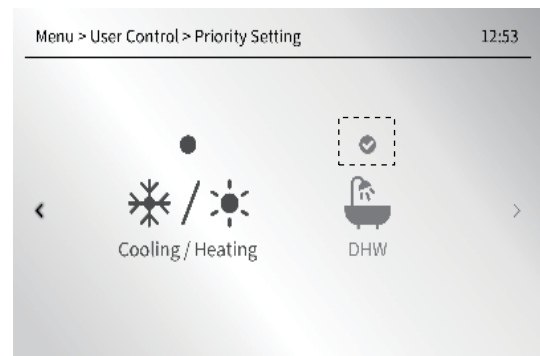
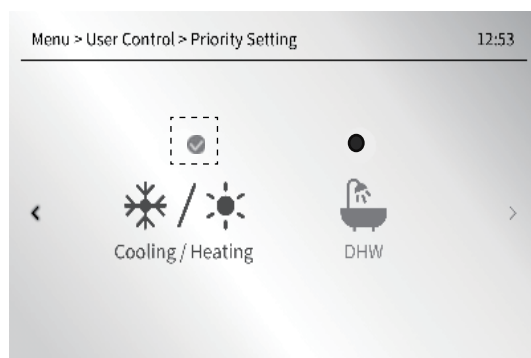
If Absence mode is activated, the absence icon will display on the screen.

6.5 Priority Setting

The unction is used to set whether domestic hot water production mode(DHW) or space operation mode takes priority. If DHW priority is set, only when desired DHW temperature is attained does the unit run at space operation mode.

If space operation mode priority is set, only when desired space operation temperature is attained does the unit run at DHW mode.

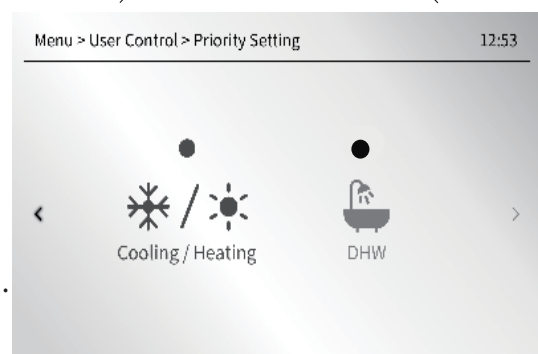
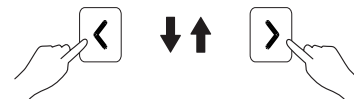
On any one page go to " > User Control > Priority Setting", and then press , the following page will appear:



Press or to select the desired priority,

means the current priority mode

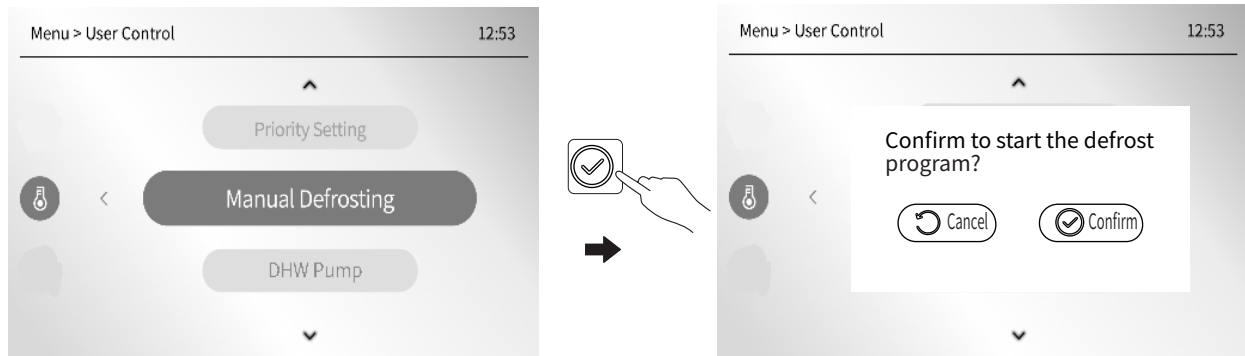
If neither DHW nor space operation priority is set, this is preemption mode. only when desired temperature of current operation mode is attained does the unit switch to another mode. For cascade application, Priority Setting is invalid.



6.6 Manual Defrosting

The function is used to force the unit to defrost when the unit operates in heat or DHW mode in cold winter.

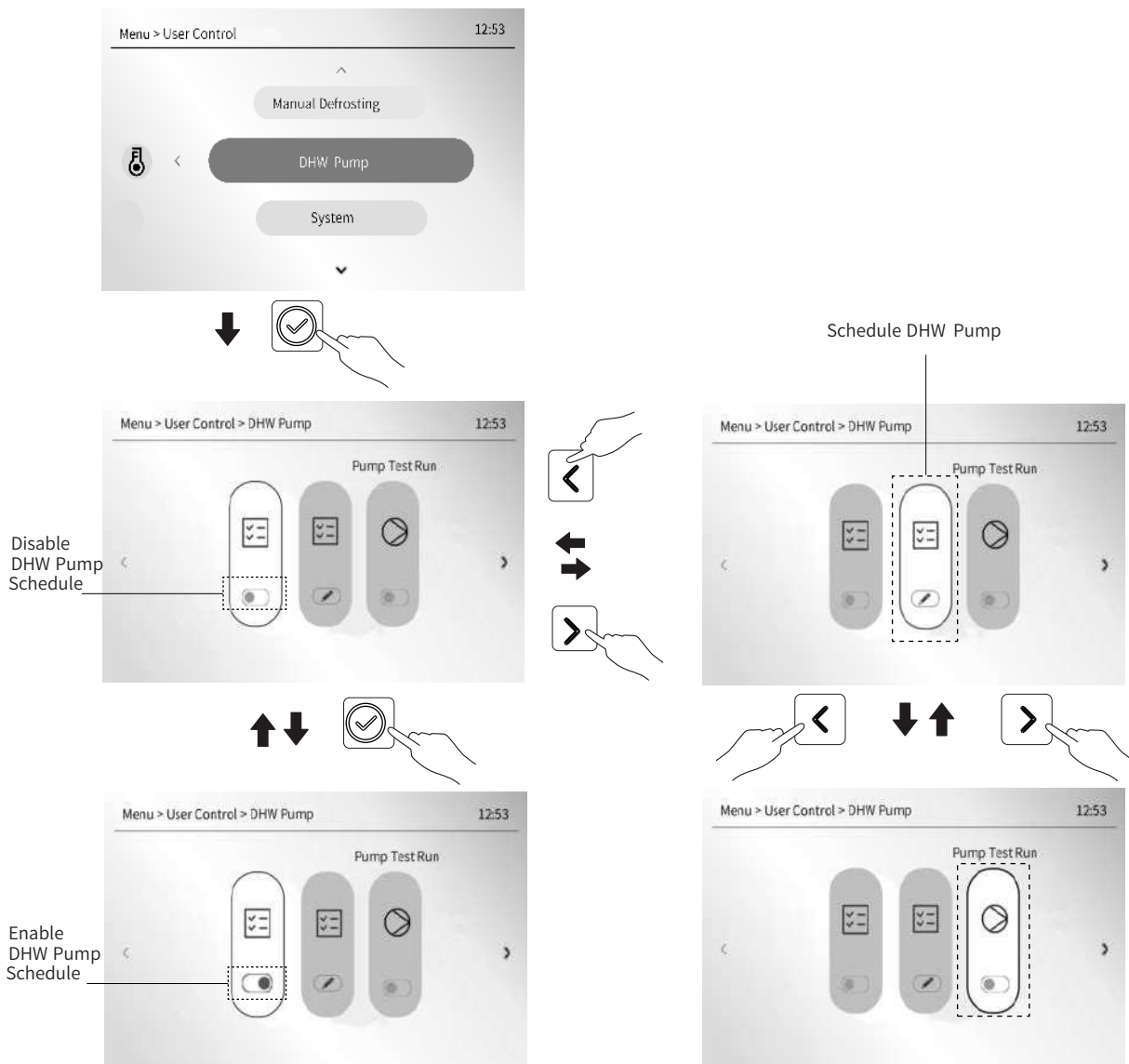
On any one page go to "☉ > User Control > Manual Defrosting", and then press ☑ to enable the function. This is a one-time function and defrosting icon will appear on the screen.



6.7 DHW Pump

DHW pump is used to recirculate the water inside domestic water net.

To go to "☉ > User Control > DHW Pump", and then press ☑ to set the desired control.



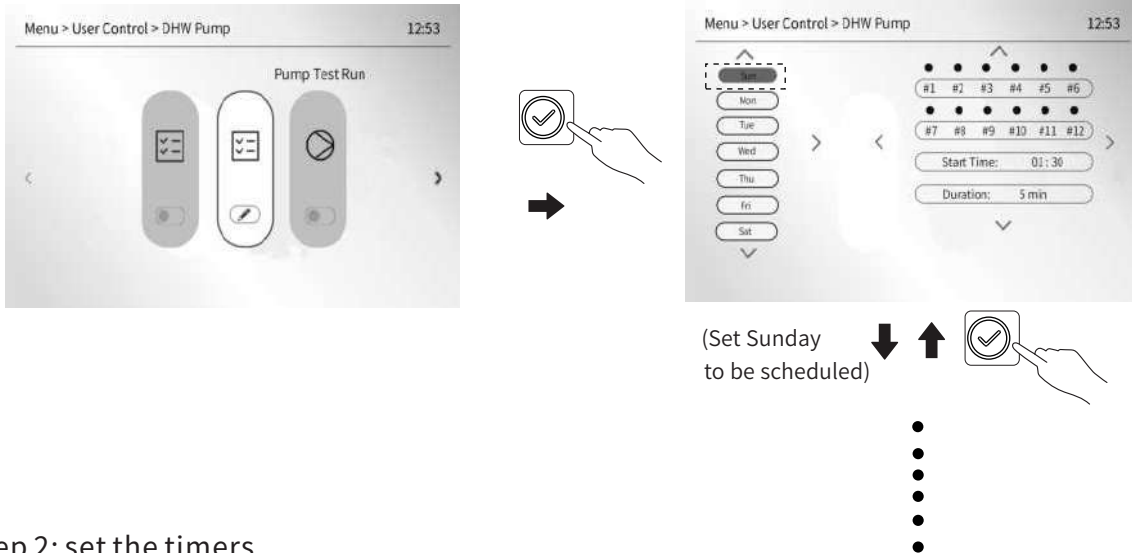
The function of pump test run is used to manually debug DHW pump and once-time effective.

- How to schedule DHW Pump

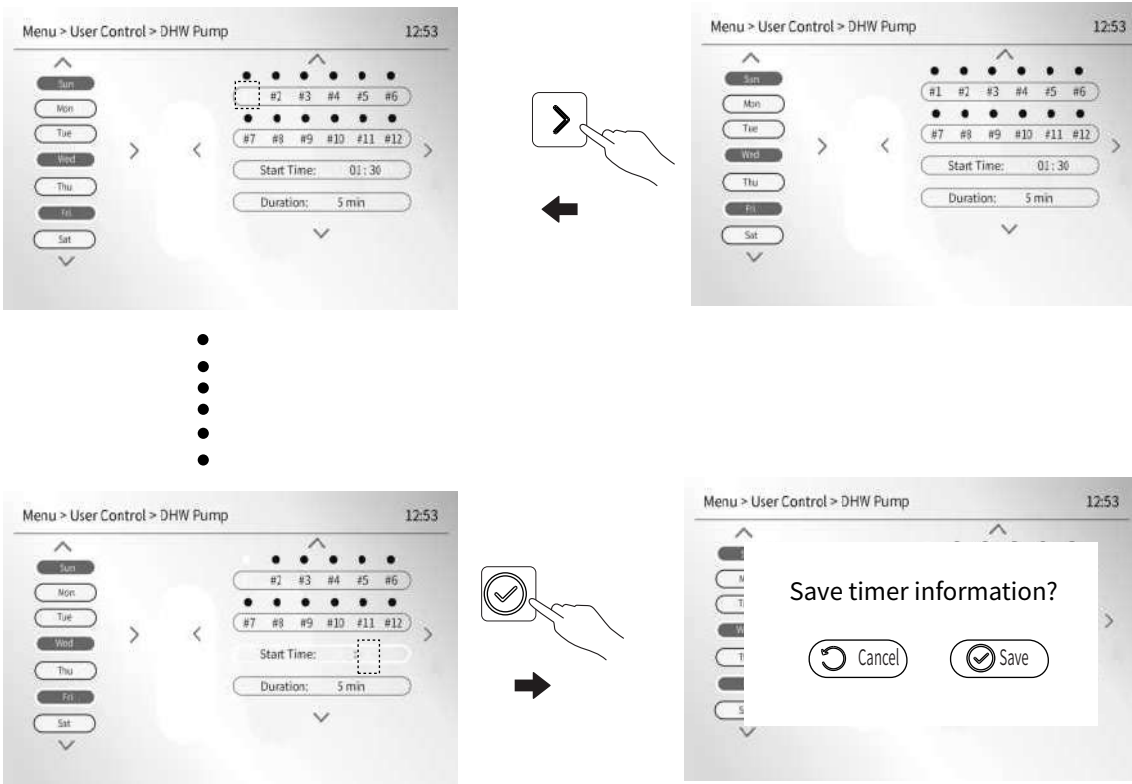
You can customize DHW pump's weekly operation schedule in exactly the same way as you would set up a weekly schedule for Quiet Mode.

For example, you want to set a schedule for Sunday, Wednesday and Friday:

Step 1: set a certain day or several certain days of a whole week to be scheduled.



Step 2: set the timers.



Press to abort the current setting, to save the current setting.

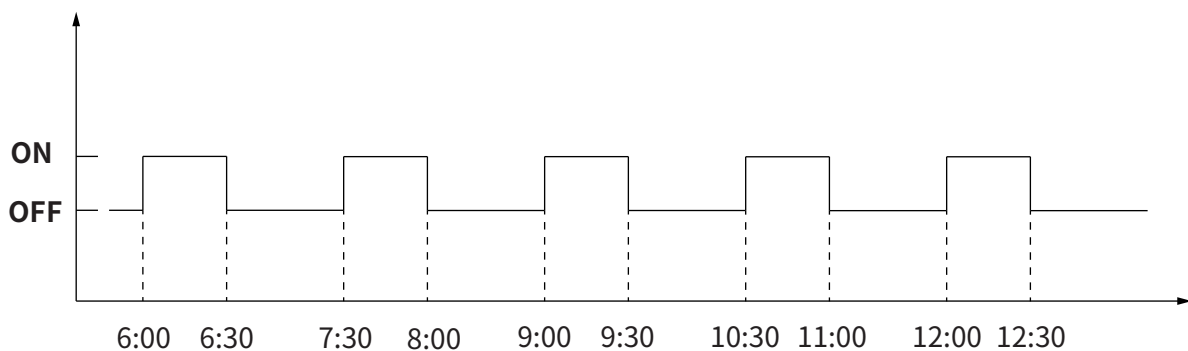
The time "Duration" is the time when DHW pump starts to run continuously after each timer arrive at. It can only be set in the menu "Installer Level", refer to " > InstallerLevel > System Parameter > DHW MODE SET".

For the example, you have set three dates (Sunday, Wednesday and Friday) and the timer #1 to schedule the operation of DHW pump. DHW pump will start at am 6:30 on each of these three days of these three days and then stop after running for 25min.

Another example, a whole week is scheduled and each day has the same setting of timers and the time "Duration" has been set to 30min. Setting the timers as follows:

NO.	Start Time
#1	6 : 00
#2	7 : 30
#3	9 : 00
#4	10 : 30
#5	12 : 00
#6~#12	Disable

The pump will run as follows:



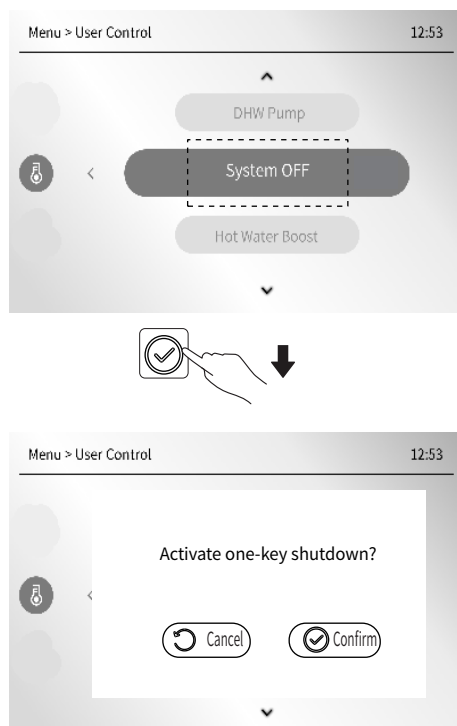
There are a total of 12 timers that can be set, but the example has only 5 available timers from #1 to #5.

Note: DHW pump scheduling function is only available for R290 models.

6.8 System OFF

The function is used to force the unit to shut down.

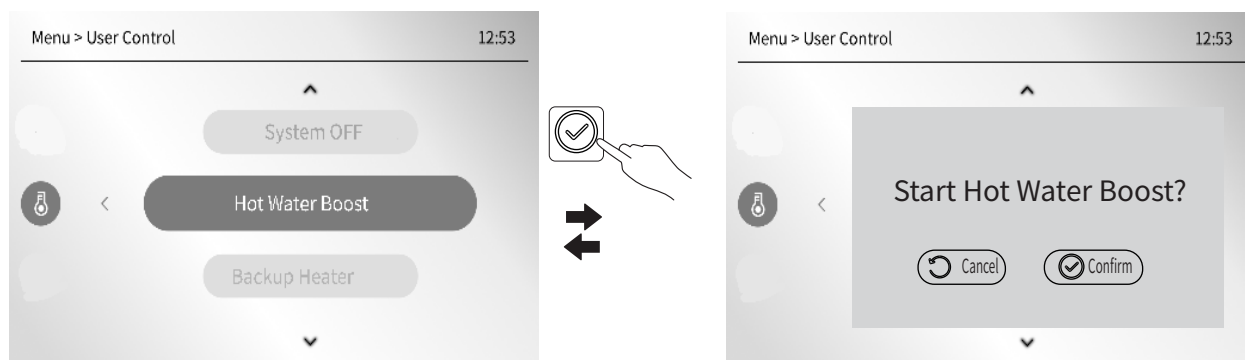
On any one page go to "☹☹☹ > User Control > System OFF", and then press ☑ to enable the function, ↺ to cancel the function.



6.9 Hot Water Boost

The function is used to force the system to operate in DHW mode. The unit and the booster or addition heater will operate for DHW mode together to attain the desired hot water temperature as fast as possible. This is a one-time function. If you want to use the function again, please reenale it.


On any one page go to "☹☹☹ > User Control > Hot Water Boost", and then press ☑ to enable or disable the function.

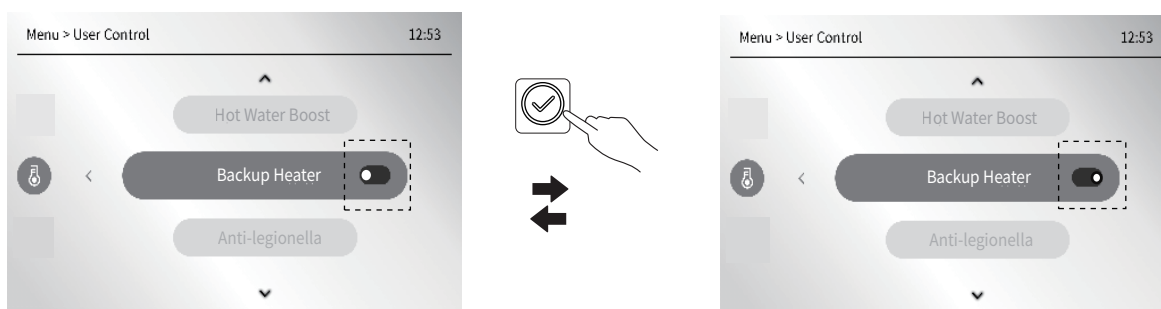


When the unit is operating on Hot Water Boost, you don't disable it, and the unit doesn't stop untill the desired hot water temperatre is getted.

6.10 Backup Heater

The function is used to force to turn on the internal heater, AHS or WTH.



On any one page go to " Menu > User Control > Backup Heater", and then press  to enable or disable the function.



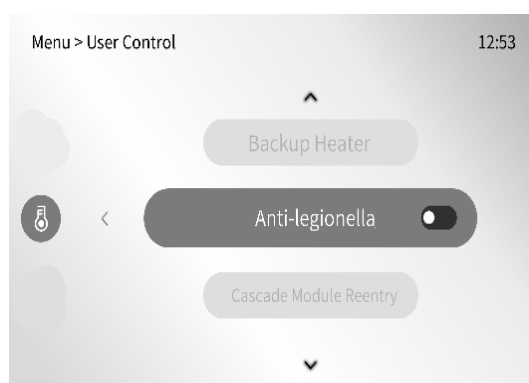
This function is a one-time effective. if you want to use the function again, please reenale it.
IPH=Internal pipe backup heater. AHS=Additonal heating source. WTH=Water tank heater.
For the units without IPH or AHS or WTH, please ignore the function.

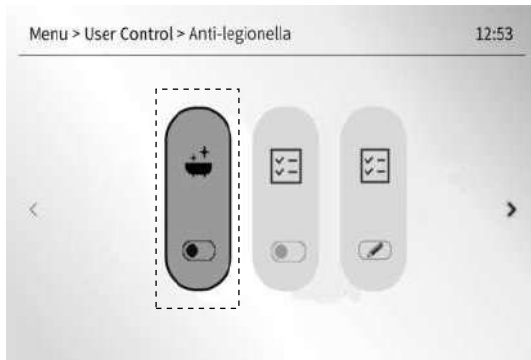
6.11 Anti-legionella

The functon is used to kill the legionella of domestic hot water tank. When you enable the function, DHW hot water temperature will reach 55°C~75°C forcedly.

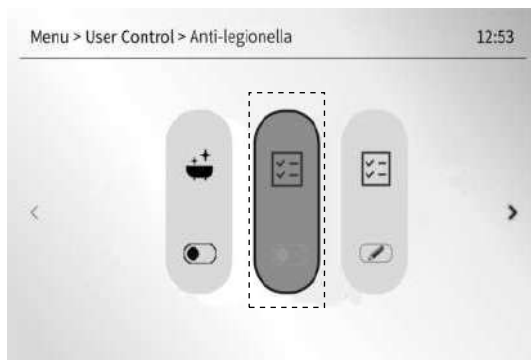
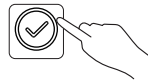
On any one page go to "  > User Control > Anti-legionella", and then press , you can :

- Set a manual Anti-legionella or schedule Anti-legionella operation.
Refer to Step 1 below to enable a manually Anti-legionella which is a one-time effective.
If you want to use Anti-legionella again, you must enable the funtion again.
- Enable the schedule of Anti-legionella operation
In order for Anti-legionella to operate as scheduled, you must first activate Anti-legionella operation schedule following the steps below, referring to Step 2 below for enabling it.

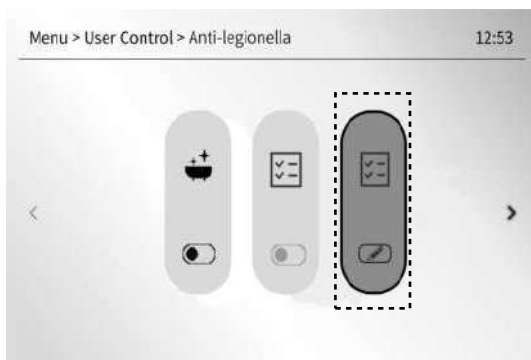
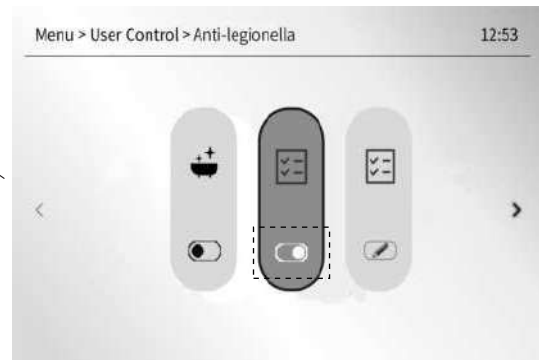
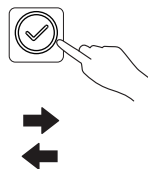




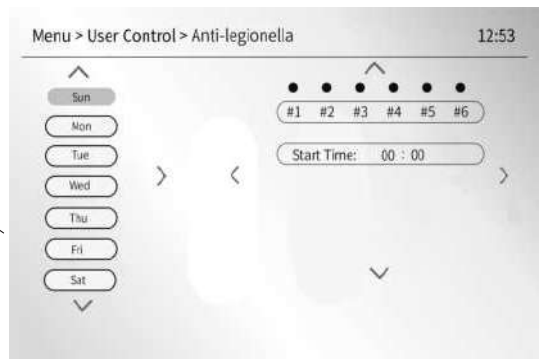
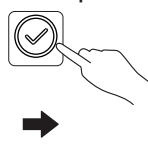
Step 1



Step 2



Step 3



- Schedule Anti-legionella operation

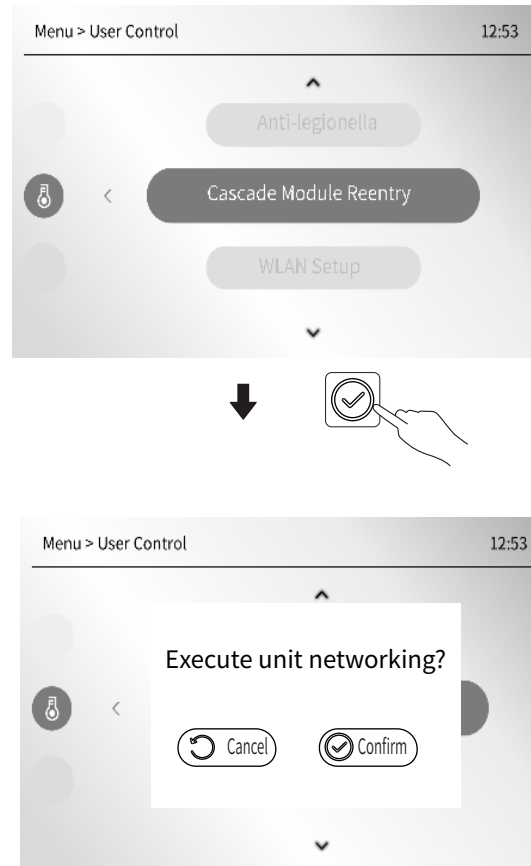
You can customize Anti-legionella's weekly operation schedule in exactly the same way as you would set up a weekly schedule for Quiet Mode, refer to Step 3 above for setting a desired schedule.

There are 6 timers from #1 to #6 in total, and each of the 6 timers has only a start time to be set. and each of the desired dates to be scheduled can share the same timer setting or has its own timer setting.

6.12 Cascade Module Reentry

In cascade application if one or more modules are offline, you can enable the function to make these offline modules to reentry cascade net.

On any one page go to "☰ > User Control > Cascade Module Reentre", and then press ⓧ to enable the function.



The interface will automatically recognize lost modules and rejoin them to the cascade network. After executing unit networking the interface will automatically back to main menu.

6.13 Zone1.Zone2.DHW Weekly Schedule

You can make or cancel a weekly schedule for the unit's space operation and DHW mode in exactly the sameway as you would set up a weekly schedule for Quiet Mode.

You can go to Zone 1 or Zone 2 or DHW by 5.5.2 to make a weekly schedule of the unit.

- The schedule to be made on Zone 1 can only be for Zone 1,not for Zone 2 and DHW, and vice versa.

6.13.1 How to go to Zone 1 to make a schedule of the unit

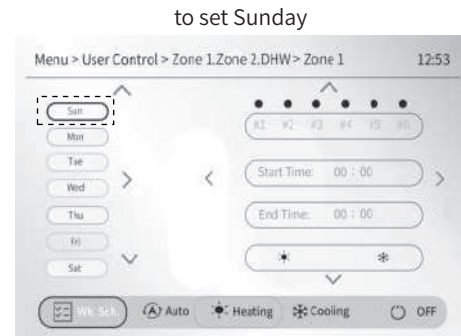
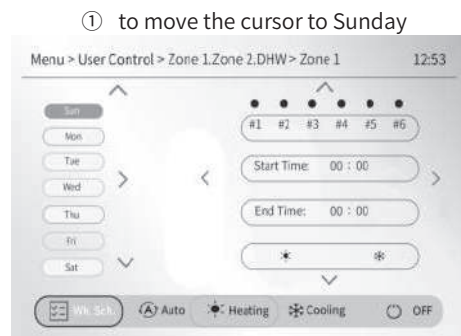
- Step 1- to go to set Zone 1 by 5.5.2.

to enable the schedule
Only when you enable the schedule
will Zone 1 operate on the schedule.

to Step 2

- Step 2- to set desired dates

Here are the steps to set two dates(Sunday and Wednesday) using Method A mentioned in the note of Section 6.3.



to go to Step 3: Setting one or several timers



to go to Step 4: Setting Start Time



to go to Step 5: Setting End Time

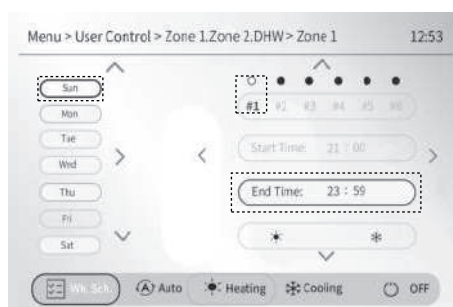


to go to Step 6: Setting desired mode and temperature to Zone 1

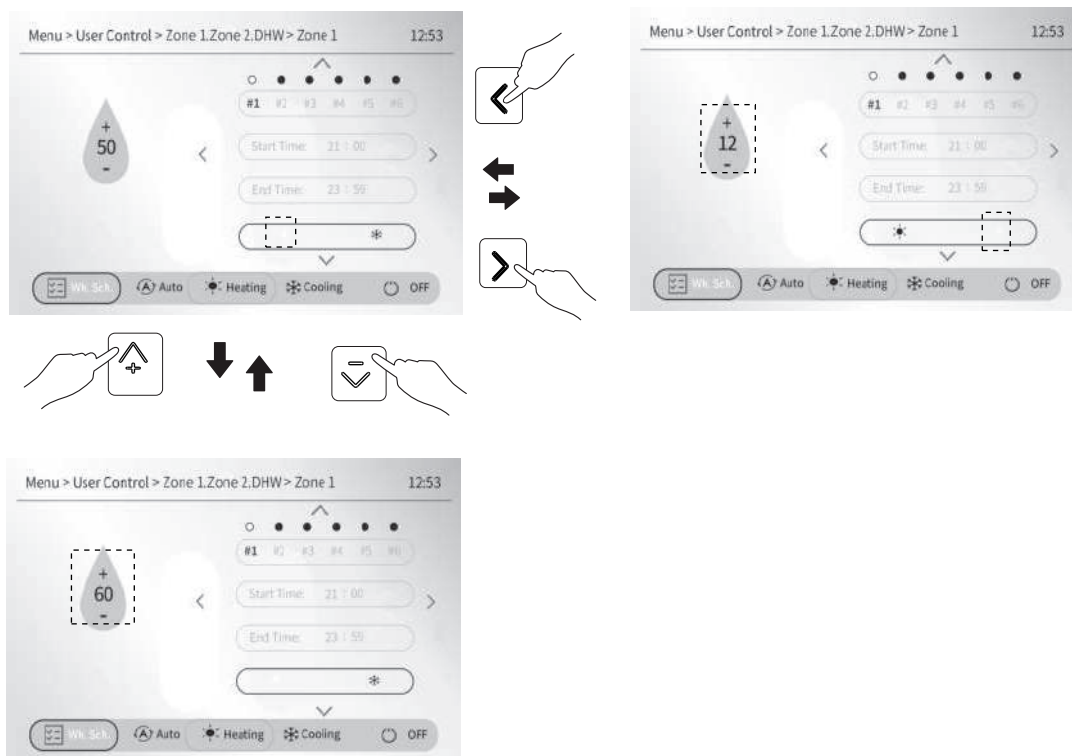
When you finished Step 7, press to save the setting, and then press back to Screen ① to select Wednesday by press up and down buttons, and then follow the steps of setting the schedule of the date Sunday. Friday's schedule can be different from Sunday's one, for example, there are 4 timers to be available on Sunday, but only 1 timers to be available on Sunday.

- Refer to Section 6.3 for the setting of Step 3 and Step 4 and Step5
- Step 6 - to set desired mode and temperature

Step5



to next page



6.13.2 How to go to Zone 2 to make a schedule of the unit

You can also go to Zone 2 to make a schedule of the unit by following Section 6.13.1.

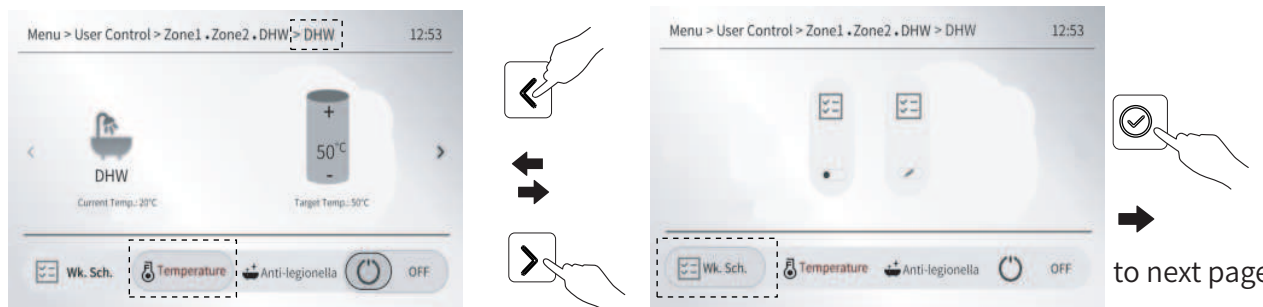
i INFORMATION

1. You have to reset WEEKLY SCHEDULE, if you change WATER FLOW TEMP. to the ROOM TEMP. or you change ROOM TEMP. to WATER FLOW TEMP.
2. If room thermostat is effective, WEEKLY SCHEDULE is invalid.
3. If the start time is the same as the end time in one timer, the timer is invalid.

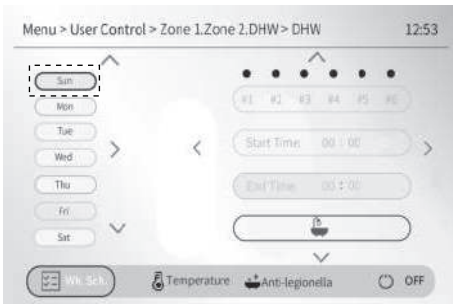
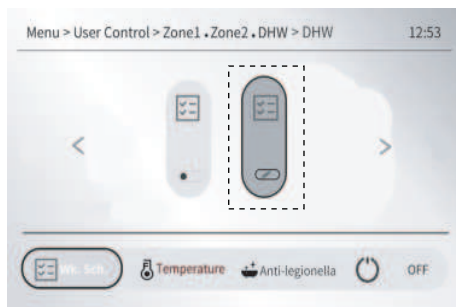
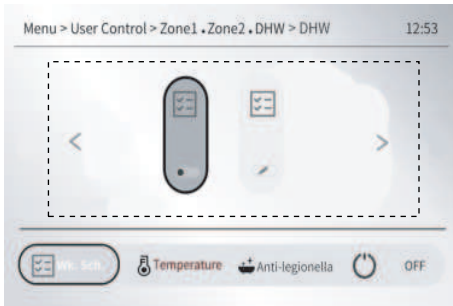
6.13.3 How to go to DHW to make a schedule of the unit

You can also go to DHW to make the schedule of the unit by following Section 6.13.1.

The following example is to show how to go to DHW to make a schedule of DHW mode.



to next page



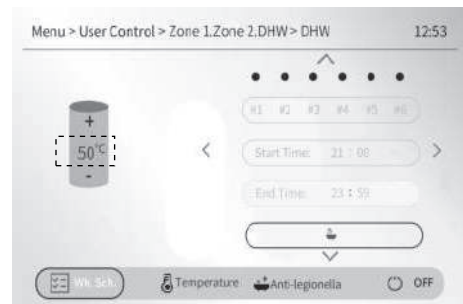
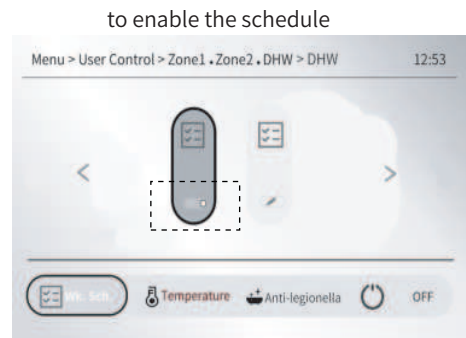
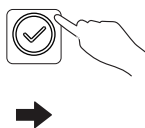
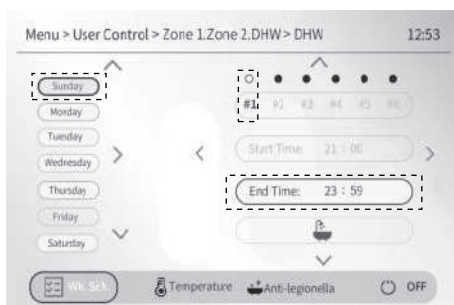
to go to set one or several timers



to go to set Start Time



to go to set End Time



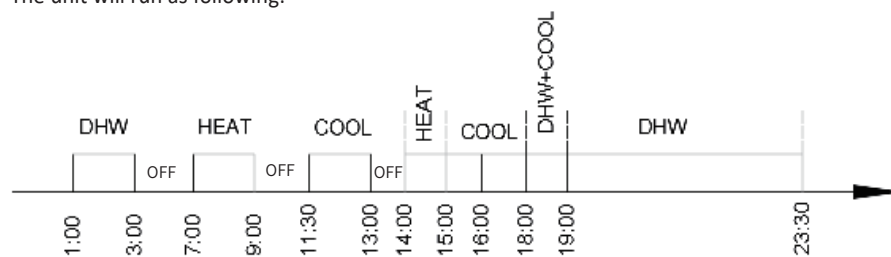
6.13.4 A example

For a example, the system has only DHW + a space operation zone. Refer to "☉ > Installer Level > System Parameter > TEMP. TYPE SET and ROOM THERMOSTAT".

Six timers are set as following:

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

The unit will run as following:



The operation of the controller at the following time:

TIME	The operation of the controller
1 : 00	DHW mode is turned ON
3 : 00	DHW mode is turned OFF
7 : 00	HEAT MODE is turned ON
9 : 00	HEAT MODE is turned OFF
11 : 30	COOL MODE is turned ON
13 : 00	COOL MODE is turned OFF
14 : 00	HEAT MODE is turned ON
15 : 00	COOL MODE is turned ON and HEAT MODE is turned OFF
18 : 00	DHW MODE and COOL MODE are turned ON
19 : 00	DHW MODE is turned ON
23 : 30	DHW mode is turned OFF

Note: If APP activates a Weekly Schedule, the weekly schedule of the interface is automatically deactivated or invalid.

6.14 About the Menu "Information"

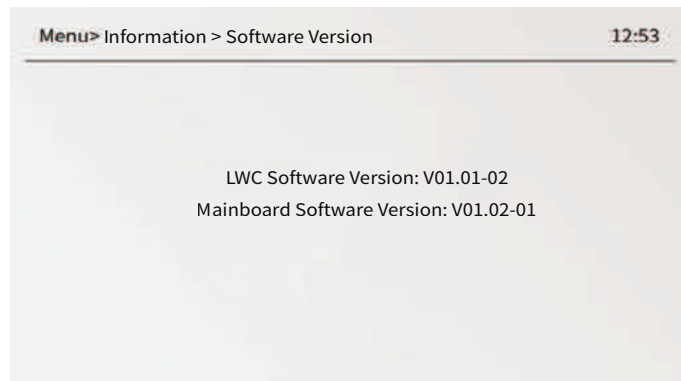
The menu "Information" is used to view the information of the unit:

- Software version of main PCB and wired controller.
- Energy information generated during unit operation.
- Real parameter value generated during unit operation.
- Overview of Weekly Schedule

6.14.1 Software Version

The function is to view the version of the software of wired controller and main control PCB.

On any one page go to "☉ > Information > Software Version", and then press ☑ to view:



6.14.2 Energy Information (Optional)

The function is used to provide with current or history energy data of heat pump below:

Heating capacity(kW)/ Power consumption(kW)/COP;

DHW capacity(kW)/ Power consumption(kW)/COP;

Cooling capacity(kW)/ Power consumption(kW)/EER;

These energy data are displayed as real-time values relative to current operation mode.

You can also view history energy data which are stored as cumulative average values by per hour, per day, per month, per year.

- How to go into "Energy Information"

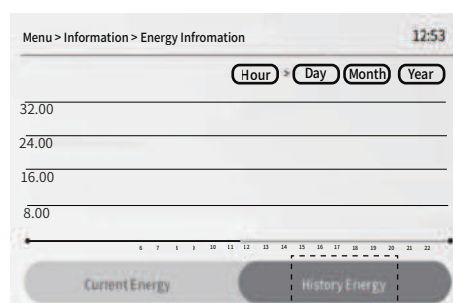
On any one page go to "☉ > Information > Energy information", and then press ☑ . You can view both current and historical energy data.

- Select to view current or historical energy information

Current energy data page

Menu>Information>Energy Information			
T4: -7°C	Tro: 7°C	TB: 10°C	TW: 20°C
Heating capacity	Power consumption	COP/EER	
12.2 kW	4.2kW	2.90	
DHW capacity	Power consumption	COP/EER	
10.8 kW	3.9kW	2.77	
Cooling capacity	Power consumption	COP/EER	
11.0 kW	4.0kW	2.75	

Current Energy History Energy



to next page

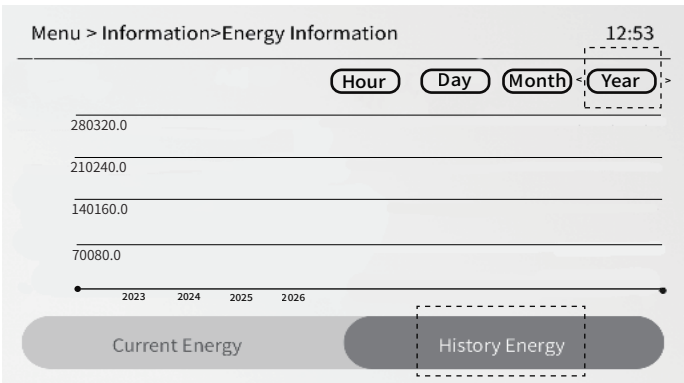
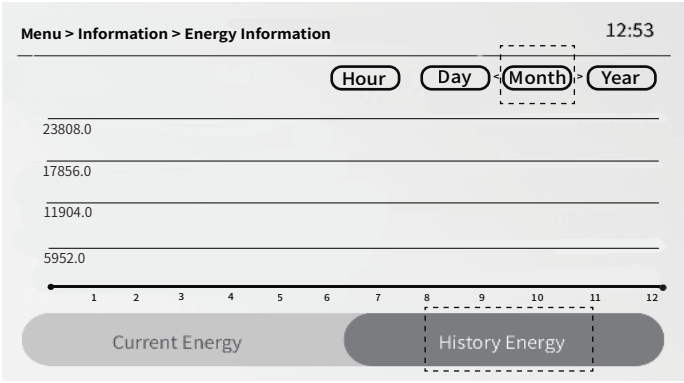
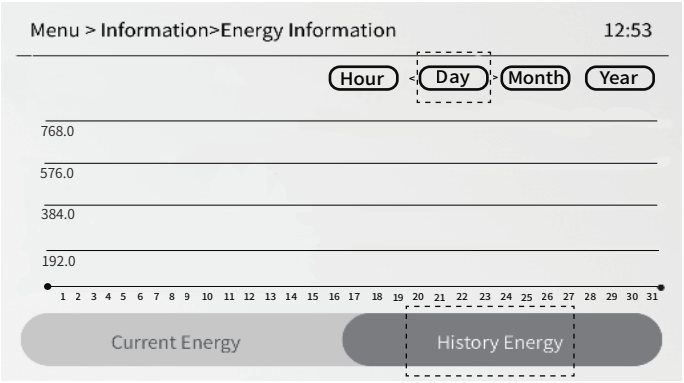
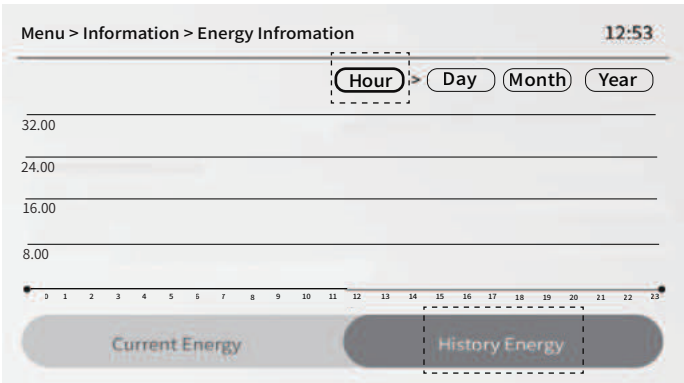
Current (real) Temp.:

T4: Outdoor Temp.

Tro: Room Temp. (detected by the temp. sensor inside wired controller)

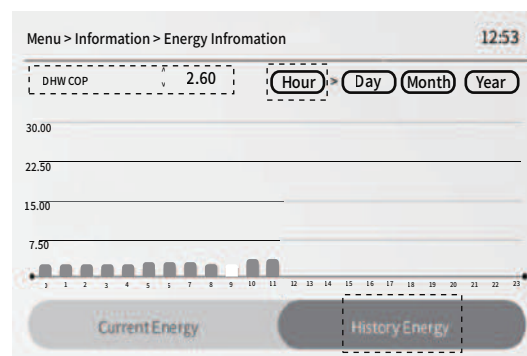
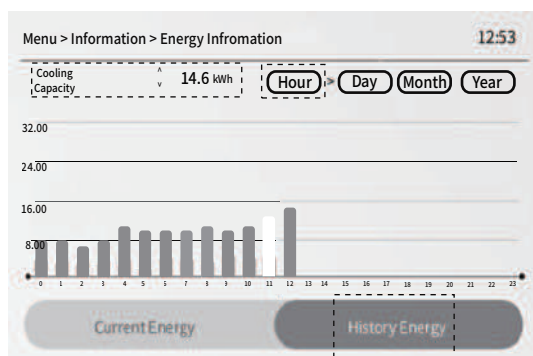
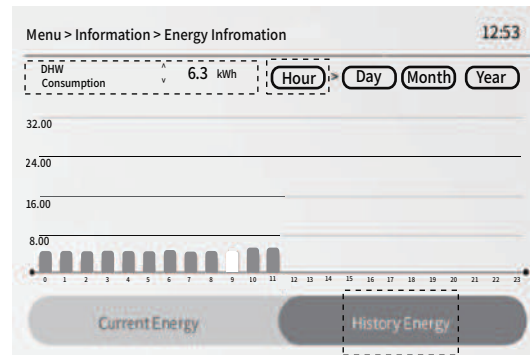
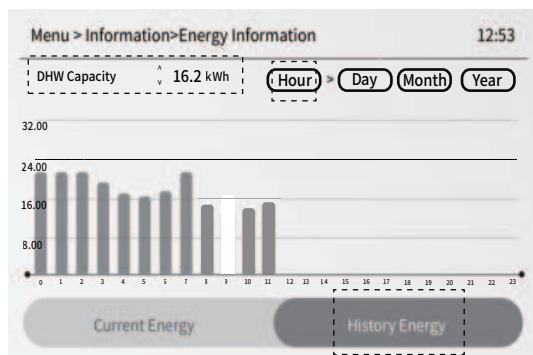
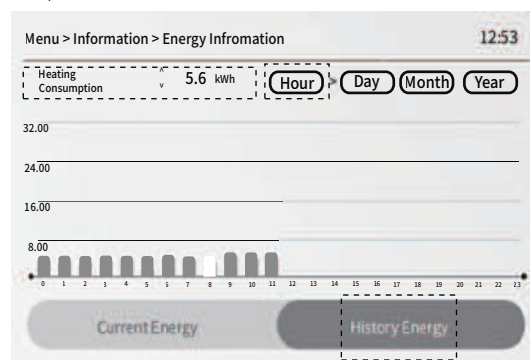
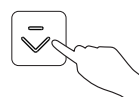
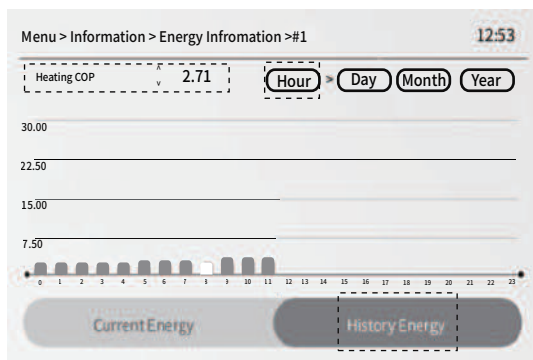
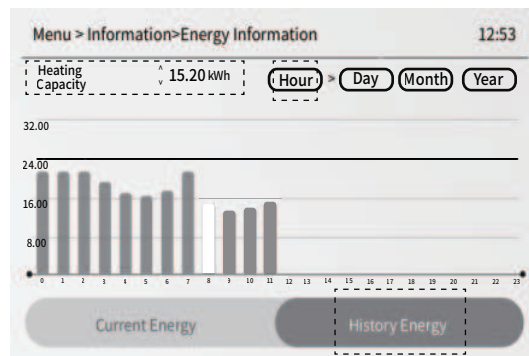
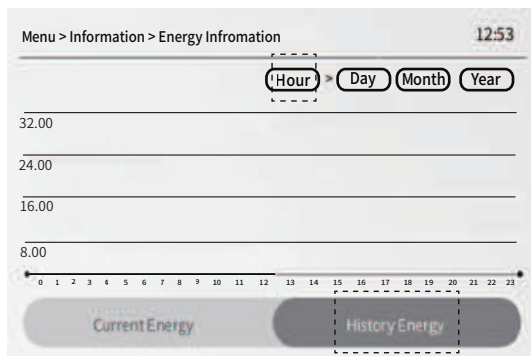
TB: leaving Water Temp.

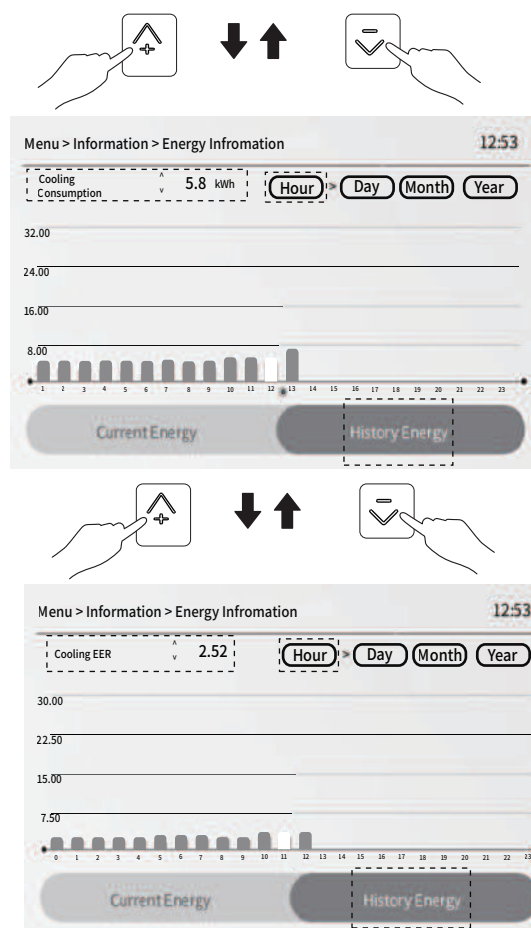
TW: DHW water Temp.



- View historical energy data by hourly, daily, monthly or yearly.

for example, when you want to view historical energy data by hour, you should follow the process described below.

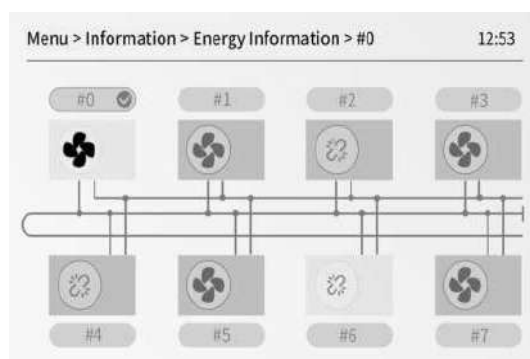




If you want to view historical energy data by per day, per month or per year, you should first go into historical energy pages of the day , month or year as described above, and then follow the same steps as viewing energy data by per hour.

The accuracy of temperature and the water flow rate detected by the sensors inside heat pump, sudden power failures and the transient nature of the operating conditions, etc, all these factors will all affected the accuracy of energy data.

For cascade application, on any one page go to "☉> Information > Energy Information > #1" the following page will appear:



and then press ⏪ or ⏩ to select the module to be viewed, press Ⓞ to confirm your choice.



- the normal module



- the lost module

6.14.3 Parameter View

The operation is for installer or service engineer reviewing the operation parameter.

On any one page go to "☉ > Information > Parameter View", and then press ☑ to enter menu, next to press 4 arrow buttons to view the operation parameter of the unit.

Menu > Information > Parameter View		20:20
<	MODEL	>
^		
01 UNIT MODEL: 9kW		
v		

Menu > Information > Parameter View		20:20
<	Refrigerant Side	>
^		
01 COMP. FREQUENCY: 60 Hz	05 DISCHARGE TEMP. TP: 55 °C	
02 EEV-1 OPEN: 200STEP	06 SUCTION TEMP. TH: 12 °C	
03 EEV-2 OPEN: N/A	07 COIL TEMP. T3: 56 °C	
04 AMBIENT TEMP. T4: 10 °C	08 LIQUID TEMP. T5: 30 °C	
v		

Menu > Information > Parameter View		20:20
<	Refrigerant Side	>
^		
09 LOW SAT. TEMP.: 8 °C	13 DISC. PRESSURE: 2400 kPa	
10 ECO. IN TEMP.: N/A	14 GAS LEAKAGE RATE: 0%LFL	
11 ECO. OUT TEMP.: N/A	15 4-WAY VALVE: OFF	
12 SUC. PRESSURE: 420 kPa	16 AC FAN: N/A	
v		

Menu > Information > Parameter View		20:20
<	Refrigerant Side	>
^		
17 OIL RETURN: OFF	21 DC FAN SPEED 1: 750RPM	
18 MP SWITCH: OFF	22 DC FAN SPEED 2: 750 RPM	
19 CRANKCASE HEATER: OFF		
20 CHASSIS HEATER: OFF		
v		

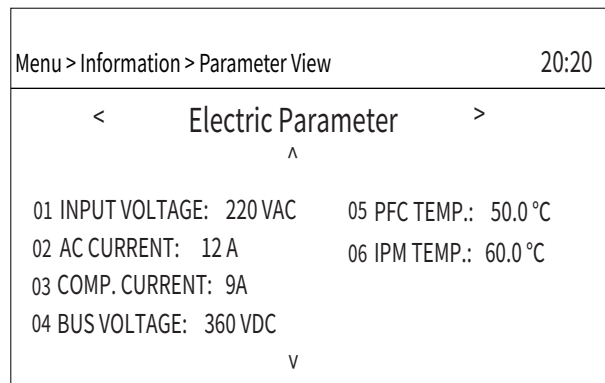
Menu > Information > Parameter View		20:20
<div> <div><</div> <div>Water Side</div> <div>></div> </div> <div>^</div>		
01 OUT WATER TEMP. TB: 36.0 °C	05 IN WATER PRE.: N/A	
02 IN WATER TEMP. TA: 20.0 °C	06 OUT WATER PRE.: 2.0 bar	
03 DHW TANK TEMP.: 52.0 °C	07 WATER FLOW: 1.5 (m3/h)	
04 ROOM TEMP. Tro: 28.3 °C	08 WATER FLOW PWM: 30 %	
v		

Menu > Information > Parameter View		20:20
<div> <div><</div> <div>Water Side</div> <div>></div> </div> <div>^</div>		
09 I-PUMP OUTPUT: 29 %	13 H-B CURVE TEMP.: 52.0 °C	
10 C-A CURVE TEMP.: 12.0 °C	14 FINAL TEMP. TC: 00.0 °C	
11 H-A CURVE TEMP.: 52.0 °C	15 SOLAR TEMP. Tso: 80.0 °C	
12 C-B CURVE TEMP.: 12.0 °C	16 BUFFER TEMP. TE1: 00.0 °C	
v		

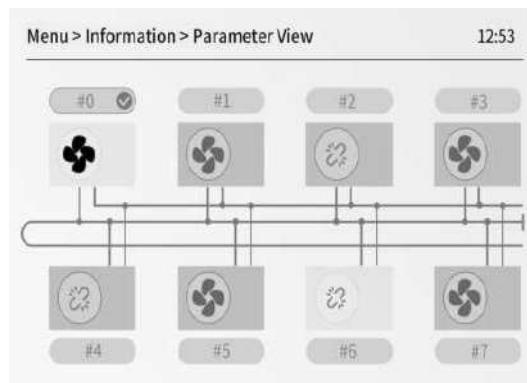
Menu > Information > Parameter View		20:20
<div> <div><</div> <div>Water Side</div> <div>></div> </div> <div>^</div>		
17 BUFFER TEMP. TE2: 60.0 °C	21 IPH HEATER: OFF	
18 MIX IN TEMP. TZ2: 24.9 °C	22 I-BUF. HEATER: OFF	
19 I-BUF. TEMP. TE3: 60.0 °C	23 TANK HEATER: OFF	
20 PWM PUMP.: OFF	24 PLATE HEATER: OFF	
v		

Menu > Information > Parameter View		20:20
<div> <div><</div> <div>Water Side</div> <div>></div> </div> <div>^</div>		
25 SV1 STATUS: OFF	29 B_ZONE P_c: OFF	
26 SV2 STATUS: OFF	30 P_d: OFF	
27 SV3 STATUS: OFF	31 AHS: OFF	
28 P_o: OFF	32 P_s: OFF	
v		

Menu > Information > Parameter View		20:20
<div> <div><</div> <div>Water Side</div> <div>></div> </div> <div>^</div>		
33 SG: 0		
v		



For cascade application, on any one page go to "☰ > Information > Parameter View", the following page will appear:



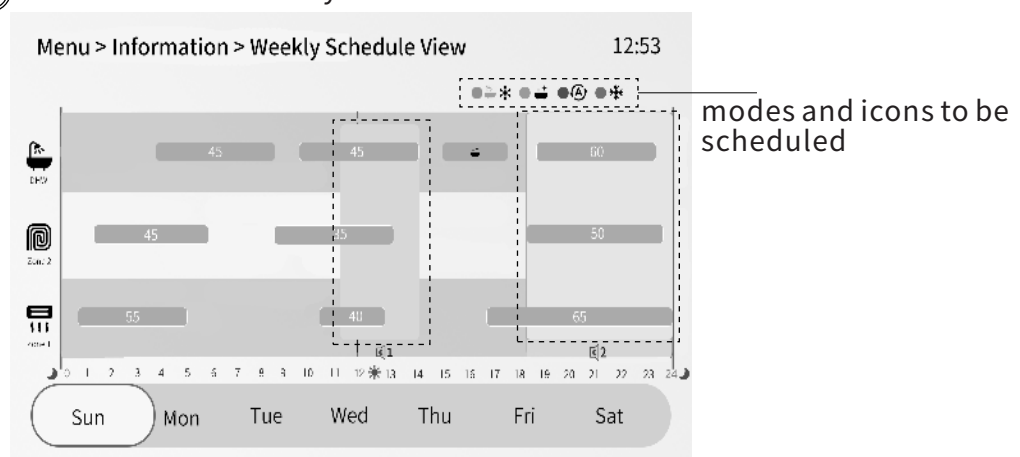
Press \langle or \rangle to select the module to be viewed, and then press \odot to confirm your choice.


means the normal module.

means the lost module.

6.14.4 Weekly Schedule View

The function is used to check weekly schedules of quiet mode and space operation and DHW mode. Go to "☉☉☉ > Information > Weekly Schedule View" to view the schedule.



The picture above is the example of the schedule of Sunday. Press < or > to go to other dates, and then press  to view the schedule of the date.

There are three schedules of the operation mode, zone 1, zone 2 and DHW.

Figures mean desired temperature.

rectangular frames with rounded corners mean the timers.

Two dotted frames mean scheduling quiet mode 1 and 2.

By reviewing the schedule you can adjust it to your needs.

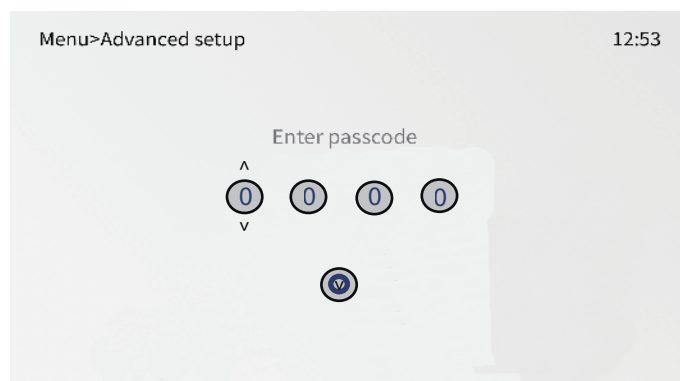
6.15 About the menu "Installer Level"

Installer Level is used for installer and service engineer.

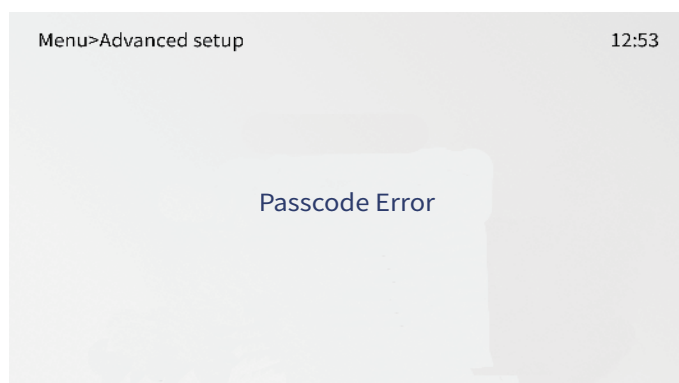
- Setting the function of the unit
- Setting the parameters.

6.15.1 How to go to the menu "Installer Level "

Go to "⊙⊙⊙" > "Installer Level", and then press "⊙✓", the following page will:



please enter the correct passcode, if the passcode is incorrect, the following page will appear:





Please reenter the correct password.

- Installer Level is used for installer or service engineer. It is NOT intended for the home owner changing the setting of the items of the menu.
- It is for this reason password protection is required to prevent unauthorized access to the service settings.
- The password is 1212.


i INFORMATION

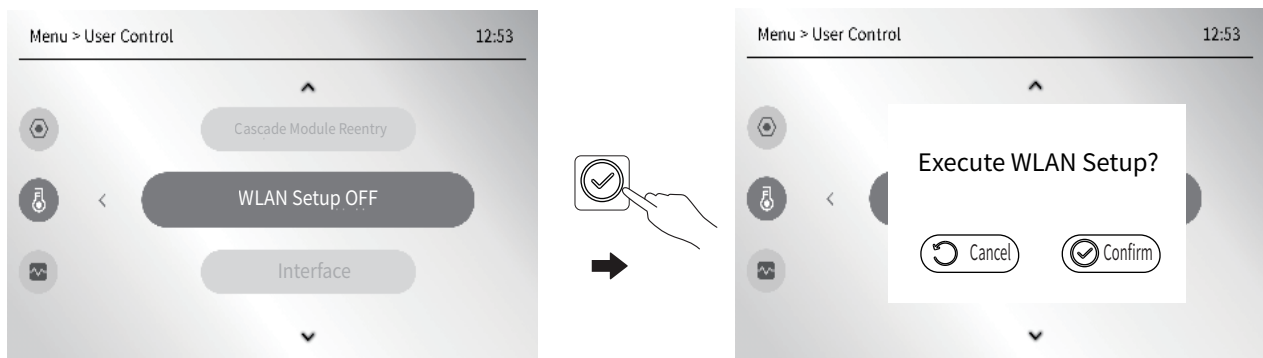
The unit must be turn off before you enter Instller Level menu. After exiting the menu setting, the unit must be power off, and then be power on again in tenseconds.

6.16 WLAN Setup

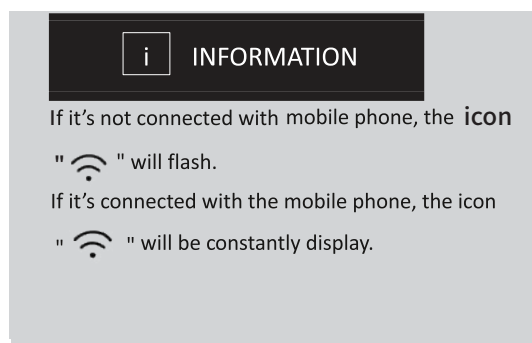
- The wired controller realizes intelligent control with a built in module, which receives control signal from the APP.
- Before connecting the WLAN, please check for it if the router in your environment is active and make sure that the wired controller is well connected to the wireless signal.
- During the Wireless distribution process, the LCD icon  flashes to indicate that the network is being deployed. After the process is completed, the icon  will be constantly on.

6.16.1 Wired Controller Setting

Activate **WLAN** by interface. Go to  > "User Control" > "WLAN Setup", and then press .



Press  exit WLAN Setup,  excute a WLAN Setup net connection.



6.16.2 Mobile Device Setting

• Connecting WLAN:

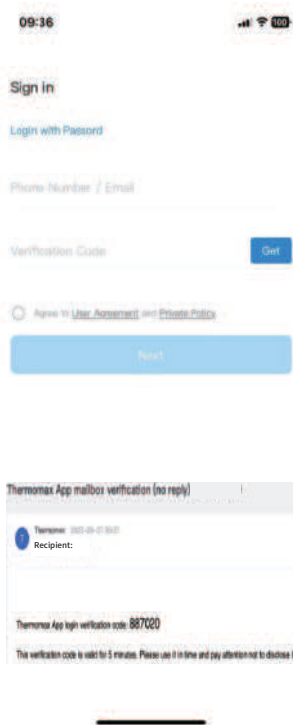
(1) Install APP

Please research "thermomax" in APP STORE or GOOGLE PLAY to install the APP

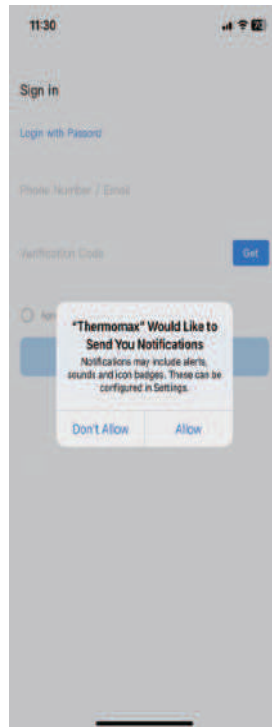
(2) ADD DEVICE

Refer to the figures below to add the device in numerical orders:

1. Sign in

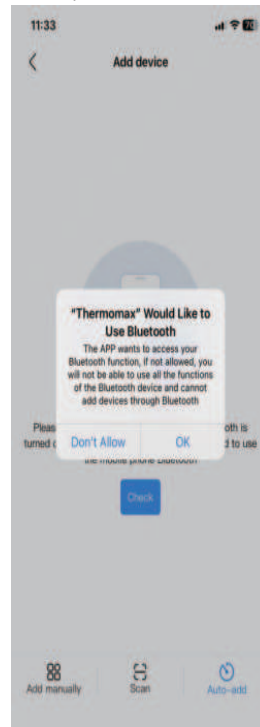


Allow notification

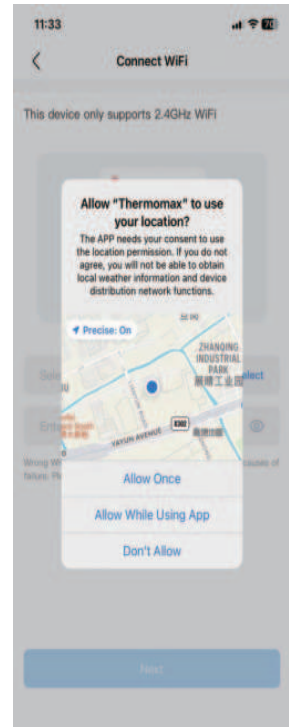


2. Permissions

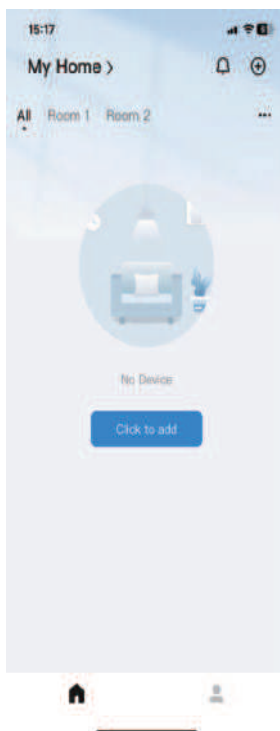
Open the Bluetooth



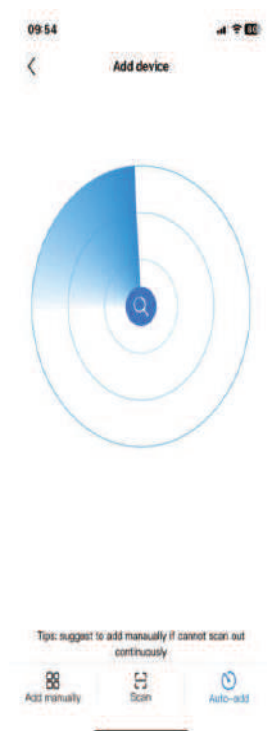
Allow the location



3. Add device



4. Auto-add



5. Connect WiFi



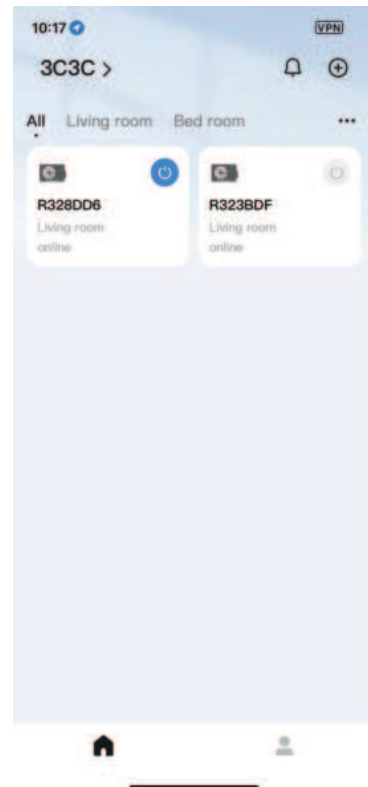
6.Connect device




7.Configure the room



8.Finish add device



After the appliance is successfully connected, the LCD icon  of the wired controller is constantly on, and the heat pump can be controlled through the APP.

The operations above are for reference only; the real operations may be different from it.



Warning and troubleshooting for networking failure

When the product is connected to the network, please make sure that the phone is as close as possible to the product.

We only support 2.4GHz band routers at present.

Special characters (punctuation, spaces, etc.) are not recommended as part of the WLAN name.

It is recommended that the number of devices connected to a router should be appropriate lest home appliances are affected by weak or unstable network signal.

If the password of the router or WLAN is changed, clear all settings and reset the appliance.

The contents of the APP might change in version updates and actual operation shall prevail.

7 Weather Compensation table

Table 4 the environment temperature curve of the low temperature setting for heating

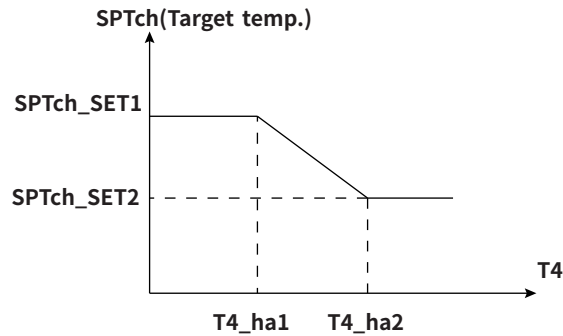
T4	≤ -20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1-SPTc	38	38	38	38	38	37	37	37	37	37	37	36	36	36	36	36	36	35	35	35	35
2-SPTc	37	37	37	37	37	36	36	36	36	36	36	35	35	35	35	35	35	34	34	34	34
3-SPTc	36	36	36	35	35	35	35	35	35	34	34	34	34	34	34	33	33	33	33	33	33
4-SPTc	35	35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

Table 5 the environment temperature curve of the high temperature setting for heating

T4	≤ -20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1-SPTc	55	55	55	55	54	54	54	54	54	54	54	54	53	53	53	53	53	53	53	53	52
2-SPTc	53	53	53	53	52	52	52	52	52	52	52	52	51	51	51	51	51	51	51	51	50
3-SPTc	52	52	52	52	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	49
4-SPTc	50	50	50	50	49	49	49	49	49	49	49	49	48	48	48	48	48	48	48	48	47
5-SPTc	48	48	48	48	47	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	45
6-SPTc	45	45	45	45	44	44	44	44	44	44	44	44	43	43	43	43	43	43	43	43	42
7-SPTc	43	43	43	43	42	42	42	42	42	42	42	42	41	41	41	41	41	41	41	41	40
8-SPTc	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-SPTc	52	52	52	52	52	52	52	51	51	51	51	51	51	51	51	50	50	50	50	50	50
2-SPTc	50	50	50	50	50	50	50	49	49	49	49	49	49	49	49	48	48	48	48	48	48
3-SPTc	49	49	49	49	49	49	49	48	48	48	48	48	48	48	48	47	47	47	47	47	47
4-SPTc	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	45	45	45	45	45	45
5-SPTc	45	45	45	45	45	45	45	44	44	44	44	44	44	44	44	43	43	43	43	43	43
6-SPTc	42	42	42	42	42	42	42	41	41	41	41	41	41	41	41	40	40	40	40	40	40
7-SPTc	40	40	40	40	40	40	40	39	39	39	39	39	39	39	39	38	38	38	38	38	38
8-SPTc	37	37	37	37	37	37	37	36	36	36	36	36	36	36	36	35	35	35	35	35	35

The heating automatic setting curve:

The automatic setting curve is the ninth curve, this is the calculation:



State: In the setting the wired controller, if $T4_ha2 < T4_ha1$, then exchange their value; if $SPTch_SET1 < SPTch_SET2$, then exchange their value.

Table 6 the environment temperature curve of the low temperature setting for cooling

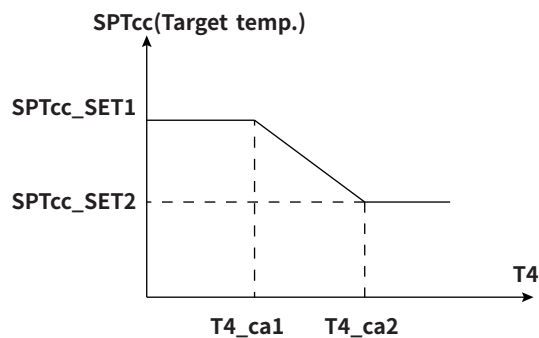
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4$
1-SPTc	16	11	8	7
2-SPTc	17	12	9	7
3-SPTc	18	13	10	7
4-SPTc	19	14	11	8
5-SPTc	20	15	12	9
6-SPTc	21	16	13	10
7-SPTc	22	17	14	11
8-SPTc	23	18	15	12

Table 7 the environment temperature curve of the high temperature setting for cooling

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

The cooling automatic setting curve:

The automatic setting curve is the ninth curve, this is the calculation:



State: In the setting the wired controller, if $T4_ca2 < T4_ca1$, then exchange their value; if $SPTcc_SET1 < SPTcc_SET2$, then exchange their value.

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