



STEAM BATH GENERATOR USER GUIDE

MODELS

4.5KW

6KW

7.5KW

9KW

10.5KW

12KW

15KW

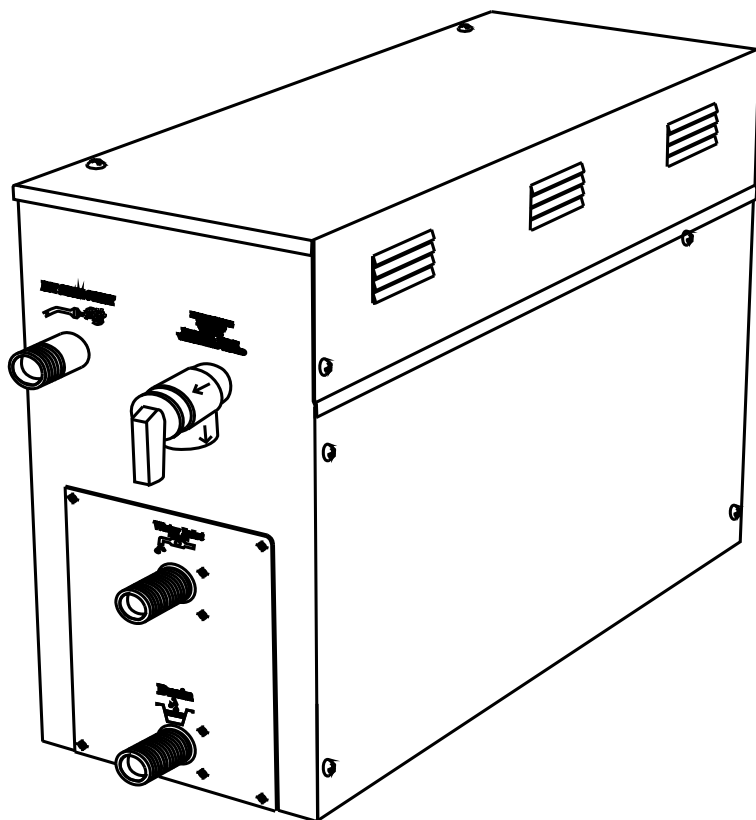


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PROLOGUE

Thank You for choosing SteamSpa for health, beauty and relaxation. Now you can enjoy your own private sanctuary in the comfort of your own home. Let your stress melt away as you relax in your state of the art Steam Room.

For Centuries people have recognized the health benefits of saunas. Leave your stress behind and enter a world of total relaxation, ridding you of pain, toxins, and sore muscles as well as increasing your blood circulation etc., leaving your skin glowing. Besides these physical effects, a SteamSpa Session will leave you totally relaxed by providing you a peaceful and relaxing environment away from all.

Our advanced technology, engineering, and product development provides Steam Generators that enhance the lifestyles of people throughout the world. SteamSpa is continuously refining, updating and developing their products assuring the optimum quality and performance of their products. Working with the industries top engineers we have developed the most efficient, dependable and highest quality products.

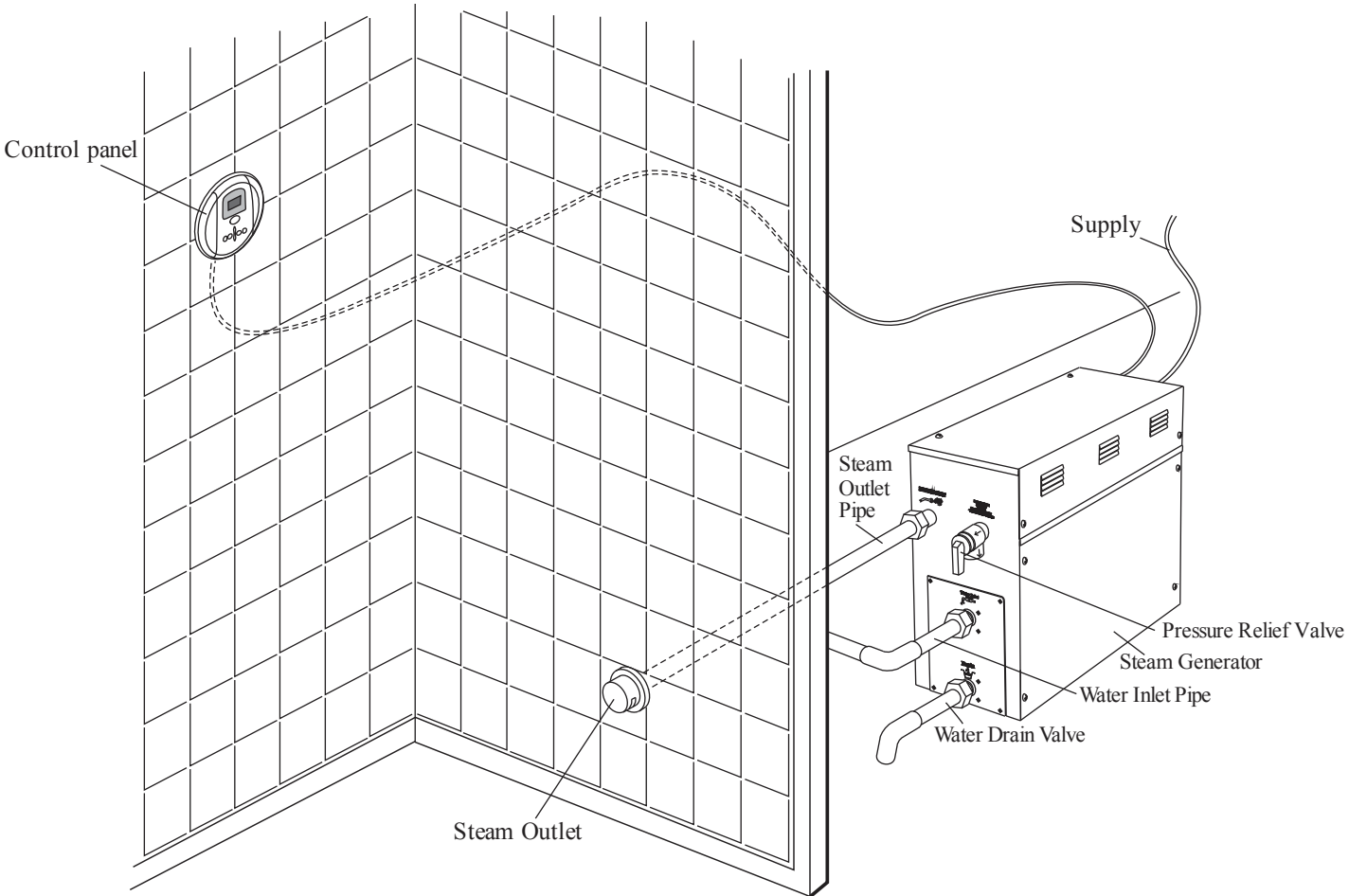
USER INSTRUCTIONS

1. Check for visible damages upon delivery of Generator. Any damages to packaging should be reported immediately to shipping company delivery representative and SteamSpa's Customer Service Dept.
2. Check model and accessories are correct, including voltage input. Any discrepancies are to be reported to SteamSpa's Customer Service Dept. within 48 hours of delivery.
3. Read installation instructions in detail for a secure and effective installation of SteamSpa generators.
4. SteamSpa recommends the use of a licensed plumber and electrician for proper installation of SteamSpa generators.
5. SteamSpa shall not be responsible for product damage or malfunction caused by self-installation or installation procedures which do not comply with user manual.
6. SteamSpa generators are for indoor use only.

CHOOSING THE RIGHT LOCATION

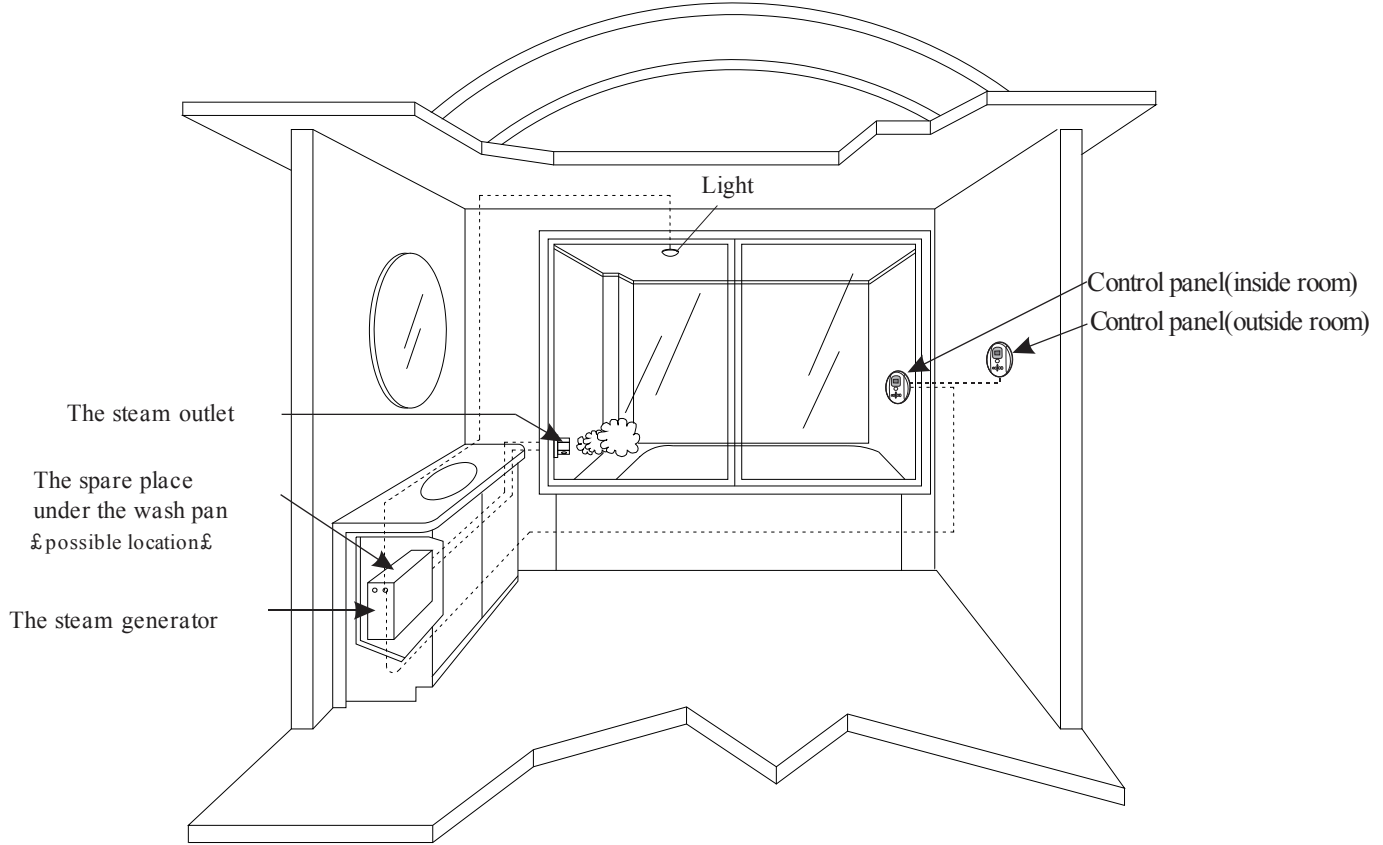
1. The distance to the steam room should be less than 20ft, the standard pipe which links the controller and the steam generator should be 20ft.
2. The steam generator should not be installed in the steam room
3. Do not install outdoor or in any places that will influence the performance of the machine by the environment.
4. Do not install in a frigid location or any places where the water will freeze.
5. Do not install near flammable chemicals.
6. Install in a dry place where the ventilation is good.
7. Install an exhaust fan outside of the steam room for the excess steam to be expelled from the shower room.
8. The steam generator has a hanging groove for wall installations..
9. Both sides and the top of the steam generator need to reserve at least 12 inches space.
10. The area where the machine is installed must be easily cleaned up and convenient for the disassembly of the machine.
11. The installation area must be convenient for the steam generator draining system.
12. The steam tube, safety valve, drain valve, water tube and steam outlet remain very heated after the steam generator has stopped working for some time.
13. The controller must be installed in the steam room opposite to the steam head, please read the instructions for the controller's installation and operation.

INSTALLATION DRAWING OF STEAM GENERATOR



ATTENTION! The drawing is only for explanation purposes. As for practical design of steam room, please consult with a qualified designer, architect or builder.

INSTALLATION & USER GUIDE



ATTENTION! The illustration is just an example; the practical installation must comply with the nation's electrical criteria, and be done by a professional electrician.

PLUMBING INSTALLATION

WARNING! The installation of all water supply lines should be in accordance to all national and local codes by a licensed plumber.

1. Use unions when connecting pipes.
2. Use brass pipes or copper hoses only.
3. Do not use black and galvanized or PVC pipes.

WATER SUPPLY PIPE (1/2")

1. Connect hot water or cold water pipes. The Industry recommends the use of a hot water line; However it should not exceed 160°F.
2. Install stop valve in the water supply line. The stop valve should be installed in a place where it is easily accessible in case of an emergency.
3. Flush the water supply line completely before connecting the water pipe to the steam generator, to remove any sediments in the water.
4. The water pressure should be at best between 15 and 20 lbs/square inch. If necessary, decrease the pressure accordingly.
5. If necessary, install a Hydro pneumatic device which reduces pressure spikes.

STEAM PIPE (3/4")

1. Do not install any stop valves in the steam pipes. The steam can never be obstructed.
2. Install a copper pipe of 3/4 inch as the steam pipe between the steam generator and the steam nozzle.
3. The heat insulation material used to insulate the steam pipe should be resistant to temperatures as high as 250 F or higher.
4. The steam pipe should be installed inclining 1/4 inches to the steam room. Do not bend it in a shape to make sure that cooled water will not stay in the curve of the steam pipe.
5. The shorter the distance, the better. Try to decrease the number of elbows to prevent creating valleys or traps.

STEAM HEAD (3/4")

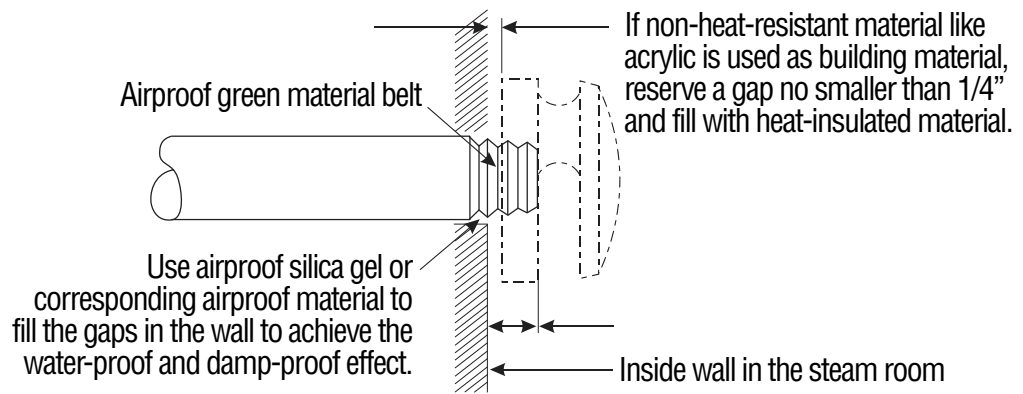
ATTENTION! Steam Head and the steam outlet get very hot, try to avoid installing the steam head in a position which will easily come into contact with the person bathing.

1. Install the steam head 6 inches above the ground and 12 inches from wall. If the steam room material is acrylic or non-heat-resistant sheet, please consult with material manufacturer about steam room applications.
2. The steam head outlet should be installed face down. To prevent scalding bather with steam or water.

ATTENTION! Tighten steam head by hand. Do not use a spanner or other tools, use a little soap water and soft sponge to wipe, and do not use erosive chemical solutions or crude cleaning tools.

IMPORTANT!

1. Please consult manufacturer of materials like acrylic, fiber glass or other anti-heat sheet about the installation of the steam head.
2. In the entire steam room, it is required that steam does not leak out. The pipes, its accessories and the holes should be air proof by applying glue so that no steam will enter the holes in the wall.



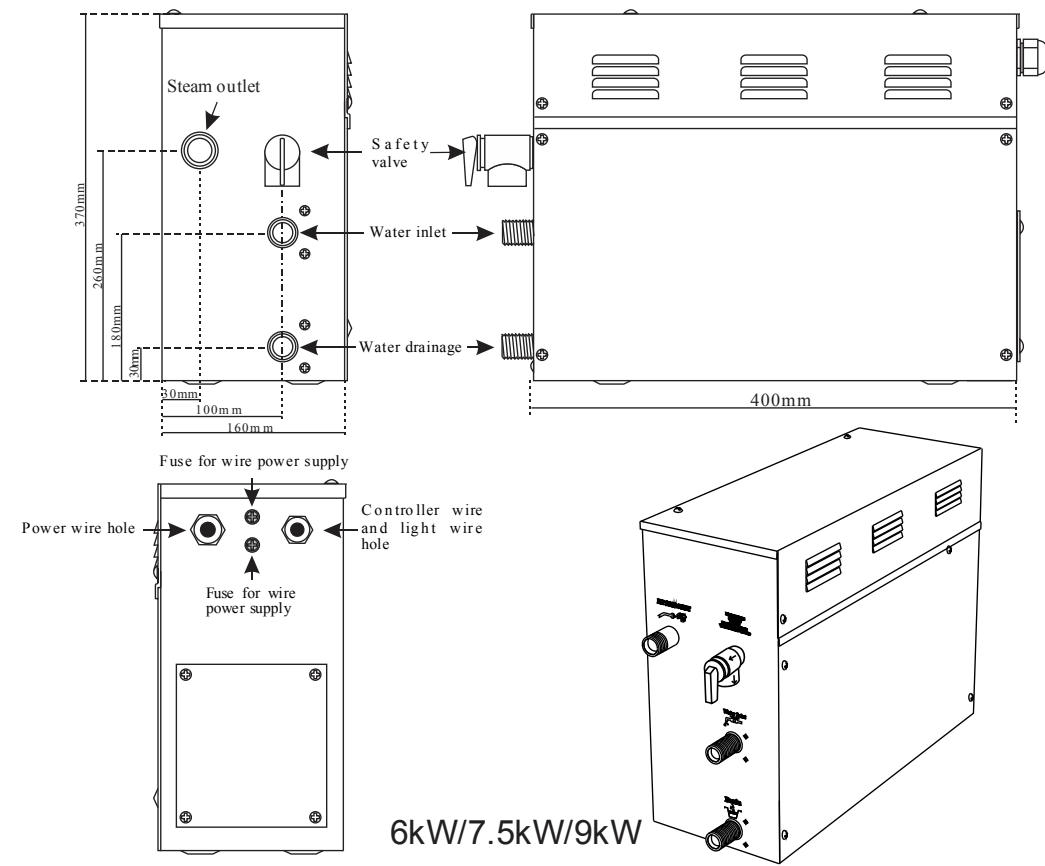
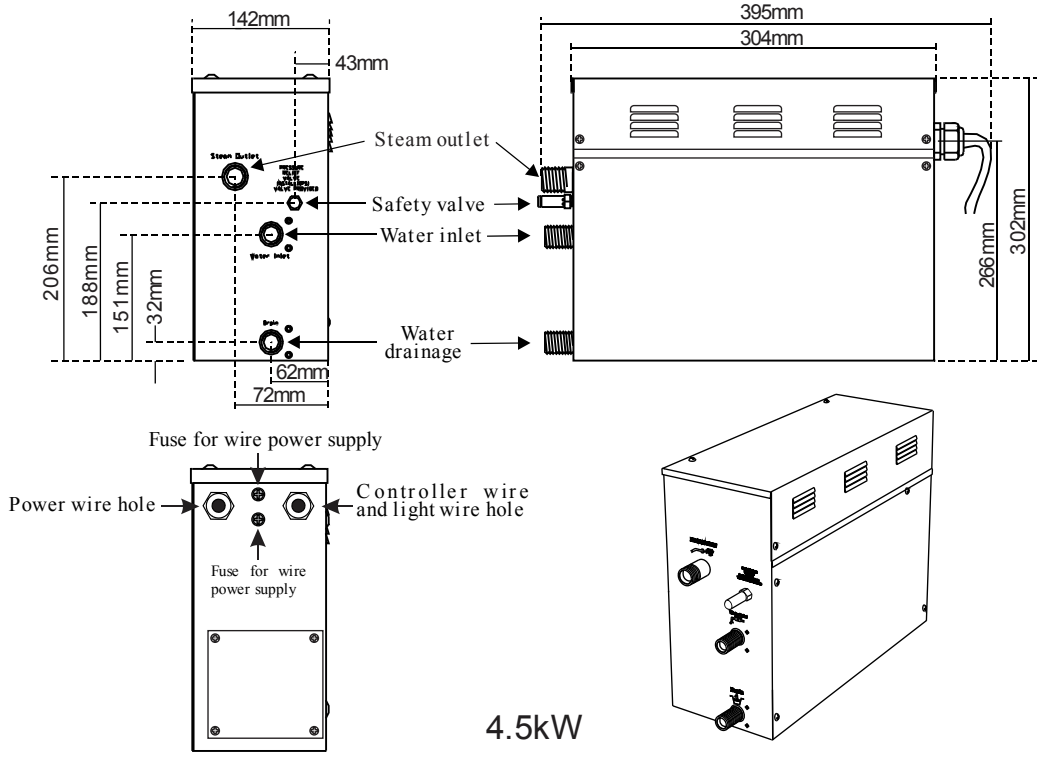
DRAINPIPE (1/2")

ACCORDING TO THE NATIONAL AND LOCAL PLUMBING CODES: The steam generator drain valve should be equipped with a drainpipe. The steam generator drains the water by using gravity, and pitch is required. Check local code requirements for drain valves. Do not connect the safety valve or steam line to drain line.

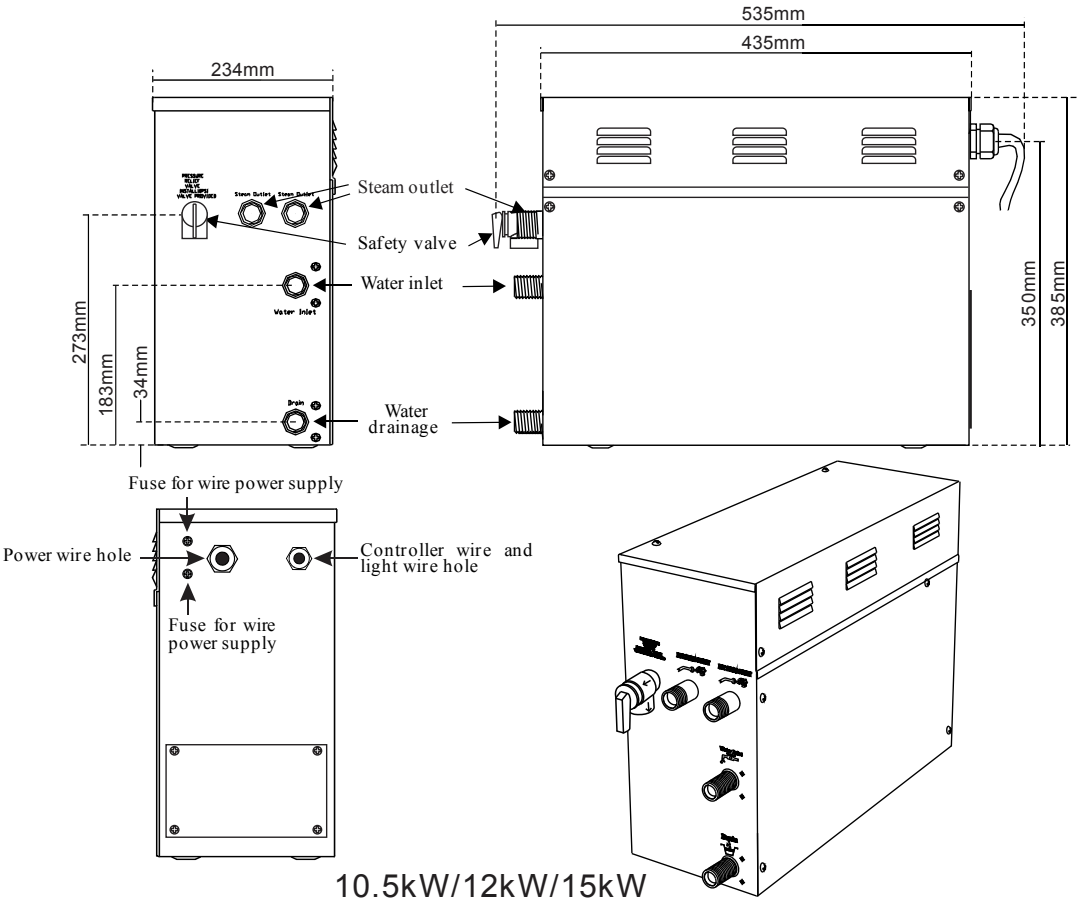
SAFETY VALVE (3/4")

1. Safety valve is an automatic system that is actuated by pressure in order to prevent steam pressure increasing in the interior of the generator .
2. The pressure limit range of the safety valve is 15 PSI and the pressure will begin to decrease if pressure should come over this value.
3. If it is allowed by local codes, provide the safety valve with exterior drainpipe.
4. Do not dismantle the pressure relief valve while generator is in operation..
5. To maintain the proper automatic operation of the safety valve, make sure the safety valve connection pipe is smooth.

STEAM GENERATOR SPECIFICATIONS



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ATTENTION! To facilitate maintenance, keep the steam engine clean. If the information provided is limited, do not operate on the pipeline and electric equipment arbitrarily as shown in the figure for proportion.

ELECTRICAL REQUIREMENTS

ELECTRICAL SUPPLY CIRCUITRY

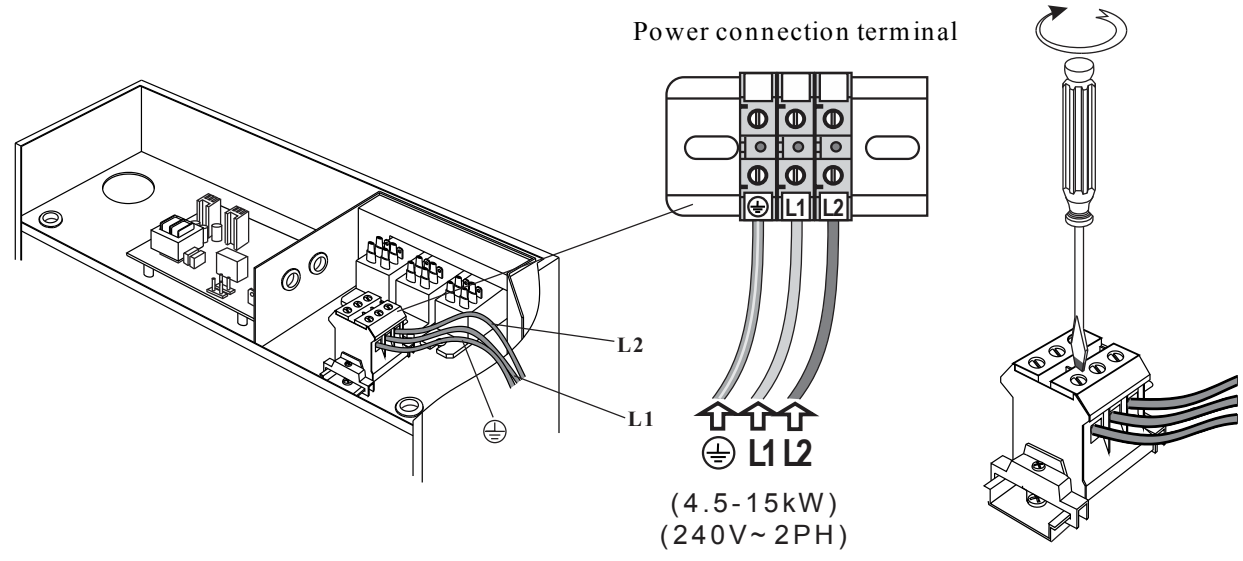
1. Test the voltage of the power supply and make sure suitable voltage is used for the steam generator.
2. Insulated copper wire should be used with an anti-heat temperature of 90 C and a specified voltage of 300V. Refer to national or local electricity consumption code for the specifications. Refer to the ammeter for the ampere.
3. Connect suitably sized equipment grounding wire into the ground terminal.
4. All the connections must be in accordance with national and local electricity consumption codes and be installed by professional electricians.

Ampere Meter

| Type | Applicable space of the room (cu.Ft. *) | Power KW | Electricity supply (1PH) | Electric current (A) | Specifications for power wire (AWG) |
|-------|---|----------|--------------------------|----------------------|-------------------------------------|
| S450 | 90 | 4.5 | 240V | 19 | 12 |
| S600 | 150 | 6 | 240V | 25 | 10 |
| S750 | 225 | 7.5 | 240V | 32 | 8 |
| S900 | 300 | 9 | 240V | 38 | 8 |
| S1050 | 400 | 10.5 | 240V | 44 | 6 |
| S1200 | 450 | 12 | 240V | 50 | 6 |
| S1500 | 500 | 15 | 240V | 63 | 6 |

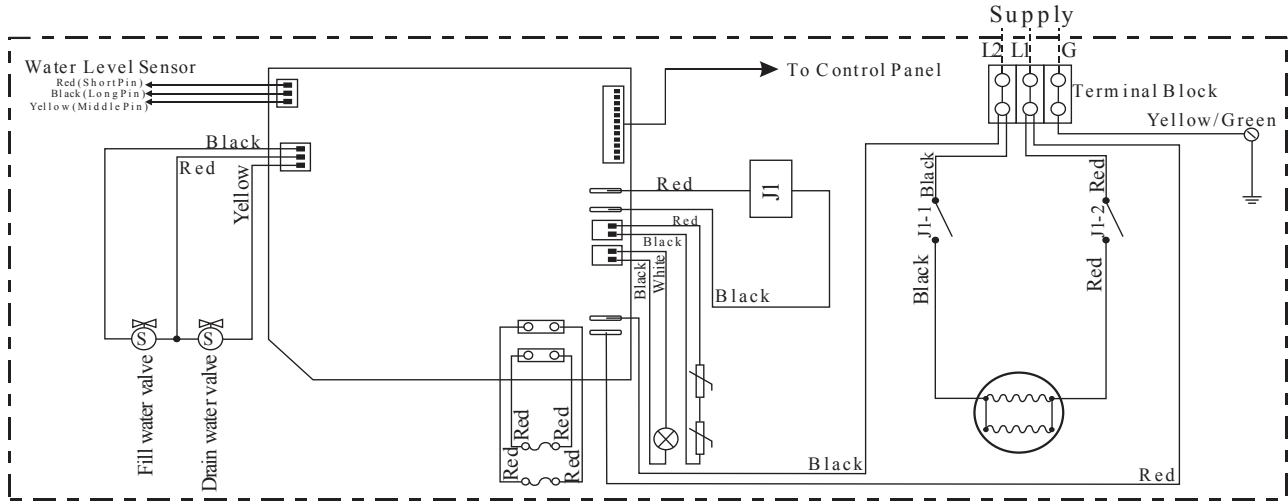
The data provided above is for 240V single-phased motors. Install an independent circuit breaker between supply line and steam generator. Install a power disconnect within sight of steam generator to cut-off power when not in use.

ASSEMBLY GRAPH FOR POWER WIRE

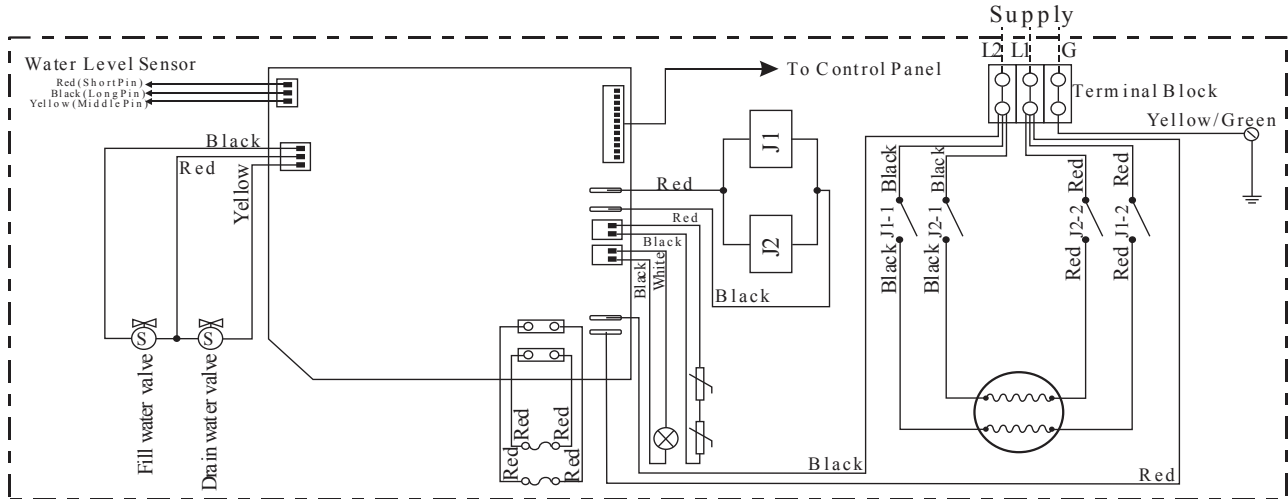


ATTENTION! To avoid damage to the equipment, do not connect electric current directly to heating elements.
WARNING! This graph is for explanation only. For actual installation, refer to national and local electricity consumption codes by professional electricians.

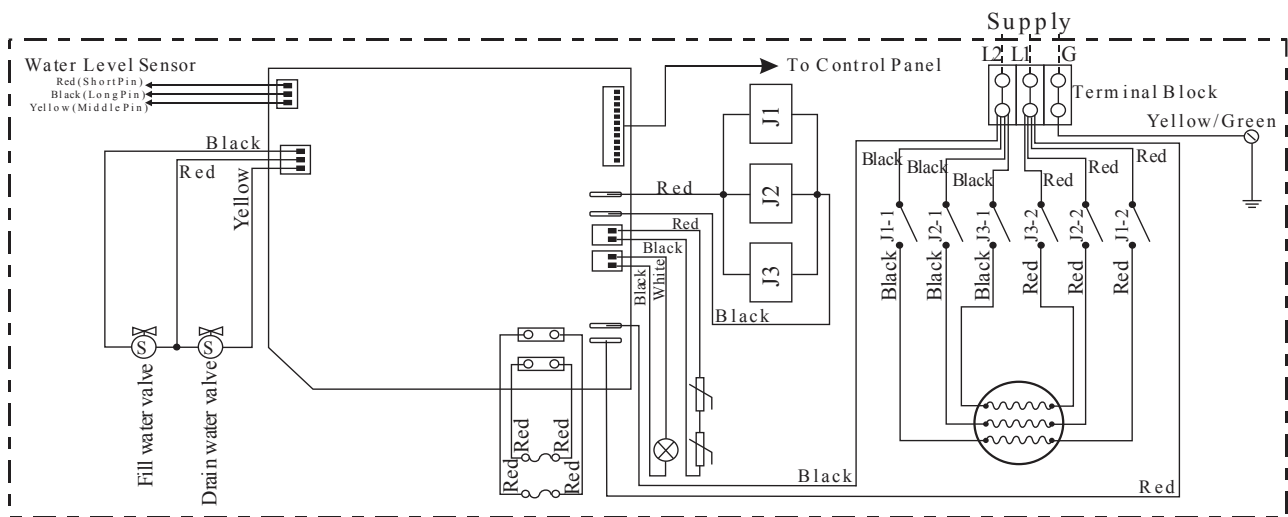
WIRING DIAGRAM



S450

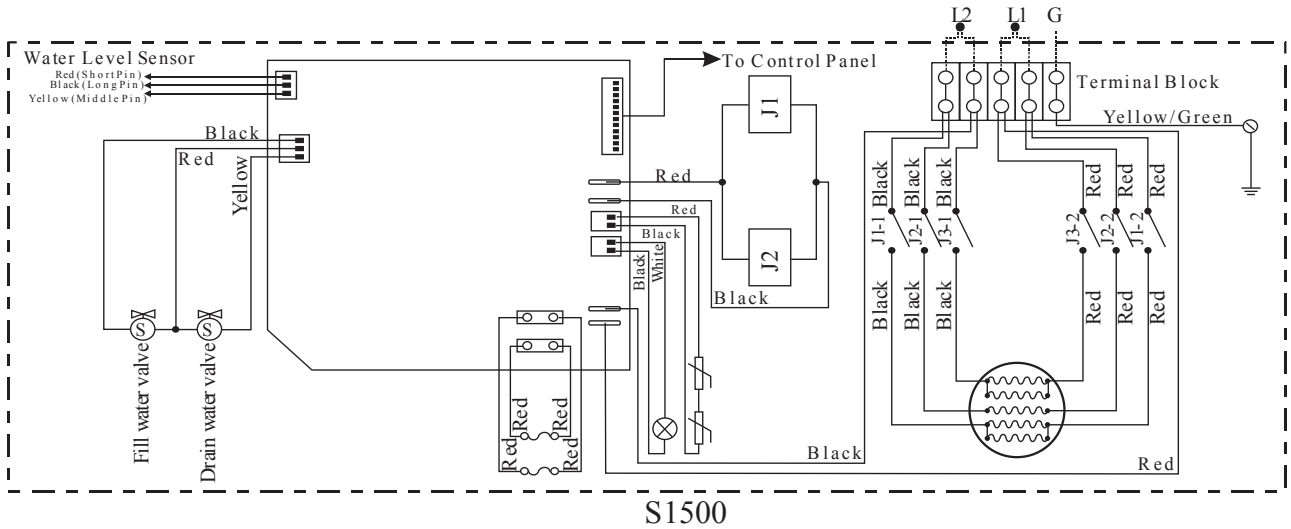
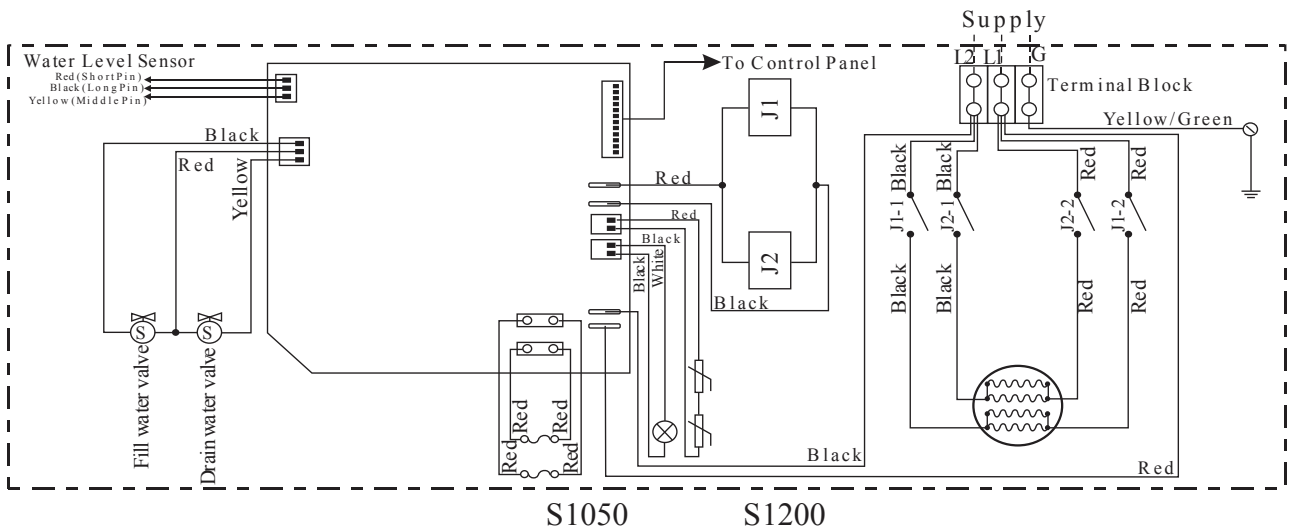


S600



S750 S900

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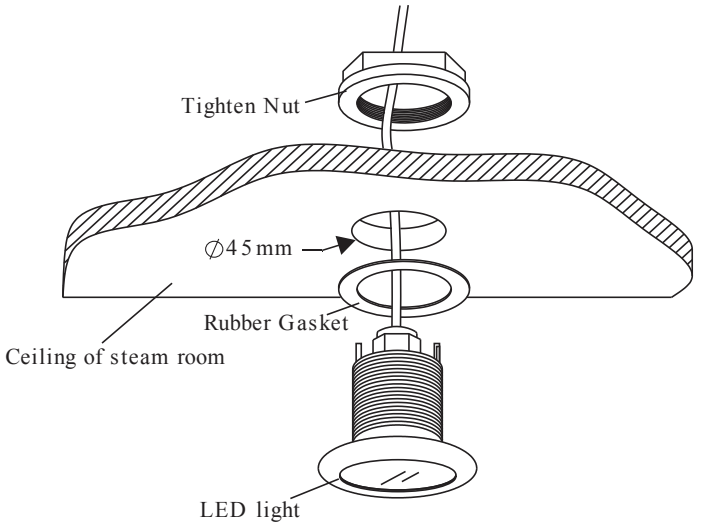


INSTALLATION OF THE TOP LIGHT

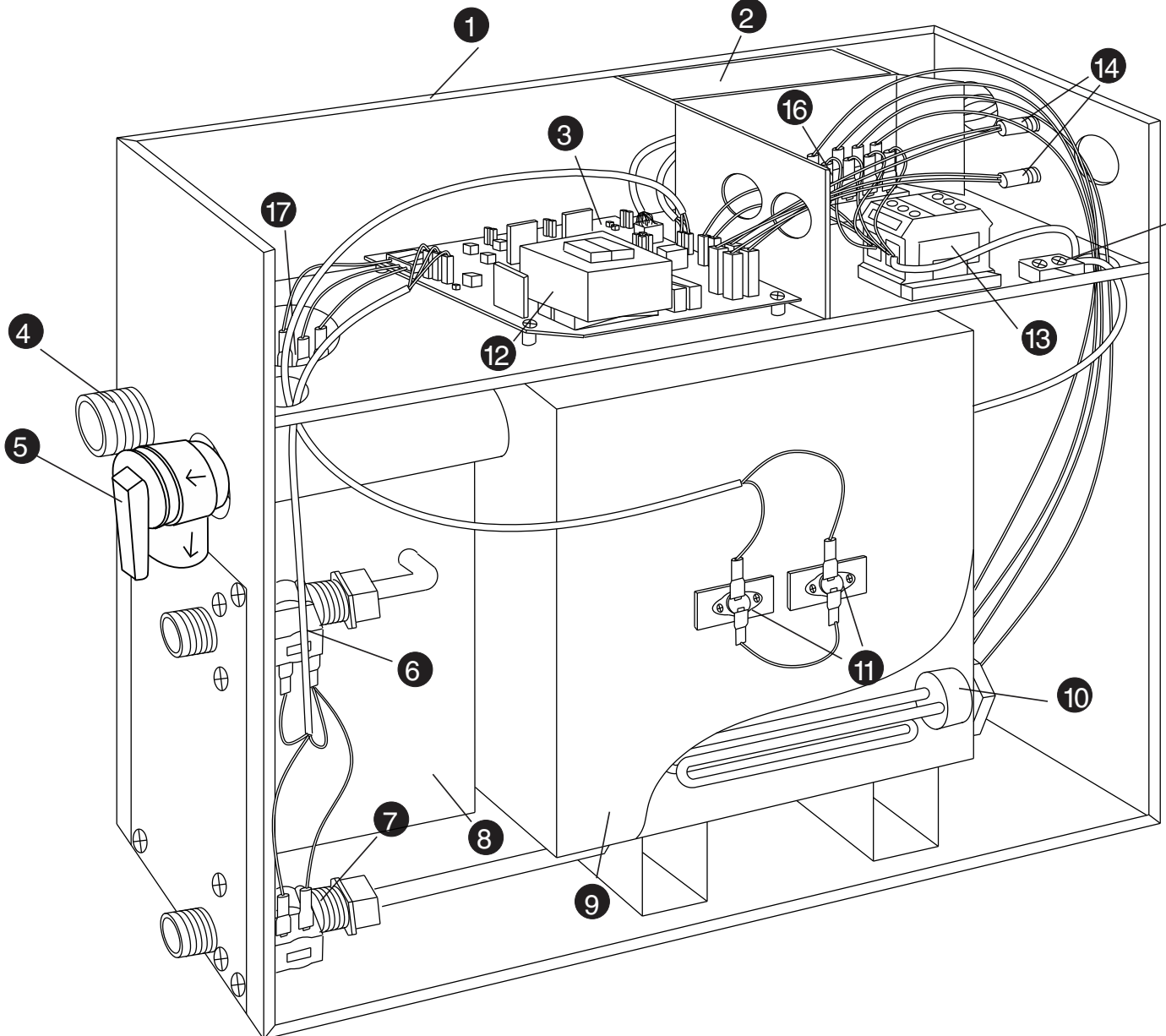
CAUTION! The power of the light should not surpass 3 watts (rated power) to prevent the damage of the transformer.

1. A whole set is equipped with AC 12V 3 watt LED lamp.
2. The light should be installed on the ceiling of the steam room or in a location not accessible to children.

CAUTION! Installer must take some moisture proof measures in the process of installation. Electrophorus components cannot be exposed to moisture, as it will cause damage to the light components causing a possible short circuit.



STEAM GENERATOR DISSECTION DIAGRAM



- | | | |
|--------------------------|--------------------------|---------------------------|
| 1. ENCLOSURE | 7. WATER DRAIN VALVE | 13. TERMINAL BLOCK |
| 2. INSULATION BRACKET | 8. SUBSIDIARY WATER TANK | 14. FUSE |
| 3. CIRCUIT BOARD | 9. MAIN WATER TANK | 15. GROUND WIRE CONNECTOR |
| 4. STEAM OUTLET | 10. HEATING ELEMENT | 16. RELAY |
| 5. PRESSURE RELIEF VALVE | 11. 221 F HI-LIMIT | 17. WATER LEVEL SENSOR |
| 6. WATER FILL VALVE | 12. TRANSFORMER | |

INSTALLATION & USER GUIDE

CARE & USE FOR THE CONTROL PANEL

1. Use soft cloth with a little soap water to clean the control panel.
2. Do not use crude cleaning tools.
3. If the decorating facade is damaged, contact service electrician to change it.

Do not install any SteamSpa controls without reading and understanding the SteamSpa generator Installation and Instruction manual. Failure to read and understand these instructions will result in inoperative control, generator, hazardous overheating, and/or inadequate heating of the steam room.

Do not route control wiring inside or close to power lines conduit, hot water or steam piping. Doing so may result in an inoperative control, generator, and/or hazardous installation.

Do not install SteamSpa controls with other than SteamSpa compatible steam generators. Doing so may result in possible generator damage or inoperative installation.

Single Control Panel with Temperature sensor must be installed inside bathing area 5 feet above floor. Do not install Control directly above Steam Head or below shower head but rather in the seating area on a vertical wall. Doing so may result in improper temperature reading and/or inoperable control.

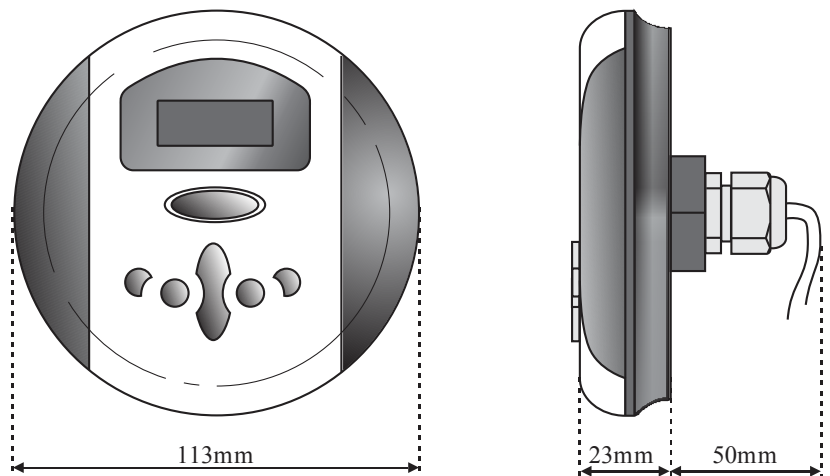
Dual Control Panel with Temperature sensor in Master Control must be installed inside bathing area 5 feet above floor. Do not install Control directly above Steam Head or below shower head but rather in the seating area on a vertical wall. Doing so may result in improper temperature reading and/or inoperable control. Slave Control installation location is designed to be installed outside the steam room.

Turn power to the steam generator off before connecting the control to the generator. Failure to turn the power off generator prior to connecting controls will result in an inoperable control.

Discontinue use of the steam generator or control if the steam generator is damaged. Continue to do so may result in an inoperative or hazardous installation.

CONTROLLER BOX CONTENT

- Control panel
- Steam nozzle
- User guide
- Controller lengthen wire (20 feet)



CONTROL PANEL INSTALLATION INSTRUCTIONS

STEP ONE

Determine the installation location of the control panel. The master control panel is designed to be installed in the steam room only, please install:

1. 4-5 feet from the ground.
2. Away from the steam head and do not expose under the direct spray of steam.
3. Install in the perpendicular wall.
4. The position of installation should facilitate easy operation and convenient wiring.

The controller wire is 1.6 feet long with a controller lengthen wire of 20 feet max. The installation of the controller should be in a position not more than 25 feet from the steam generator.

STEP TWO

Drill a round hole of 1 inch in diameter in a chosen position.

STEP THREE

Pull control panel wire inside steam room through opening connect it to the lengthened wire and then to the steam generator and connect with the corresponding wire in the generator. Connecting the wire of control panel outside room to the wire of control panel inside the room. When connecting wires please follow arrows on connector heads for proper connection. Failure to do so will result in damaging of control pins.

STEP FOUR

Start the power supply of steam generator, check and adjust connection, check each item on the page to make sure all functions work well.

IMPORTANT! Before adjusting the control panel, make sure the steam generator is shut off otherwise the control panel may get damaged.

STEP FIVE

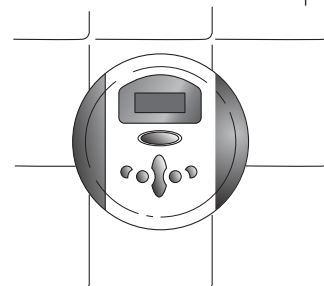
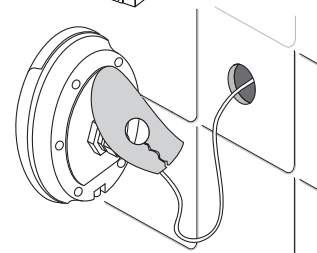
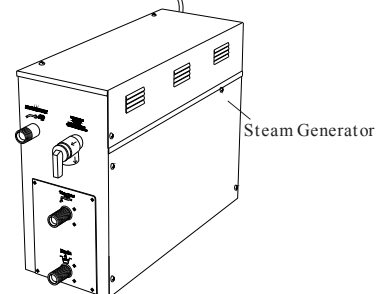
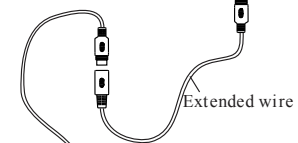
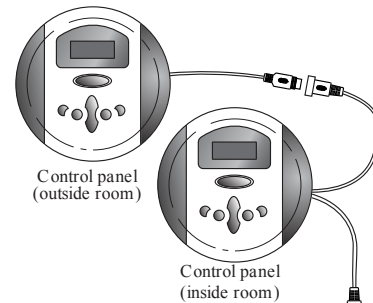
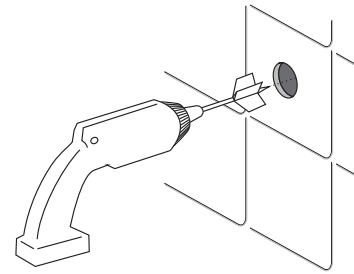
Remove the adhesive paper from Control Panel. To achieve proper adhesion, make sure surface clean, dry and free of dust.

IMPORTANT! Do not over extend or clip control panel wire as it may cause possible damage.

STEP SIX

Run a bead of silicone around adhesive gasket. Press Control Panel against wall at a 12 O'clock position until firmly adhered to surface.

IMPORTANT! Please do not apply an excessive amount of silicone. Just enough to provide a moisture seal should suffice.



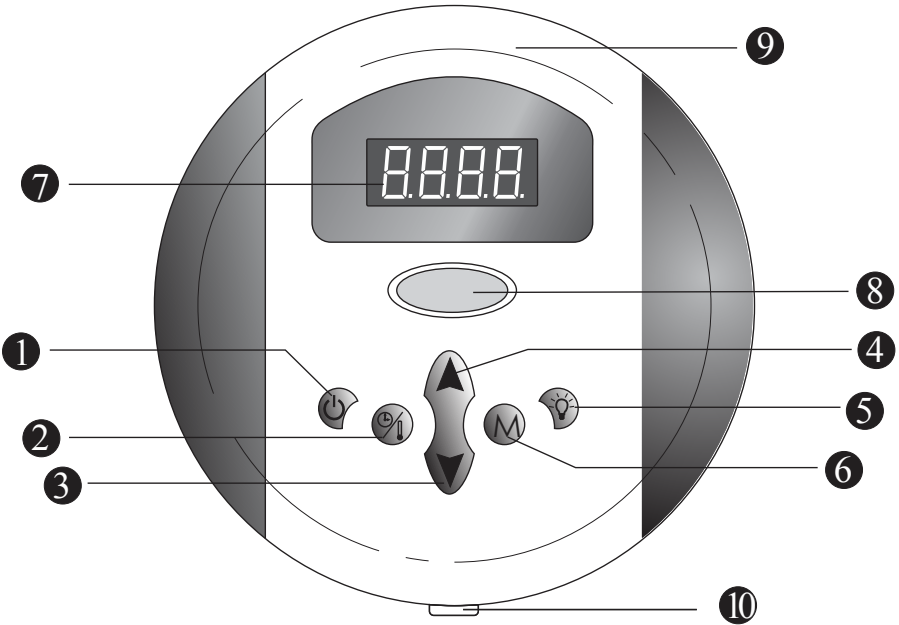
TESTING THE MACHINE

1. Make sure the power switch of the control panel is turned on (the control panel displays ---), and the water supply valve will open.
2. Press the steam switch, (☺), the control panel will display the temperature of the environment, the steam engine begins to input water to start the steam function, and while opening the steam, press the (☹) button to open light function.
3. When there is steam output, press (☹) again, the steam will stop and the light will go off automatically.
4. Press the (☺) button to start the steam, the steam will come out of the steam generator in no more than 1 minute. Afterwards, the steam generator will supply water about every minute, the steam will decrease but not stop, and about 10 seconds later the steam will come out normally. As time goes on, the temperature displayed in the control panel will rise with the temperature in the room before it stops and stays at the set temperature.
5. Based on different requirements of the user for temperature and steam time, the control panel can adjust temperature and steam time. While testing the machine, set the time to be 30 minutes and the temperature to be 120F.
6. When the set steam time is due, the system will shut off the steam and light function automatically to stop water input and steam production.
7. 10 minutes after the steam is shut off, the system will start drainage automatically for 7 minutes. After testing the machine and it is working properly. Then the machine can be operated normally.

WARNING! Do not dismantle the safety pressure decrease valve arbitrarily.

IMPORTANT! Do not switch the water input pipe when the steam generator is working.

CONTROL PANEL DIAGRAM




- | | |
|-----------------------|---------------------------|
| 1. POWER ON/OFF | 6. MEMORY |
| 2. TIME/TEMP SET | 7. DIGITAL DISPLAY SCREEN |
| 3. TIME/TEMP DECREASE | 8. STEAMSPA LOGO |
| 4. TIME/TEMP INCREASE | 9. FRONT DECORATIVE BEZEL |
| 5. LIGHT ON/OFF | 10. TEMP SENSOR |

CONTROL PANEL OPERATION


The control panel has a digital temperature control system which can start, stop or pause in the preset time to keep the temperature at the set number.

ON/OFF






When system is powered, all functions will still not be activated and remain in a waiting state. Digital tube will display ---- (Fig.1). In the waiting state, press the  button to turn on the system and activate steam function. System will recall last use steam time and TEMP, system begins to count down. During this time, the digital tube will display the ambient temperature. Steam temperature display range is 32° F-140° F.

When the actual temperature is lower or equal to 32° F, the digital tube will display 32° F. When the actual temperature is higher or equal to 140° F, the digital tube will display 140° F. The last digit displays as the *F* unit (Fig.2) of Fahrenheit temperature. The default steam time is 30 minutes.



When lacking water, the heating elements will stop heating and the water inlet valve will work automatically. If there is no water detected in 5 seconds or the water coming in does not reach the set point in 15 seconds, the digital tube will display *EO* (Fig.3) to indicate an error of not enough water cycling. If there is enough water cycling, the steam function will return to normal. When the steam function is started, if the ambient room temperature is higher than the set point, the heating element will stop heating, the digital tube will flash to display the current environment temperature; when the environment temperature is lower than the set point, the heating element will work again, the digital tube will display current room temperature normally.

When the system is on, press  button to turn off the system, or when the steam time is over the system shuts off. 10 minutes after the system is shut off, the drainage function will be started automatically for 7 minutes.

TIME AND TEMPERATURE SETTING

When system is on,  press button twice, system will cycle switch in time setting, TEMP setting and ambient TEMP display state (Fig.4). When the digital tube displays dashes across the screen it will allow you to set the duration of the steam bath. During this time, press  or  to adjust steam time. Its range is 1-60 minutes, with 1 minute intervals. If there is no adjustment in 5 seconds, the system will exit time setting automatically and the LED will display current ambient TEMP. When the LED screen shows number and TEMP unit F, it is displaying the indoor ambient temperature. When the TEMP unit F flashes on the LED screen, it means the system is in the steam TEMP setting state. During this time, press  or  to adjust steam TEMP (Fig.5). Its range is 50°~130° Fahrenheit, with 1° increments. If no adjustment is done in 5 seconds, the system will exit the TEMP setting automatically and the LED screen will display ambient temperature.

MEMORY FUNCTION

When system is on, it recalls the last time used with the steam time and TEMP. After adjusting steam time and steam TEMP, press  for about 1.5 seconds to adjust time and TEMP parameters as current state. The LED screen will show current settings. When system is on, press  to switch modes between SET1 and SET2. The LED screen displays the current mode.

LIGHT FUNCTION


When the machine is started, press  button to turn on/off light function. When the light is turned on, the digital tube will temporarily display *LON* (Fig.6). When the light is turned off, the digital tube will temporarily display *L0FF* (Fig.7). Screen will turn to display ambient TEMP if no operation is selected in 5 seconds.



Fig. 1



Fig 2



Fig. 3

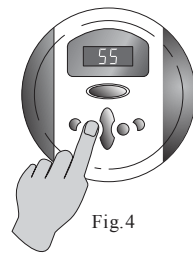


Fig. 4



Fig. 5



Fig. 6



Fig. 7

STEAM GENERATOR MAINTENANCE

IMPORTANT! The steam generator automatically performs a water discharge operation after each use.

1. Wait for the completion of automatic water discharge after each time using the steam generator to make sure the water in the tank is discharged completely before cutting off power supply.
2. There should not be any leakage or damage among the steam generator, steam nozzle, components and pipes. They should be checked and repaired annually.
3. Clean the water supply pipes of the steam generator once a year.
4. Check all the faucet connections, to ensure wether they are tight and not damaged due to overheat.
5. Check the sediments accumulated in the water tank and electric heating tube. If the sediment is thick, dispose of it in time (using diluted lemon acid to soak for 15-30 minutes).
6. Remove the water level sensory needle once a quarter to clean the sediment in the needle.

TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSES | SOLUTIONS |
|--|---|--|
| The machine does not start when powered | <ol style="list-style-type: none"> 1. Burned out fused 2. The electrical wiring became loose 3. Control panel connection loose | <ol style="list-style-type: none"> 1. Replace fuse (0.8A/240V) 2. Cut power Supply and reconnect wiring 3. Reconnect control panel and reset 4. Controller (turn off and on) |
| Breakers are tripping | <ol style="list-style-type: none"> 1. The wire connector is dampened or damaged 2. Damaged heating element | <ol style="list-style-type: none"> 1. Check whether the wire connector is dampened or damaged, and dry if dampened 2. Replace heating element |
| When the machine is started, hot water comes out with little or no steam | <ol style="list-style-type: none"> 1. Bad water drainage valve | <ol style="list-style-type: none"> 1. Replace water drainage valve |
| The display screen on the control panel does not display anything | <ol style="list-style-type: none"> 1. The control panel wire is not connected properly 2. Trouble with generator motherboard | <ol style="list-style-type: none"> 1. Check whether the connection plug between the control panel and the generator has become loose, and whether the power circuitry has good contact 2. Replace the motherboard |
| Water leakage | <ol style="list-style-type: none"> 1. The water pipe connector becomes loose or pipe is broken. 2. Water leakage in the water input valve or the water drainage valve | <ol style="list-style-type: none"> 1. Tighten the loose connection or change the broken pipe 2. Change the water input valve or the water drainage valve |
| No steam when starting the machine | <ol style="list-style-type: none"> 1. No electricity 2. No water 3. The set temperature is too low 4. Wiring connection problem | <ol style="list-style-type: none"> 1. Check the power supply and connections 2. Check the water input pipe and water input valve 3. Reset the temperature 4. Check wiring connection and tighten |
| The steam does not come out, the water sounds in the machine | <ol style="list-style-type: none"> 1. Possible steam pipe blockage | <ol style="list-style-type: none"> 1. Cut power supply and check blockage in steam pipe |
| Light doesn't turn on | <ol style="list-style-type: none"> 1. Bad LED light bulb 2. Wiring connection improperly connected or light cable damage | <ol style="list-style-type: none"> 1. Change LED light bulb 2. Tighten connection or replace light cable |

TECHNICAL PARAMETERS

| Type | 4.5KW | 6KW | 7.5KW | 9KW | 10.5KW | 12KW | 15KW |
|--|---------|---------|---------|---------|---------|---------|---------|
| Power (KW) | 4.5 | 6 | 7.5 | 9 | 10.5 | 12 | 15 |
| Voltage (V) | 240 | 240 | 240 | 240 | 240 | 240 | 240 |
| Current (A) | 19 | 25 | 32 | 38 | 44 | 50 | 63 |
| Errors Range | +10% | +10% | +10% | +10% | +10% | +10% | +10% |
| Anti-Static Constant | >1500V | >1500V | >1500V | >1500V | >1500V | >1500V | >1500V |
| Insulation Resistance | >20M Ω | >20M Ω | >20M Ω | >20M Ω | >20M Ω | >20M Ω | >20M Ω |
| Head Lamp | ~12V/3W | ~12V/3W | ~12V/3W | ~12V/3W | ~12V/3W | ~12V/3W | ~12V/3W |
| Temperature Range (°F) | 50-130 | 50-130 | 50-130 | 50-130 | 50-130 | 50-130 | 50-130 |
| Time Set Range (min) | 1-60 | 1-60 | 1-60 | 1-60 | 1-60 | 1-60 | 1-60 |
| Steam Press (psi) | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| Steam Vol. (cu. in./min) | 9 | 11 | 13 | 16 | 19 | 21 | 25 |
| Steam Spray Time (sec) | 100-180 | 180-240 | 150-210 | 120-180 | 170-230 | 150-160 | 120-150 |
| Water Vol. (cu. in.) | 80 | 160 | 160 | 160 | 330 | 330 | 330 |
| Applicable Space of the Room (cu. ft.) | 90 | 150 | 225 | 300 | 400 | 450 | 500 |

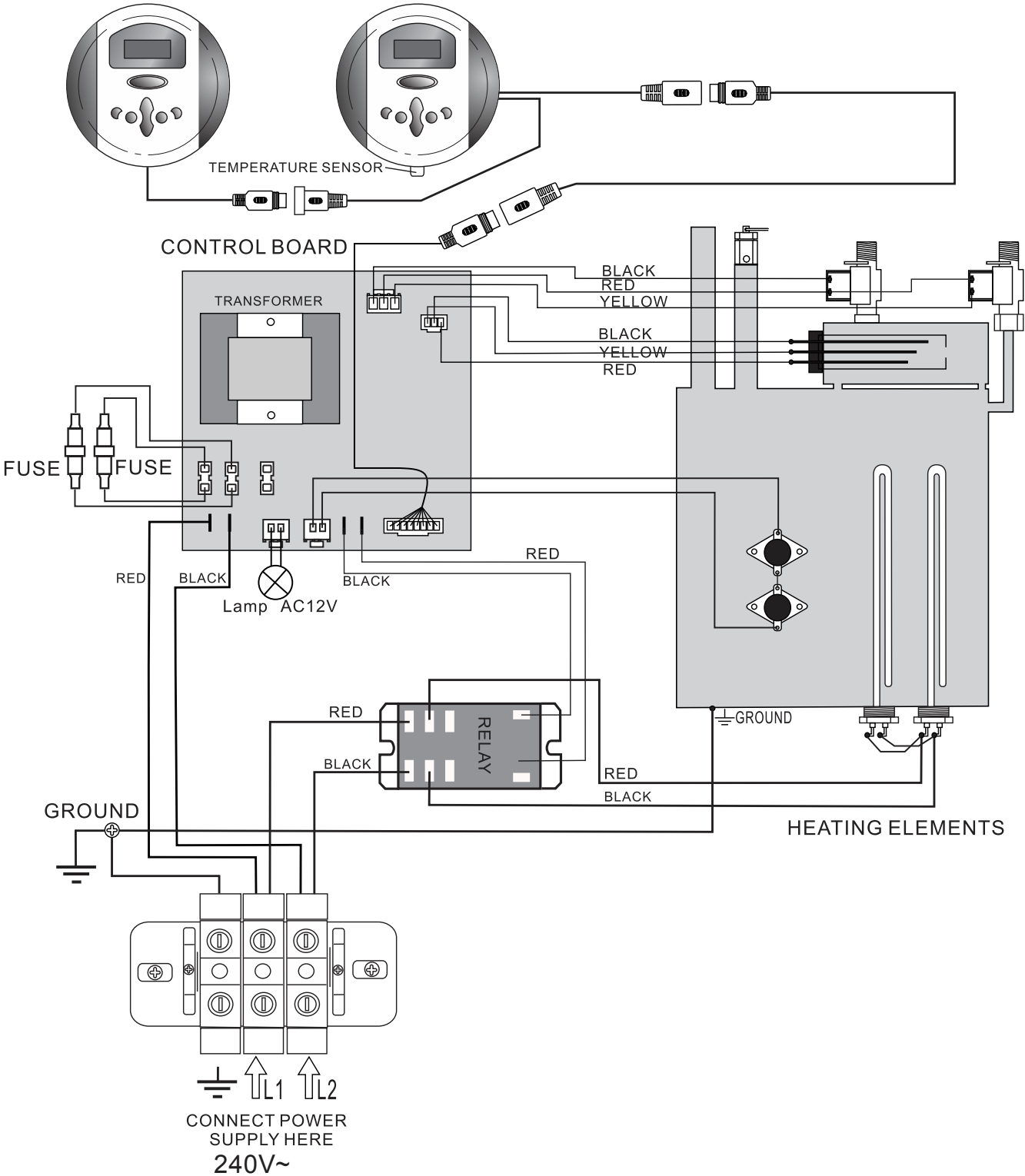
IMPORTANT! The list above is for reference only. Actual checking and repairing should be based on national and local codes, ask professional service personnel to operate.

IMPORTANT! The parameter listed above will vary by geographical location and environment. Please consult a qualified designer and architect for more detailed use.

WIRING DIAGRAMS

4.5KW

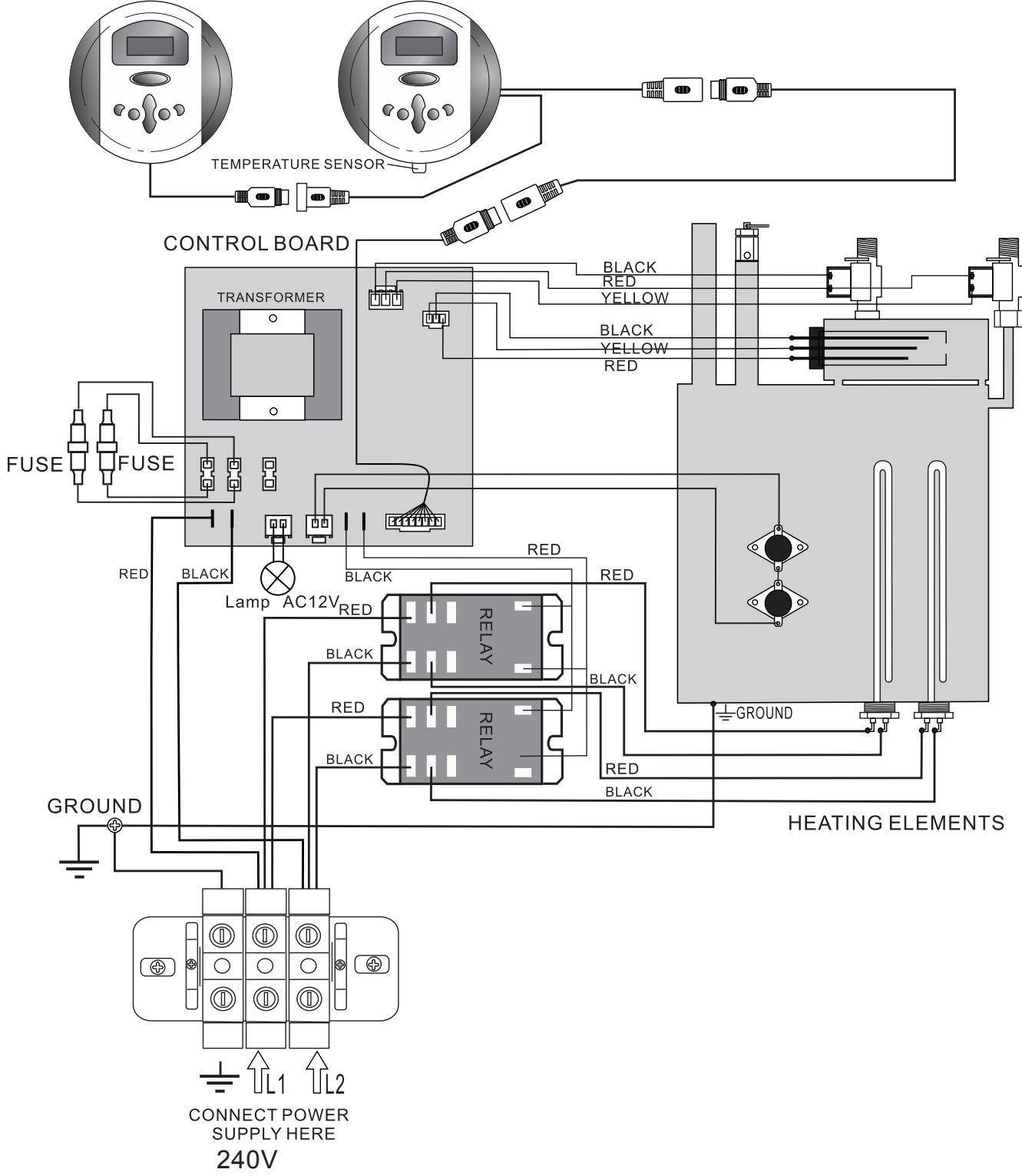
Control panel(outside room) Control panel(inside room)



INSTALLATION & USER GUIDE

6KW

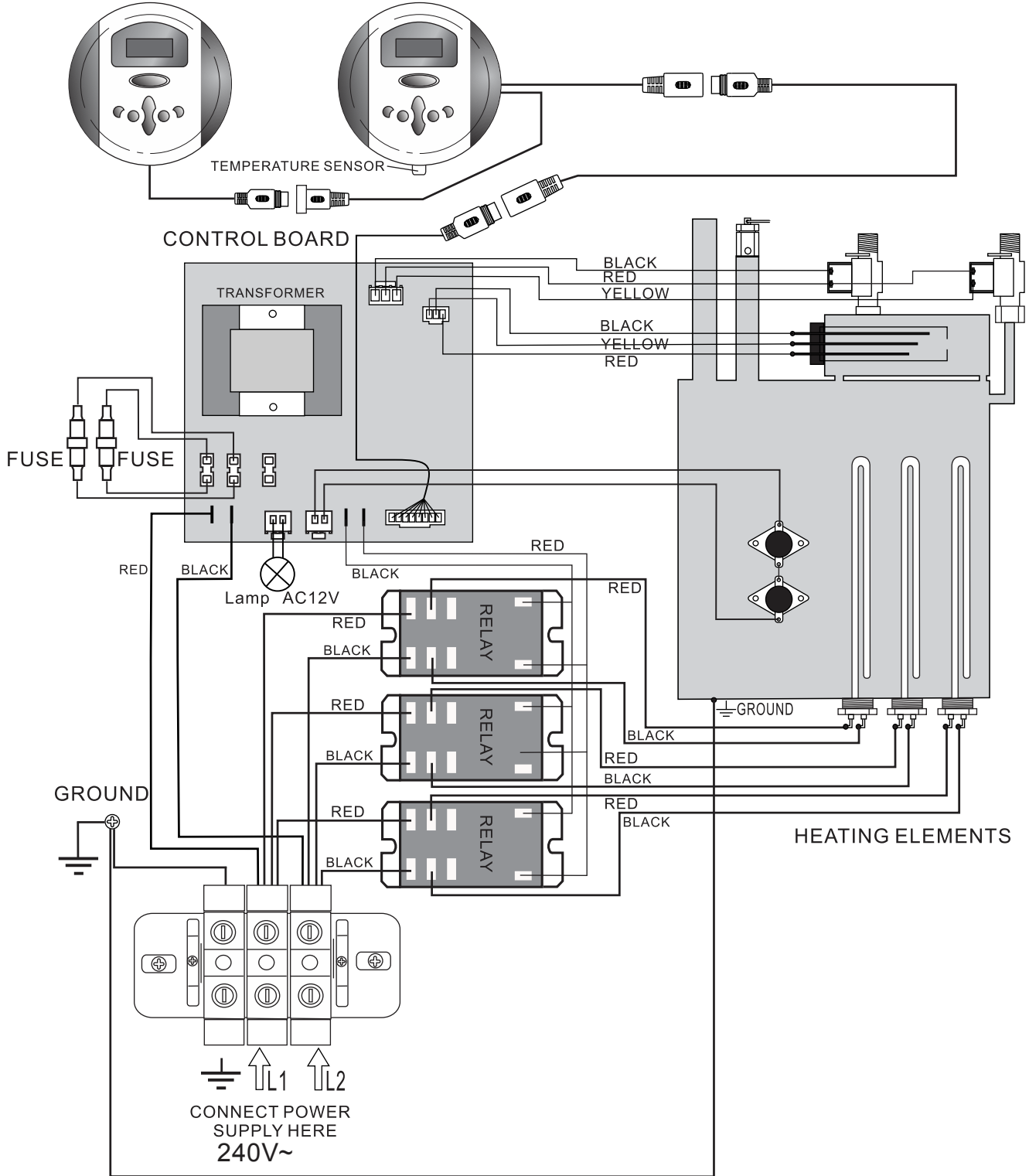
Control panel(outside room) Control panel(inside room)



INSTALLATION & USER GUIDE

7.5KW & 9KW

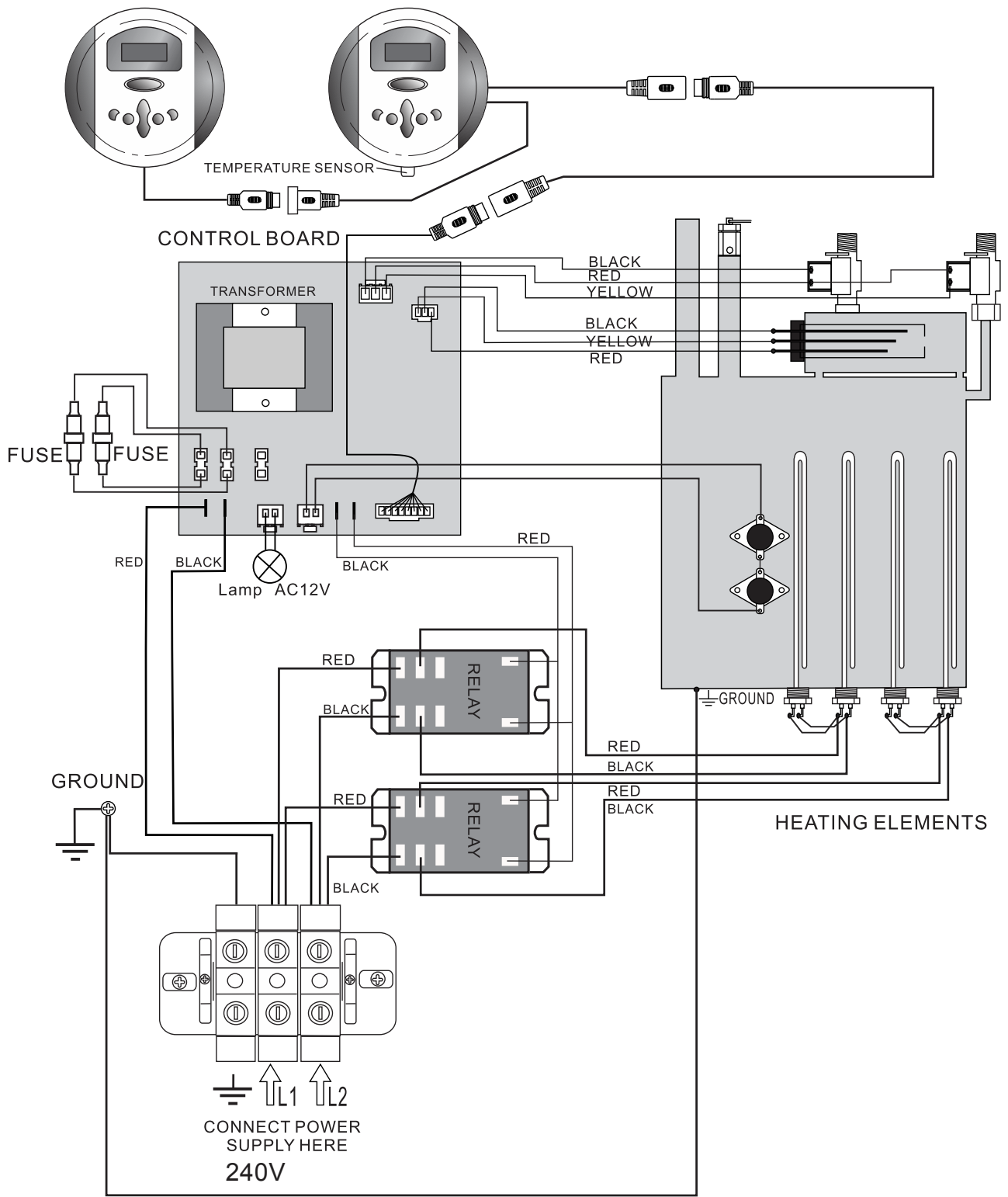
Control panel(outside room) Control panel(inside room)



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10.5KW & 12KW

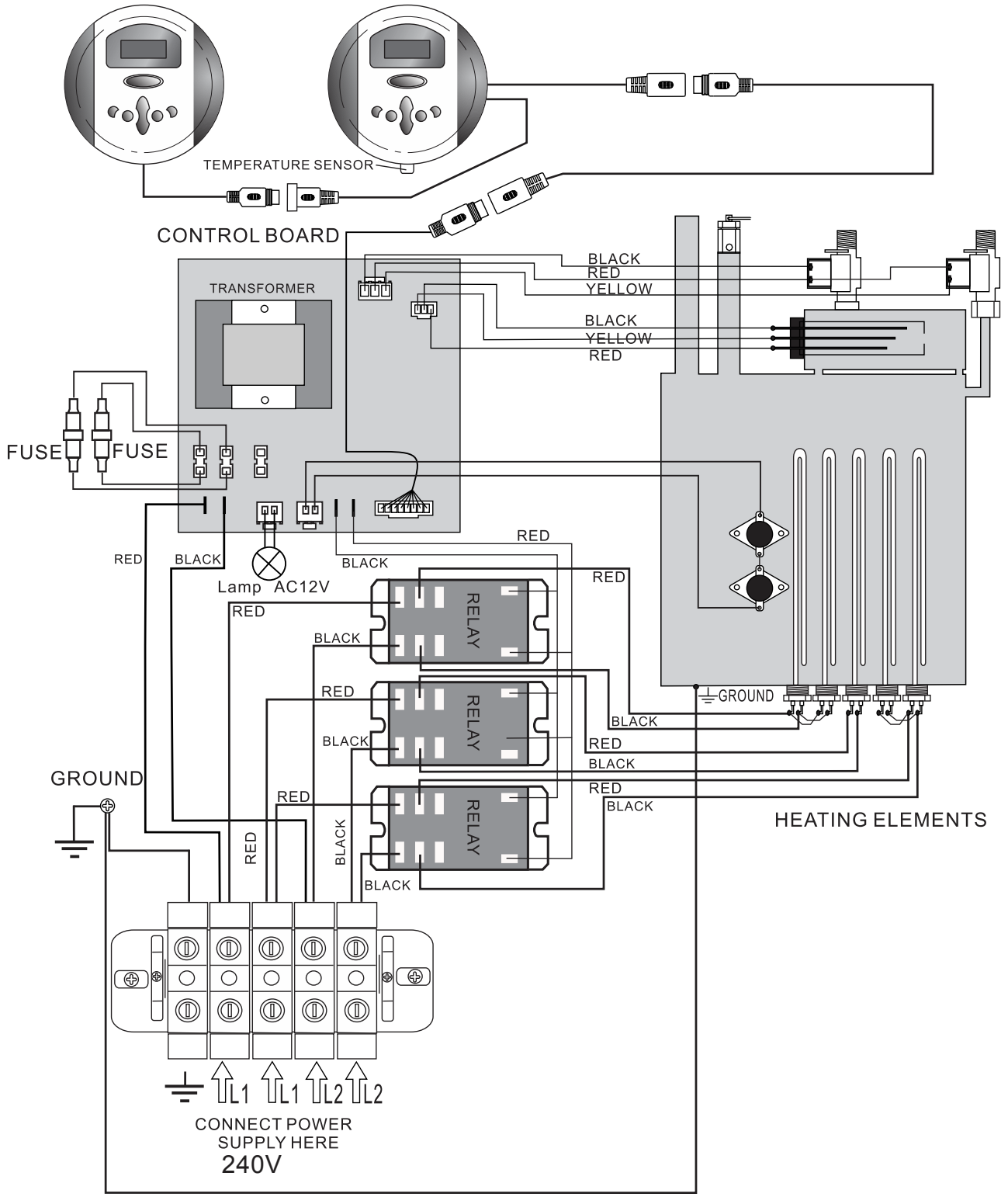
Control panel(outside room) Control panel(inside room)



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15KW

Control panel(outside room) Control panel(inside room)



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