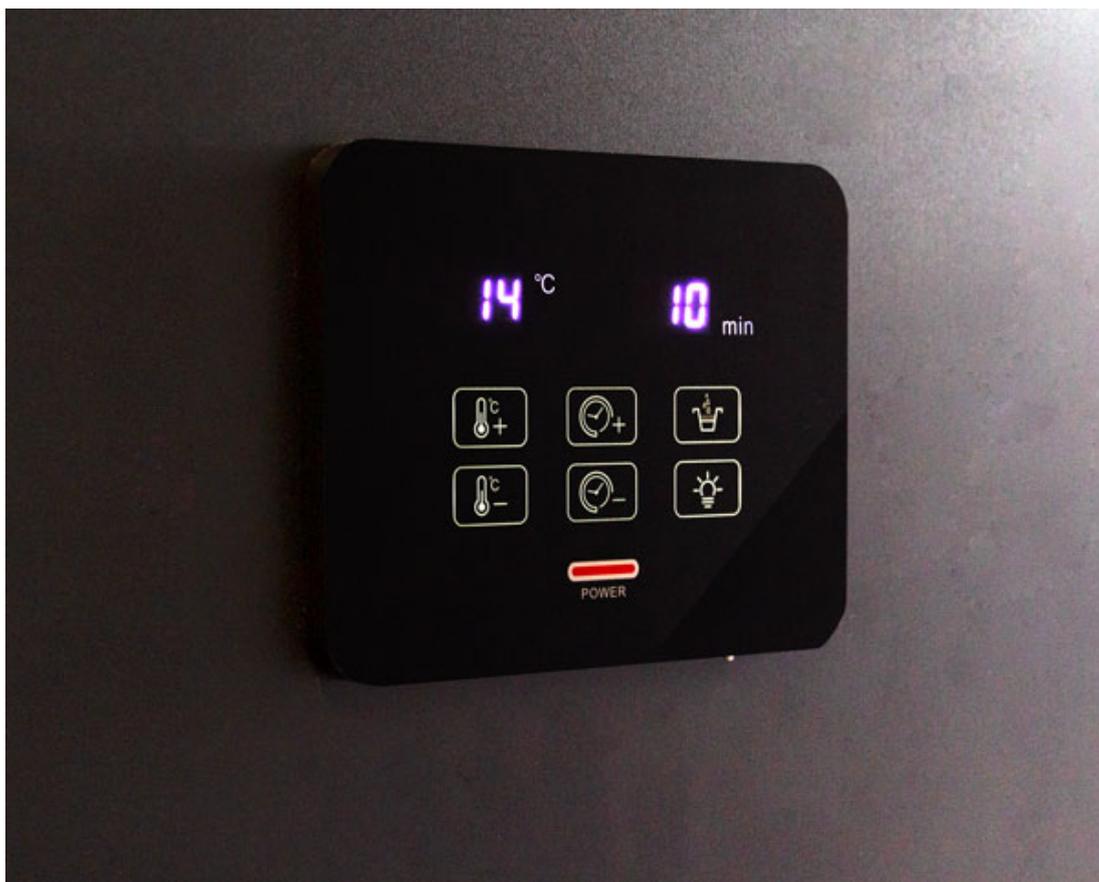


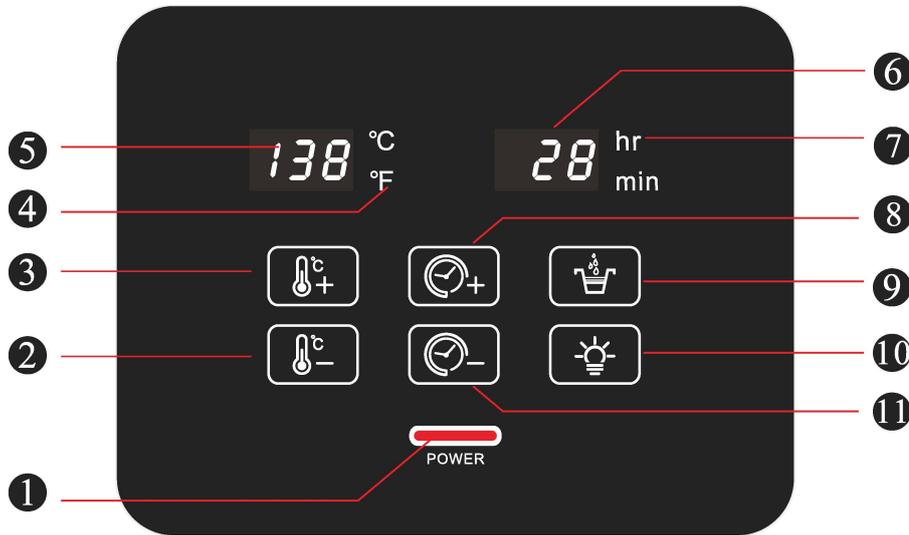
DELUXE GENERATOR
CONTROL OPERATION
MANUAL



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ATTENTION! Avoid bending pins in the connection between control cable and control panel to steam generator. Make sure the arrows on the male and female ends are correctly lined up before pushing together.



- ① Power ON/OFF ② TEMP Decrease ③ TEMP Increase ④ Celsius & Fahrenheit
- ⑤ TEMP display ⑥ Time display ⑦ Time unit indicator ⑧ TIME Increase
- ⑨ Manual drain ⑩ Light ⑪ Time Minus

Note: buzzer will beep after effective action.

● 1. System power on

When system powers on, a buzzer sound will be heard, LED lights and icons will turn on and system will self-check after 1 second.

After the self-checking has finished, power "on/off" button light will stay illuminated and other LEDs will be off. System will show TEMP in Celsius by default.

Default working time is 2 hours. Default pre-set time to open system is 8 hours .

● 2. Preset Open time.

When in standby mode, touch power on/off button " POWER " and hold for 5 seconds to set the pre-set open time. The keypad will show the countdown time to start the system. Pre-set open time will be automatically saved for next time.

After reaching pre-set open time, the system will start working at default temperatur 45 °C (113 ° F) If you touch the power on/off button " " during the countdown time, the system will start working immediately.

While the countdown time, is displayed on the keypad, you can use the [⌚+] and [⌚-] buttons to adjust the countdown time in 10-minute or 1-hour increments up to 24 hours.

After setting the time, the system will save and start the countdown.

When the set time is more than 1 hour, the display will only show the hour without minutes. For example, a 90 minute countdown will display as 1hr only.

● 3. Power On

When system is in countdown time, touch power "on/off" button for 1-4 seconds to start.

TEMP window shows the ambient temperature of the room.

TIME window shows working time (default is 8 hours).

Default steam temperature is 45C (113F).

When the ambient temperature is higher than the set steam temperature, the heating element will stop.

When the ambient temperature is 2C lower than the set steam temperature, the heating element will start again.

● 4. Power Off

a. The system will switch off automatically at the end of the steam cycle.

b. While the system is on, press the power "on/off" button to switch off .

c. 10 minutes after the system is switched off , it will then automatically drain for 7 minutes. When the system is in standby mode, you can touch "drain" button to manually drain to 7 minutes.

● 5. Set Steam time

When system is activated, touch button " [⊕] " or " [⊖] " to adjust steam working time, time adjustment range is 10minutes to 20hours (10mins, 20mins, 30mins, 40mins, 50mins, 1hour, 2hour....20 hours) After setting the time the system will remember for next time. If the steam working time is not set, the default time of 2hours will be used.

● 6. Set TEMP

When system is on, touch button " [⊕] " or " [⊖] " to adjust steam temperature. Temperature range

is 35°C -68 C . If temperature settings are not saved, it will revert to the default steam TEMP and default settings of 45°C.

● 7. Light

When system is on, touch button " [☺] " to switch on/off the light. Please note light can only be turned on when the generator is producing steam.

8. Changing between Centigrade and Fahrenheit

When system is in standby state, touch button " [⊕] " and hold for 3 seconds to switch between Fahrenheit and Centigrade in the temperature display window.

● 9. Manual cleaning

(1). Before cleaning the water tank, please be sure to drain the tanks completely.

(2). Power off the steam generator, put some lemon acid (crystal state) via steam outlet access fitting. For example, 9KW water tank will need 220g lemon acid with 500-800ml hot water; please ensure that the manual water drain ball valve is closed.

(3). After filling the heating tank with the lemon acid, turn the power supply to steam generator "on" but do not start the machine. By pressing " [☺] " button for 3 seconds, the system will enter into the cleaning process program, water will fill the water tank automatically. TEMP window on panel will show " hot " and 59 minutes countdown will begin on the timer window. Steam generator will heat water tank contents twice automatically and de-scale the tanks and heating elements

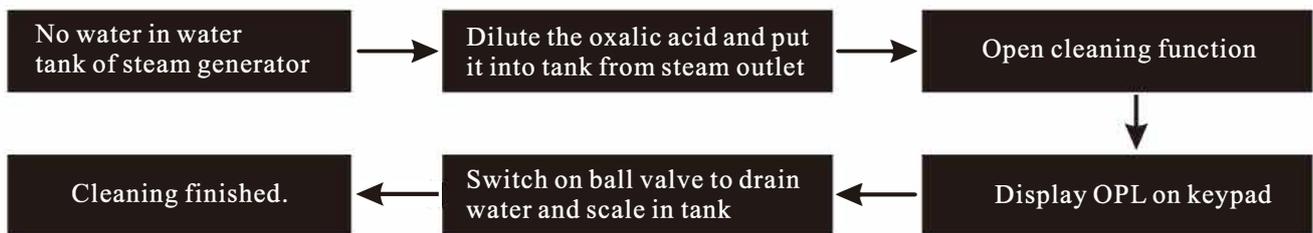
When countdown shows " 00:00 ", TEMP window will change to " opl " from " hot " Switch on the manual drain ball valve and drain the tank. When the system detects empty of water for 1 minute, it will automatically switch on the water inlet valve and flush the remaining water scale from the tank for 1 minute with the water draining from the manual drain ball valve. After finishing the cleaning, the system will automatically quit the cleaning mode. When TEMP window shows " opl ", if you do not open the manual drain valve, the control panel will keep waiting until the ball valve is opened or the power on/off "  " is switched off, quitting the cleaning function.

(4). The steam generators water tank should be cleaned of limescale built-up periodically, especially in hard water areas and depending on amount of use. We suggest descaling regularly to extend the lifespan of heating elements and the water tank.

(5). **Important - The cleaning water must be drained through the manual drain valve, otherwise limescale can block the auto drain valve. Please note many operation issues are cured by de-scaling the machine.**

PS: Touch button "  " within 10 minutes after the system has turned on, to will enter into clean procedure.

Cleaning procedure as below:



● 10. Trouble shooting

E03: Signal transfer failure between main panel and sub-panel.

E04: Signal transfer fault between control panel and steam generator.

E07: External temperature sensor short circuit.

E08: Internal temperature sensor short circuit.

E09: Internal temperature sensor open circuit.

E12, E22, E32, E42: water inlet takes over 2 minutes.

E13, E23, E33, E43: water inlet tank takes over 4 minutes.

E15, E25, E35, E45: Auto. high heat limit trips.

Error code	Fault description	Trouble shooting
03	Overheat protection	1) Check whether there is water in the tank. 2) Check the steam pipe is not blocked
05	Water inlet fault	1) Check whether the water supply is on. 2) Check the inlet valve works. 3) Check if the inlet valve is blocked. 4) Check if drain valve works. 5) Check if drain valve or generator drain-pipe is blocked. 6) Check if the tanks have drained by activating manual drain button.
08	TEMP. sensor open circuit	Check whether the circuit/connections are good, if OK replace the temperature sensor.
09	TEMP sensor short circuit	Check whether the circuit/connections are good, if OK replace the temperature sensor.
<p>Please note - water inlet (05) issues are often caused by limescale build up and can be easily rectified by carrying out de-scaling maintenance of the generator.</p>		

E0: The temperature sensor open circuit.

Water level sensor failure, check the control cable connections between the control panel to steam generator.

E02: The temperature sensor is short circuited.

E03: Signal transfer fault between main panel and sub-panel .

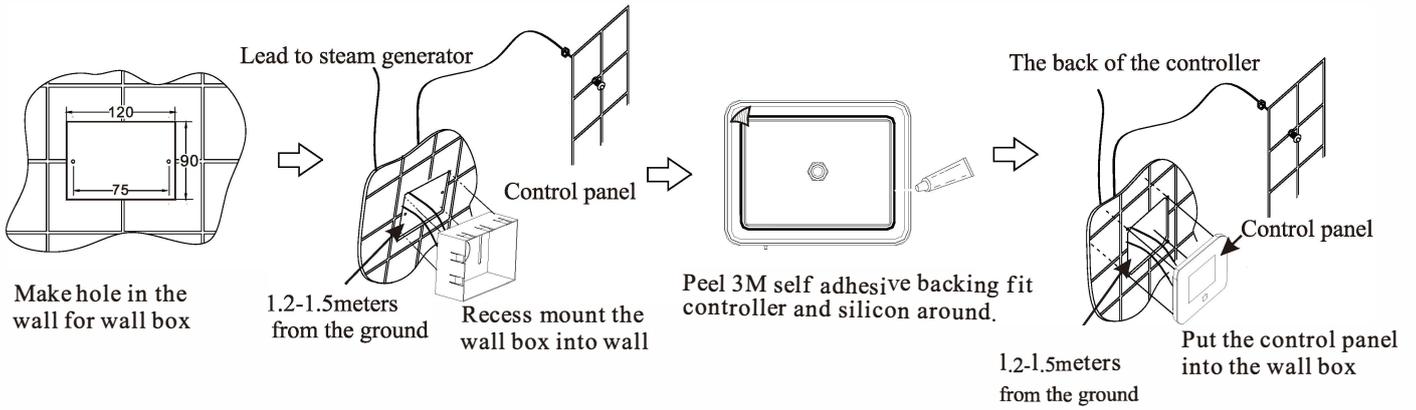
E04: Signal transfer fault between control panel and steam generator.

E12, E22, E32, E42: water inlet valve takes over 2 minutes

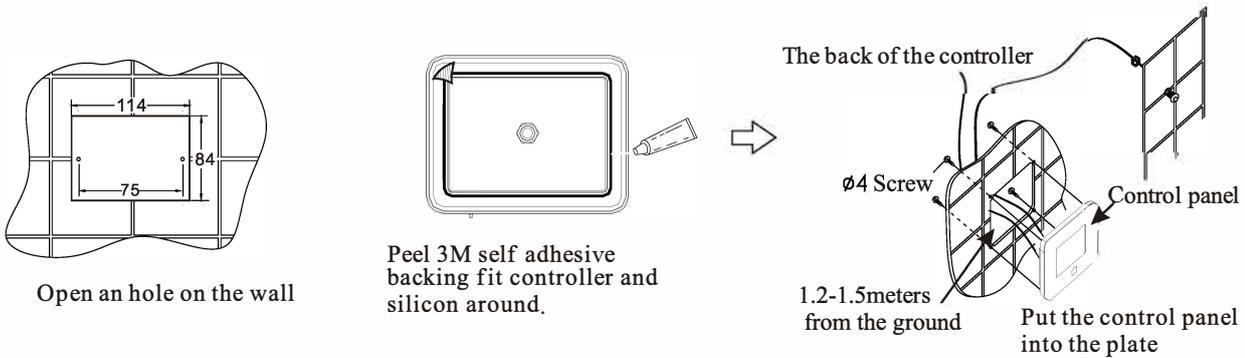
E13, E23, E33, E43: water inlet valve blocked.

E15, E25, E35, E45: Auto. high limit trips.

A. Recess mount into wall with wall box



B. Recess mount into wall with a plate



C. Hang on wall with sticker

