

OPERATION MANUAL

Central Heat Pump Heater Wire Controller

aqua/termic

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

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wiring controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.

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1 GENERAL SAFETY PRECAUTIONS

1.1 About the documentation

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

1.1.1 Meaning of warnings and symbols



DANGER

Indicates a situation that results in death or serious injury.



DANGER: RISK OF ELECTROCUTION

Indicates a situation that could result in electrocution.



DANGER: RISK OF BURNING

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



WARNING

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



CAUTION

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



NOTICE

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.

- Units are marked with the following symbol:

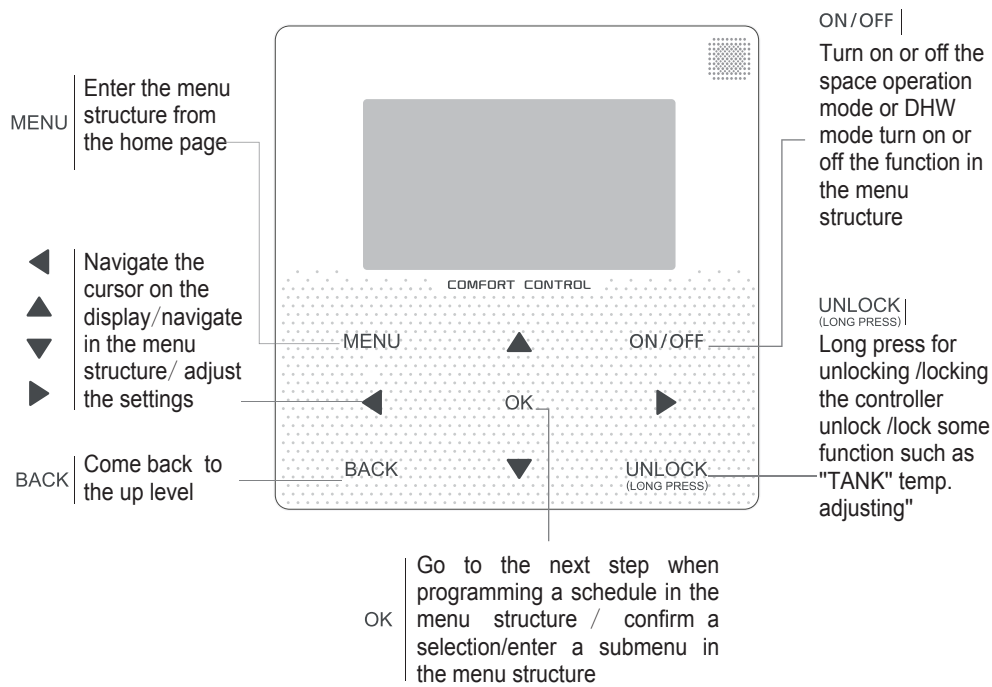


This means that electrical and electronic products may not be mixed with unsorted household waste. Do NOT try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable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

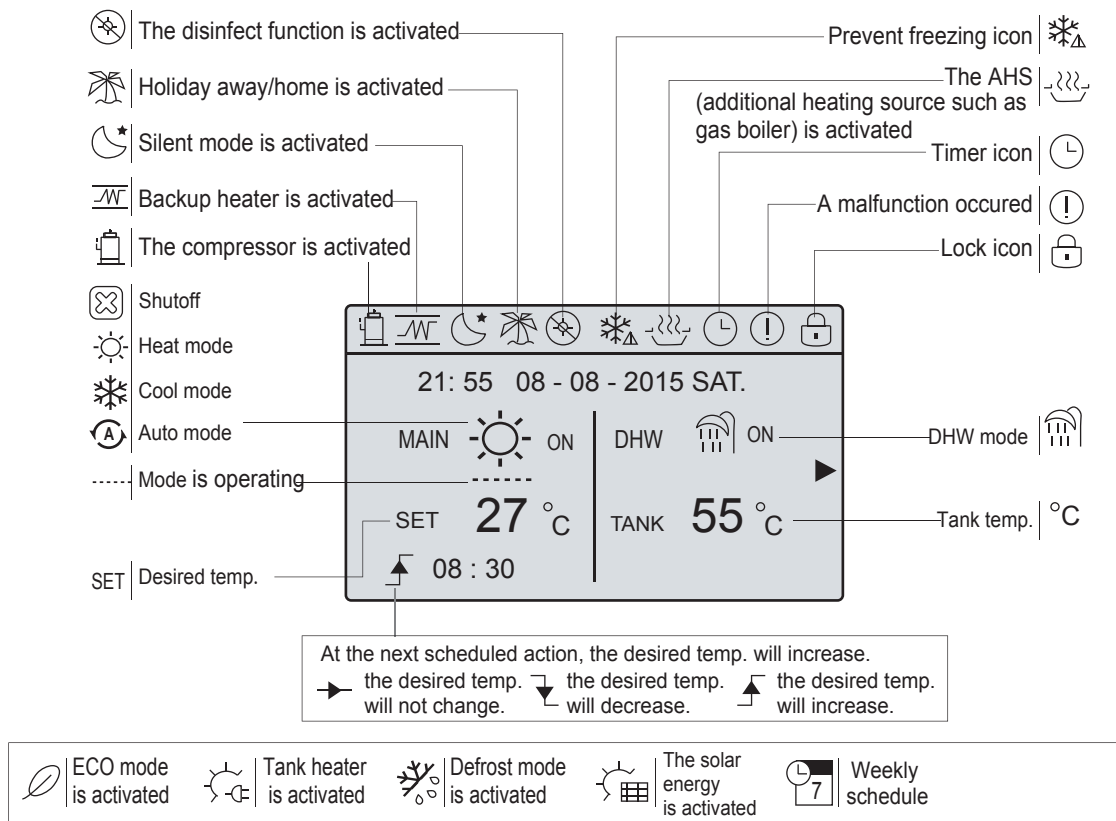
- Placed in a location away from radiation.

2 A GLANCE OF THE USER INTERFACE

2.1 The appearance of the wire control device



2.2 Status icons



3 USING HOME PAGES

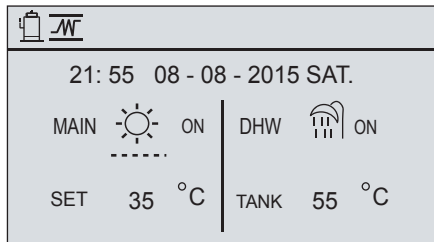
3.1 About home pages

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

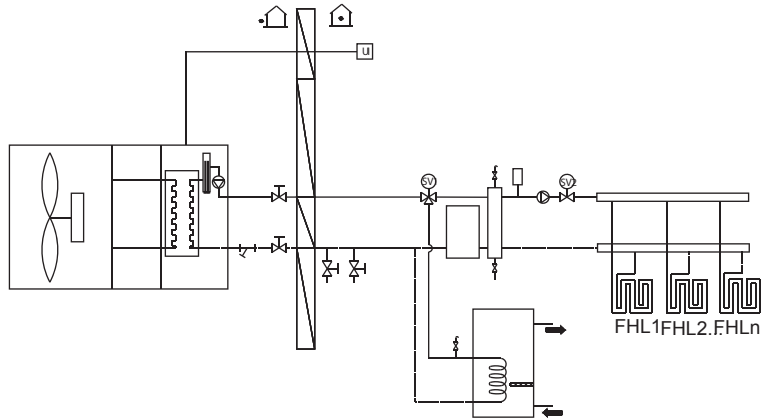
■ Room temperature (ROOM) ■ Water flow temperature (MAIN) ■ DHW tank temperature (TANK) DHW=domestic hot water

① home page1:

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



the system layout 1

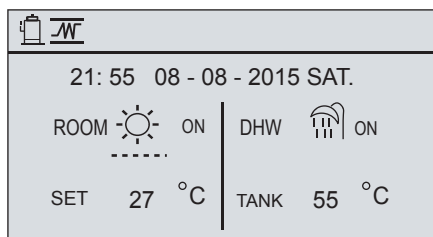


NOTE:

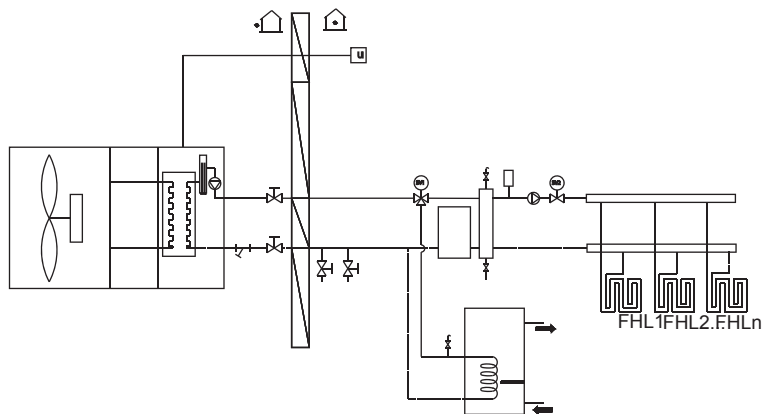
All the pictures in the manual are used to explain, the actual pages in the screen maybe have some difference.

② home page2:

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



the system layout 2

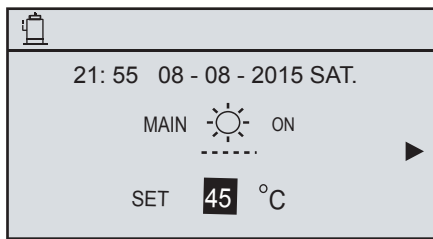


NOTE:

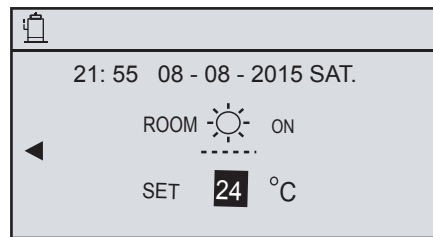
The interface should be installed in the floor heating room to check the room temperature.

③ home page3:

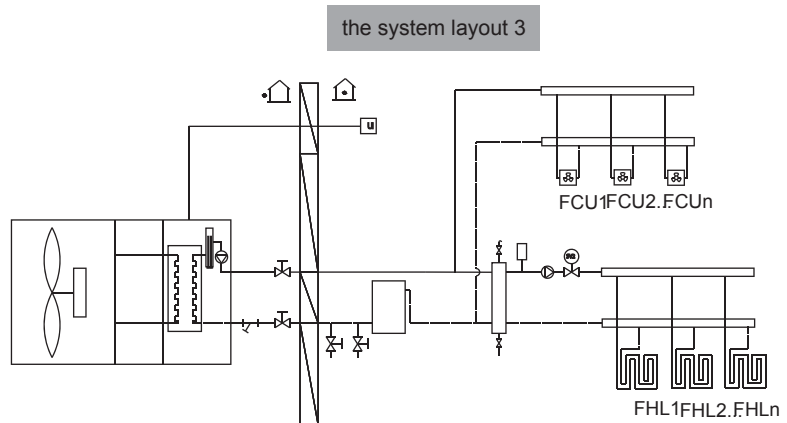
If the WATER FLOW TEMP. is set YES and ROOM TEMP. is set YES(See FOR SERVICEMAN TEMPERATURE TYPE SETTING on installation & owner's manual) . There will be main page and additional. page. The system has the function including floor heating and space cooling for fan coil. The page will appear:



Main page

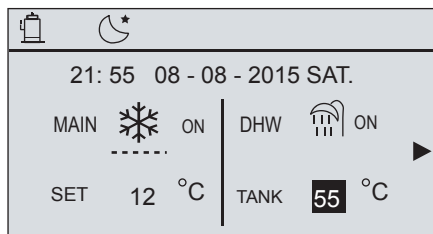


ADDITION PAGE

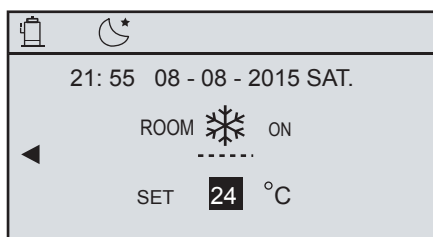
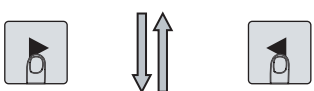


④ home page4:

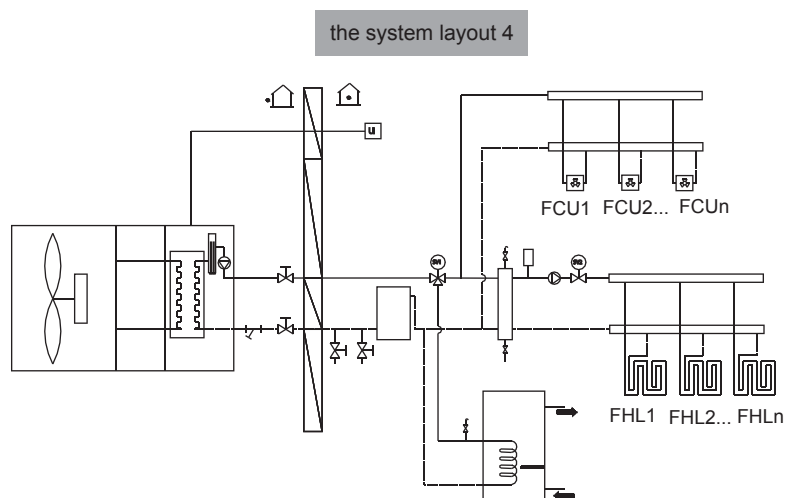
If the WATER FLOW TEMP. is set YES and ROOM TEMP. is set YES. There will be main page and addition page. The system has the function including floor heating, space cooling for fan coil and domestic hot water. The page will appear:



MAIN PAGE



ADDITION PAGE



4 MENU

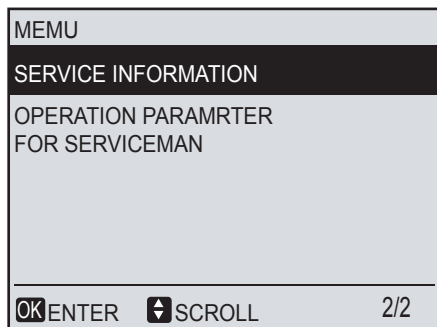
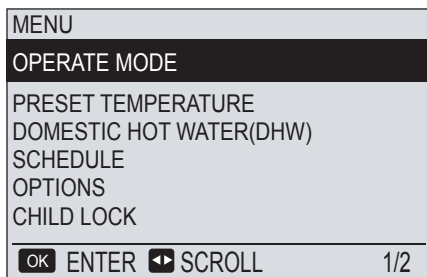
4.1 About the menu structure

You can use the menu structure to read out and configure settings that are NOT meant for daily usage. What you can see and do in the menu structure is described where applicable. For an overview of the menu structure, see "7 Menu structure: Overview".

4.2 To go to the menu structure

From a home page, press "MENU".

Result: The menu structure appear:




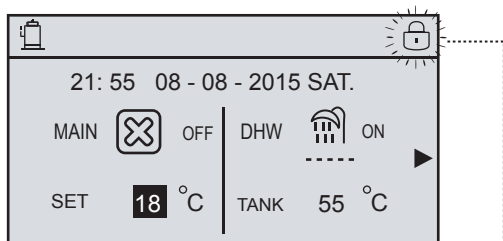
4.3 To navigate in the menu structure



Use "▼", "▲" to scroll.

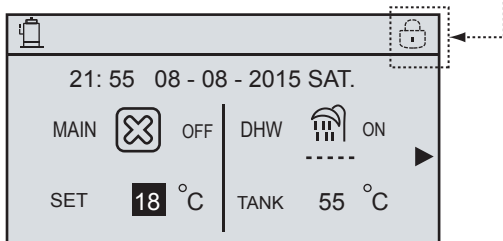
5 BASIC USAGE

5.1 Screen Unlock

If the icon  is on the screen, the controller is locked. The page is displayed:

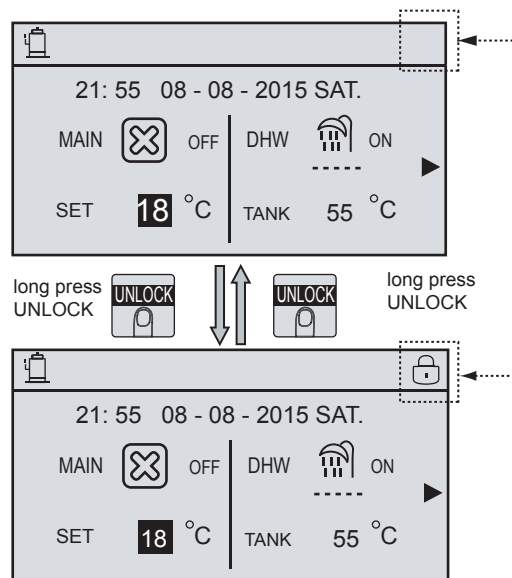


Press any key, the icon  will flash. Long press the "UNLOCK" key. The icon  will disappear, the interface can be controlled.



The interface will be locked if there is no handling for a long time (about 60 seconds); it can be set by the interface, see 6.7 SERVICE INFORMATION.)

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

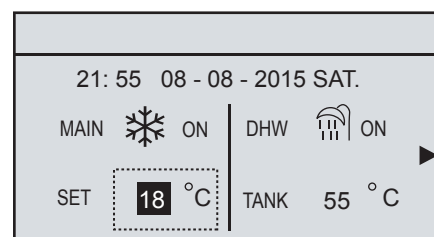





5.2 Turning ON/OFF controls

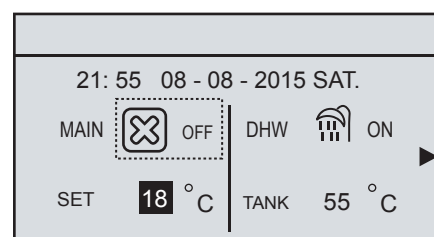
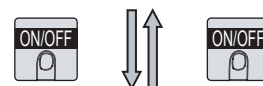
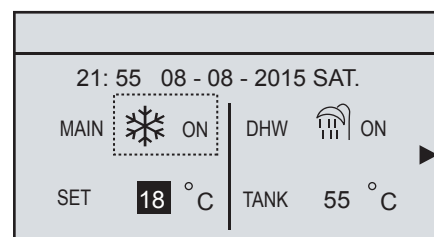
Use the interface to turn on or off the unit for space heating or cooling.

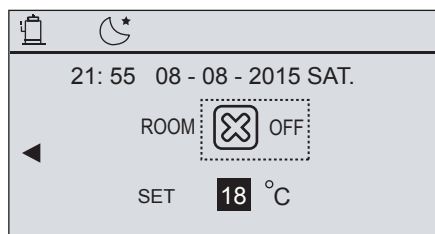
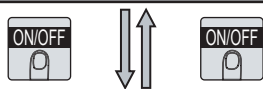
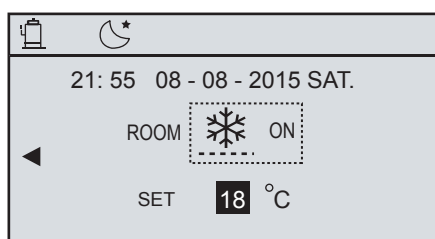
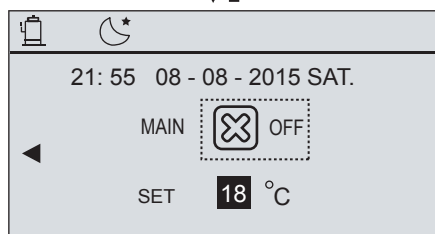
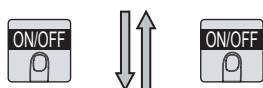
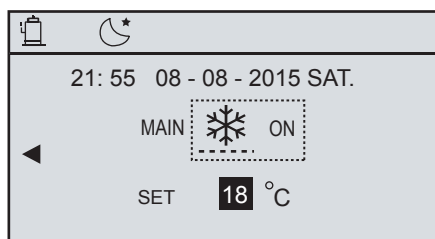
■ The ON/OFF of the unit can be controlled by the interface if the ROOM THERMOSTAT is NON. (see ROOM THERMOSTAT SETTING on INSTALLATION & OWNER'S MANUAL)

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



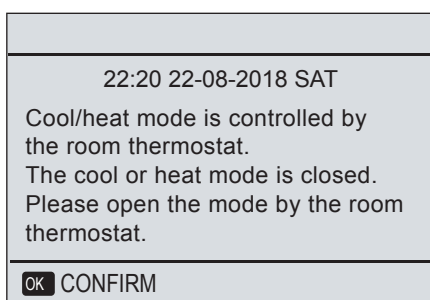
1) When the cursor is on space operation mode side (Including heat mode , cool mode  and auto mode ) , press "ON/OFF" key to turn on/off the operation mode .



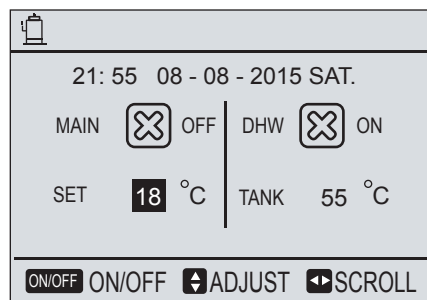


Use the room thermostat to turn on or off the unit for space heating or cooling.

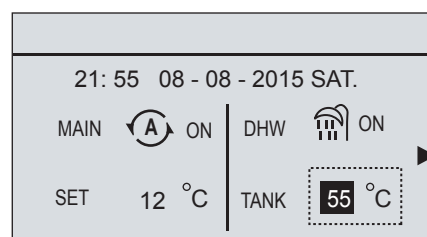
① The room thermostat is SET YES(see ROOM THERMOSTAT on installation & owner's manual) the unit is turned on or off by the room thermostat, press on/off on the interface the page will display:



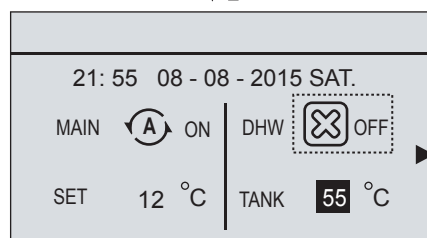
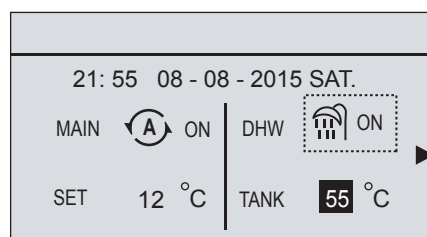
② DUAL ROOM THERMOSTAT is set YES(see ROOM THERMOSTAT SETTING on INSTALLATION & OWNER'S MANUAL).The room thermostat for fan coil is turned off ,the room thermostat for the floor heating is turned on,and the unit is running, but the display is OFF. The page is displayed:



Use the interface to turn on or off the unit for DHW. Press "▶", "▼" on home page, the black cursor will appear:

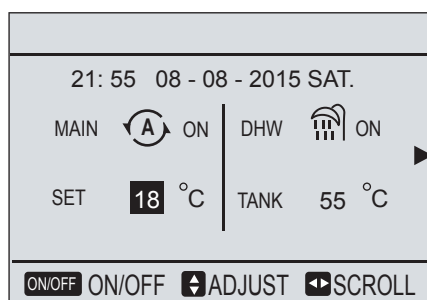


2) When the cursor is on DHW operation mode. Press "ON/OFF" key to turn on/off the DHW mode.

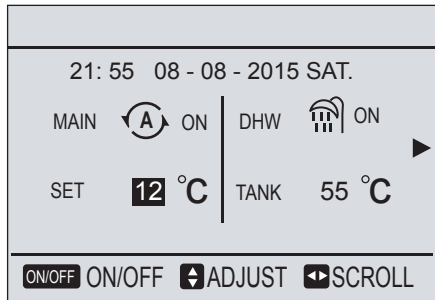
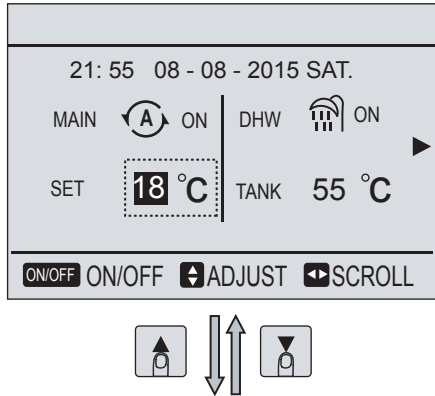
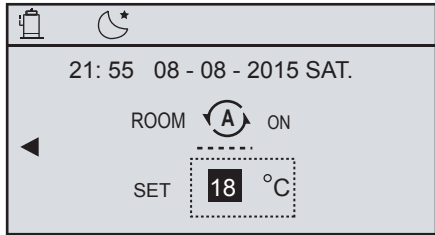
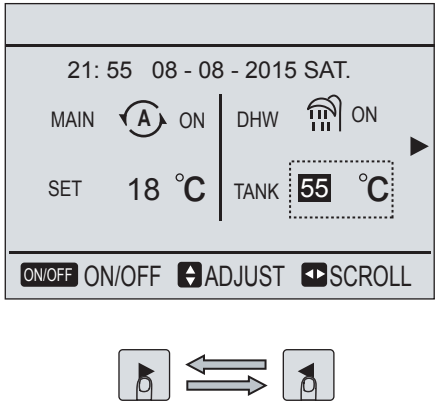
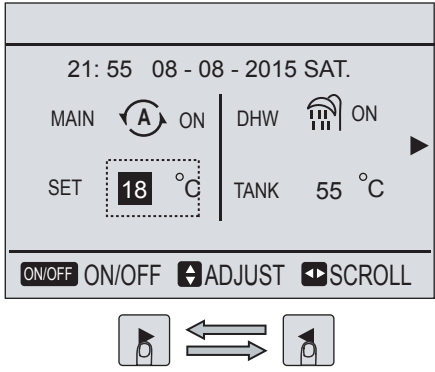


5.3 Adjusting the temperature

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

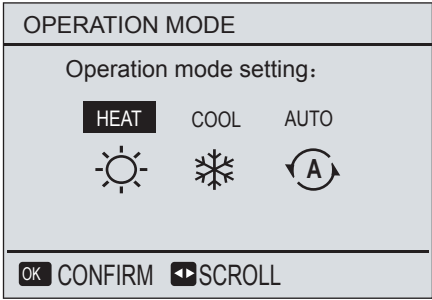


■ If the cursor is on the temperature, use the "◀", "▶" to select and use "▼", "▲" to adjust the temperature.



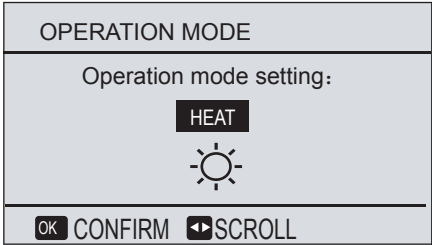
5.4 Adjusting space operation mode

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






■ There are three modes to be selected including heat, cool and auto. mode. Use the "◀", "▶" to scroll, press "OK" to select. Even you don't press OK button and exit the page by pressing BACK button, the mode is also effective if the cursor have be moved to the operation mode.

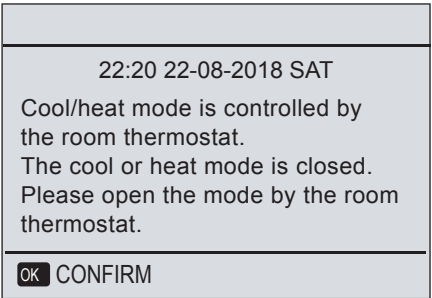
If there is only heat(cool) mode, the page will appear:



■ The operation mode can not be changed
see cool MODE SETTING on installation owner's manual.

If you select...	Then the space operation mode is...
 heat	Always heat mode
 cool	Always cool mode
 auto	Automatically changed by the software based on the outdoor temperature (and depending on installer settings also the indoor temperature), and takes monthly restrictions into account. Note: Automatic changeover is only possible under certain conditions. See the FOR SERVICEMAN> AUTO MODE SETTING on installation & owner's manual.

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



6 MENU

6.1 Operation Mode

See "5.4 OPERATION MODE".

6.2 Preset Temperature

PRESET TEMPERATURER has PRESET TEMP\WEATHER TEMP.SET\ECO MODE 3 items.

6.2.1 PRESET TEMP.

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

■ PRESET TEMP.=PRESET TEMPERATURER

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

1) AUTO mode is running.

2) TIMER or WEEKLY SCHEDULE is running.

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

The following page will appear:

PRESET TEMPERATURE			
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE	
NO.	TIME	TEMPER	
1 <input type="checkbox"/>	00:00	25°C	
2 <input type="checkbox"/>	00:00	25°C	
3 <input type="checkbox"/>	00:00	25°C	
SCROLL			1/2

PRESET TEMPERATURE			
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE	
NO.	TIME	TEMPER	
4 <input type="checkbox"/>	00:00	25°C	
5 <input type="checkbox"/>	00:00	25°C	
6 <input type="checkbox"/>	00:00	25°C	
SCROLL			2/2

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

When the cursor is on "■", as the following page:

PRESET TEMPERATURE			
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE	
NO.	TIME	TEMPER	
1 <input checked="" type="checkbox"/>	00:00	25°C	
2 <input type="checkbox"/>	00:00	25°C	
3 <input type="checkbox"/>	00:00	25°C	
OK <input checked="" type="checkbox"/> SELECT SCROLL			1/2

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

PRESET TEMPERATURE			
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE	
NO.	TIME	TEMPER	
1 <input type="checkbox"/>	08:30	35°C	
2 <input type="checkbox"/>	00:00	25°C	
3 <input type="checkbox"/>	00:00	25°C	
ADJUST SCROLL			1/2

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

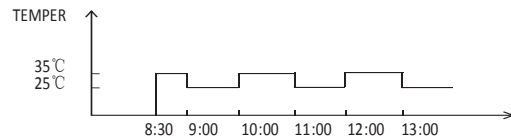
Set six periods and six temperatures can be set.

For example: Now time is 8:00 and temperature is 30°C. We set the PRESET TEMP as follows table.

The following page will appear:

8: 00 08 - 08 - 2015 SAT.			
MAIN	☀	ON	DHW
SET	27 °C	TANK	55 °C
▲	08:30		

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



INFORMATION

■ when the space operation mode is changed the PRESET TEMP. is off automatically.

■ The PRESET TEMP. function can be used in the heat mode or cool mode. But if the operation mode is changed, the PRESET TEMP. function need reset again.

■ The running preset temperature is invalid when the unit is OFF. It will run according to the next preset temperature when the unit turn on again.

6.2.2 WEATHER TEMP. SET

■ WEATHER TEMP.SET=WEATHER TEMPERATURE SET

■ Weather temp.set function is used to preset the desired the water flow temperature auto maticly depending on the outside air temperature.During the warmer weather the demand for space heating is reduced.To prevent the heat pump from producing excessing water flow temperature for the primary circuit, the weather temp.set can be used to maximise efficiency and reduce running costs.

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

The following page will appear:

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
COOL MODE LOW TEMP.		OFF
HEAT MODE LOW TEMP.		OFF
ON/OFF ON/OFF SCROLL		

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
COOL MODE LOW TEMP.		ON
HEAT MODE LOW TEMP.		OFF
ON/OFF ON/OFF SCROLL		



INFORMATION

■ WEATHER TEMP. SET have four kinds of curves :1.the curve of the high temperature setting for heating,2.the curve of the low temperature setting for heating, 3.the curve of the high temperature setting for cooling ,4.the curve of the low temperature setting for cooling.

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

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

It only have the curve of the high temperature setting for cooling, if the high temperature is set for cooling.

It only have the curve of the low temperature setting for cooling, if the low temperature is set for cooling.

■ See FOR SERVICEMAN> COOL MODE SETTING and > HEAT MODE SETTING in installation& owner's manual.

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

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

WEATHER TEMP. SET							
WEATHER TEMP. SET TYPE:							
1	2	3	4	5	6	7	8
<div>OK CONFIRM</div> <div>SCROLL</div>							

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

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

5:30 08-08-2016 SAT.	
Weather temp.set function is on. Do you want to turn off it?	
NO	YES
<div>OK ENTER</div> <div>SCROLL</div>	

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

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
COOL MODE LOW TEMP.		ON
HEAT MODE LOW TEMP.		OFF
<div>ON/OFF ON/OFF</div> <div>SCROLL</div>		

6.2.3 ECO MODE

Use ECO MODE is used to save energy.

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

PRESET TEMPERATURE		
PRESET TEMP.	WEATHER TEMP.SET	ECO MODE
HEAT MODE LOW TEMP.		OFF
<div>ON/OFF ON/OFF</div>		

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

ECO MODE SET							
ECO MODE SET TYPE:							
1	2	3	4	5	6	7	8
<div>OK CONFIRM</div> <div>SCROLL</div>							

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



INFORMATION

■ ECO MODE SET have two kinds of curves :1.the curve of the high temperature setting for heating,2.the curve of the low temperature setting for heating,

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

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

■ See FOR SERVICEMAN>

HEAT MODE SETTING in installation& owner's manual.

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

■ You can select the low or high temperature setting for heating to see the "Table 5~6".

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

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

6.3 Domestic Hot WATER(DHW)

DHW mode typically consists of the following :

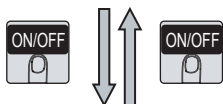
- 1) DISINFECT
- 2) FAST DHW
- 3) TANK HEATER
- 4) DHW PUMP

6.3.1 Disinfect

The DISINFECT function is used to kill the legionella.In disinfect function the tank temperature will be reached 65~70℃ forcibly the disinfect temperature is set in FORSERVICEMAN.See DISINFECT in Installation&Owner's manual.

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

DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
CURRENT STATE			ON
OPERATE DAY			FRI
START			23:00
ON/OFF ON/OFF SCROLL			



DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
CURRENT STATE			OFF
OPERATE DAY			FRI
START			23:00
ON/OFF ON/OFF SCROLL			

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

If CURRENT STATE is OFF, DISINFECT is invalid.

If the disinfect function is running, the following page will appear:

23: 55 10 - 08 - 2015 FRI.

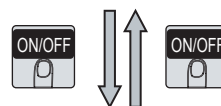
6.3.2 Fast DHW

The FAST DHW function is used forced the system to operation in DHW mode.

The heat pump and the booster heater or backup heater will operate for DHW mode together.

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

DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
CURRENT STATE			ON
ON/OFF ON/OFF			



DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
CURRENT STATE			OFF
ON/OFF ON/OFF			

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



INFORMATION

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

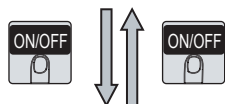
6.3.3 HEATER TANK

The tank heater function is used to force the tank heater to heat the water in tank. In the same situation, the cooling or heating is required and the heat pump system is operating for cooling or heating, however there still is a demand from the hot water.

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

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

DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
CURRENT STATE			ON
ON/OFF ON/OFF			



DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
CURRENT STATE			OFF
ON/OFF ON/OFF			

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

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

21: 55 08 - 08 - 2015 SAT.			
MAIN	ON	DHW	ON
SET	12 °C	TANK	55 °C



INFORMATION

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

6.3.4 DHW Pump

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

DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
NO.	START	NO.	START
1 <input type="checkbox"/>	06:00	5 <input type="checkbox"/>	00:00
2 <input type="checkbox"/>	00:00	6 <input type="checkbox"/>	00:00
3 <input type="checkbox"/>	00:00	7 <input type="checkbox"/>	00:00
4 <input type="checkbox"/>	00:00	8 <input type="checkbox"/>	00:00
SCROLL			1/2

DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
NO.	START	NO.	START
9 <input type="checkbox"/>	06:00	13 <input type="checkbox"/>	00:00
10 <input type="checkbox"/>	00:00	14 <input type="checkbox"/>	00:00
11 <input type="checkbox"/>	00:00	15 <input type="checkbox"/>	00:00
12 <input type="checkbox"/>	00:00	16 <input type="checkbox"/>	00:00
SCROLL			2/2

DOMESTIC HOT WATER (DHW)			
DIS-INFECT	FAST DHW	TANK HEATER	DHW PUMP
NO.	START	NO.	START
1 <input checked="" type="checkbox"/>	06:00	5 <input type="checkbox"/>	00:00
2 <input type="checkbox"/>	00:00	6 <input type="checkbox"/>	00:00
3 <input type="checkbox"/>	00:00	7 <input type="checkbox"/>	00:00
4 <input type="checkbox"/>	00:00	8 <input type="checkbox"/>	00:00
ADJUST SCROLL			1/2

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

☐ the timer is unselected.)

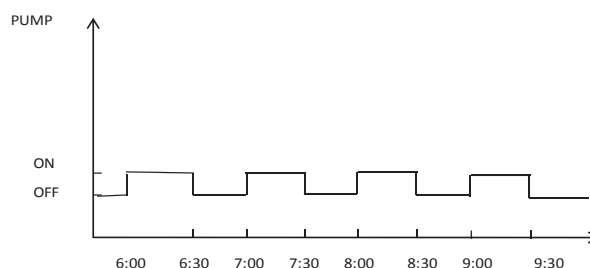
Use "◀", "▶", "▼", "▲" to scroll and use "▼", "▲" to adjust the parameters.

For example:you have set the parameter about the DHW PUMP(See FOR SERVICEMAN TEMPERATURE TYPE SETTING on installation & ower's manual).PUMP RUNNING TIME is 30 minutes.

Set as follows:

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

The PUMP will running as follows:






6.4 Schedule



SCHEDULE menu contents as following:

- 1) TIMER to set the day schedule.
- 2) WEEKLY SCHEDULE to set the weekly schedule
- 3) TIME to set the current time and date

6.4.1 Timer

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

SCHEDULE					
TIMER	WEEKLY SCHEDULE				TIME
NO.	START	END	MODE	TEMP	
1 <input type="checkbox"/>	00:00	00:00	HEAT	0°C	
2 <input type="checkbox"/>	00:00	00:00	HEAT	0°C	
3 <input type="checkbox"/>	00:00	00:00	HEAT	0°C	
  SCROLL					1/2

SCHEDULE					
TIMER	WEEKLY SCHEDULE				TIME
NO.	START	END	MODE	TEMP	
4 <input type="checkbox"/>	00:00	00:00	HEAT	0°C	
5 <input type="checkbox"/>	00:00	00:00	HEAT	0°C	
6 <input type="checkbox"/>	00:00	00:00	HEAT	0°C	
  SCROLL					2/2

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


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

☐ the timer is unselected.) six timers can be set.

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

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

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

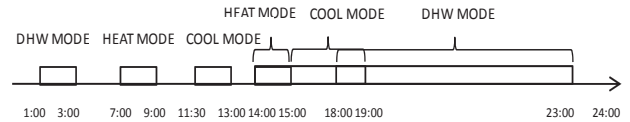
SCHEDULE				
TIMER	WEEKLY SCHEDULE			TIME
Timer 1 is useless. The start time is same to the end time.				
 CONFIRM				

Example:

Six timer is 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	23:00	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
16:00	HEAT MODE is turned OFF
18:00	DHW MODE is turned ON
19:00	COOL MODE is turned OFF
23:00	DHW mode is turned OFF







INFORMATION

If the start time is same to the end time in one timer, the timer is invalid.

6.4.2 Weekly schedule


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

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

SCHEDULE							
TIMER	WEEKLY SCHEDULE						TIME
	MON	TUES	WED	THUR	FRI	SAT	SUN
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SET				CANCEL			
  SELECT   SCROLL							

First select the days of the week you wish to schedule.





Use "◀", "▶" to scroll, press "OK" to select or unselect the day.

" MON" means that the day is selected, "MON" means that the day is unselected.



INFORMATION

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

SCHEDULE							
TIMER	WEEKLY SCHEDULE						TIME
	MON	TUES	WED	THUR	FRI	SAT	SUN
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SET				CANCEL			
  SELECT   SCROLL							

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

The following pages will appear:

SCHEDULE					
TIMER	WEEKLY SCHEDULE				TIME
NO.	START	END	MODE	TEMP	
1	<input checked="" type="checkbox"/>	00:00	02:00	HEAT	30°C
2	<input checked="" type="checkbox"/>	03:00	04:00	COOL	20°C
3	<input checked="" type="checkbox"/>	06:00	08:00	HEAT	35°C
SCROLL					1/2

SCHEDULE					
TIMER	WEEKLY SCHEDULE				TIME
NO.	START	END	MODE	TEMP	
4	<input checked="" type="checkbox"/>	09:00	10:00	HEAT	32°C
5	<input type="checkbox"/>	00:00	00:00	HEAT	0°C
6	<input type="checkbox"/>	00:00	00:00	HEAT	0°C
SCROLL					2/2

Use "◀", "▶", "▼", "▲" to scroll and adjust the time, the mode and the temperature. Timers can be set, including start time and end time, mode and temperature. The mode includes heat mode, cool mode and DHW mode.

The setting method refers to timer setting. The end time must be later than the start time. Otherwise this will show that **Timer is of no effect**.

How to cancel the WEEKLY SCHEDULE

Cancel the schedule: First select the days of the week.

Use "◀", "▶" to scroll.

SCHEDULE							
TIMER	WEEKLY SCHEDULE						TIME
MON	TUES	WED	THUR	FRI	SAT	SUN	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SET				CANCEL			
ENTER SCROLL							

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

INFORMATION

You have to reset TIMER/WEEKLY SCHEDULE, if you change the MAIN page to the ROOM page or you change the ROOM page to the MAIN page.

The TIMER or WEEKLY SCHEDULE is invalid, if ROOM THERMOSTAT is effect.

6.4.3 TIME

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

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

SCHEDULE	
TIMER	WEEKLY SCHEDULE
CURRENT TIME	12: 30
CURRENT DAY	01-01-2015
SCROLL	

Use "◀", "▶", "▼", "▲" to scroll and Use "▲", "▼" adjust the time and date.

INFORMATION

- The ECO or COMFORT MODE has the highest priority, the TIMER or WEEKLY SCHEDULE has the second priority and the PRESET TEMP. or WEATHER TEMP. SET has the lowest priority.
- The PRESET TEMP. or WEATHER TEMP. SET becomes invalid, when we set the ECO or COMFORT valid. We must reset the PRESET TEMP. or WEATHER TEMP. SET when we set the ECO or COMFORT invalid.
- TIMER or WEEKLY SCHEDULE is not affected when ECO or COMFORT is valid. TIMER or WEEKLY SCHEDULE is activated when the ECO or COMFORT is not running.
- TIMER and WEEKLY SCHEDULE are at the same priority. The after setting function is valid. The PRESET TEMP. becomes invalid when TIMER or WEEKLY SCHEDULE is valid. The WEATHER TEMP. SET is not affected by the setting of TIMER or WEEKLY SCHEDULE.
- PRSET TEMP. and WATHER TEMP.SET are at the same priority. The after setting function is valid.

INFORMATION

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

6.5 Options

OPTIONS menu contents as following:

- 1) SILENT MODE
- 2) HOLIDAY AWAY
- 3) HOLIDAY HOME
- 4) BACKUP HEATER

6.5.1 Silent Mode

The SILENT MODE is used to decrease the sound of the unit. However, it also decreases the heating/cooling capacity of the system. There are two silent mode levels.

level2 is more silent than level1, and the heating or cooling capacity is also more decreasing.

There are two method to use the silent mode:

- 1) silent mode in all time;
- 2) silent mode in timer.

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

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

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

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

Description:

If CURRENT STATE is OFF, SILENT MODE is invalid.

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

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

LEVEL 1

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

LEVEL 2

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

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

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
NO.	START	END	
1 <input checked="" type="checkbox"/>	12:00	15:00	
2 <input checked="" type="checkbox"/>	22:00	07:00	
SCROLL			

There are two timers for setting. Move to "■", press "OK" to select or unselect.

If the two time are both unselected, the silent mode will operate in all time. Otherwise, it will operate according as the time.

6.5.2 Holiday Away

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

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

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

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

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
FROM		07-08-2015	
UNTIL		07-08-2015	
SCROLL 2/2			

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

If you are in the following situation:

■ In 2 days, you go away for 2 weeks during the winter.

■ You want to save energy, but prevent your house from freezing. Then you can do the following:

1) Configure the holiday. configure the following settings:

2) Activate the holiday mode.

Go to "MENU" > "OPTIONS" > "HOLIDAY AWAY". Press "OK".

Use "ON/OFF" to select "OFF" or "ON" and use "" , "" , "" , "" to scroll and adjust.

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



INFORMATION

- If DHW mode in holiday away mode is ON, The disinfect set by user is invalid.
- If holiday away mode is ON, The timer and weekly schedule are invalid except exit.
- If the CURRENT STATE is OFF, the HOLIDAY AWAY is OFF.
- If the CURRENT STATE is ON, the HOLIDAY AWAY is ON.
- The remote control doesn't accept any orders when holiday away mode is ON.
- Disinfecting the unit on 23:00 of the last day if disinfect is ON.
- When in holiday away mode, the climate related curves previously set is invalid, and the curves will automatically take effect after the holiday away mode is end.
- The preset temperature is invalid when in holiday away mode, but the preset value still display on the main page.

6.5.2.2 Holiday Home

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

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

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

To activate or deactivate the holiday home mode:

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

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
CURRENT STATE			ON
FROM			15-08-2015
UNTIL			17-08-2015
TIMER			ENTER
ON/OFF ON/OFF ↕ SCROLL			

Use "ON/OFF" to select "OFF" or "ON" and use "◀", "▶", "▼", "▲" to scroll and adjust.

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

Use "▼", "▲" to adjust the date.

- Before and after your holiday, your normal schedule will be used.
- During your holiday, you save energy and prevent your house from freezing.



INFORMATION

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

6.5.3 Backup Heater

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

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
◀ SCROLL			

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

OPTIONS			
SILENT MODE	HOLIDAY AWAY	HOLIDAY HOME	BACKUP HEATER
BACKUP HEATER1			ON
BACKUP HEATER2			ON
OK ENTER ▶ SCROLL			

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



INFORMATION

- If the operation mode is auto mode in space heating or cooling side, the backup heater function can not be selected.
- The BACKUP HEATER function is invalid when only ROOM heat mode enabled.

6.6 CHILD LOCK

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

CHILD LOCK
Please input the password:
0 0 0
OK ENTER ↕ ADJUST ▶ SCROLL

Input the current password, the following page will appear:

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

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

6.7 Service information

6.7.1 About service information

Service information menu contents as following:

- 1) service call: to check service call for contacting;
- 2) error code: to check the error code mean;
- 3) parameter: to review the operation parameters;
- 4) display: to set the display.

6.7.2 How to go to service information menu

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

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

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
PHONE NO. 00000000000000			
MOBILE NO. 00000000000000			
◀ SCROLL			

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

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
E2		14:10	01-08-2015
E2		14:00	01-08-2015
E2		13:50	01-08-2015
E2		13:20	01-08-2015
OK ENTER ▶ SCROLL			

Press OK the page will appear:

i INFORMATION	
■ A total of eight fault codes can be recorded.	

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
E2		14:10	01-08-2015
E2		14:00	01-08-2015
E2		13:50	01-08-2015
E2		13:20	01-08-2015
OK ENTER ▶ SCROLL			

press OK to show the mean of the error code:

12:30 08-08-2015 SAT.	
E2 communication fault between controller and indoor unit	
Please contact your dealer.	
OK CONFIRM	

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

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
		ROOM SET TEMP.	26°C
		MAIN SET TEMP.	55°C
		TANK SET TEMP.	55°C
		ROOM ACTUAL TEMP.	24°C
OK ENTER ▶ SCROLL			

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

SERVICE INFORMATION			
SERVICE CALL	ERROR CODE	PARAMETER	DISPLAY
		LANGUAGE	EN
		BACKLIGHT	ON
		BUZZER	ON
		SCREEN LOCK TIME	120SEC
OK ENTER ▶ SCROLL			

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

Information:

Now there is only one language English in the interface.

6.8 Operation Parameter

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

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

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

OPERATION PARAMETER	
OPERATE MODE	COOL
COMPRESSOR CURRENT	12A
COMPRESSOR FREQUENCY	24Hz
COMP.RUN TIME1	54MIN
COMP.RUN TIME2	65MIN
COMP.RUN TIME3	10MIN
▶ SCROLL	1/5

OPERATION PARAMETER	
COMP.RUN TIME4	1000HOUR
EXPANSION VALUE	240P
FAN SPEED	600 R/MIN
BACKUP HEATER1 CURRENT	0 A
BACKUP HEATER2 CURRENT	0 A
T1 LEAVING WATER TEMP.1	25°C
◀ SCROLL	2/5

OPERATION PARAMETER	
T1B LEAVING WATER TEMP.2	25°C
T2 PLATE F-OUT TEMP.	30°C
T2B PLATE F-IN TEMP.	45°C
T3 OUTDOOR EXCHANGE TEMP.	-7°C
T4 OUTDOOR AIR TEMP.	-7°C
T5 WATER TANK TEMP.	-7°C
◀ SCROLL	3/5

OPERATION PARAMETER	
Ta Room temp	25°C
Th COMP. SUCTION TEMP.	25°C
Tp COMP. DISCHARGE TEMP.	25°C
Tw-0 PLATE W-OUTLET TEMP.	25°C
Tw-I PLATE W-INLET TEMP.	25°C
P1 COMP. PRESSURE1	200kPa
◀ SCROLL	4/5

OPERATION PARAMETER	
P2 COMP. PRESSURE2	--kPa
POWER CONSUMPTION	OKWH
◀ SCROLL	5/5

6.9.2 How To Go To For Serviceman

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

FOR SERVICEMAN
Please input the password:
0 0 0
OK ENTER ⬆ ADJUST ⬅ SCROLL

■ The FOR SERVICEMAN is used for installer or service engineer. It is NOT intended the home owner alters setting with this menu.

■ It is for this reason password protection is required to prevent unauthorised access to the service settings.

6.9.3 How To Exit For SERVICEMAN

If you have set all the parameter.

Press "BACK", the following page will be appear:

FOR SERVICEMAN
Do you want to exit the for serviceman?
NO YES
OK CONFIRM ⬅ SCROLL

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



INFORMATION

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

6.9 For Serviceman

6.9.1 About For Serviceman

FOR SERVICEMAN is used for installer and service engineer.

- Setting the composition of equipment.
- Setting the parameters.

7 Menu structure : Overview

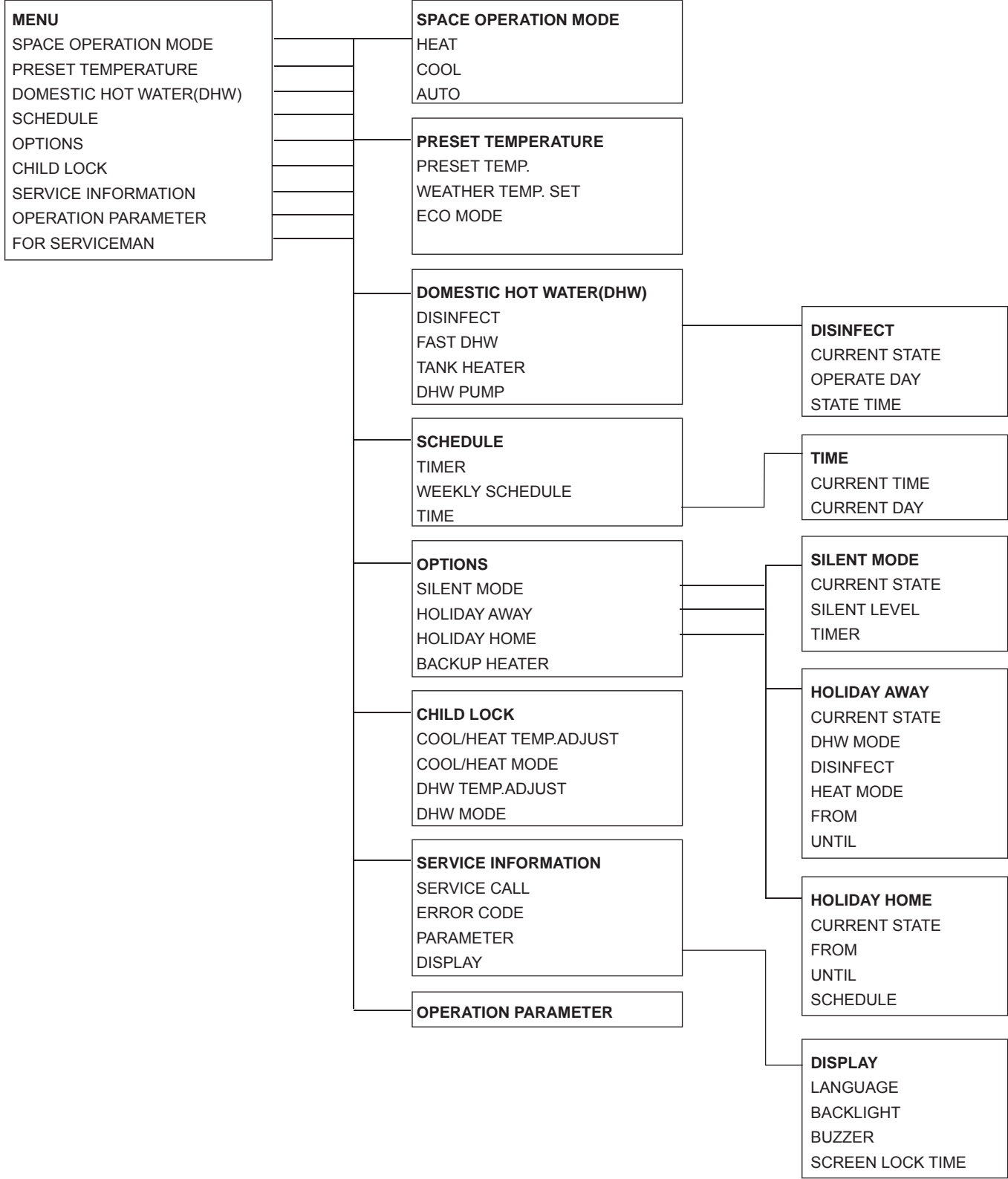


Table1 The environment temperature curve of the low temperature setting for heating

T4	≤-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1-T1S	30	30	30	30	30	30	30	30	30	30	30	30	29	29	29	28	28	28	27	27	27
2-T1S	34	34	34	34	34	34	34	34	34	34	34	34	33	33	32	32	31	31	30	30	29
3-T1S	38	38	38	38	38	38	38	38	38	38	38	37	37	36	36	35	34	34	33	33	32
4-T1S	41	41	41	41	41	41	41	41	41	41	41	40	40	39	38	38	37	36	35	35	34
5-T1S	45	45	45	45	45	45	45	45	45	45	45	44	43	42	42	41	40	39	38	38	37
6-T1S	49	48	48	47	47	46	46	45	45	44	44	44	43	43	42	42	41	41	40	40	39
7-T1S	51	51	50	50	49	49	48	48	47	47	46	45	45	44	44	43	43	42	42	41	41
8-T1S	54	53	53	52	52	51	50	50	49	49	48	47	47	46	46	45	44	44	43	43	42
T4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	≥ 20	
1-T1S	26	26	26	25	25	25	24	24	24	23	23	23	22	22	22	21	21	21	20	20	20
2-T1S	29	28	28	27	27	27	26	26	25	25	24	24	23	23	22	22	21	21	20	20	20
3-T1S	31	31	30	30	29	28	28	27	27	26	25	25	24	24	23	22	22	21	21	20	20
4-T1S	33	33	32	31	31	30	29	28	28	27	26	26	25	24	24	23	22	21	21	20	20
5-T1S	36	35	34	33	33	32	31	30	29	28	28	27	26	25	24	23	23	22	21	20	20
6-T1S	39	38	38	37	37	37	36	36	35	35	34	34	33	33	32	32	31	31	30	30	30
7-T1S	40	40	39	39	38	37	37	36	36	35	35	34	34	33	33	32	32	31	31	30	30
8-T1S	41	41	40	40	39	38	38	37	37	36	35	35	34	34	33	32	32	31	31	30	30

Table2 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-T1S	55	55	55	55	54	53	53	52	51	51	50	49	49	48	47	47	46	45	45	44	43
2-T1S	55	55	55	55	55	55	55	54	53	53	52	51	51	50	49	48	48	47	46	45	45
3-T1S	55	55	55	55	55	55	55	55	55	55	54	53	52	52	51	50	49	48	48	47	46
4-T1S	46	46	46	46	46	46	46	46	46	46	46	45	45	44	43	43	42	41	40	40	39
5-T1S	50	50	50	50	50	50	50	50	50	50	50	49	48	47	47	46	45	44	43	43	42
6-T1S	53	53	53	53	53	53	53	53	53	53	53	52	51	50	49	48	47	46	46	45	44
7-T1S	57	57	57	57	57	57	57	57	57	57	57	56	55	54	53	52	51	50	48	47	46
8-T1S	60	60	60	60	60	60	60	60	60	60	60	59	58	57	55	54	53	52	51	50	48
T4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	≥ 20	
1-T1S	43	42	41	41	40	39	39	38	37	37	36	35	35	34	33	33	32	31	31	30	30
2-T1S	44	43	42	42	41	40	40	39	38	37	37	36	35	34	34	33	32	31	31	30	30
3-T1S	45	44	44	43	42	41	40	40	39	38	37	36	36	35	34	33	32	32	31	30	30
4-T1S	38	38	37	36	36	35	34	33	33	32	31	31	30	29	29	28	27	26	26	25	25
5-T1S	41	40	39	38	38	37	36	35	34	33	33	32	31	30	29	28	28	27	26	25	25
6-T1S	43	42	41	40	39	38	37	36	35	34	33	32	32	31	30	29	28	27	26	25	25
7-T1S	45	44	43	42	41	40	39	38	37	36	35	34	32	31	30	29	28	27	26	25	25
8-T1S	47	46	45	44	42	41	40	39	38	37	35	34	33	32	31	30	28	27	26	25	25

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

T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
1-T1S	18	13	10	7
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
2-T1S	19	14	11	8
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
3-T1S	20	15	12	9
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
4-T1S	21	16	13	10
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
5-T1S	22	17	14	11
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
6-T1S	23	18	15	12
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
7-T1S	24	19	16	13
T4	$-10 \leq T4 < 15$	$15 \leq T4 < 22$	$22 \leq T4 < 30$	$30 \leq T4 < 46$
8-T1S	25	21	18	14

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

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

Table5 The environment temperature curve of the low temperature setting for ECO mode

T4	≤-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1#	25	25	25	25	25	25	25	25	25	25	25	24	24	24	23	23	23	23	22	22	22
2#	29	29	29	29	29	29	29	29	29	29	29	28	28	27	27	26	26	26	25	25	24
3#	32	32	32	32	32	32	32	32	32	32	32	31	31	30	30	29	29	28	28	27	26
4#	36	36	36	36	36	36	36	36	36	36	36	35	35	34	33	32	31	31	30	30	29
5#	39	39	39	39	39	39	39	39	39	39	39	38	38	37	36	35	35	34	33	32	31
6#	45	45	44	43	42	42	41	41	40	40	39	39	39	38	38	37	37	36	36	35	34
7#	48	48	47	46	45	44	43	42	42	41	41	40	40	39	39	38	38	37	37	36	36
8#	50	49	49	48	47	46	46	45	45	44	43	43	42	42	41	40	40	39	39	38	37
T4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	≥20	
1#	22	21	21	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
2#	24	24	23	23	22	22	22	21	21	20	20	20	20	20	20	20	20	20	20	20	
3#	26	26	25	25	24	24	23	23	22	21	21	21	20	20	20	20	20	20	20	20	
4#	29	28	27	26	25	24	24	23	23	22	22	22	21	21	20	20	20	20	20	20	
5#	31	30	29	28	27	27	26	25	24	23	23	22	22	21	20	20	20	20	20	20	
6#	34	33	33	32	32	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	
7#	35	34	34	33	33	32	32	31	31	30	30	30	30	30	30	30	30	30	30	30	
8#	37	36	35	35	34	34	33	33	32	31	31	31	30	30	30	30	30	30	30	30	

Table6 The environment temperature curve of the high temperature setting for ECO mode

T4	≤-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
1#	50	50	49	49	48	48	47	47	46	46	45	45	44	44	43	42	42	41	40	39	38
2#	50	50	50	50	50	50	49	49	48	48	47	47	46	45	44	43	43	42	42	41	40
3#	50	50	50	50	50	50	50	50	50	50	49	49	48	47	46	45	45	44	43	42	41
4#	41	41	41	41	41	41	41	41	41	41	41	40	40	39	39	38	38	37	36	35	34
5#	45	45	45	45	45	45	45	45	45	45	45	44	43	42	41	40	40	39	38	37	36
6#	48	48	48	48	48	48	48	48	48	48	48	47	46	45	44	43	42	41	41	40	39
7#	52	52	52	52	52	52	52	52	52	52	52	51	50	49	48	46	45	44	43	42	41
8#	55	55	55	55	55	55	55	55	55	55	55	54	53	51	50	49	48	47	46	45	43
T4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	≥20	
1#	38	37	37	36	35	35	34	34	33	32	32	31	30	30	30	30	30	30	30	30	
2#	40	39	38	37	36	36	35	34	33	32	32	31	30	30	30	30	30	30	30	30	
3#	41	40	39	38	37	37	36	35	34	33	33	32	32	31	30	30	30	30	30	30	
4#	34	33	32	32	31	31	30	29	28	27	27	27	26	26	25	25	25	25	25	25	
5#	35	35	34	33	32	31	31	30	29	28	28	27	26	26	25	25	25	25	25	25	
6#	38	37	36	35	34	33	32	31	30	29	29	28	27	26	25	25	25	25	25	25	
7#	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	25	25	25	25	
8#	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	26	25	25	25	

