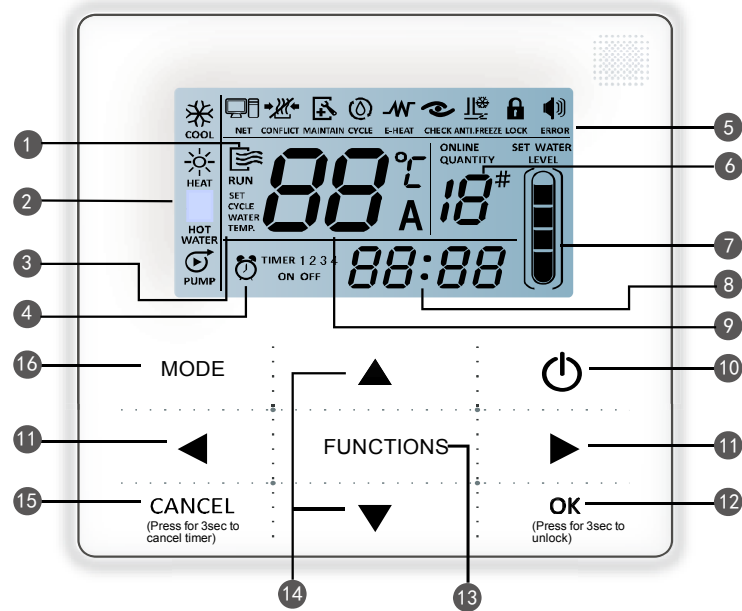



18.2.1 Overview













- ①.Operation icon
- ②.Code area
- ③.Setting temperature
- ④.Timing On/Off
- ⑤.Function Icon
- ⑥.Unit number
- ⑦.Water Level Indication(reserved)
- ⑧.Clock
- ⑨.Water temp.
- ⑩.ON/OFF Key
- ⑪.Left Right Key
- ⑫.Confirm Key
- ⑬.Function key
- ⑭.Add and Reduce key
- ⑮.Cancel key
- ⑯.Mode key

1. Operation icon : Indicate unit ON and OFF status; the icon displays when the unit is on and does not display when the unit is off;
2. Mode area: Indicate the main unit operating mode; details refer to its' manual;

3. Setting temperature: 2 status can be displayed:

	SET
WATER TEMP.	WATER TEMP.

 ;
4. Timing ON/OFF indication  ^{TIMER 1 2 3}: Indicate the timing information; details refers to page 10 of the manual;
5. Function icon

- 1)  : Displays when the unit controlled by remote switch;
- 2)  : The conflict icon.
- 3)  : Displays when the unit is needed. Press and hold "MODE" key for 3 seconds to cancel the icon and timing will restart until next maintenance;
- 4)  : The reserved icon. ;
- 5)  : The reserved icon. ;
- 6)  : Displays when check function is on; details refers to the manual;
- 7)  : Displays when ambient temperature is low which means the main unit need anti-freezing action;
- 8)  : Displays when no key operation for 2 minutes and all keys are locked. Press and hold "OK" key for 3 seconds to unlock;
- 9)  : Displays when error or protection occurs and means the unit need maintenance by professionals.

6The unit number: The user can set the number, details refer to page 16 of the manual;

7. Water level indication: The reserved icon;

8. Clock: Under normal status displays clock; Under timing setting displays the setting timing, details refer to page 15 of the manual;

9. Water temperature: Under normal status display water temperature; Under water temperature setting status displays the setting value; Under check status displays check parameter, details refer to Page 9, 18 of the manual;

10. ON/OFF key: Turn on and turn off functions, details refer to page 7 of the manual.

11. Right and Left key: Press these keys to check setting water temperature; Press right key to shift to the next step setting under timing setting status; Press these keys to turn over the unit parameter information under check status;

12. OK key: Press this key to confirm settings. Press and hold this key for 3 seconds to unlock under locking status;

13. Function key: Setting water temperature, timing and clock etc, details refer to Page 9-17; Press and hold this key for 3 seconds to enter check status, details refer to page 18 of the manual;


14. Add and Reduce key: Move up or move down values of temperature, timing etc;


15. Cancel key: Press this key to cancel parameter setting under setting status; Press and hold this key for 3 seconds to cancel timing when timing is valid;



16. Mode key: Power on the cooling function, heating function or water pump function, details refer to Page 8 of the manual.

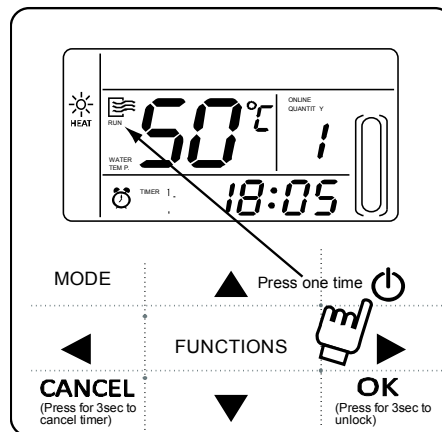
18.2.2 Operation instructions

a. Turn On and Turn Off the main unit

- 1) Press the On/Off key to control On and Off status of the main unit.
- 2) Under Off status, press the On/Off key " " to run the main unit, at that time the LCD of wired controller

will display the operation icon “”. The main unit will running as the current setting of the wired controller.

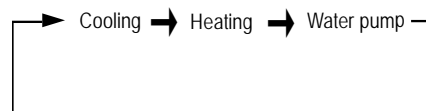
3) Under On status, press the On/Off key “” to turn off the main unit and the operation icon “” on the LCD will disappear.



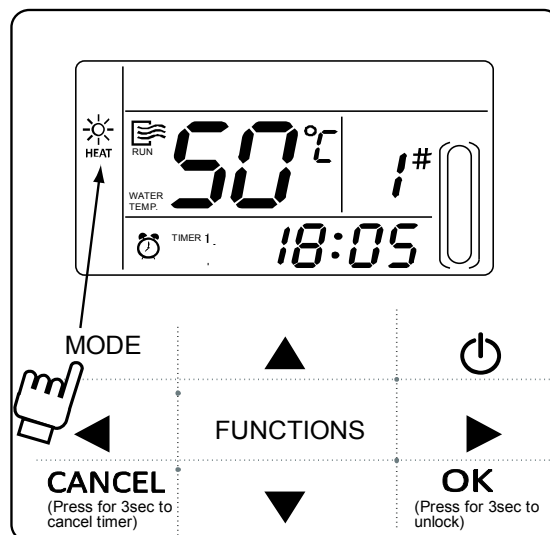
b. Setting operating mode and function parameters

1) Setting operating mode and water temperature

Setting operating mode: Press “MODE” key to choose operation mode. The setting mode will change as the following order each time the key is pressed:



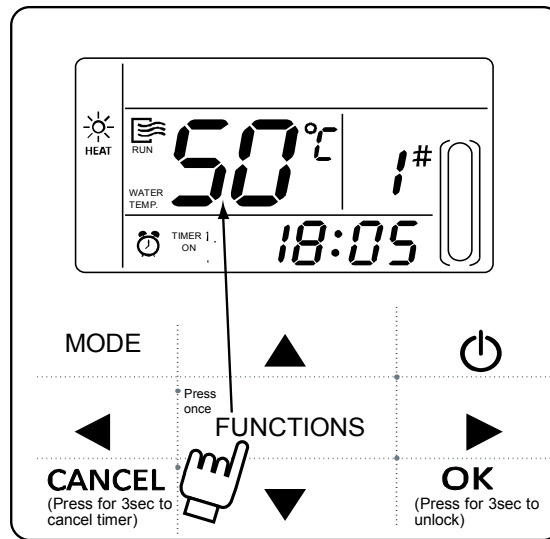
Press “OK” key or wait for 7 seconds to confirm. During the setting process pressing the “CANCEL” key to exit without saving.



2) Setting water temperature:

Method 1: Press the “▲” or “▼” to adjust the water temperature after the controller is powered on. Press “OK” key or wait for 7 seconds to confirm.

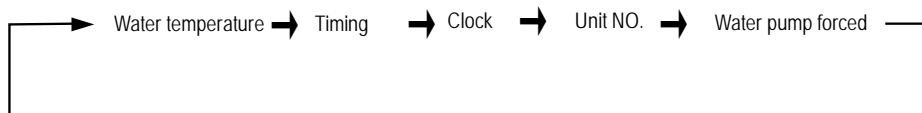
Method 2: Setting water temperature in parameters function. Press “FUNCTIONS” key under main interface once to enter water temperature setting interface. Press the “▲” or “▼” to adjust the water temperature. Press “OK” key or wait for 7 seconds to confirm.



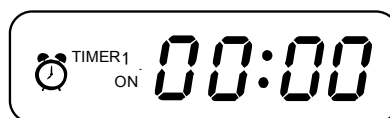
Water temperature setting check: To check the water temperature setting value, press the “◀” or “▶” key under the main page (the page displayed after the controller is powered on).

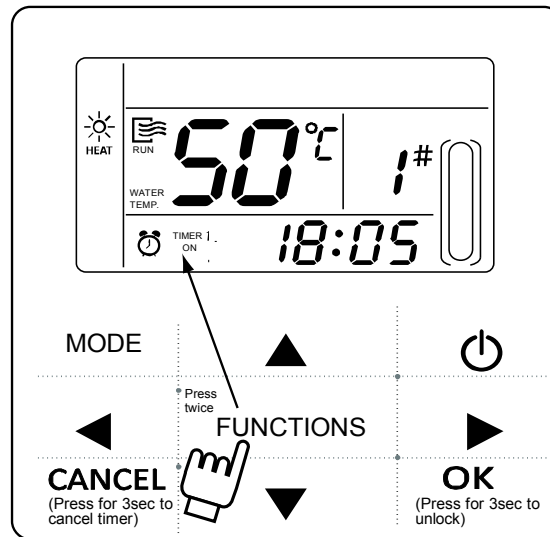
c. Setting function parameters

Press “FUNCTIONS” key to choose operation parameters. The setting function parameters will change as the following order each time the key is pressed:

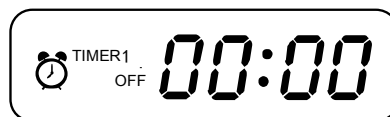


- 1) Timing setting: 3 timing periods can be set on the wired controller: Timer 1, Timer 2, Timer 3. These 3 timers can control the main unit to be turned ON and OFF 3 times at most during a day.
- 2) Setting method: press “FUNCTIONS” key under main page twice to enter timing setting. Then the LCD will display as the following:





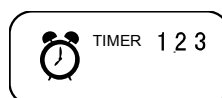
At this time the hour of the clock will flash, which means the current setting is the hour of Timer 1 “On” , press the “▲” or “▼” to adjust, press “▶” key when finished, and then the minute of the clock will flash, which means the current setting is the minute of Timer 1 “On”, press the “▲” or “▼” to adjust, press “▶” key when finished, the LCD will display as the following:



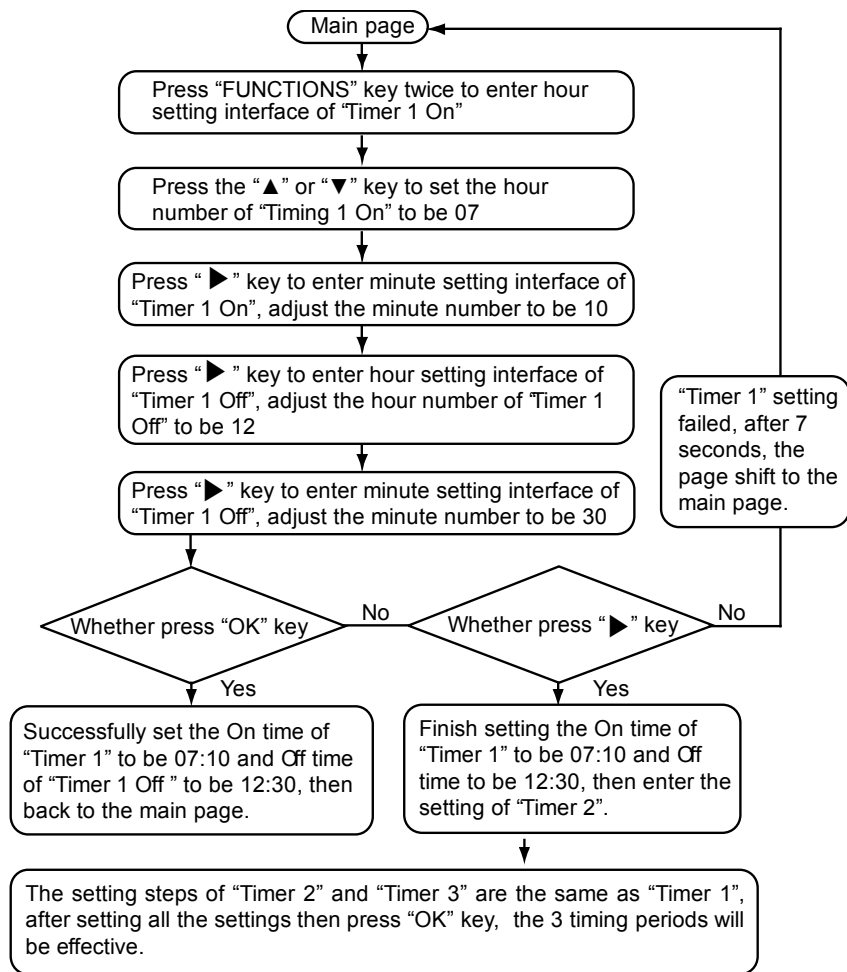
At this time the hour of the clock will flash, which means the current setting is the hour of Timer 1 “Off” , press the “▲” or “▼” to adjust, press “▶” key when finished, and then the minute of the clock will flash, which means the current setting is the minute of Timing 1 “Off”, press the “▲” or “▼” to adjust, press “▶” key when finished, the LCD will display as the following:



At this time the hour of the clock will flash, it means the current setting is the hour of the Timer 2 “On”. And the follow setting method will be the same as the Timer 1. Similarly, the setting of Timing 3 is the same as this method. After setting is finished, press “OK” key or wait for 7 seconds to confirm the setting, and the LCD will display the effective timing information, as the following display:



Example of Timing setting



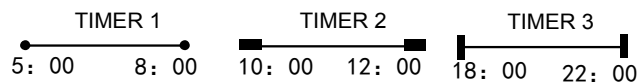
During any period of timing setting to press "OK" key, the timing periods which have been set will be effective (only if the "On" and "Off" of one timing period have been set, the setting is effective).

Check timing information: to check the timing which has been set, press "◀" or "▶" key under main page, the "On" and "Off" time of Timer1, Timer 2 and Timer3 will be displayed in turns.

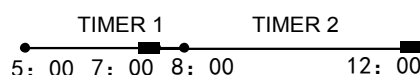
Cancel timing: press and hold "CANCEL" key for 3 seconds, then all the effective timing periods will be cancelled.

Note: Correct: To avoid timing error, each period of timing should not be crossed. E.g.:

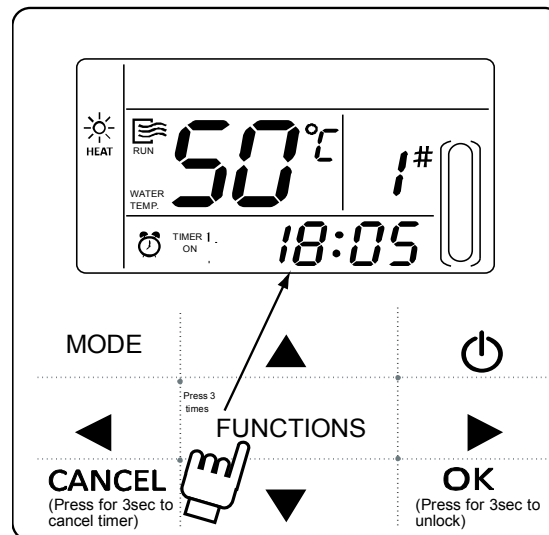
Correct:



Wrong:



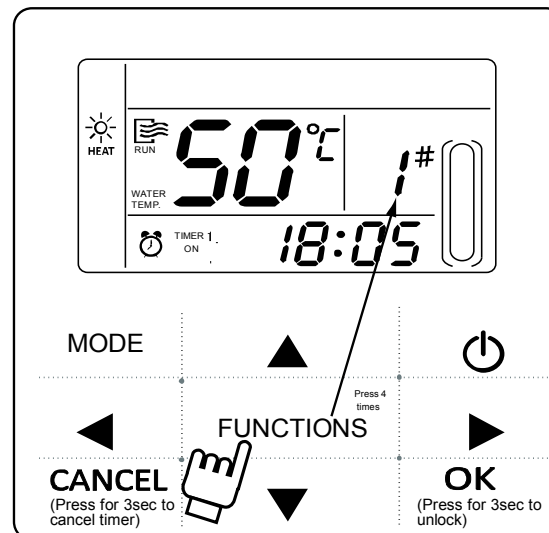
d. Setting clock



Press the “FUNCTION” key 3 times to enter clock setting. The hour of the clock will flash, which means the current setting is the hour of the clock, press the “▲” or “▼” to adjust, press “▶” key when finished, and then the minute of the clock will flash, it means the current setting is the minute of the clock, press the “▲” or “▼” to adjust, press “OK” key when finished or wait for 7 seconds to confirm. During the setting process pressing the “CANCEL” key to exit without saving.

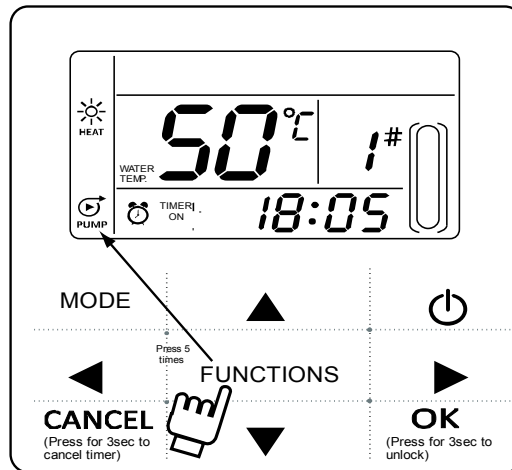
NOTE: To get the correct timing On and timing Off time, please correctly set the clock!

e. Setting unit number



Press the “FUNCTIONS” key 4 times to enter the unit number setting. Press “▲” or “▼” to adjust the unit number. press “OK” key when finished or wait for 7 seconds to confirm. During the setting process pressing the “CANCEL” key to exit without saving. The setting value is 0-18.

f. Force opening water pump



Press the “FUNCTIONS” key 5 times to force open the water pump. The water pump icon will flash.

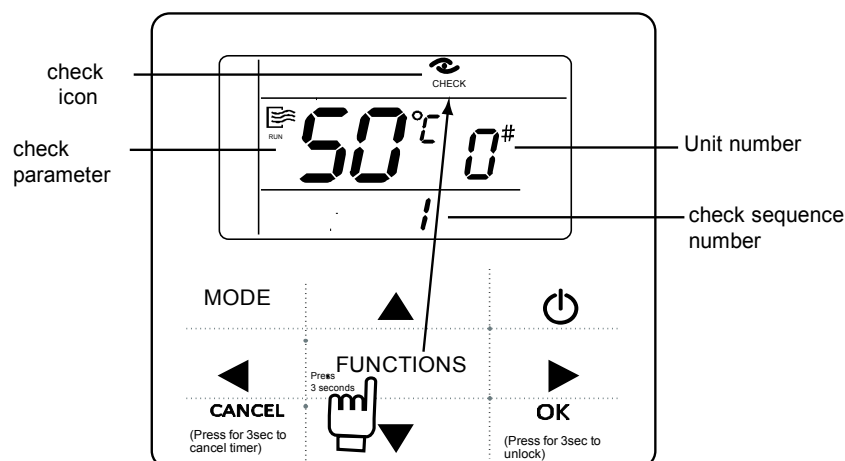
Press “OK” key to confirm. During the setting process pressing the “CANCEL” key to exit without saving.

Note:

- Forcing water pump function is only limited to stand-by mode, others modes not response.
- Under forcing water pump function, other settings will not responsible, except stopping
- When communication disconnects, it will show E2 error in 2 minutes, the wired controller will automatically cancel the forcing water pump function; while connected, the wired controller keeps synchronizing with the unit(If forcing water pump function is still on-going, the controller keeping showing its status).
- The outdoor unit does not response after activating the forcing water pump function, (eg: forcing water pump function cannot be activated under forcing heating in stand-by mode),the function will be automatically stopped if it is not activated within 5 minutes.

18.2.3 Checking function

- Check function allows the user to check all the operating parameters, error and protection information of the unit.
- Entering method: press and hold “FUNCTIONS” key for 3 seconds to enter check interface, as the figure display:



- Press “◀” or “▶” to check all the status information of the unit.

Check content when wired controller setting is 1:

(The checking content is the same as the PCB's checking.)

Order	Contents
1	Running mode: 0-shutdown,1-Pump mode,2-Cooling,3-Heating,4-Forced cooling, 5-Forced heating.
2	Fan speed:0-Shutdown,1~7-Fan speed.
3	Total capacity requirements.
4	The revised capacity requirements.
5	Cooling/heating temp. setting.
6	T3 temperature value
7	T4 temperature value
8	Tp temperature Value
9	Tin temp. Value (Inlet water temperature)
10	Tout temp. Value (Outlet water temperature)
11	Tb1 temp. Value (Temperature 1 of heat plate)
12	Tb2 temp. Value (Temperature 2 of heat plate)
13	T6 temp. Value (Reserved)
14	Outdoor unit current
15	Power supply voltage AD value
16	Electronic expansion valve opening steps
17	The unit model:10-10kW,12-12kW,14-14kW,16-16kW
18	The program version number
19	The last error cord
20	The second error cord
21	The first error cord
22	---