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Steam Room Controller

Operation & instruction manual

For Livinghouse steam room generators
6kW / 9kW / 12kW



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Controller general maintenance

1. Use a soft cloth with a little soap water to clean the controller.
2. Do not use abrasive cleaning equipment or liquids.
3. If the controller appears damaged, contact a service electrician to change it.

Safety operation instructions

Warning:

If the installation and operation instructions are not fully understood, do not install or use in case of improper installation and / or operation.

It is important to follow the installation instructions carefully otherwise the temperature in the steam room may be too high or not heated enough.

If the controller is installed outside the steam room, the temperature sensor must be installed in the bathroom.

Caution:

Do not install the controller wire in the same wall channel as the main electric wire.

Do not install too close to hot water or the steam pipe otherwise the controller may malfunction or the bathroom may be overheated.

Important :

Before installing the controller, make sure the steam generator is shut off otherwise the controller may malfunction or be damaged.

Do not use the controller to operate the steam generator of other brands, otherwise the operation may malfunction or be damaged.

The instruction includes important safety, operation and maintenance information. Keep the instructions in a safe place.

If the steam generator is damaged or does not work normally, do not continue to install or use the controller, otherwise the controller may malfunction.

Specification for the controller

Controller set includes

1. Generator controller
2. Temperature sensor and holder
3. Connecting power cables
4. User manual

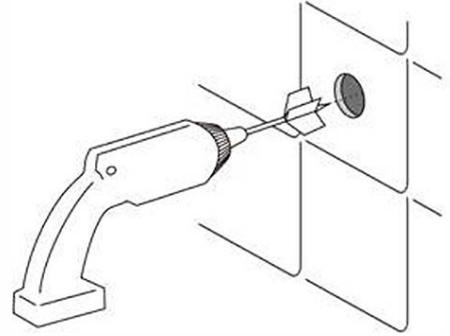


Important : Before installing the controller, make sure the steam generator is shut off otherwise the controller may malfunction or be damaged.

Step one

Determine the installation location of the controller.

1. Controller should be 4-5 feet (1.2m - 1.5m) from the ground.
2. Keep away from the steam nozzle and do not expose in the direct path of steam.
3. Install on a vertical wall.
4. The position of installation should allow for easy operation and ease of wiring.
5. The controller wire is 1.6 feet (450mm) long with a controller lengthened wire of 20 feet long (6 metres) maximum. With the installation of the controller it should be positioned no more than 21 feet (6.4 metres) from the steam generator. If a longer wire is needed, contact the distributor.



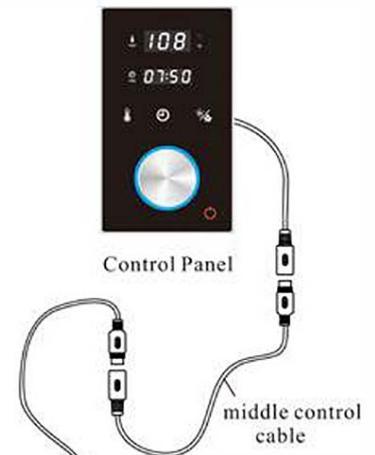
Important : Do not install the controller under the path of the shower water or in a position where the controller will be in direct contact with water or steam.

Step two

Drill a round hole of 1.38" (35mm) in diameter in a chosen position.

Step three

Pull the controller wire through the round hole, connect it to the longer wire and then to the steam generator. Connect with the corresponding wire on the generator. When the computer wire is plugged in or removed, do so horizontally to avoid any damage to the computer cable pins.



Important : Do not pull tight, fix tight or damage the controller wire.

Step four

Start the power supply of steam generator, check each item on pages 3-4 to make sure all functions work well.

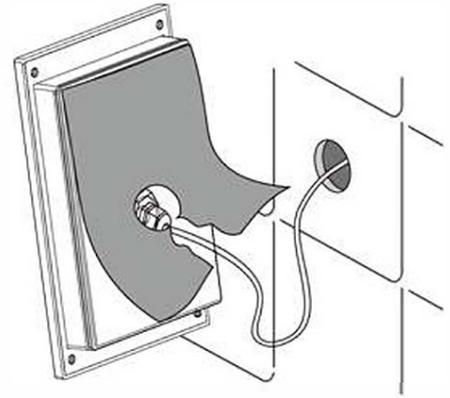
Important : Before installing the controller, make sure the steam generator is off, otherwise the controller may malfunction or become damaged.

Step five

Remove the backing paper at the back of the control.
To achieve good adhesion, keep the sticking surface clean and dry.

Step six

Locate the display screen in a direction of 12 o'clock
Press the controller tight to the wall.



Important : To ensure horizontal installation of the controller use a spirit level if necessary.

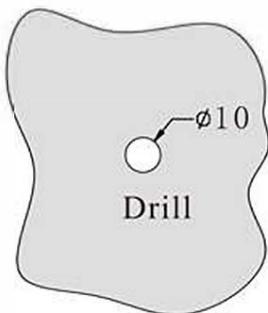
Step seven

Drill a round hole of 0.4" (10mm) in diameter in the chosen position.
Put the TEMP sensor holder into the hole and lock it with supplied nut (more details on Page 6).

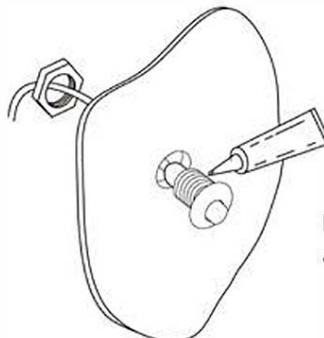


Temperature sensor installation

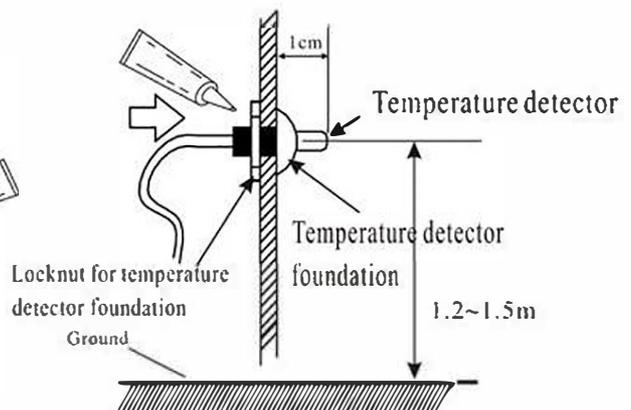
1. The position of the temperature sensor should be within a range of 1.2 - 1.5m above the ground.
Try to avoid installing near the steam nozzle or the opening to steam room door.
2. As shown in Fig.1, drill a small hole of 10mm in the selected position.
3. Apply a circle of silicon along the edge of the back of the detector foundation (as shown in Fig.2).
4. Use the supplied locknut to lock the sensor or silicon into position. (As shown in Fig.2)
5. Let the temperature sensor go through the back of the detector foundation (As shown in Fig.3)
6. The temperature sensor should be installed by extending out 1 cm from the front of the wall covering to ensure the best accuracy of the temperature control.
7. Apply glue to the back and fix the detector. (As shown in Fig.3)



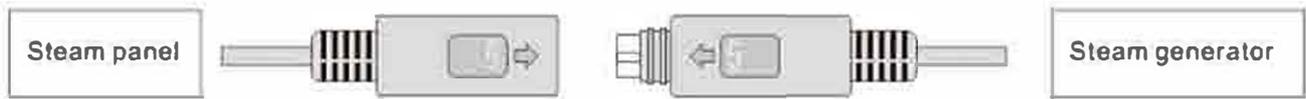
(Fig.1)



(Fig.2)

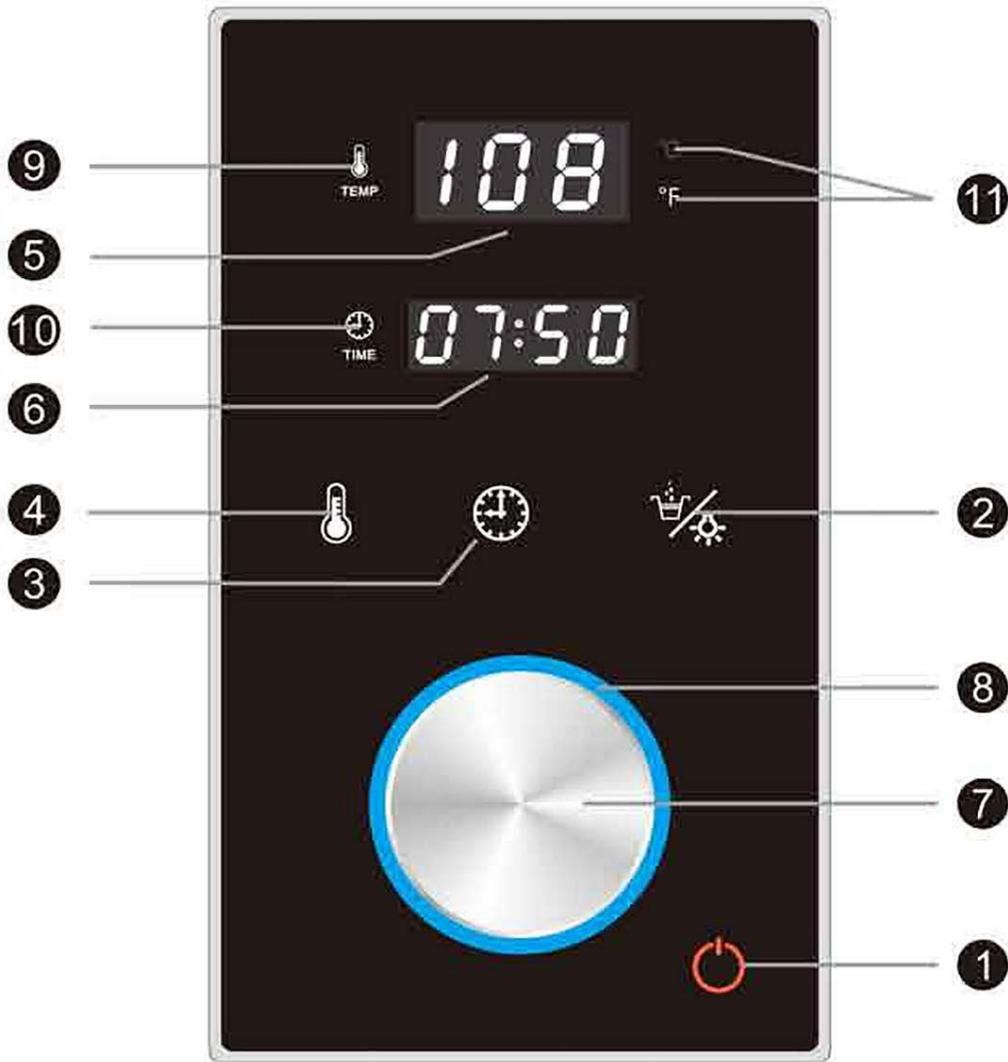


(Fig.3)



Attention :

Avoid bending the pins inside the cable connection, the control panel and steam generator. Make sure the arrows on the male and female ends are lined up as illustrated below.



- | | | |
|-----------------------------|-----------------------------------|-----------------------|
| ① Power ON / OFF | ⑤ TEMP indicator LED | ⑨ Steam light |
| ② Light / manual drain | ⑥ Time indicator LED | ⑩ Time icon |
| ③ Time adjust | ⑦ Fly shuttle button | ⑪ TEMP unit indicator |
| ④ Temp adjust or C/F switch | ⑧ Backlight of fly shuttle button | |

Controller function instruction

1. Preset start time for generator:

With power supplied to the generator press and hold the on / off  button for 2 seconds. The control will open the timing function and start the count down timer which will be shown on the control display.

To stop the count down timer press the on / off  button. This will cause the generator to start the steam function immediately.

2. Preset time:

A. Setting count down time.

With the display showing the countdown timer you can adjust the generator start time. Press the  key to adjust the hour required, turn the fly shuttle control to adjust the minute required.

B. Activation and memory.

Once the minutes required has been chosen, press the fly shuttle button to confirm the time selected.

To save the selected hours / minutes start up time press the  key for 1.5 seconds.

This selected time will be saved for the next time the generator is started.

The preset start time can be set between 1 minute and 8 hours.

The count down timer will continue to run down during each use of the generator until new changes are made to the time.

Pressing the on / off  key will stop the count down time.

3. Waiting state:

When the generator is not in use but has a power supply the TEMP screen will be in use. The display will show “ - ” to show that the generator is in its waiting state.

4. Power on:

Once the preset count down time has finished or the on / off  button has been pressed the power LED indicator will go out.

The TEMP display will show the room ambient temperature and the time window will show the steam generator working time (default working time is 8 hours).

When the ambient room temperature reaches the set temperature the generator heating elements will shut off.

When the ambient room temperature falls below the set temperature the heating elements will automatically turn on.

Controller function instruction

5. Power off:

A. Automatic or manual power off:

With the the generator running, press the on / off  button to power off the generator, alternatively the generator will stop once the pre-set working steam time count down has finished.

B. Water filling fault.

If water is unable to fill the tank while the generator is on then the steam indicator LED will flash. If this situation lasts for 4 minutes the generator will automatically shut off. The generator will now be in stand by mode.

C. Auto water drain function.

10 minutes after the generator has shut down the automatic draining function will start. The auto drain feature will run for 7 minutes. With the system off, pressing the  button will activate the drain feature. While the drain feature is active the generator will flush the system 3 times.

6. Steam time setting:

When the generator is in use press the  button to adjust the time settings for the hour. Rotating the fly shuttle button will change the hour setting (the hour number will flash). Once the hour has been selected press the button again to adjust the minutes setting. Rotating the fly shuttle button will change the minutes setting (the minutes number will flash).

Once the steam time has been chosen press the fly shuttle button to save the steam time to memory .. Pressing the  button for 1.5 seconds will also save the selected steam time to memory for the next steam generator use. If the  button or the fly shuttle is not pressed then the default 8 hours setting time will be activated on the next generator use.

7. Steam temp setting:

Pressing the  button while the generator in use will start the TEMP selection mode. Rotating the fly shuttle will allow you to select the desired temperature. The TEMP mode will allow a temperature range of 25°C - 68°C or 78°F - 155°F. Pressing the  button for 1.5 seconds after setting the desired steam room temperature (the TEMP led will flash) will save it to memory. This will be saved for the next use of the generator. When the room temperature is 1°C higher than the selected steam temperature the heating elements automatically shut off. Default steam temperature is 45°C.

Controller function instruction

8. Light:

With the the generator running, pressing the on / off  button will tum on the light function (available as an optional extra).

9. Centigrade or Fahrenheit:

With the the generator in standby mode pressing the  button for 2 seconds will allow you to switch between Fahrenheit (F on the control display) or Centigrade (°C on the control display). The system will save the selection for the next generator use.

10. Fly shuttle backlight:

With the the generator in use the blue back light of the fly shuttle button will brighten.

12. Trouble shooting:

Error code	problem	solution
E 1	Water level detect failure	Check the cable connection to the water level sensor is not loose. If ok, de-scale sensor rods or replace with new water level sensor.
E 2	temperature sensor short circuit	Replace with new keypad.
E 3	temperature sensor open circuit	Check the cable connection between the keypad and the TEMP sensor cable, make sure connection is good and dry.
E 4	no water into tank within 4minutes	Check whether the water inlet pipe is blocked and clean if required, if OK, suggest to check whether the water inlet valve is working. If valve is not working, replace with new water inlet valve.
E 5	Communication failure between steam generator and keypad.	Check cable connections between the keypad and generator.

Wiring diagram

