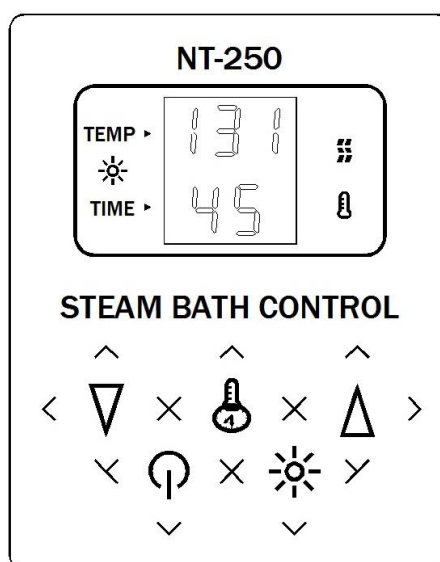


# STEAM BATH CONTROL

## NT-250



## INSTRUCTIONS MANUAL

# TOUCH-BUTTON CONTROL NT-250

## FUNCTIONS AND OPERATION

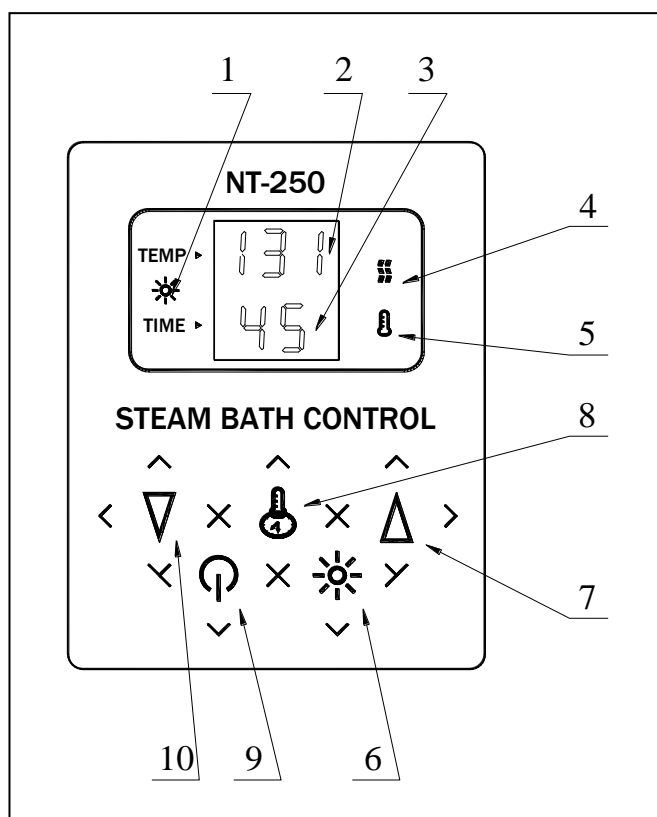


Figure 1 control panel NT-250

- 1.Light indicator 2.Temperature display 3.Working Time display 4.Heat indicator  
5.Temperature preserving indicator 6.Light switch 7.Increment button  
8.Set button 9.ON/OFF button 10.Decrement button



### 1. Control Panel Display(Refer to figure 1)

**Temperature:** The upper LCD will display the room temperature measured by the temperature sensor in the range of 6-60 °C (43-140 °F).

**Setting time:** The lower LCD will display the remaining working time. When set to Non-stop mode, the lower LCD will display “CH”, or you could set the working time in a range of 1-60 minutes. The factory default setting time is 45 minutes.

#### Hint message:


- 1) **-L** Temperature is lower than 6 °C (43 °F), the upper LCD displays “-L”, detected by the temperature sensor.
- 2) **-H** Temperature is higher than 60 °C (140 °F), the upper LCD displays “-H”, detected by the temperature sensor, all heating elements stop working.
- 3) **-E** The lower LCD displays “-E”. It indicates faults of the water supply system, all heating elements stop working.


- 4) **-d** The lower LCD displays “-d”, indicating that the system is draining, and the message disappears automatically once the drain process is done.
- 5) **EE** The lower LCD displays “EE” showing connection error between the controller and the main PCB.
- 6) **Heating** Indicated by the LED on the right of the panel with label “SS”.
- 7) **Heat preserving** Indicated by the LED on the right of the panel with label “”. Once room temperature reaches user-set value, all heating elements stop working and the system is under heat preserving mode.
- 8) **External Light** indicated by the LED with label “”.

## 2. FUNCTION BUTTONS AND OPERATION



**ON/OFF BUTTON:** To switch on and off the steam generator.


Press  can switch on the steam generator. Generator will feed in water and start to heat up automatically. When restored from power cutoff or first time use, system will adapt the default temperature and time setting; otherwise, system will adapt the previous temperature and time setting.




Press  again will shut down the steam generator, and the generator will drain out water automatically if auto-drain system is applicable.




**SET BUTTON:** Change temperature or working time settings.

### ● Change temperature setting:

Press  once to adjust the temperature. The upper LCD blinks and displays the previous set temperature, if restored from power cutoff, the LCD displays the default temperature 43 °C (109 °F),


press  or  button to adjust, then press  again to confirm your setting. The available temperature range is 35-55 °C (95-131 °F) , the default temperature is 43 °C (109 °F) .

### ● Change working time setting:

After changing the temperature setting or press  twice, the lower LCD blinks and displays the previous setting time or the default setting time: 45 minutes, you could set the working time now. Press



to adjust the working time to the value you want, or press  button until the LCD

displays “CH” for **NON-STOP mode**, then press  to confirm. The time setting range is 1-60 min, or NON-STOP (CH). The lower LCD of the panel displays remaining working time, or “CH” when the system is in non-stop mode.



**LIGHT ON/OFF BUTTON:** Switch for the external light.

The button can be used as the switch for the external light when the light is correctly connected to the steam generator.



**UP BUTTON:** Increase the temperature or time.



**DOWN BUTTON:** Decrease the temperature or time.

### 3. AUTO FUNCTIONS

**Auto filling:** Steam generator will fill in water automatically when needed. If any fault of the water supply system occurs, all heating elements stop working and lower LCD displays “-E”.

**Segment-heating function:** Only the necessary heating elements will be activated to save energy.

**Auto drain:** When shut off, system will drain automatically and displays “-d” on the lower LCD. At the same time, the system will also open the inlet valve to fill in fresh water to wash and cool down the inner tank and heating elements. After several minutes, the system will be shut off automatically, “-d” disappears.

## INSTALLATION OF CONTROL PANEL AND TEMPERATURE SENSOR

### Install the control panel:

The controller should be installed with height of 1.2 m (4 ft.) outside or inside the steam room where is easy to operate.

Firstly drill a  $\Phi 50$  mm (2 in.) hole at the installation site, pull the control wire and temperature sensor wire through the conduit and then connect to the black connector(6 Pin) with the provided 5 m (sixteen feet) control cable while connect the temperature sensor to the black connector(2 Pin) on the panel, and the controller panel can be glued to wall by the attached double sided adhesive or apply silicon glue at the back of panel if needed (please refer to figure 2).

Take off the U-shape cover on the back of steam generator, pull the control cable through the cable clamp underneath and connect to the controller socket on the main board (please refer to figure 3)..

### Install the temperature sensor:

The temperature sensor is used to measure the temperature inside the steam room, so that the generator can work automatically according to the pre-set temperature and maintain the room temperature.

The installation height of the sensor should be at least 1.5m (4-5 ft.) above ground, but below the ceiling and avoid the door or ventilation fan(please refer to figure 4). Please drill a hole(diameter 16mm, 5/8"), pull the sensor wire through the hole and connect the wire to the control panel (please refer to figure 2). Last step is to fix the sensor inside the steam room (Refer to figure 5).

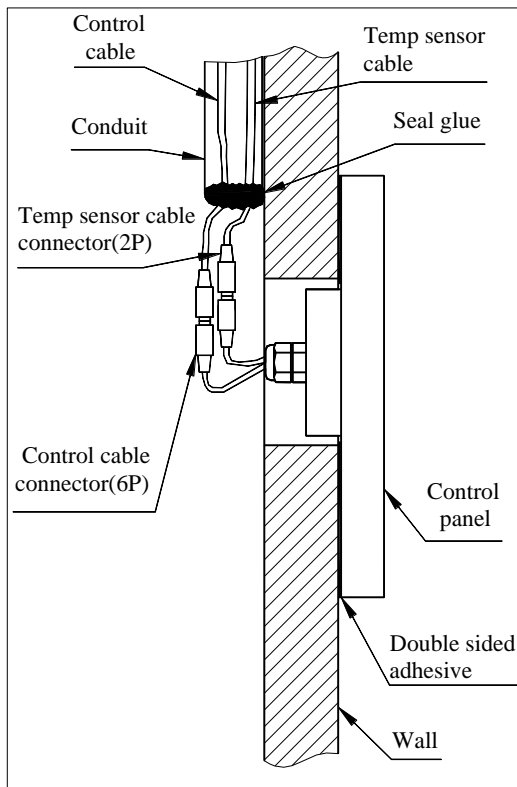


Figure 2

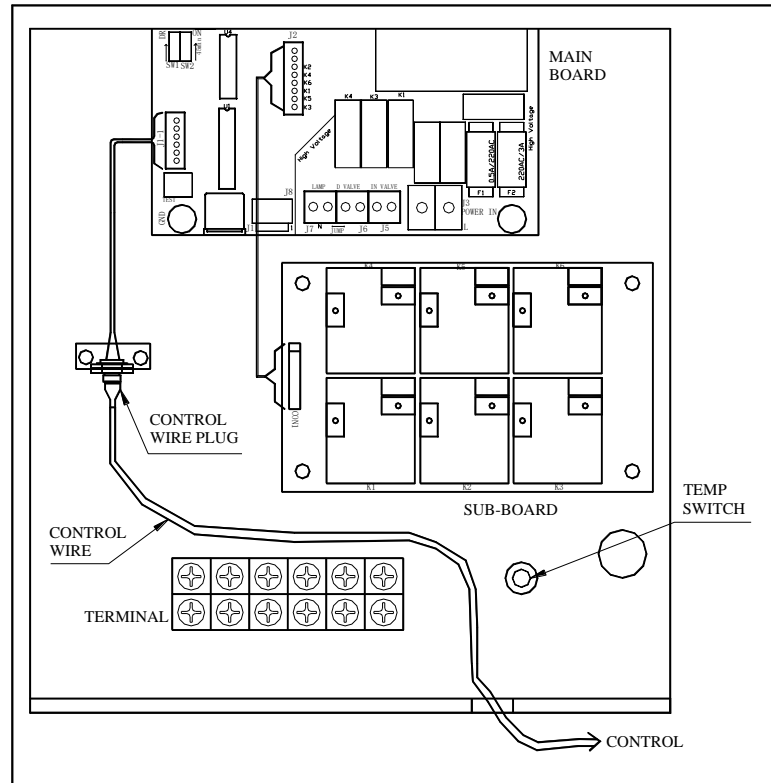


Figure 3

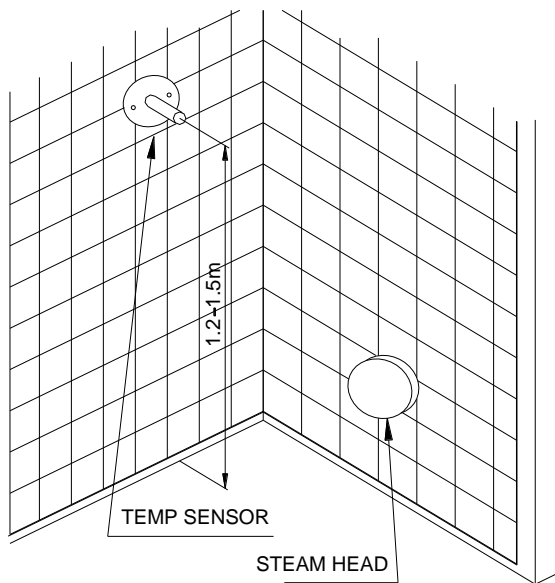


Figure 4

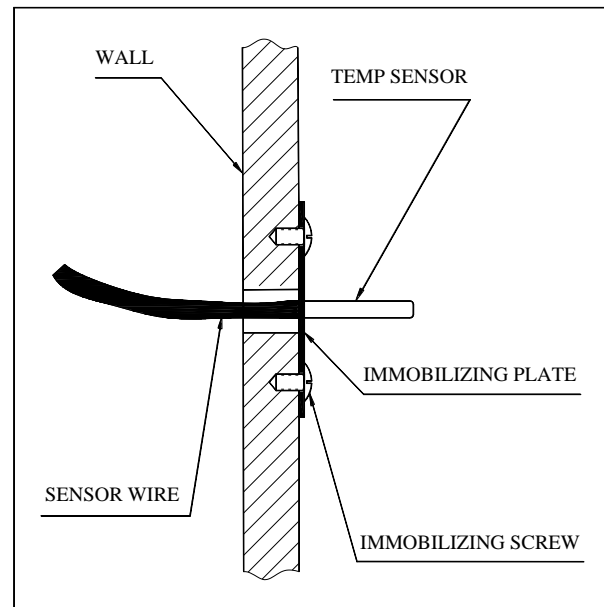


Figure 5

## Caution

- The control wire and temperature wire should not be parallel to or intersect with power wire.
- The temperature sensor should not be installed near the door, or ventilation fan, it should not to be installed on the ceiling either.