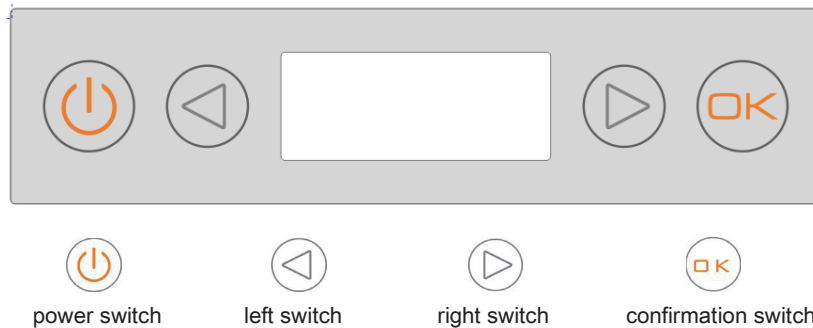


**SCHEMATIC DIAGRAM OF CONTROL PANEL**




**RUN CONDITION**

1. Water pump surf : AC220V/1.5HP
2. Thermostatic heating : AC220V/1500W
3. Blower : AC220V/300W
4. Bottom lamp : DC12V/1Wx2
5. Ozone : DC12V/6W
6. Loudspeaker : 8Ω/15W

**OPERATION MANUAL**

When any function button works, there is a sound of “ di...”

1. “  ” POWER

Press “  ” for 2 seconds to start the controller, at the same time, the lamp is turned on; press the icon again to stop the controller and all the loads are turned off.

2. LAMP






When the system is on, press continuously “  ” and “  ” till the cursor is on “  ”; then press “  ”, lamp is turned on; press “  ” another time, lamp is turned off.

3. LOCK





If no operation with the control panel for 3 minutes, all the keys will be locked except “LOCK”, LCD displays “LOCK”.

When the keys were locked, press any key for 3 seconds, the keys will be unlocked after a “di...”, icon “LOCK” disappear.





5. Ozone (FM radio on, ozone will be turned off automatically)

- When the system is on, press continuously “  ”, “  ”, when the cursor is on “  ” press “  ” ozone will be started. And LCD symbol will be displayed dynamically. Press “  ” again, ozone will be turned off.
- Ozone will be turned off automatically after being started 10 minutes.












6. Blower












When the system is on, press continuously “  ” “  ” till the cursor moved to “  ”, and then press “  ” to start the blower. the cursor blinks; press again, blower is stopped.

7. Water pump surf













- The water checking device of this controller protects the water pump from burning out.
- When the system is on, press “  ” “  ” till the cursor moved to “  ”, while the water level achieves the setting value, and then press “  ” to start the pump, the cursor blinks; press again, Water pump surf is stopped.
- When the water level lowers than the setting value, pump stops working.
- When the water surf pump function is on, and the system checks the water level lower than the setting value, water surf pump function stops automatically, at the same time the pump icon blinks. When any time the system checks the water level achieves the setting value, the icon stops blink and the pump starts to work.

8. FM Radio (when the ozone is on, FM will be turned off automatically)

- The FM frequency scope is 87.5MHz—108.0MHz.
- When the system is on, press “  ” “  ” till the cursor moved to “  ”, and then press “  ” to turn on the FM Radio Function, at the same time, the LCD displays the current frequency and “FM”; press the icon “  ” again, FM function stops while the current frequency and “FM” disappears.
- When the FM function is on, press “  ” till the LCD blinks “FM” and “MHZ”, the system enter into the state of adjusting the frequency.
  - press “  ” to increase the length of one step (the length of one step =100KHz): Press this button over 2 seconds, the system searches the radio stations of larger frequencies automatically; the digital phase locked loop will lock the FM station automatically and the LCD shows the present frequency, when it reaches to the limit of 108.0MHz, press this button again and the frequency jumps to 87.5MHz.
  - press “  ” to decrease the length of one step (the length of one step =100KHz). Press this button over 2 seconds, the system searches the radio stations of smaller frequencies automatically; the digital phase locked loop will lock the FM station automatically and the liquid crystal shows the frequency of this station; When it reaches to the limit of 87.5MHz, press this button again and the frequency jumps to 108.0MHz.
- When the FM radio is on, press “  ” till the LCD blinks “VOL”, and then press “  ” to increase the volume and press “  ” to decrease the volume. The volume adjusting range is 0-20, and 21 in total.

- Station storage / select
  - Station storage: when FM function is on and select the station frequency to be stored, press “” to select the location for storage “CH” and number below it shall blink, and press the icon “” “” to choose the location(1-18,all18 ); press the icon “”, the station frequency shall be stored in the selected storage location. And LCD will resume to current frequency.
  - Station select: When FM function is on, press “” the corresponding stored station can be selected by press “” and “” to choose from (1-18,all 18stations)
  - When pressing “” and entering a certain function state, within 5 S without pressing “”、“”, system will automatically exit that function operation state. Or by pressing “” function choosing key to exit that function.

9. Thermostatic heating

- This functions works only when the water pump surf function is on.
- Press “” “” till the cursor moved to “”,and then press “” to start the thermostatic heating function.
  - Thermostatic heating function starts or stops according to the water temperature and set temperature (the temperature that the system defaults is 37oC) :  
Controlling rule is as follows:  
If the temperature $\geq$ setting temperature+1 ℃,stop heating and LCD heating symbol blinks;  
If the temperature $\leq$ setting temperature -1 ℃ , start heating and LCD heating symbol displayed in dynamical way.
- Press “” again to stop the function.
- Temperature adjustment
  - When the thermostatic heating function is on, press “” till “C”on LCD blinks, then press “” or “” to adjust the temperature. During the adjusting, LCD ddisplays the setting temperature, then the temperature shall be increased /decreased 1 ℃ after press “” “” once;When pressing “” or “” more that 2S,the temperature will increase or decrease by“1 ℃ /0.5s”;stop adjusting for 5 seconds,LCD shall display the current water temperature and system exit temperature adjustment.
- Temperature setting range: 35 ℃--45 ℃
- If the temperature sensor occurs error, LCD displays “E1” and the controller sounds “di...di...”, in this case the heater cannot be start.