

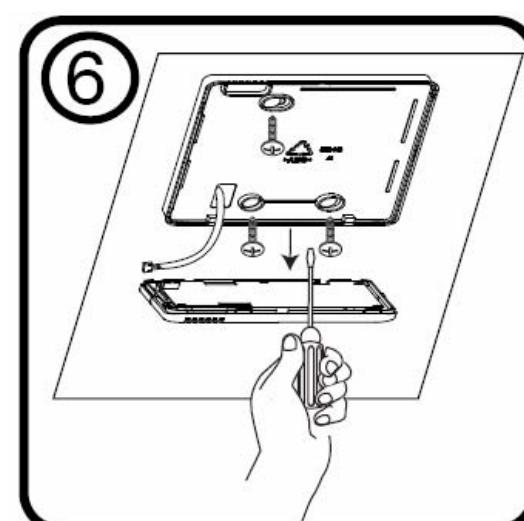
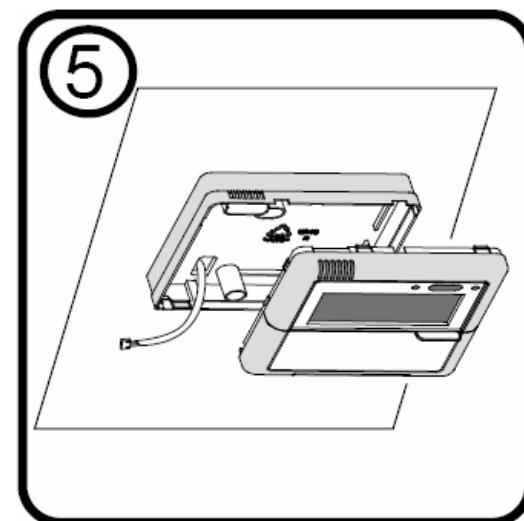
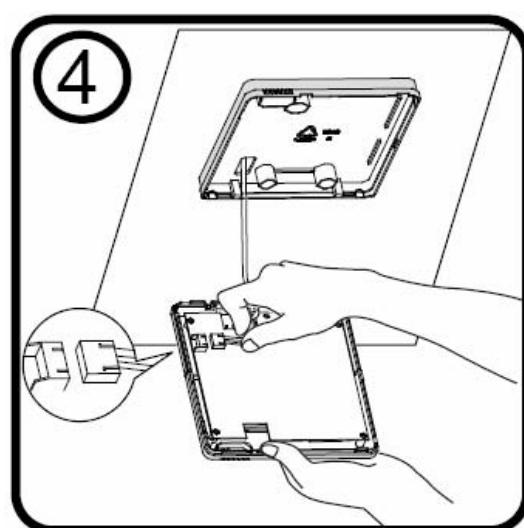
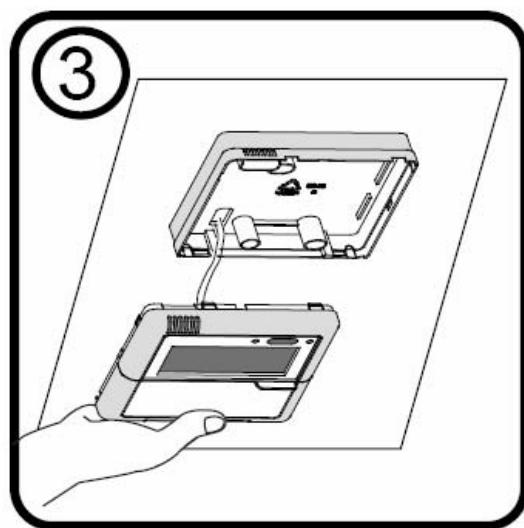
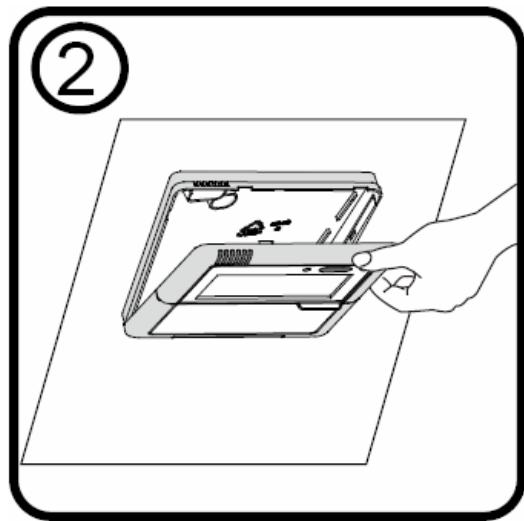
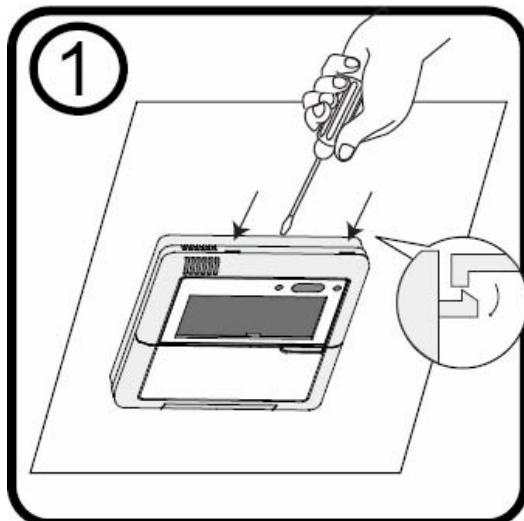
Control panel Manual

Air-to-water Heat Pump SERIE

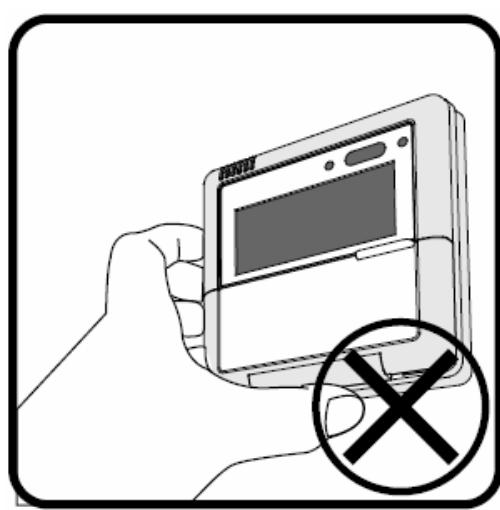
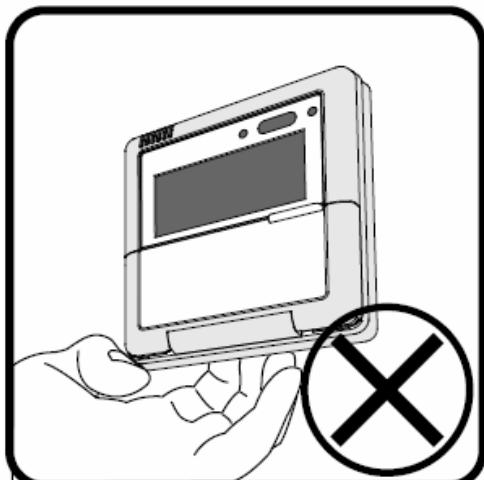
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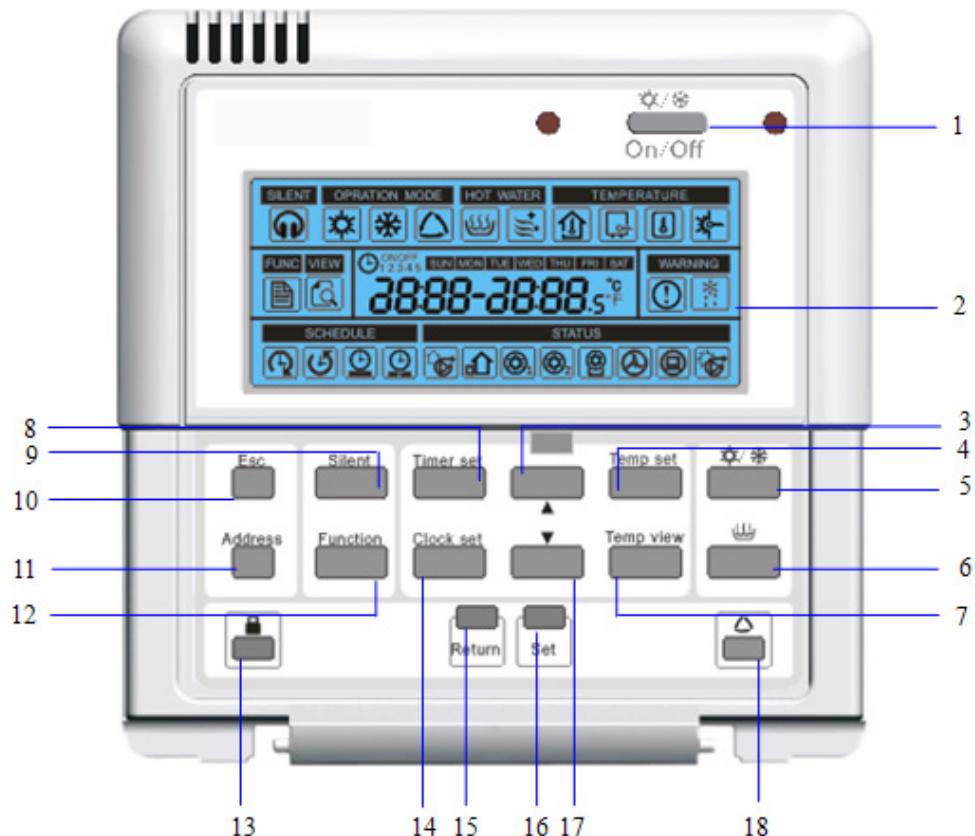


Wrong way

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1. Operation View

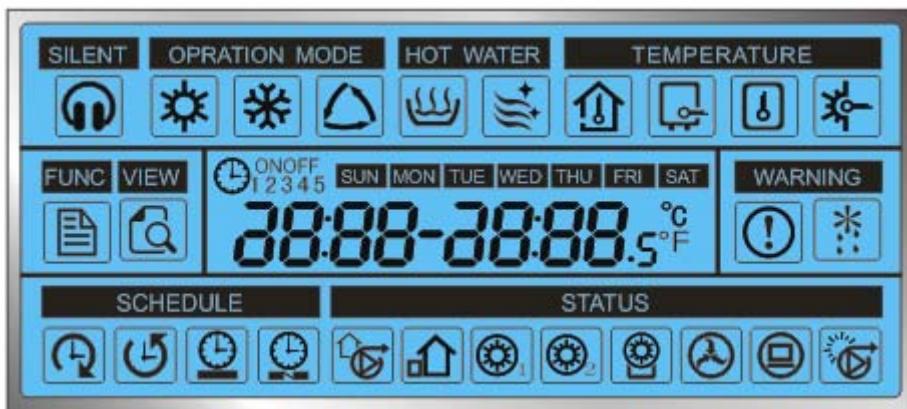


CONTROL PANEL

NO.	Name	Function description
1	Heating/Cooling on/off button	Press the button to turn on or turn off Heating operation or Cooling operation
2	LCD display	Display unit information
3	Increasing button	Press this button to increase the parameter(winking)
4	Temperature set button	Press the button to set temperature
5	Heating/Cooling button	Press the button to select heating or cooling operation
6	Sanitary heating on/off button	Press the button to turn on or off water heating
7	Temperature view button	Press the button to view the temperature
8	Timer setting button	Press this button to set timer function
9	Silent mode on/off button	Press this button to start up or stop Silent operation

10	ESC button	Press this button to return to the main menu
11	Address setting button	Press this button to set the unit address
12	Programming button	Press this button to set the engineer parameter
13	Child lock button	Press this button to lock or unlock the button
14	Clock setting button	Press this button to set the clock
15	Return button	Press this button to return to the previous menu
16	Set button	Press the button to save parameter or enter the next menu
17	Decreasing button	Press this button to decrease the parameter(winking)
18	Weather-dependent mode button	Press this button to turn on or off weather depending operation mode

2. Display View



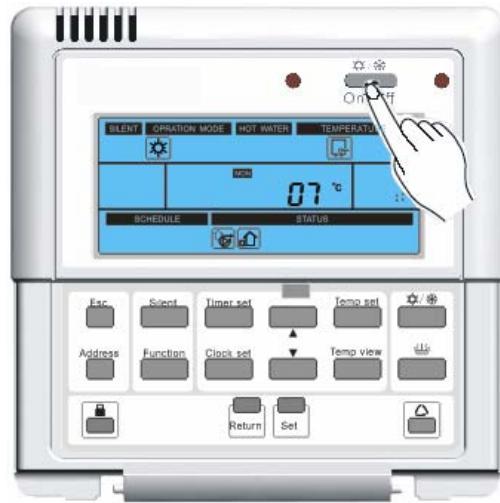
Icon.	Name	Function description
	Silent mode	This icon indicates that the silent mode is active.
	Heating mode	This icon indicates that the heating mode is active. In holiday mode or urgent heating model, the icon will flashing.
	Cooling mode	This icon indicates that the cooling mode is active.
	Weather depending mode	This icon indicates that the weather depending mode is active. and in Timing Silent mode , this icon will flashing;
	Sanitary heating mode	This icon indicates that the sanitary heating mode is active. In urgent sanitary heating model, the icon will flash.
	Disinfection mode	This icon indicates that the disinfection mode is active. If disinfection isn't successful, the icon will flash.
	Room air temperature	This icon indicates that you are setting target room air temperature or current room air temperature is displaying.

		In Timing Temperature mode , this icon will flashing;
	Water-Leaving temperature	This icon indicates that you are setting target leaving temperature or current leaving temperature is displaying. In Timing Temperature mode , this icon will flashing;
	Sanitary water tank temperature	This icon indicates that you are setting target sanitary water tank temperature.
	Solar leaving temperature	This icon indicates that you are setting target Solar leaving temperature.
	Function setting	This icon indicates that you are setting engineer parameter.
	Temperature view	This icon indicates that you are viewing the some temperature value.
	Trouble	This icon indicates that trouble is occurred.
	Defrosting	This icon indicates that the defrost mode is active.
	24 hours timer	This icon indicates that you are setting 24 hours timer or 24 hours timer is active. When the setting is finished ,this icon will flashing
	24 hours decrease timer	This icon indicates that you are setting 24 hours decrease timer or 24 hours decrease timer is active. When the setting is finished ,this icon will flashing
	weekly timer	This icon indicates that you are setting weekly timer or weekly timer is active. When the setting is finished ,this icon will flashing
	Holiday reservation	This icon indicates that you are clearing some day in weekly timer. When the setting is finished ,this icon will flashing
	Water pump	This icon indicates that the indoor water pump is active.
	Outdoor unit	This icon indicates that the outdoor unit is active.
	The first stage internal electric heater	This icon indicates that the first stage internal electric heater which is located inside the indoor unit is operating.
	The second stage internal electric heater	This icon indicates that the second stage internal electric heater which is located inside the indoor unit is operating.
	Sanitary water tank heater	This icon indicates that the electric heater located inside sanitary water tank is operating.
	Thermostat	This icon indicates connection with thermostat
	Central controller	This icon indicates that the unit is controlled by the central controller, and all the buttons will not effect
	Auxiliary solar thermal pump	This icon indicates that auxiliary solar thermal pump is active

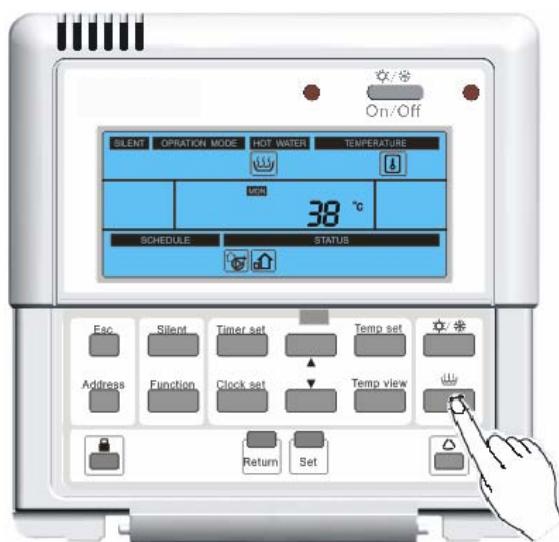
3. Operation Instruction

3.1 Operation and Stop of the Unit

Without thermostat, press  button, Heat or Cool mode will operate. Heat mode icon  or Cool mode icon  will display. Press  button again to exit Heat or Cool mode.



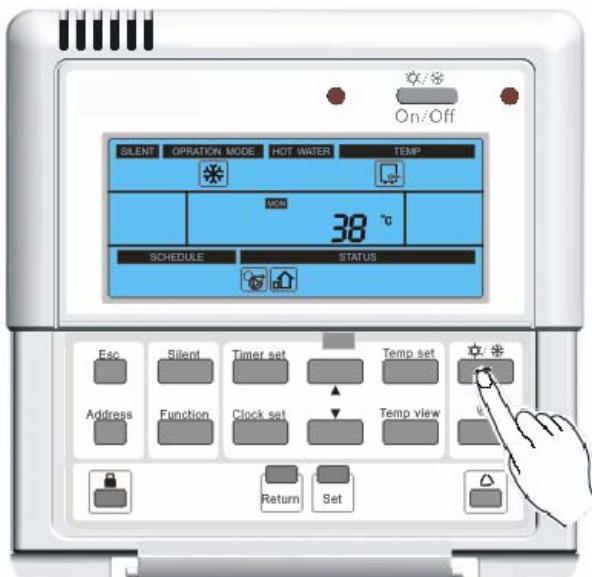
If there is water tank, press  button and the sanitary heating mode will act. The sanitary heating mode icon  will show. Press  button again to exit sanitary heating mode.



3.2 Mode Switch

1. Press  button to turn on the Air-conditioning mode.

2. Press repeatedly  button to select Heat mode  or Cool mode 

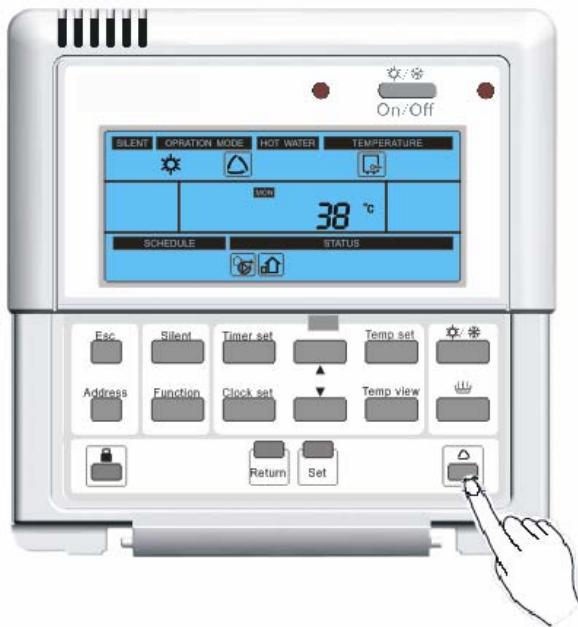


3. If the air function is on and the mode

is heating mode, press  button, and the weather depending mode will act. The weather

depending mode icon  will

show. Press  button again. The weather depending mode will stop.

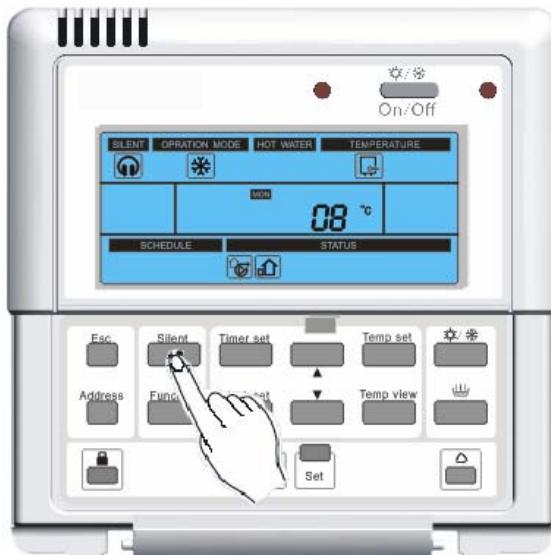


4. If the unit is turned on (with air function or sanitary water function), press

 **Silent**

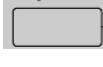
button and the silent mode will operate. The silent mode icon 

will show. Press  button again, and the silent mode will stop.



5. If there is error and the compressor have stopped for over 3 minutes, press



button or  button for 5 seconds to enter urgent sanitary heating mode or urgent heating mode. The icon  or  will flash. Press  button or  button for 5 seconds again to exit urgent sanitary heating mode or urgent heating mode.

Note: 1. With malfunction of internal electric heater, malfunction of water switch or malfunction of backup outlet temperature sensor, the urgent heating mode is not available.

2. With malfunction of sanitary water tank electric heater, or malfunction of the first sanitary water tank

temperature sensor, the urgent sanitary heating model is not available.

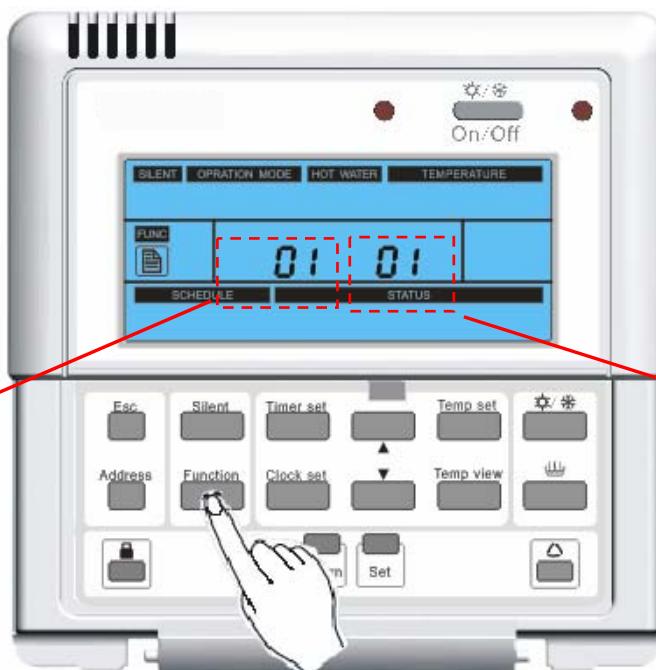
3.3 Parameter Setting

Function

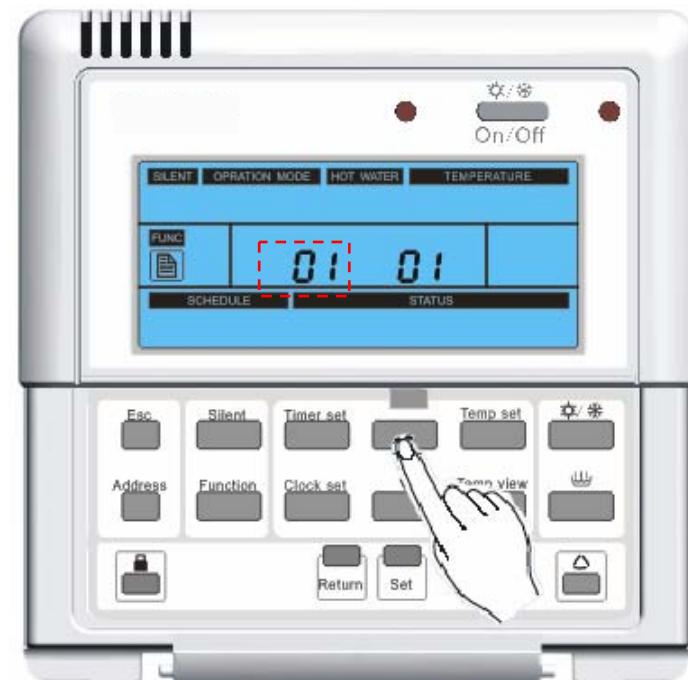
1. Press  button to enter user function setting menu. Icon  will show.

Function Code

Function Value

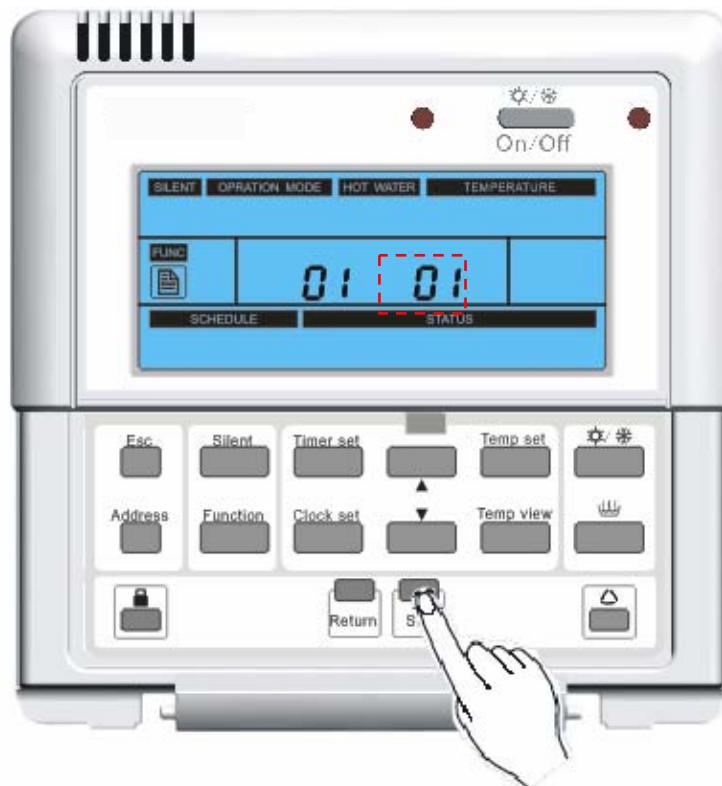


2. press  button to select the function code that you want to set.





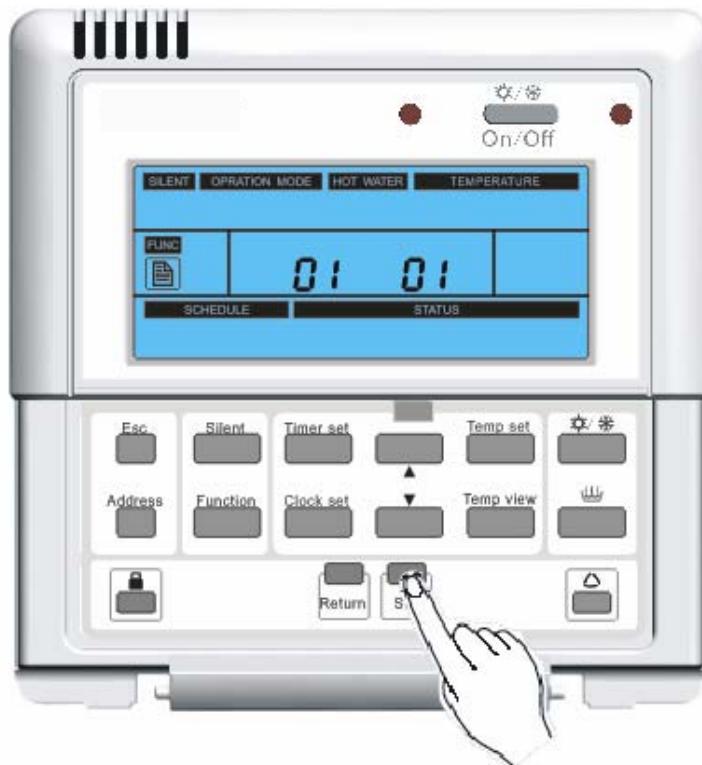
3. Press **Set** button to enter function parameter setting mode. The function parameter is flashing.



4. Press **Up and down arrow buttons** to adjust parameters.



5. Press  button to save the desired parameter.



6. Repeat step 2 to 5 to set other function parameters. Press  button or  button to return the main menu.



Table of user function parameter

Code	Function description	Detail	Range
1	Setting temperature selection: Selection for setting temperature as room temperature or outflow water temperature	0: leaving water temperature 1: room temperature	0~1(default: 0)
2	Forced Operation	0: no Forced operation 1: Forced cooling operation 2: Forced heating operation	0~2(default: 0)
3	Celsius/Fahrenheit switching: Display temperature in Celsius or Fahrenheit	0:Celsius 1:Fahrenheit	0~1(default: 0)
4	Thermostat control is Enable/disable	0: disable 1: enable	0~1(default: 0)
5	Enable/disable of quick sanitary heating	0: disable 1: enable	0~1(default: 0)
6	Enable/disable of disinfection operation	0: disable 1: enable	0~1(default: 0)
7	Enable/disable of holiday mode	0: disable 1: enable	0~1(default: 0)
8	Setting priority when under cooling demand and sanitary water heating demand are required at the same time	0: priority to cooling 1: priority to water tank heating	0~1(default: 0)
9	Setting priority when under heating demand and sanitary water heating demand are required at the same time	0: priority to heating 1: priority to water tank heating	0~1(default: 0)
10	Setting status of back-up heater (indoor unit)	1: use half capacity of Back-up heater(3kW) 2: use full capacity of Back-up heater(6kW)	1~2(default: 1)
11	Setting start date of disinfection	0: Sunday 1: Monday	0~6(default: 6)

	operation	2: Tuesday 3: Wednesday, 4: Thursday 5: Friday 6: Saturday	
12	Setting start time in 24 hours of disinfection operation	00-00: 00 01-01: 00 ... 23-23:00	0~23(default:23)
13	Enable/disable of Metal Base (pedestal) heater	0: disable 1: enable	0~1(default:1)
14	Tank sensor quantity	1: one 2: two	1~2(default:2)
15	Tank equipment	0: NOT Equipped 1: Equipped	0~1(default: 0)
16	Other thermal equipment	0: NOT Equipped 1: Equipped	0~1(default: 0)
17	FCU equipment	0: NOT Equipped 1: Equipped	0~1(default: 0)
18	Remote air temperature sensor	0: NOT Equipped 1: Equipped	0~1(default: 0)
19	Heating operation level	0: high temperature cycle 1: low temperature cycle	0~1(default:1)
20	Setting turn on temperature of back-up heater (indoor unit)	/	-20~18°C(default: 0°C)
21	Setting maximum water tank temperature heated by heat pump cycle	/	40-50°C(default: 50°C)
22	Setting heating temperature of disinfection operation	/	40-70°C(default: 70°C)
23	Setting lower temperature for Weather-depending operation	/	-20~5°C(default: -15°C)
24	Setting upper temperature for weather depending operation	/	10~20°C(default: 15°C)

25	Setting temperature gap from target temperature of cooling operation	/	2~10°C(default: 3°C)
26	Setting temperature gap from target temperature of heating operation	/	2~10°C(default: 3°C)
27	Setting temperature gap from target temperature of sanitary heating operation	/	2~8°C(default: 3°C)

3.4 Function Set-up Description

- Function code 1: Setting temperature selection**

The unit can operate according to air temperature or outflow water temperature. The air temperature or outflow water temperature can be selected as setting temperature.

Note: Air temperature as setting temperature is ONLY available when Remote Air Sensor Connection is enabled and Function Code 18 is set as 01.

- Function code 2: Forced operation**

Forced Operation includes forced cooling and forced heating operation:

Forced cooling operation should be performed when additional refrigerant charge is required.

To charge the refrigerant, the unit must run in Cool mode.

Forced cooling should be performed upon the first run (test run) and when out-door temperature is lower than 10 °C;

Forced heating should be performed upon the first run (test run) and when out-door temperature is higher than 35 °C;

Forced Operation instantly makes the unit working in Cool/Heat mode for 15 minutes.

Note:

- Before setting the forced operation, please turn off the unit;
- When the forced cooling/Heating operation is set, press ON/OFF button in the control panel. The unit will start running.
- Press ON/OFF button in the control panel again, forced operation mode will be finished.
- After running 15 minutes under Forced Operation, the system will automatically stop operating.

- Function code 3 : Celsius/Fahrenheit switching**

Temperature is displayed in Celsius or Fahrenheit.

- Function code 4 : Thermostat control**

Code 4 is set as 1. The unit operation is controlled by the Thermostat;

Note: Thermostat control only for space cooling and space heating;

- **Function code 5 : Quick sanitary heating**

If code 5 is set as 1 and sanitary heating is ON, both the heat pump and electric heater in water tank should be turned on;

With code 5 set as 0 and sanitary heating ON, if the water tank temperature is below maximum heat pump running temperature(default: 50°C), only the heat pump will operate. If the water tank temperature is higher than maximum heat pump running temperature (default: 50°C) , the heat pump will stop operating and electric heater in water tank will run.

- **Function code 6 : Disinfection operation**

Disinfection operation is special sanitary tank operation mode to kill and to prevent growth of viruses inside the tank.

- **Function code 7 : Holiday mode**

If code 7 is set as 1, the system will automatically turn to space heating and other mode will automatically be turned OFF. But at the same time if the unit running in emergency mode, The system will not turn to holiday mode;

In the holiday mode, the leaving water temperature or remote room air temperature can not be set..



In holiday mode, the icon will flashing.

- **Function code 8 : Setting priority when cooling demand and sanitary heating demand are required at the same time**

If code 8 is set as 0, that means priority is cooling operation. The heat pump will always run in space cooling(include floor cooling) mode. In this case sanitary water is only heated by electric heater. On the other hand, If code 8 is set as 1, that means priority is sanitary heating. The sanitary water is heated by heat pump and electric heater. In that case, space cooling can not act when sanitary water is heated. When sanitary water heating is finished, the heat pump will turn to space cooling.

- **Function code 9 : Setting priority when heating demand and sanitary heating demand are required at the same time**

If code 9 is set as 0, that means priority is heating operation. The heat pump will always run in space heating (include floor heating) mode. In that case, sanitary water is only heated by electric heater. On the other hand, if code 9 is set as 1, that means priority is sanitary heating. Sanitary water is heated by heat pump and electric heater. Space heating can not act when sanitary water is heated. When sanitary water heating is finished, the heat pump will turn to space heating.

- **Function code 10 : Setting status of back-up heater (indoor unit)**

If code 10 is set as 1, half capacity of back-up heater in the indoor unit can be turned into

use when the out-door temperature is below the set value in code 20.

If code 10 is set as 2, full capacity of back-up heater in the indoor unit can be turned into use when the out-door temperature is below the set value in code 20.

- **Function code 11 : Setting start date of disinfection operation**

Value of function code 11 determines the date when disinfection mode is running. '0' stands for Sunday, '1' for Monday ... and '6' for Saturday.

- **Function code 12 : Setting start time in 24 hours of disinfection operation**

Value of function code 12 determines the time when the disinfection mode is running. '00' stands for 0:00am, '01' for 01:00am... '22' for 22:00pm and '23' for 23:00pm.

- **Function code 13 : Metal Base(peDESTAL) heater**

If code 13 is set as 0, the Metal Base (pedestal) heater will never be turned on;

If code 13 is set as 1, when the compressor started and the out-door temperature is below 0°C, the Metal Base (pedestal) heater will be turned on; when the compress or stopped or the out-door temperature is higher than 2°C, the Metal Base (pedestal) heater will be turned off.

- **Function code 14 : Quantity of tank sensor**

If code 14 is set as 1, there is only one temperature sensor on the sanitary water tank;

If code 14 is set as 2, there are two temperature sensors on the sanitary water tank; the one in the middle of the tank is for display (in the control panel) , and the other one is for control (control ON/OFF of the heat pump or electric heater) ;

- **Function code 15 : Tank equipment**

If code 15 is set as 0, there is no sanitary water tank installed in the system. The sanitary water heating and disinfection operation are in valid in the control Panel;

If code 15 is set as 1, sanitary water tank is installed in the system. The sanitary water heating and disinfection operation are available in the control panel.

- **Function code 16 : Other thermal equipment**

If code 16 is set as 0, there is no other thermal equipment connected to the tank.

If code 16 is set as 1, other thermal equipment(such as gas boiler, oil boiler or solar system) is connected to the tank (this tank must be two coil, one for heat pump and the other for other thermal equipment) ;

- **Function code 17 : FCU equipment**

If code 17 is set as 0, there is no FCU (FAN COIL UNIT) equipped in the water system. In order to preventing condensation on the floor during cooling operation, the setting value of the outflow water temperature can not be below 16°C. If code 17 is

set as 1, there is FCU (FAN COIL UNIT) equipped in the water system. In this case, 2-way valve should be installed and connected to the indoor PCB. Otherwise, the unit will operate abnormally.

- **Function code 18 : Remote air temperature sensor**

If code 18 is set as 0, the remote air temperature sensor is not equipped. The unit can only be operated according outflow water temperature. The value of code 1 is can not be set as 1, otherwise the unit can not operate.

If code 18 is set as 1, the remote air temperature sensor is equipped. The unit can operate according the set value of the code 1.

- **Function code 19 : Heating operation level**

If code 19 is set as 0, in space heating, the unit will be operated by high temperature cycle. The setting value of outflow water temperature ranges from 25°C to 55°C. The high temperature cycle suitable for FCU or radiator is equipped in the water loop.

If code 19 is set as 1, in space heating, the unit will be operated by low temperature cycle. The setting value of outflow water temperature ranges from 25°C to 45°C, low temperature cycle suitable for under-floor coil is equipped in the water loop.

- **Function code 20 : Setting startup temperature of back-up heater (indoor unit)**

Set the outdoor air temperature when half capacity of electric heater starts operating.

Example : If Value is set as '-1':

Half capacity of electric heater will start operating when outdoor air temperature is below -1°... and current outflow water temperature or room air temperature is much lower than target outflow water temperature or target room air temperature.

- **Function code 21 : Setting maximum water tank temperature heated by heat pump cycle**

Set the maximum temperature generated by AWHP compressor cycle.

Example : If Value is set as '50':

If the target water tank temperature is 60°C, and when the current water tank temperature is below 50°C, the water tank is heated by heat pump. When current water tank temperature is higher than 50°C but lower than target water tank temperature (in this case is 60°C), the water tank is heated by water heater in tank

- **Function code 22 : Setting heating temperature of disinfection operation**

Set the target temperature of disinfection operation.

Disinfection operation is special sanitary tank operation mode to kill and to prevent growth of viruses inside the tank.

Before set this function, the value of code 6 should be set as 1.

- **Function code 23, 24: Setting the range of weather-dependent operation**

Weather-dependent operation is that the unit automatically adjusts target

temperature (outflow water or room air) according to the outdoor air temperature.

Value of code 23: Lower limit of the outdoor air temperature;

Value of code 24: Upper limit of the outdoor air temperature;

- **Function code 25: Setting temperature gap from target temperature of cooling operation**

Set the temperature gap from target temperature (outflow water or room air) in cooling mode;

This value requires frequent On and Off of the unit.

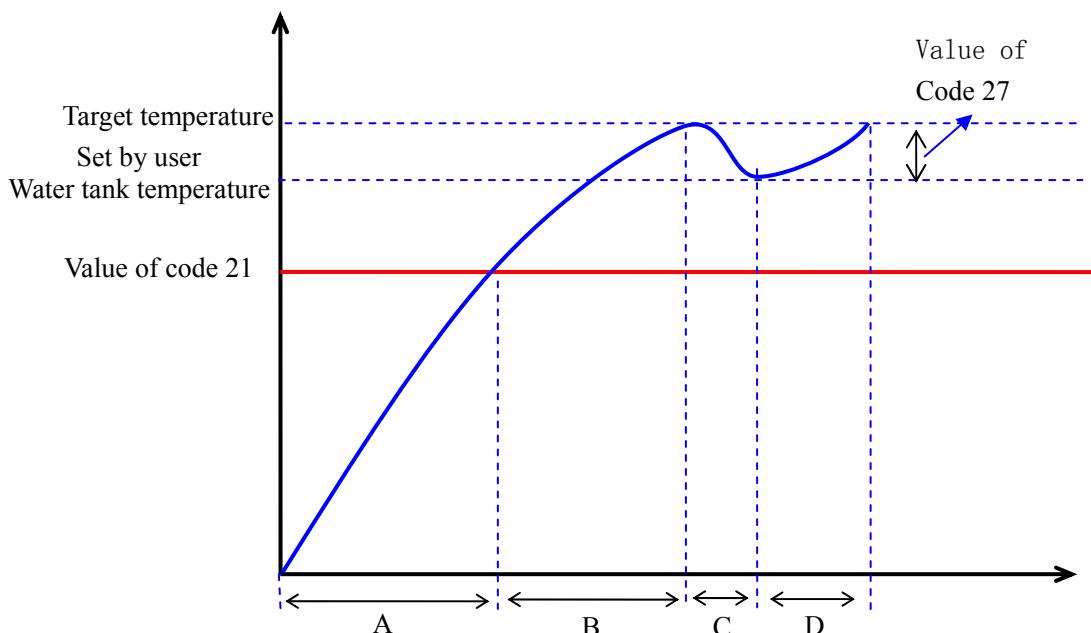
- **Function code 26: Setting temperature gap from target temperature of heating operation**

Setting the temperature gap from target temperature (outflow water or room air) in heating mode;

This value requires frequent On and Off of the unit;

- **Function code 27: Setting temperature gap from target temperature of sanitary heating operation**

Set the temperature gap from target water tank temperature in sanitary heating mode.



A: heating by heat pump

B: heating by water heater in tank

C: no heating

D: heating by water heater in tank

Sanitary water heating

3.5 Set engineer function parameter

1. Press and buttons at the same time and hold on 5 seconds to enter engineer function setting mode. Icon will display.



2. Press button to select the function code that you want to set.



3. Press button to enter function parameter setting mode. The function parameter is flashing.



4. Press button to adjust desired parameter.



5. Press button to save the desired parameter.



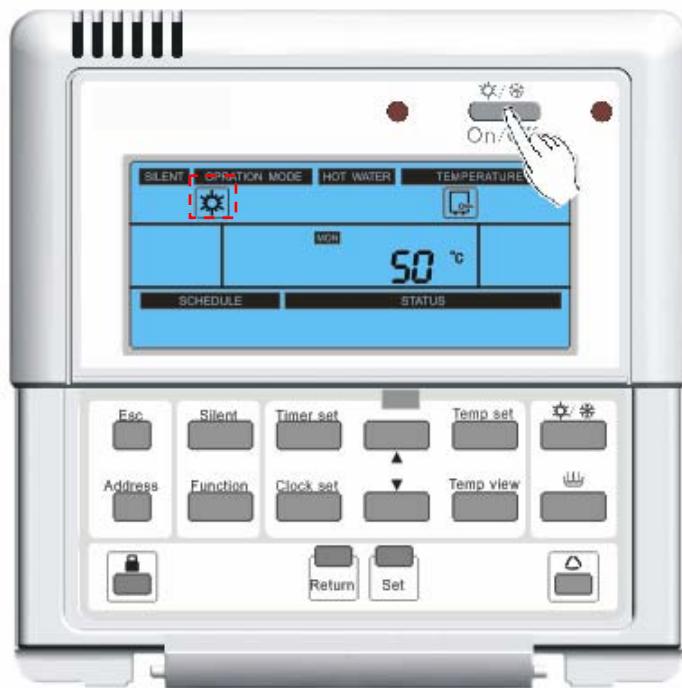
6. Repeat step 2 to 5 to set other function parameter, or press button or button to return to the main menu.

The table of user function parameter

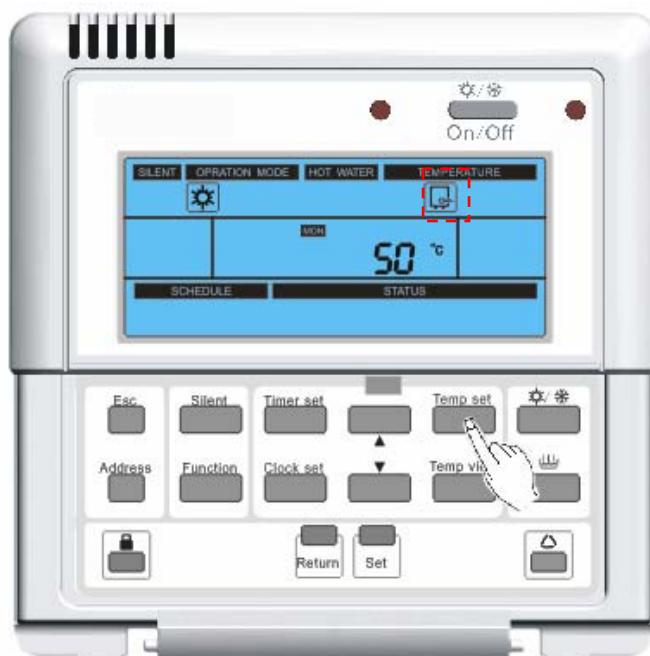
Code	Function description	Detail	Range
1	Setting interval of defrost mode	/	30~60minute(default:50)
2	Setting duration of defrost mode	/	1~15minute(default:10)
3	Setting enter temperature of preventing freezing operation	/	1~5°C(default:3°C)
4	Setting exit temperature of preventing freezing operation	/	6~14°C(default:12°C)
5	Setting enter temperature of anti-high temperature operation	/	55~60°C(default:58°C)
6	Setting exit temperature of anti-high temperature operation	/	40~54°C(default:53°C)
7	Setting enter temperature of defrost operation	/	-10~0°C(default:-4°C)
8	Setting exit temperature of defrost operation	/	5~30°C(default:15°C)

3.6 Set target temperature

1. Press  button or  button to turn on the unit



2. Press repeatedly  button to select one target temperature:  room temperature,  outflow water temperature,  sanitary water tank temperature,  and solar outflow water temperature. The setting temperature is blinking.



- Note:
1. In heating or cooling mode, you can select room temperature or outflow water temperature
 2. In sanitary heating mode, you can select sanitary water tank temperature and solar leaving water temperature (solar kit is installed)
 3. Room temperature setting is available when you have selected room temperature as control target. Please refer function code 01.
 4. In heating mode, if weather depending mode is activated, you can't set the room temperature or outflow water temperature.

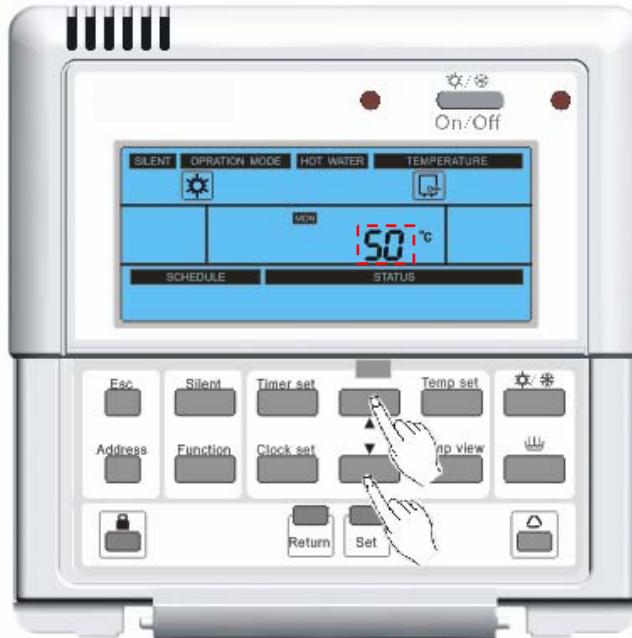
In heating mode , there are two Heating operation level:

- high temperature cycle
- low temperature cycle

please refer to In function code 19 ;



3. Adjust desired temperature by pressing button.



Note: 1 : Increase 1°C or 1°F for each press.

2 : Decrease 1°C or 1°F for each press.

4. Press button to save the setting target temperature and return to the main menu.

The range of the setting temperature

(unit:°C)

Temperature	Mode	Temperature range
Outflow water temperature (NO FCU)	cool	7~25(default:7)

Outflow water temperature (FCU)	cool		18~25(default:18)
Outflow water temperature	heat	high temperature cycle	25~55(default:40)
		low temperature cycle	25~45(default:40)
Room temperature	cool		18~30(default:20)
Room temperature	heat		18~30(default:26)
Sanitary water tank temperature	/		40~80(default:50)

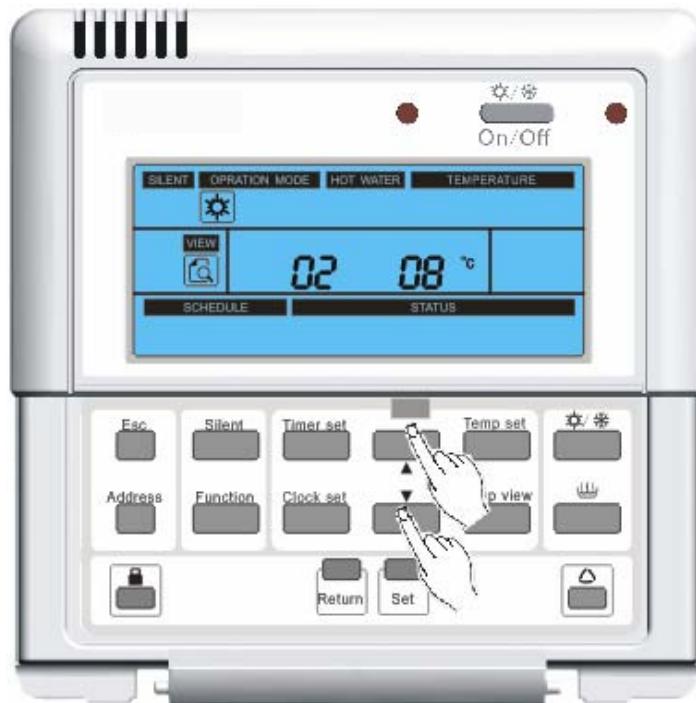
3.7 View temperature



1. Press button to enter viewing temperature interface. Icon will show.



2. Press button to select one temperature code.



The table of view temperature

Temperature code	Function description
1	Outer ambient temperature
2	Suction temperature
3	Discharge temperature
4	Defrost temperature
5	The temperature of liquid pipe inside refrigerant
6	Inlet temperature
7	Outlet temperature
8	Internal electric heater outlet temperature
9	Sanitary water tank temperature 2
10	Sanitary water tank temperature 1
11	Room temperature
12	The temperature of gas pipe inside refrigerant
13	Other thermal outlet temperature

Esc**Return**

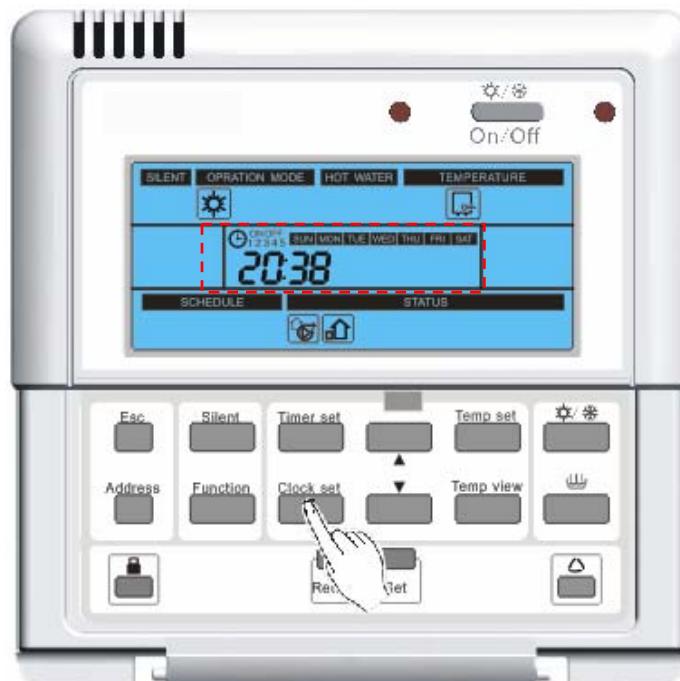
3. Press **Esc** button or **Return** button to return to the main menu. The system will automatically release without any input after 20 seconds.



3.8 Set current time

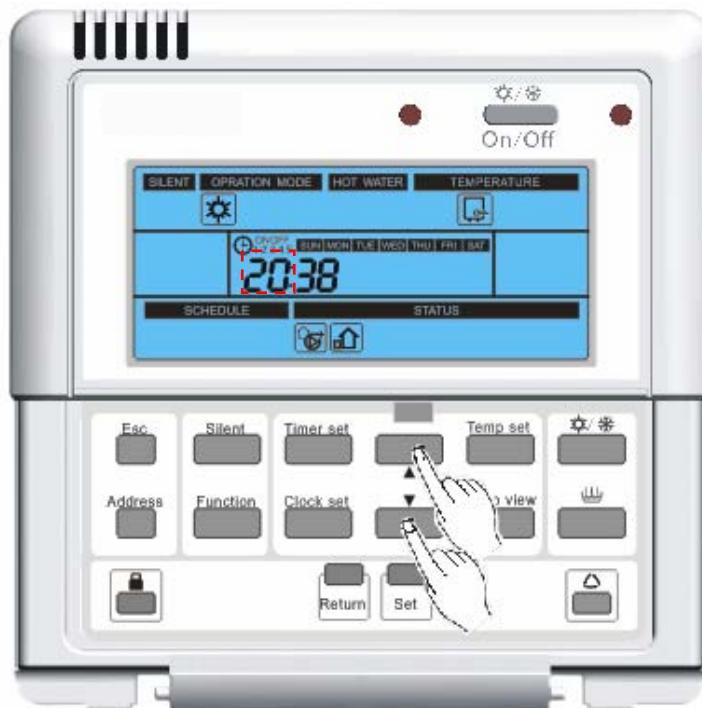
Clock set

1. Press button to enter setting current time mode. The current setting hour is blinking.





2. Press button to adjust desired hour.

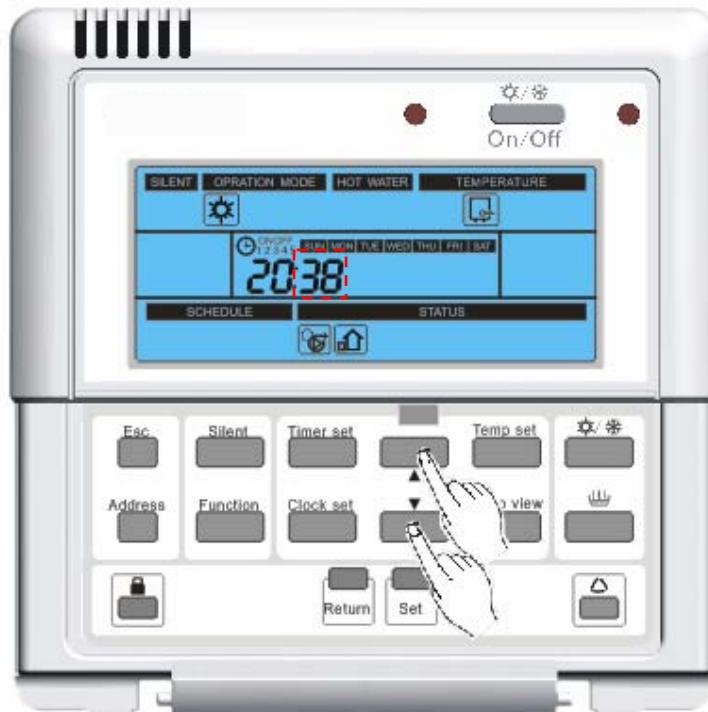


3. Press button to save the setting hour and the system will automatically enter setting current minute mode. The current setting minute is blinking.





4. Press button to adjust desired minute.



5. Press button to save the setting minute and the system will automatically enter setting current day mode. The current setting day is blinking.





6. Press button to adjust desired day.



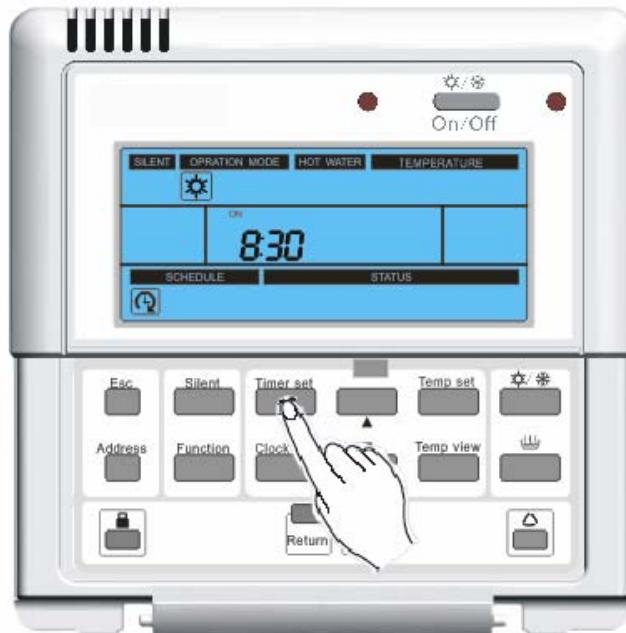
7. Press button to save the setting day and the system will automatically return to main menu. The current time has been set successfully.



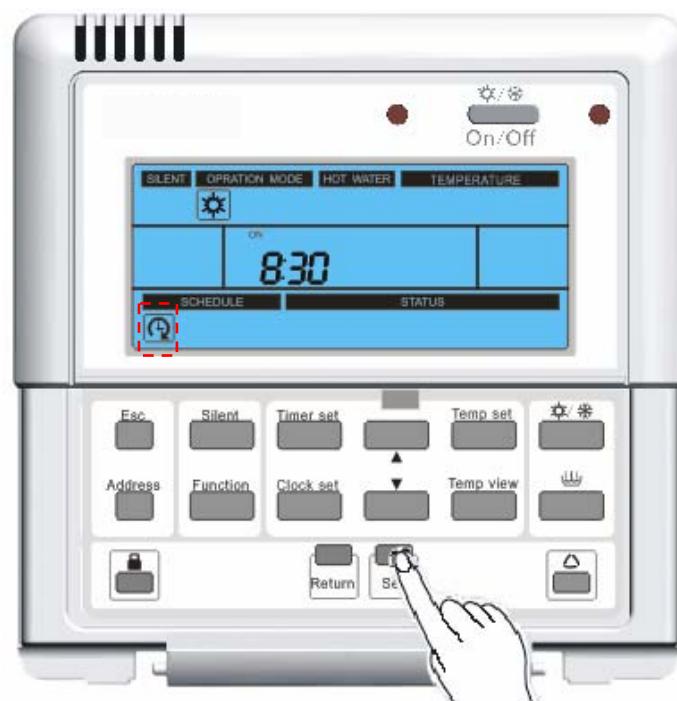
3.9 Set timer

3.9.1 Set 24 hour reservation or 24 hour decrease reservation

1. Press repeatedly  button to select setting 24 hour reservation or 24 hour



decrease reservation. 24 hour reservation icon  or 24 hour decrease reservation icon  will show. The default operation model icon of 24 hour reservation or 24 hour decrease reservation will flash.





2. Press button to select the operation mode of the 24 hour reservation or 24 hour



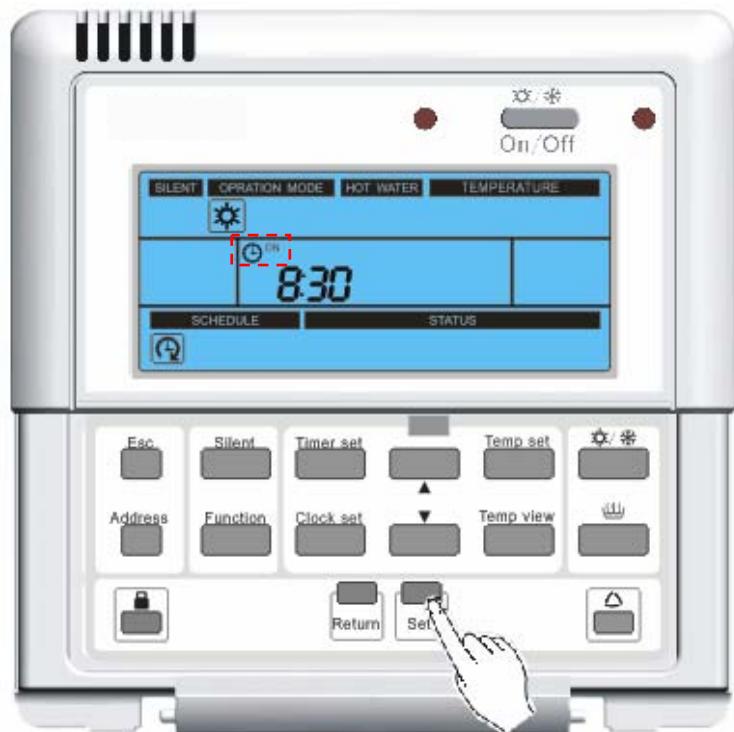
decrease reservation (heating mode , cooling mode , sanitary heating mode , heating mode + sanitary heating mode , cooling mode + sanitary heating mode).



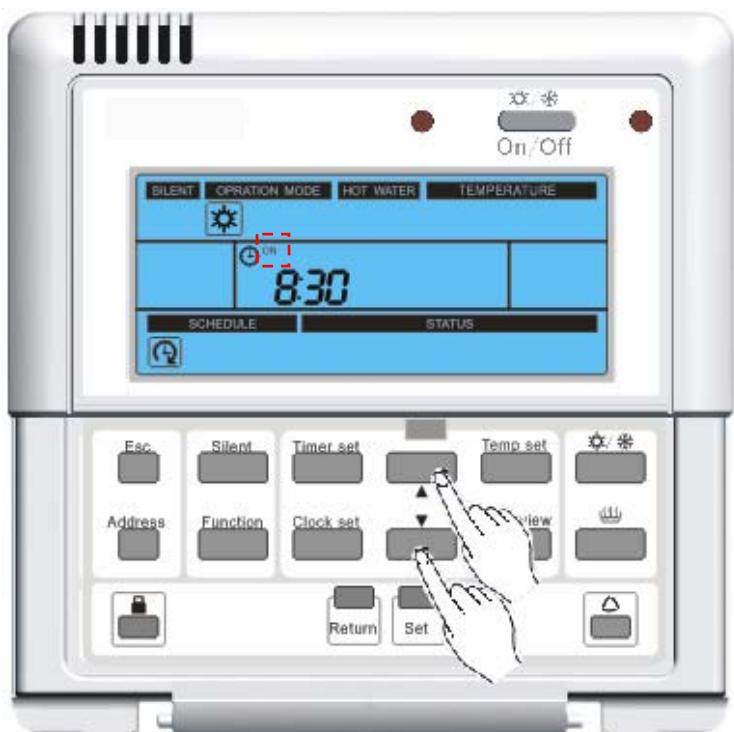
3. Press button to save the operation mode of the 24 hour reservation or 24 hour decrease reservation. The system will automatically enter selecting ON/OFF of the 24 hour reservation or 24 hour decrease reservation. ON/OFF is flashing.



Note: If 24 hour reservation or 24 hour decrease reservation is set, pressing button will cancel the current 24 hour reservation or 24 hour decrease reservation, and return to main menu.

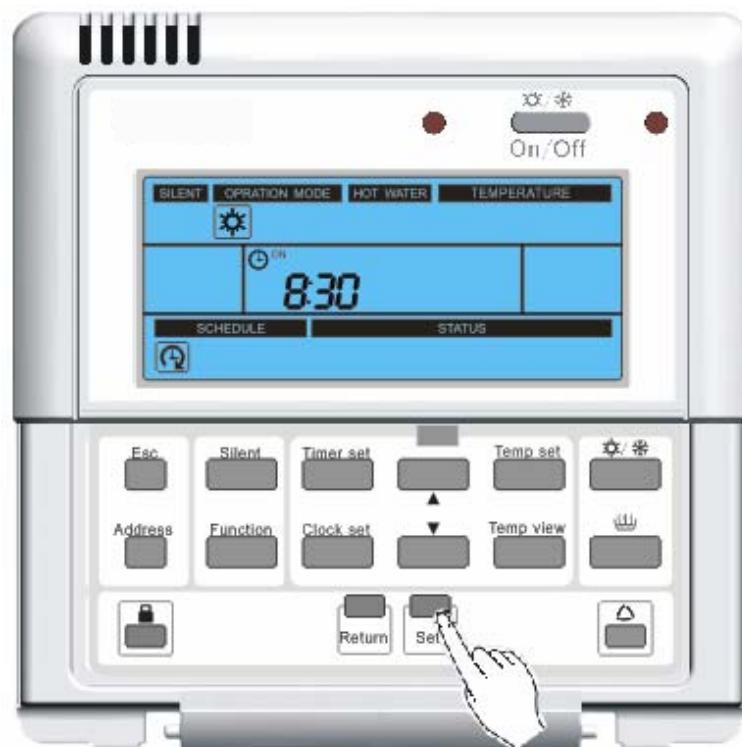


4. Press button to select ON/OFF of the 24 hour reservation or 24 hour decrease reservation (on mode **ON**, or off mode **OFF**)

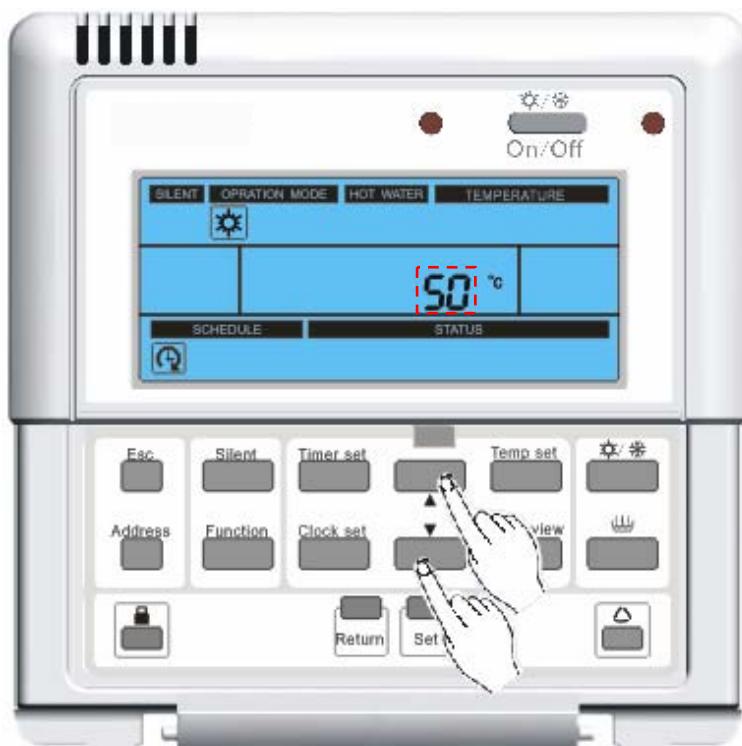


5. Press button to save ON/OFF mode of the 24 hour reservation or 24 hour decrease reservation and the system will automatically enter next step. If ON mode is

selected, it will enter step 6, or step 8. The value that you want to set is flashing.

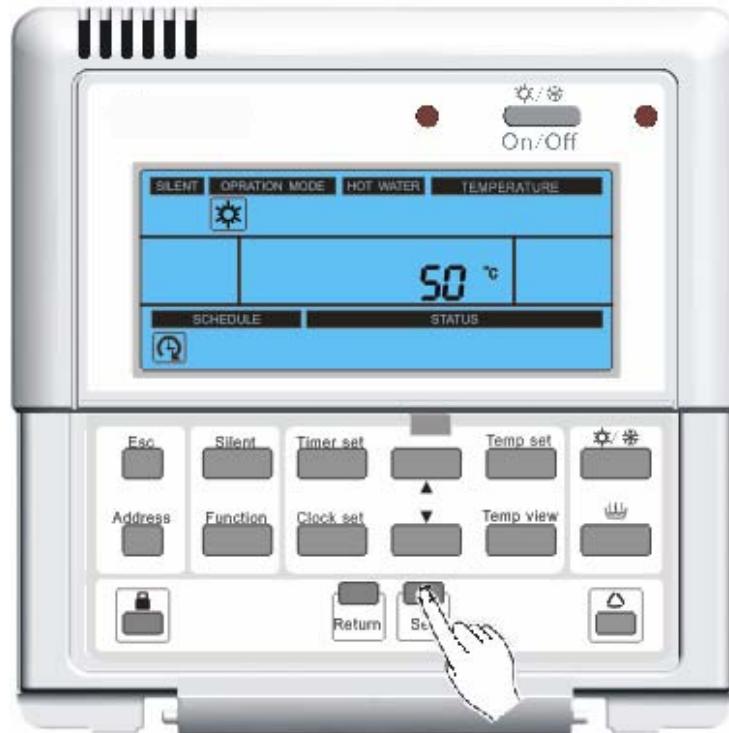


6. Press button to adjust target temperature of the 24 hour reservation or 24 hour decrease reservation.

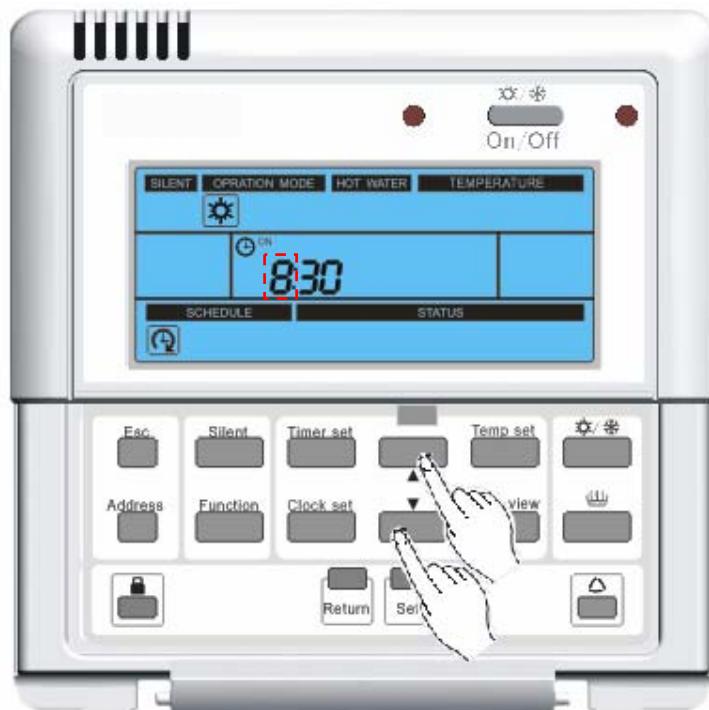




7. Press **Set** button to save the target temperature of the 24 hour reservation or 24 hour decrease reservation and system will automatically enter the interface of adjusting hour of the 24 hour reservation or 24 hour decrease reservation.

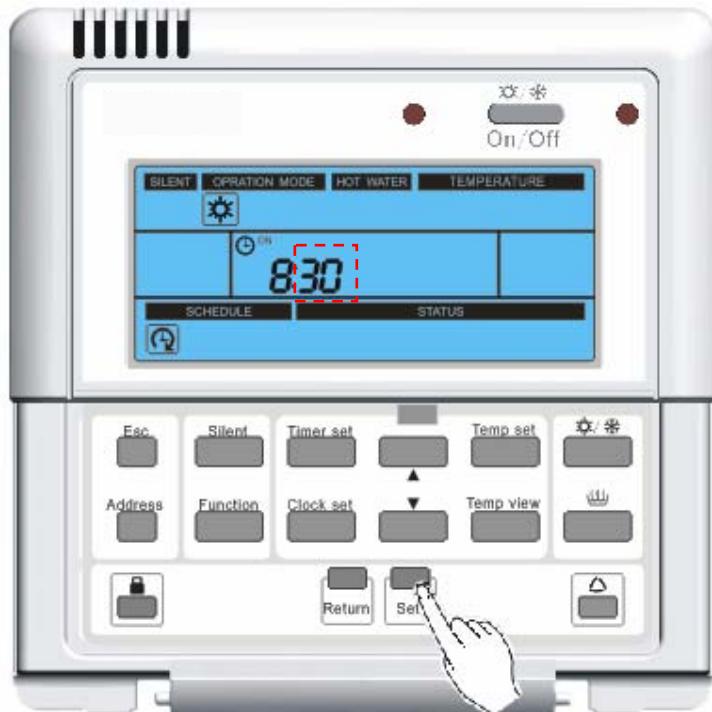


8. Press **Up and down arrow** button to adjust hour of the 24 hour reservation or 24 hour decrease reservation.

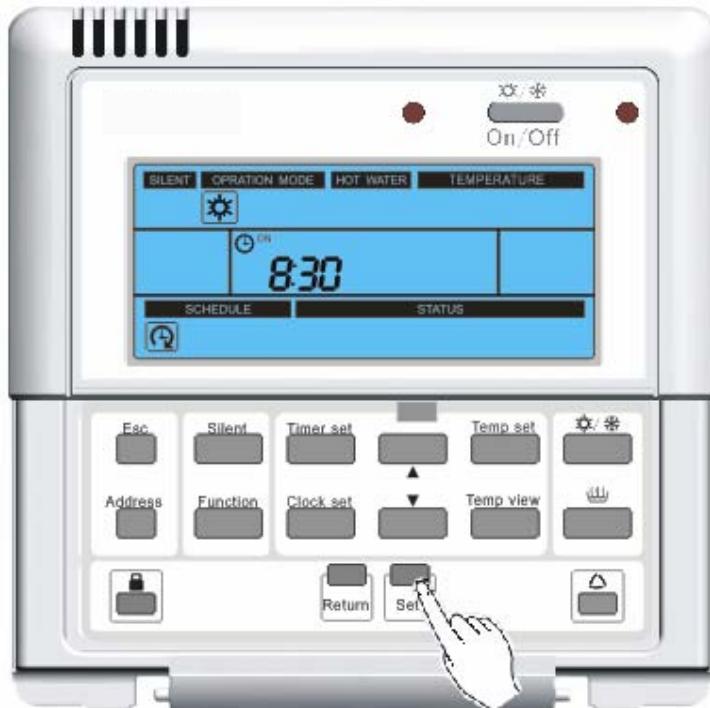




9. Press **Set** button to save the hour of the 24 hour reservation or 24 hour decrease reservation and the system will automatically enter the interface of adjusting minute of the 24 hour reservation or 24 hour decrease reservation.



10. Press **Up and down arrow** button to adjust minute of the 24 hour reservation or 24 hour decrease reservation.





11. Press **Set** button to save the minute of the 24 hour reservation or 24 hour decrease reservation and the system will automatically return to main menu. 24 hour reservation or 24



hour decrease reservation has been set successfully. 24 hour reservation icon or 24



hour decrease reservation icon will show.

3.9.2 Set weekly reservation



1. Press repeatedly **button** to select weekly reservation. The weekly reservation icon will display. The default operation model will flash.



2. Press **button** to select the operation mode of the weekly reservation (heating mode , cooling mode , sanitary heating mode , heating mode + sanitary heating mode , cooling mode + sanitary heating mode).



3. Press **Set** button to save the operation mode of the weekly reservation and the system will automatically enter setting target temperature mode of the weekly reservation. The value that you want to set is flashing.



4. Press **button** to adjust target temperature of the weekly reservation.



5. Press **Set** button to save the target temperature of the weekly reservation and the system will automatically enter selecting day of the weekly reservation. The day selected is flashing.



6. Press **button** to select one day of the weekly reservation.



7. Press **Set** button to save the day of the weekly reservation and the system will automatically enter the interface of adjusting hour of startup time in the first action of this day.



8. Press **button** to adjust hour of startup time in the first action of this day.



9. Press **Set** button to save the hour of startup time in the first action of this day. The

system will automatically enter the interface of adjusting minute of startup time in the first action of this day.



10. Press button to adjust minute of startup time in the first action of this day.



11. Press button to save the minute of startup time in the first action of this day. The system will automatically enter adjusting hour mode of stop time in the first action of this day.



12. Press button to adjust hour of stop time in the first action of this day.



13. Press button to save the hour of stop time in the first action of this day and system will automatically enter adjusting minute mode of stop time in the first action of this day.



14. Press button to adjust minute of stop time in the first action of this day.



15. Press button to save the minute of stop time in the first action of this day. The system will automatically enter adjusting hour mode of startup time in the second action of this day.



16. Repeat steps 8 to 15 to program other actions of this day, or press button to return to step 7.



17. Repeat steps 6 to 15 to program other day of weekly reservation, or press button to return to the main menu. The weekly reservation has been set successfully. The



weekly reservation icon will flashing;

3.9.3 Holiday Reservation (weekly reservation canceling)



1. If weekly reservation is activated, press repeatedly button to select holiday reservation. The holiday reservation icon will show.



2. Press button to enter the interface of selecting day of the holiday reservation. The day have been set in weekly reservation will show and it is flashing.



3. Press button to select one day that you want to clear.

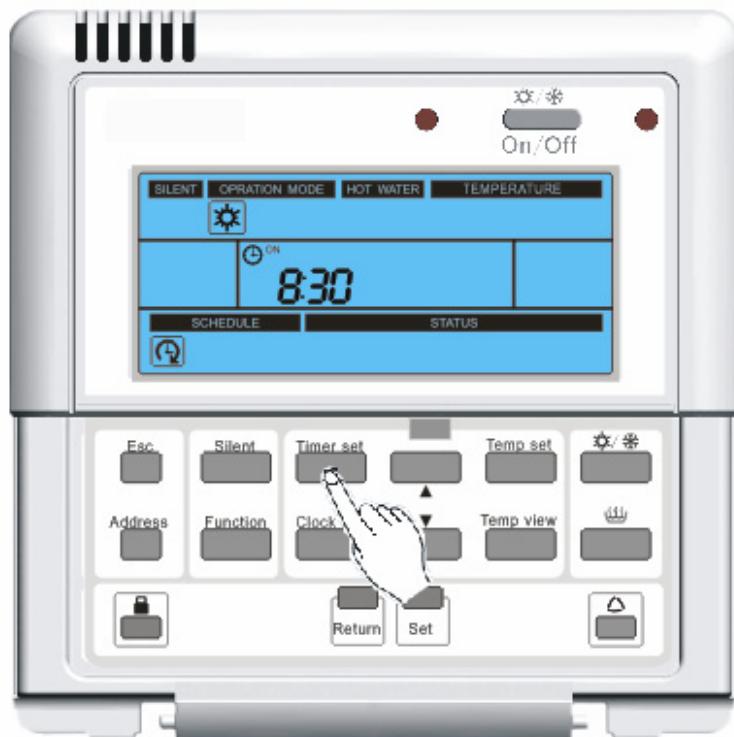


4. Press **Set** button to clear the day in weekly reservation.
 5. Repeat steps 3 to 4 to clear other day in weekly reservation (until no day is in weekly reservation, the system will automatically return to the main menu). Or press **Esc** button or **Return** button to return to the main menu.

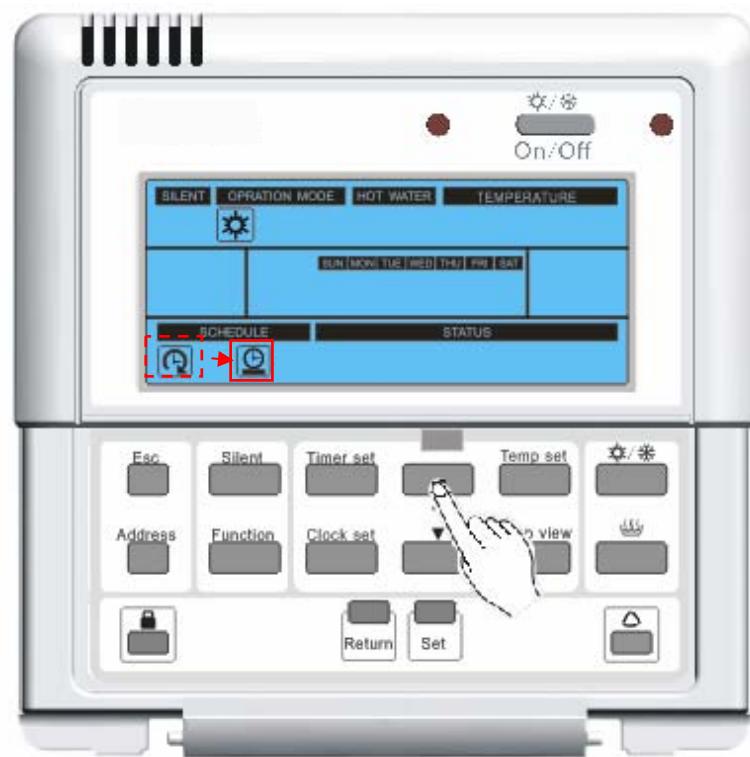
3.9.4 View timer---Timing

Press “Timer set” in the main menu for 5 seconds to enter “timing” menu. There won’t be any response if there is no timing.

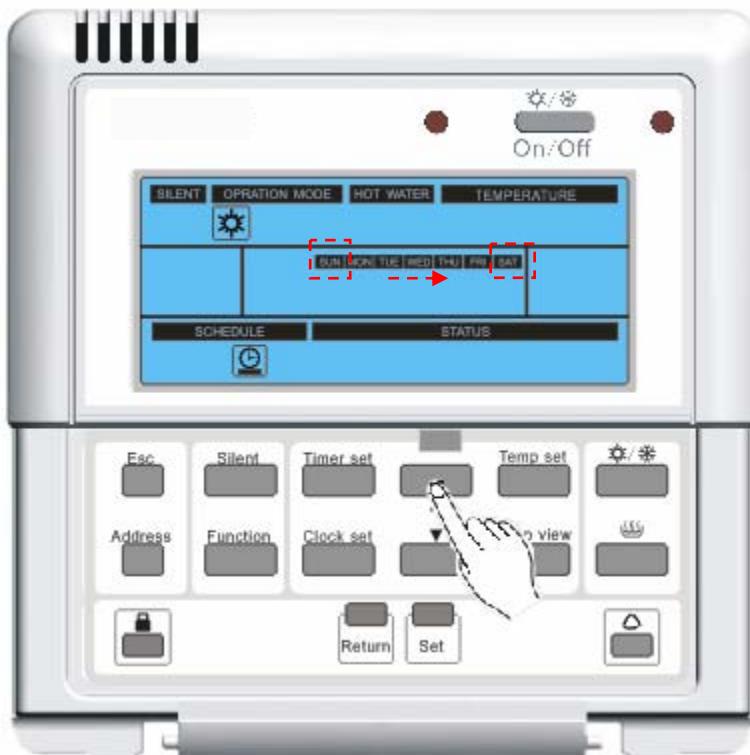
Hour timing (ON or OFF) indicates relevant icon; the numbers indicate at what time the unit will be turned on or off automatically. Press “Return” or “Esc” menu to exit current timing menu and come back to the main menu.

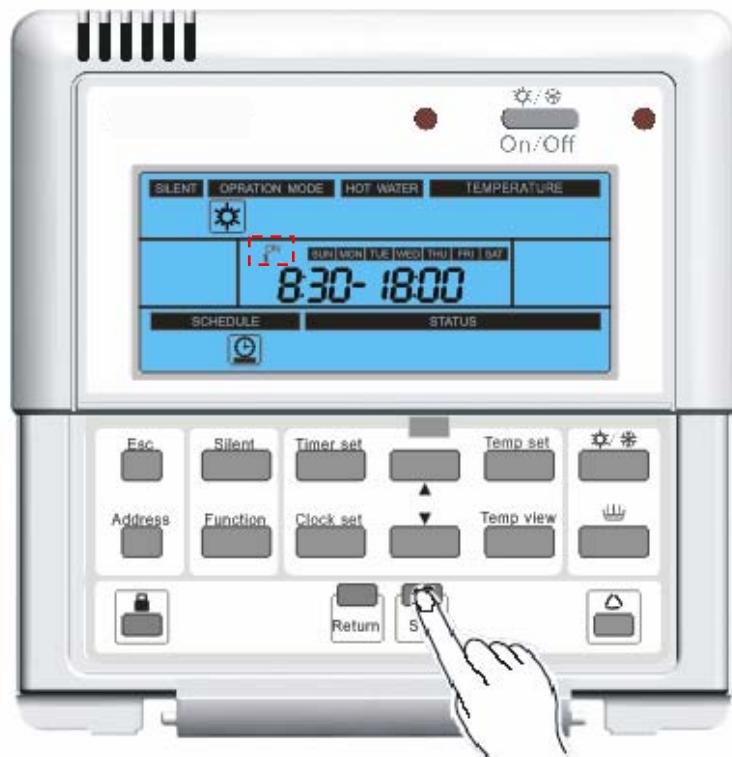


In timing menu, hour timing or count down setting is the priority (as a default function)..Press “▲”or “▼” bottom to shift to weekly timing menu.



Weekly timing indicates relevant icon. Press “▲” or “▼” button to check which weekday were set. The selected weekday flashes. Press “Set” to view the set time. Press “▲” or “▼” to view the next setting times.





Count down setting (ON or OFF) indicates relevant icon. The numbers indicate the time being set to turn on or turn off the unit automatically. Press “Return” or “Esc” menu to exit current timing menu and return to the main menu.

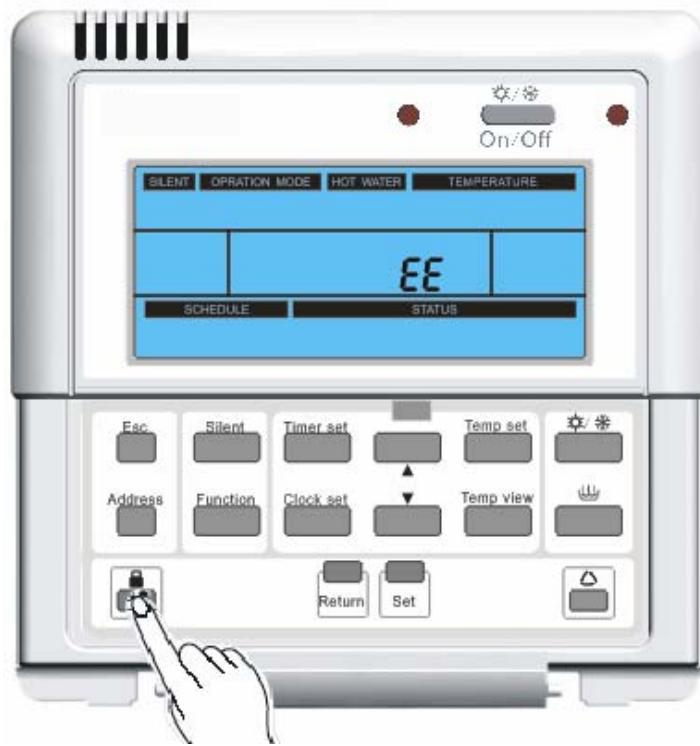


If there is no operation in 20 seconds, the system will exit current setting menu automatically.

3.10 Child lock

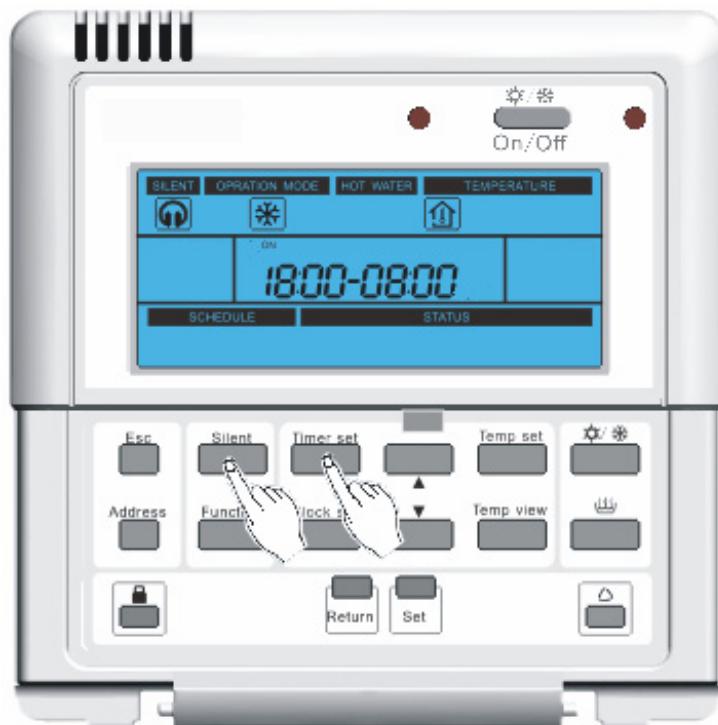
This function is to prevent children or other people from using controller.

1. Press button for 5 seconds to enter this mode.
2. During child lock, 'EE' will display always, and nothing will happen whenever entering any kind of buttons except for button for 5 seconds.
3. Press button for 5 seconds again to exit this.



3.11 Timing Silent

When the wired controller shows the main interface, press “Timer set” & “Silent” button for 5 seconds to enter timer silent interface. The silent icon, “ON” and the last set time of timer silent will display, while the starting hour of timer silent will blink (18: 00~8: 00 is defaulted upon initial energization).

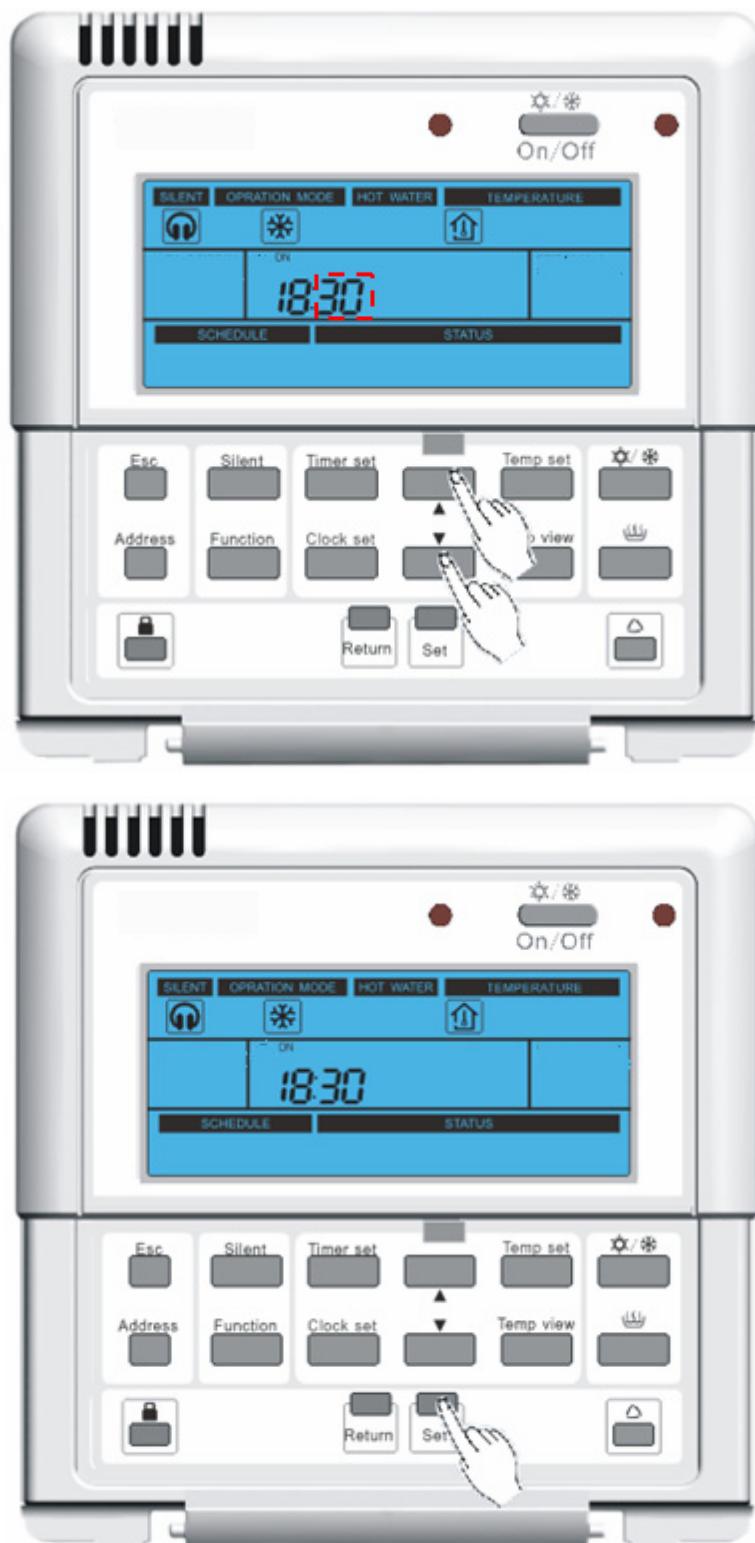


Steps for Setting Timer Silent

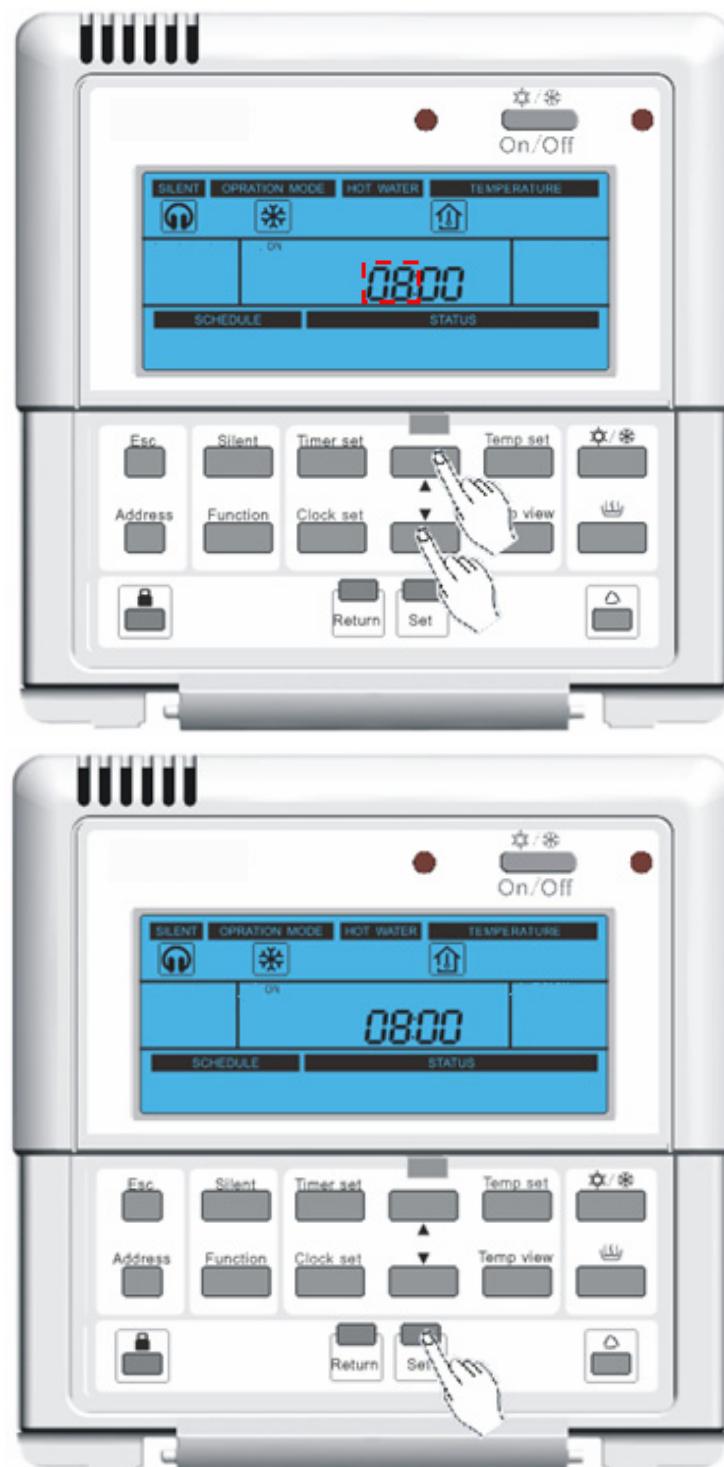
1. Press “▲” and “▼” button to adjust starting hour. Press “Set” button to save the adjustment and set starting minute.



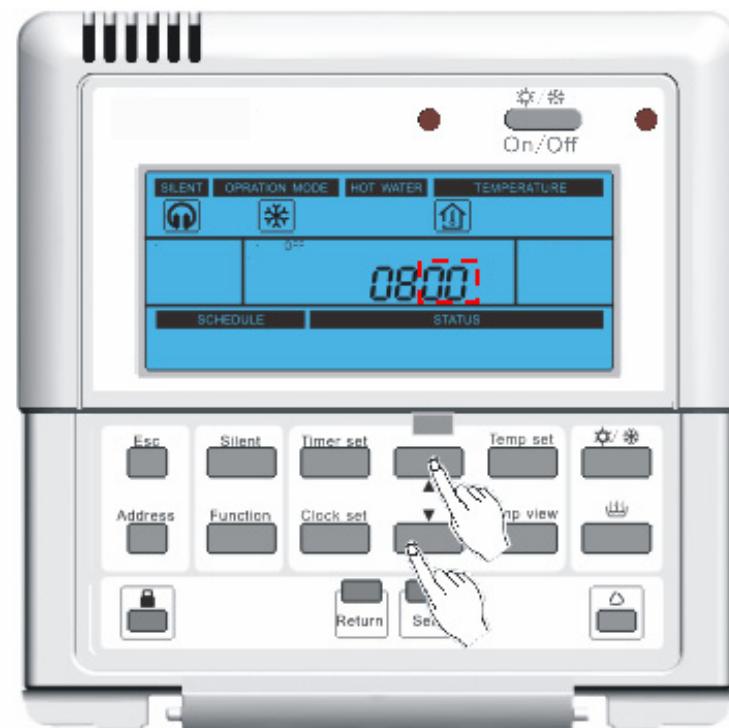
2. Press “▲” and “▼” button to adjust starting minute. Press “Set” button to save the adjustment and to set stopping hour, with “OFF” icon showing.



3. Press “▲” and “▼” button to adjust stopping hour. Press “Set” button to save the adjustment and set stopping minute.



4. Press “▲” and “▼” button to adjust stopping minute. Press “Set” button to save the adjustment and return to main interface. Then the timing silent function is set successfully.



5. During operation, press “**Return**” or “**Esc**” button to save the adjustment and return to main interface. But the timing silent function is not set successfully.

3.12 Timing Temperature

- When the wired controller shows the main interface, press “Timer set” & “Temp set” for 5 seconds to enter timing temperature setting interface. When the setting is finished, the  icon will flashing;
- When the Timing Temperature setting is succeed , press “Timer set” & “Temp set” for 5 seconds to cancel the **Timing Temperature**.



- Steps for setting timing temperature

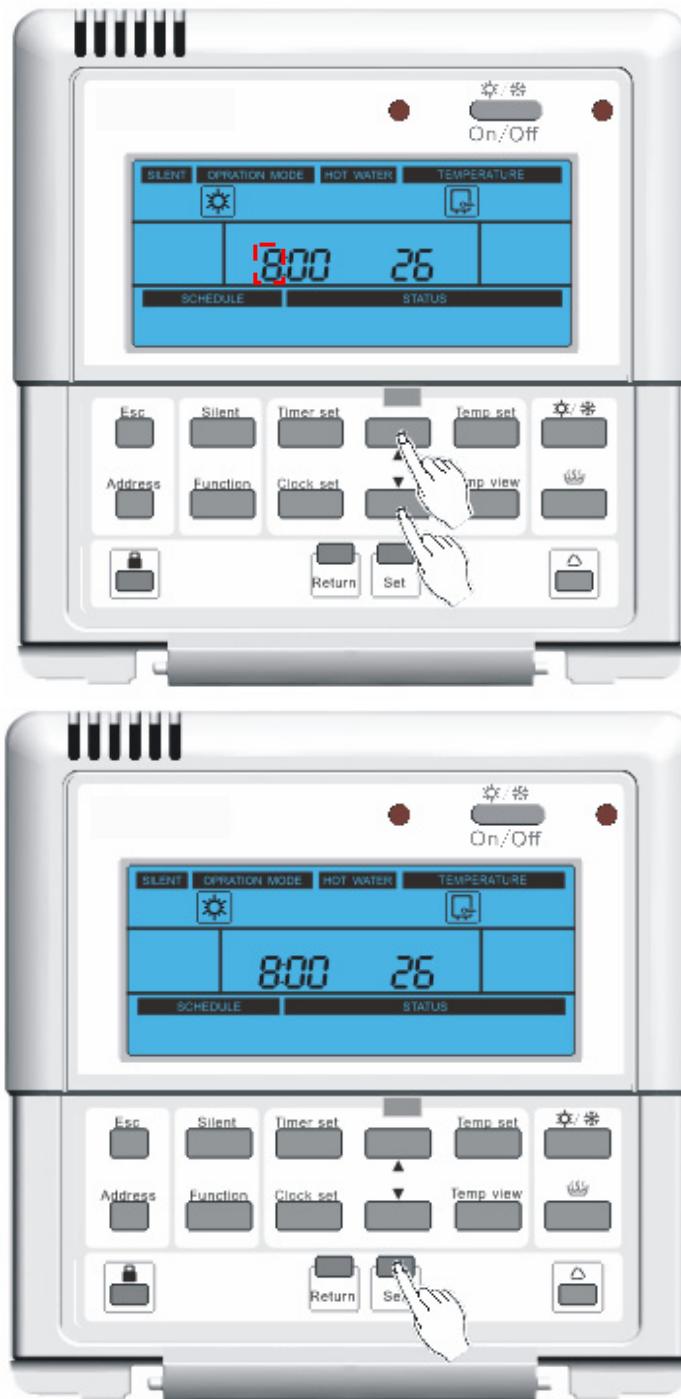
Step 1: Select timing temperature mode

Selection of timing temperature mode: the last timing temperature mode is defaulted. Heat mode is defaulted upon first energization. Press “▲” and “▼” button to select timer mode, including heating and cooling. Press “Set” button to save the selection. Then timing temperature function is set successfully.



Step 2: Set timing temperature of the first period

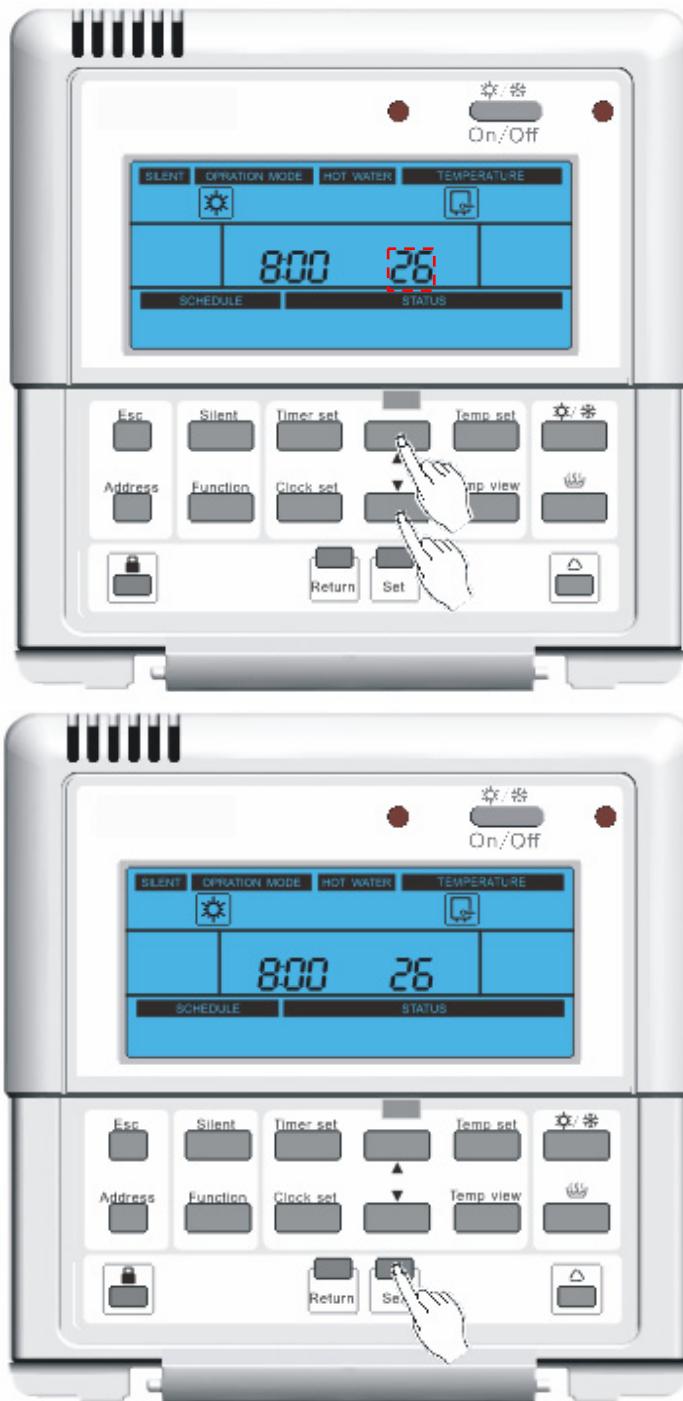
1. The last timing temperature of the first period is defaulted. (The defaulted time is 8: 00 upon initial energization. If the reference point is indoor temperature, the defaulted temperature is 20°C for cooling and 26°C for heating. If the reference point is outflow water temperature, the defaulted temperature is 18°C for cooling and 40°C for heating.) Press “▲” and “▼” button to adjust starting hour. Press “Set” to save the adjustment,



2. and to set starting minute of first period. Press “▲” and “▼” button to adjust starting minute. Press “Set” to save the adjustment,

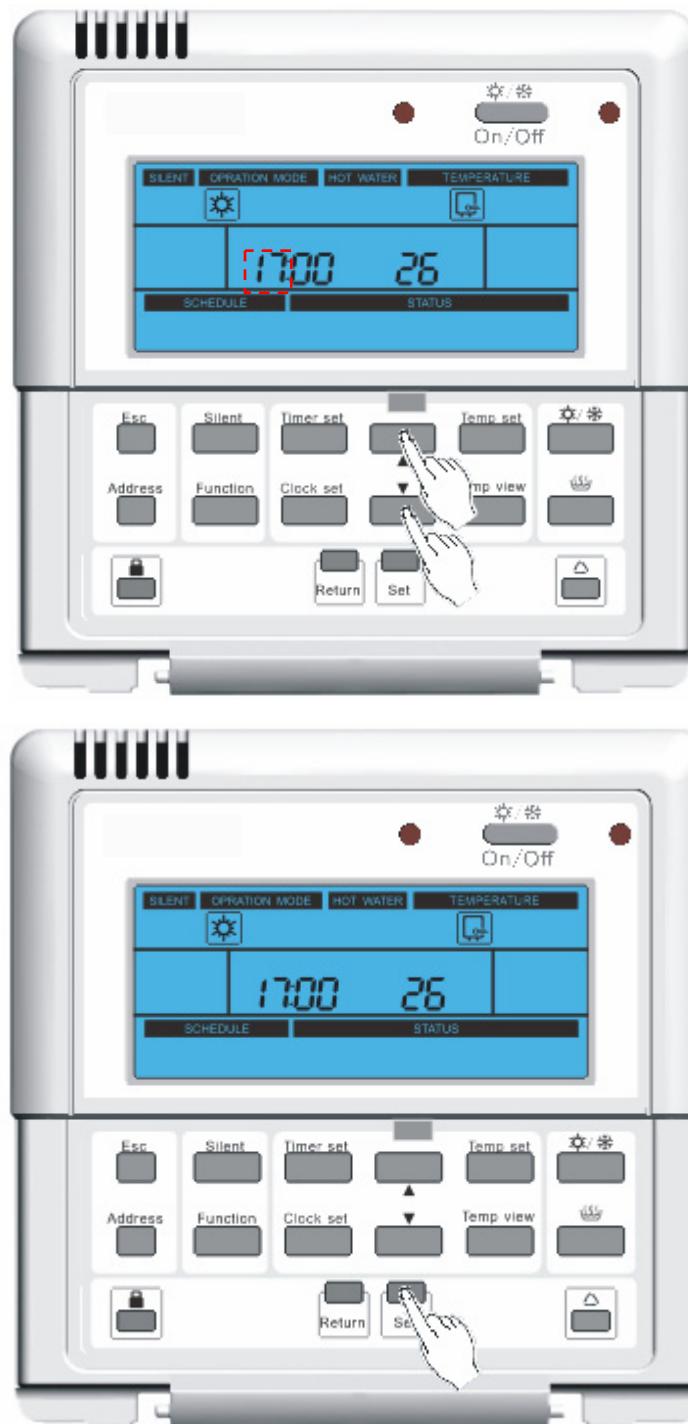


3. and to set timing temperature of the first period. Press “▲” and “▼” button to adjust temperature. Press “Set” to save the adjustment and to set timing temperature of the second period. During operation, press “Return” or “Esc” button to save the set value and return to main interface. The unset items are defaulted to be the last set values.



Step 3: Set timing temperature of the second period

1. The last timing temperature of the first period is defaulted. (The defaulted time is 17: 00 upon initial energization. If the reference point is indoor temperature, the defaulted temperature is 20°C for cooling and 26°C for heating. If the reference point is outflow water temperature, the defaulted temperature is 18°C for cooling and 40°C for heating.) Press “▲” and “▼” button to adjust starting hour. Press “Set” to save the adjustment and to set starting minute of second period.



2. Press “▲” and “▼” button to adjust starting minute. Press “Set” to save the adjustment and to set timing temperature of the second period. Press “▲” and “▼” button to adjust temperature.



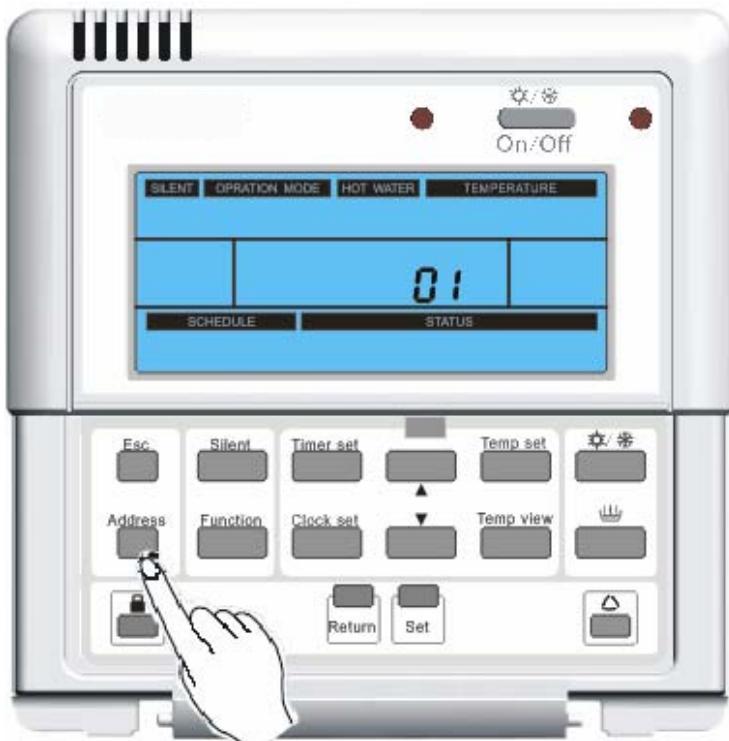


3. Press "Set" to save the adjustment. During operation, press "Return" or "Esc" button to save the set value and return to main interface. The unset items are defaulted to be the last set values.



3.13 Set address

1. Press  button to enter address viewing mode.



2. Press  button to enter address setting mode, address is flashing.

3. Press  button to adjust desired address (Range:0~125, 127~253).

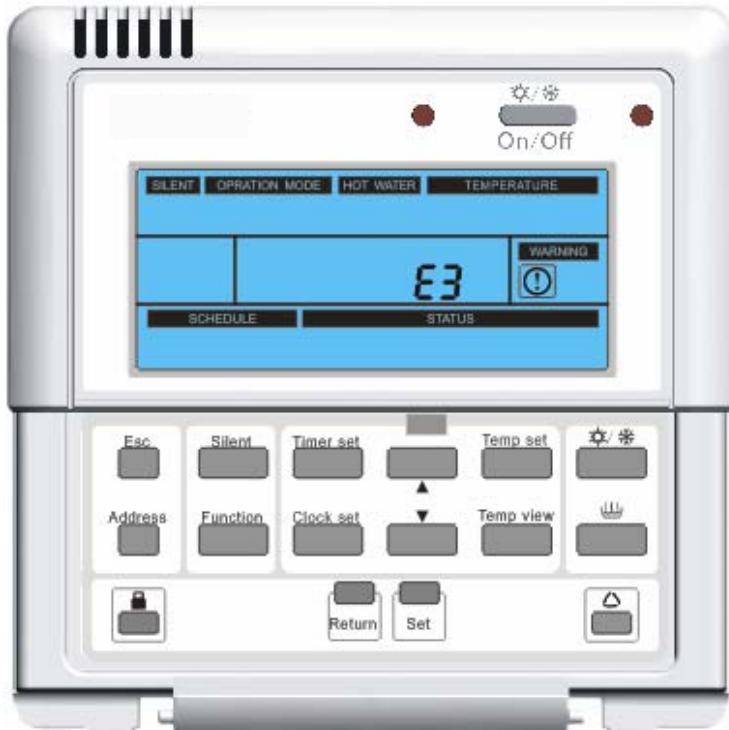
4. Press  button to save the desired address.

5. Press  button or  button to return to the main menu. The system will automatically release without any input after 20 seconds.

3.14 Error Code Display

When the error is occurred to indoor unit or outdoor unit, the error code will be

displayed on control panel. Icon  will show.



The table of error code

Error code	Error description
F4	Malfunction of outdoor environment temperature sensor
F6	Malfunction of defrost temperature sensor
F7	Malfunction of discharge temperature sensor
F5	Malfunction of suction temperature sensor
EF	Malfunction of outdoor fan
E5	Overload protection of compressor or malfunction of driver
E1	High pressure protection of compressor
E3	Low pressure protection of compressor
E4	High-temperature protection of discharge (compressor)
C5	Malfunction of indoor capacity switch
E6	Communications failure between outdoor and indoor mainboard
E6	Communications failure between outdoor mainboard and wired controller
E3	Malfunction of refrigerant lack

Fc	Malfunction of high pressure sensor
Fd	Malfunction of low pressure sensor
F9	Malfunction of outlet temperature sensor
dH	Malfunction of backup outlet temperature sensor
F1	Malfunction of liquid pipe temperature sensor inside refrigerant
F8	Malfunction of inlet temperature sensor
FE	Malfunction of the second sanitary water tank temperature sensor
FL	Malfunction of the first sanitary water tank temperature sensor
F3	Malfunction of gas pipe temperature sensor inside refrigerant
dF	Malfunction of other thermal outlet temperature sensor
F0	Malfunction of remote room temperature sensor
Ec	Malfunction of water switch
E2	Indoor anti-frozen protection
No display	Over temperature of sanitary water tank temperature
Ed	Over temperature of outlet temperature
No display	Over temperature of other thermal outlet temperature
EH	Malfunction of internal electric heater
EH	Malfunction of the first internal electric heater connection
EH	Malfunction of the second internal electric heater connection
EH	Malfunction of sanitary water tank electric heater connection
dU	Pull-out of the gate-controller

66129908701

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