



STEAM BATH GENERATOR USER GUIDE

MODELS

4.5KW

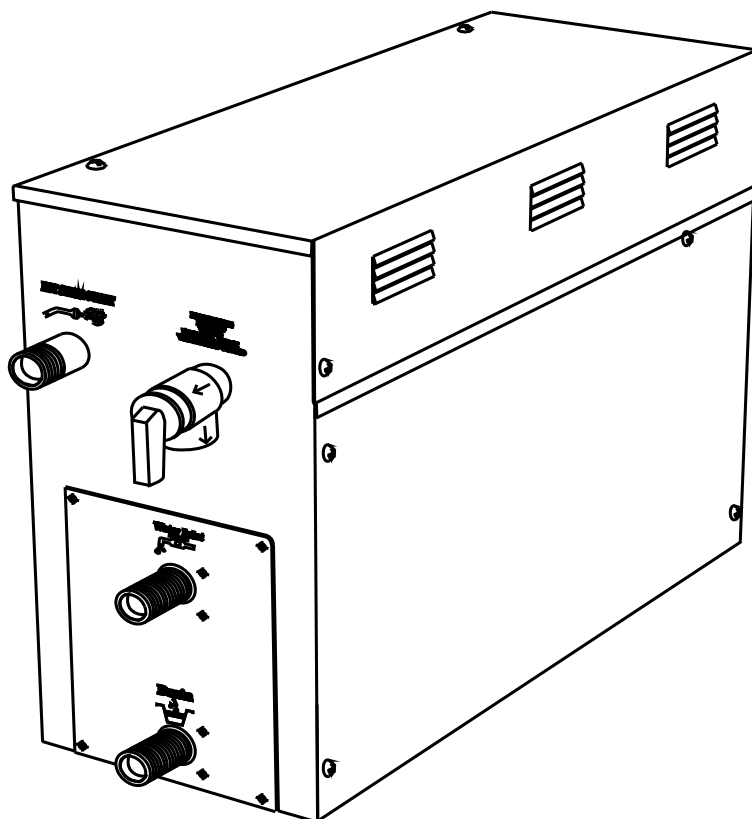
6KW

7.5KW

9KW

10.5KW

12KW



DON'T WAIT! REGISTER NOW!

Register your product within 90 days to ensure your steam bath generator is recognized as an official purchase and is eligible for warranty coverage.

Mail in the completed registry card (Pg. 2) or register online at www.SteamSpa.com/register.



PRODUCT REGISTRATION*

IMPORTANT: Your warranty will not be recognized unless this card is fully completed and returned or online registration is completed.

To ensure that your warranty is registered and confirmed please do one of the following:

- 1. Register online at www.SteamSpa.com/register.** You will be asked to fill out the same information you would in the registration card. Registering online is fast, secure and ensures we receive your information.
- 2. Complete, cut-out and mail the registration card below.** By returning this registration card we confirm the date of purchase for your new product. This confirmation will allow us to process any warranty claims.

Mail the card to: 5701 NW 35 Avenue, Miami, FL 33142



CUT ALONG
DOTTED LINE.

Product Registration Card

Name Address

City State Zip

Phone Email.....

Date of Purchase..... Order or Purchase #..... SKU or Model #.....

Installer's Name Phone

I have read the Owner's Guide carefully and understand and agree that any installation, operation or maintenance of the steam generator and generator accessories must be done strictly in accordance with instructions and guidelines contained in the owner's manual and installation guide.

Signature..... Date.....

IMPORTANT WARRANTY INFORMATION!



The installation of a quick release and pressure reduction system is essential to the care and maintenance of your steam bath generator unit. Additionally, the use of an inline water filter with fresh cartridges prevents mineral deposit and built up from damaging the generator's internal plumbing and components.

Please be advised failure to comply with any of the following will VOID the warranty.

1. The User must register product within 90 days of delivery. See www.SteamSpa.com/register.
2. Installation must be performed by a licensed professional.
3. A quick release & pressure reducing valve must be used for reliable periodic maintenance.
4. An inline water filter must be installed to prevent mineral deposit and build up.
5. Filter cartridge must be replaced no later than every 6 months.

Malfunctions, damages, parts replacement and labor resulting from improper installation, negligence, or lack of care and maintenance will NOT be covered under the SteamSpa Warranty.

For more information visit www.SteamSpa.com/warranty or call 1-800-856-0172.

STEAM QUICK RELEASE & PRESSURE REDUCTION KIT w/ WATER FILTER PLUS EXTRA CARTRIDGES STMKIT-02



READ ME FIRST!

IMPORTANT NOTE: As you follow these instructions, you will notice warning and caution symbols. This blocked information is important for the safe and efficient installation, operation and maintenance of this generator. These are types of potential hazards that may occur during this installation and operation:

 **WARNING** states a hazard may cause serious injury or death if precautions are not followed.

 **CAUTION** signals a situation where minor injury or product damage may occur if you do not follow instructions.

IMPORTANT NOTE: This highlights information that is especially relevant to a problem-free installation.

IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL INSTRUCTIONS

2.  **WARNING** To reduce the risk of injury, children under the age of 16 should not use the steam bath.

3.  **WARNING** To reduce the risk of injury:

- A. The wet surfaces of steam enclosures may be slippery. Use care when entering or leaving.
- B. The steam head is hot. Do not touch the steam head and avoid the steam near the steam head.
- C. Prolonged use of the steam system can raise excessively the internal human body temperature and impair the body's ability to regulate its internal temperature (hyperthermia). Limit your use of steam to 10-15 minutes until you are certain of your body's reaction.

D. Excessive temperatures have a high potential for causing fetal damage during the early months of pregnancy. Pregnancy or possibly pregnant women should consult a physician regarding correct exposure.

E. Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a steam bath.

F. Persons using medication should consult a physician before using a steam bath since some medication may induce drowsiness while other medications may affect heart rate, blood pressure and circulation.

4. SAVE THESE INSTRUCTIONS

HYPERTHERMIA

The causes, symptoms, and effects of hyperthermia may be described as follows: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6° F. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting.

The effects of hyperthermia include:

- a) Failure to perceive heat
- b) Failure to recognize the need to exit the steam bath
- c) Unawareness of impending risk
- d) Fetal damage in pregnant women
- e) Physical inability to exit the steam bath
- f) Unconsciousness.

 **WARNING** The use of alcohol, drugs, or medication can greatly increase the risk of hyperthermia.



This peel-n-stick warning label must be applied to the wall of the shower or steam enclosure, at a point visible to all users. Failure to install sticker may result in serious injury or death. For replacement label contact SteamSpa at 1-800-856-0172 or info@steamspa.com.

WARNING

REDUCE THE RISK OF OVERHEATING AND SCALDING

1. EXIT IMMEDIATELY IF UNCOMFORTABLE, DIZZY OR SLEEPY.
STAYING TOO LONG IN A HEATED AREA IS CAPABLE OF CAUSING OVERHEATING.
2. CHILDREN UNDER THE AGE OF 16 SHOULD NOT USE THE STEAM BATH.
3. CHECK WITH A DOCTOR BEFORE USE IF PREGNANT, DIABETIC, IN POOR HEALTH OR UNDER MEDICAL CARE.
4. BREATHING HEATED AIR IN CONJUNCTION WITH CONSUMPTION OF ALCOHOL, DRUGS, OR MEDICATION IS CAPABLE OF CAUSING UNCONSCIOUSNESS.
5. DO NOT CONTACT STEAM HEAD OR STEAM AT THE STEAM HEAD.

REDUCE THE RISK OF SLIPPING AND FALL INJURY

1. USE CARE WHEN ENTERING OR EXITING THE STEAM ROOM. FLOOR MAY BE SLIPPERY.

NOTE: FOR ADDITIONAL SAFETY CONSIDERATIONS SEE OWNER'S MANUAL

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IMPORTANT!

PRIOR TO INSTALLATION, LET WATER RUN THROUGH THE WATER PIPE TO CLEAN ANY POSSIBLE DEBRIS BEFORE CONNECTING THE GENERATOR.

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.

WARRANTY

SteamSpa warrants that this steam bath generator unit will be free from manufacturer defects and malfunctions. For terms and condition please refer to latest SteamSpa Warranty at www.SteamSpa.com/warranty.

Please be advised failure to comply with any of the following will VOID the warranty.

1. Generator and Use are registered within 90 days of delivery. See www.SteamSpa.com/register.
2. Installation must be performed by a licensed professional.
3. A quick release & pressure reducing valve must be used for reliable periodic maintenance.
4. An inline water filter must be installed to prevent mineral deposit and build up.
5. Filter cartridge must be replaced no later than every 6 months.

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 generator should be less than 25ft from the steam room for best performance.
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 panel should be installed away from the steam head to avoid false readings, please read the instructions for the controller's installation and operation.

INSTALLATION DRAWING OF STEAM GENERATOR

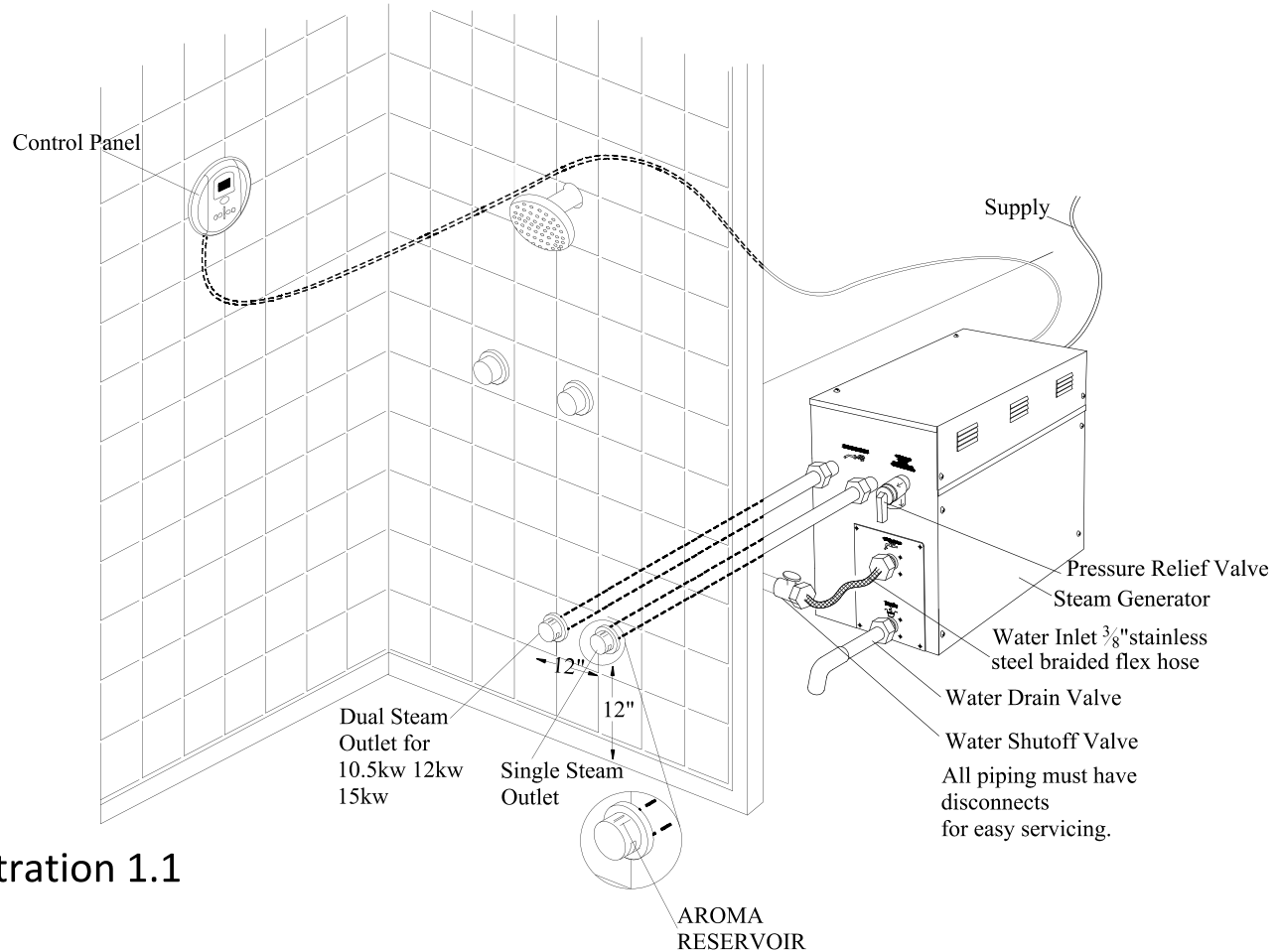


Illustration 1.1

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

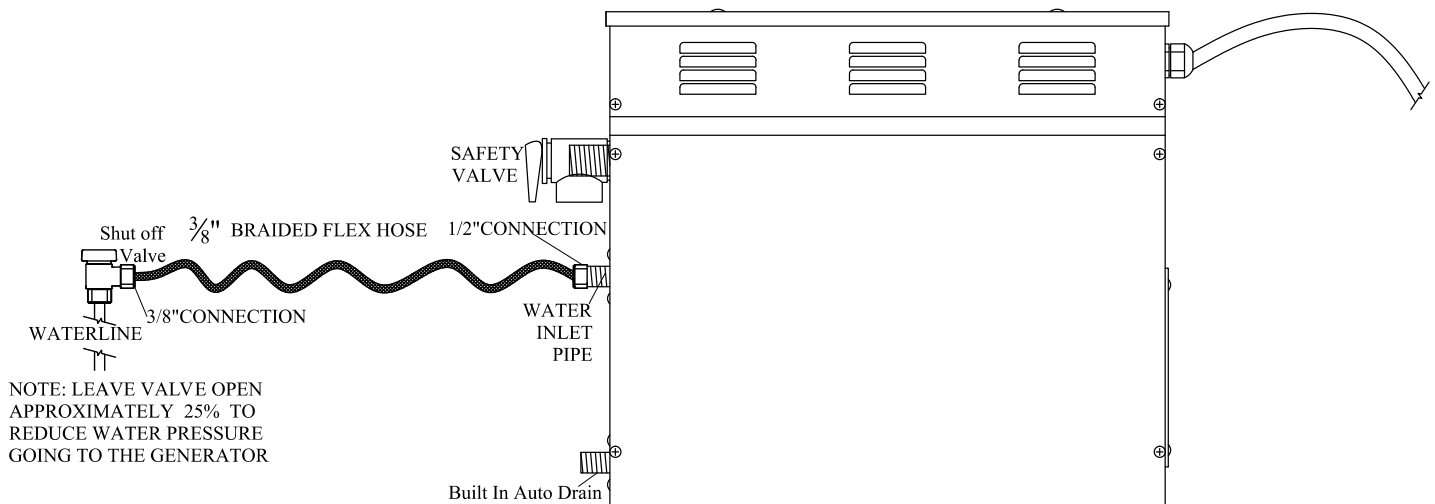


Illustration 1.2

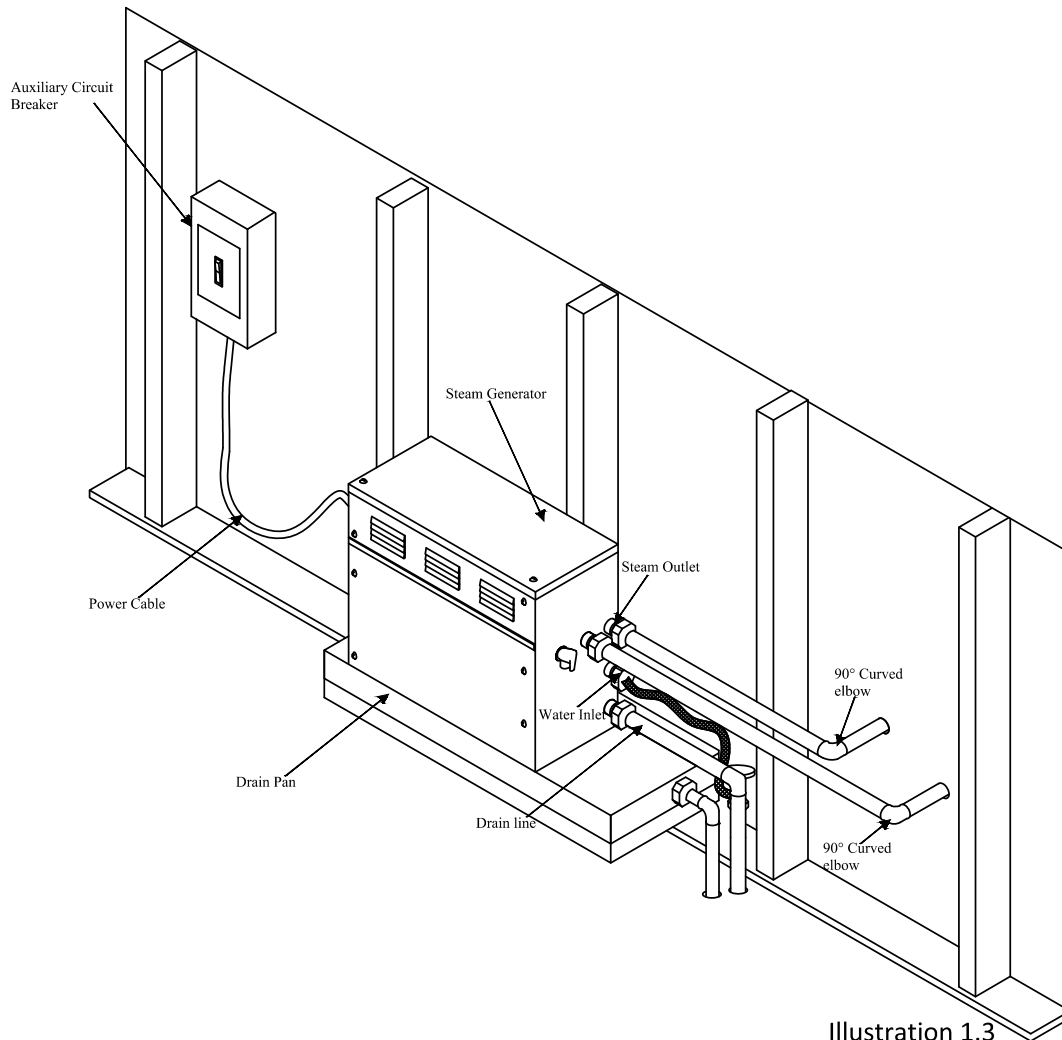


Illustration 1.3

ATTENTION! The drawing is only for explanation purposes, please consult with a qualified designer, architect or builder.

IMPORTANT! All pipe connections should have unions and adapters for easy disconnect.

ATTENTION! Proper installation is a critical requirement per the SteamSpa Warranty terms and conditions. A licensed professional must be used to ensure proper installation. A quick release system, pressure reducing valve, inline water filter and regular maintenance are required.

WARNING! Water pressure should be reduced to 15 PSI for proper generator operation and to avoid leaks or crack in water filter. Installation must be done in the following order:

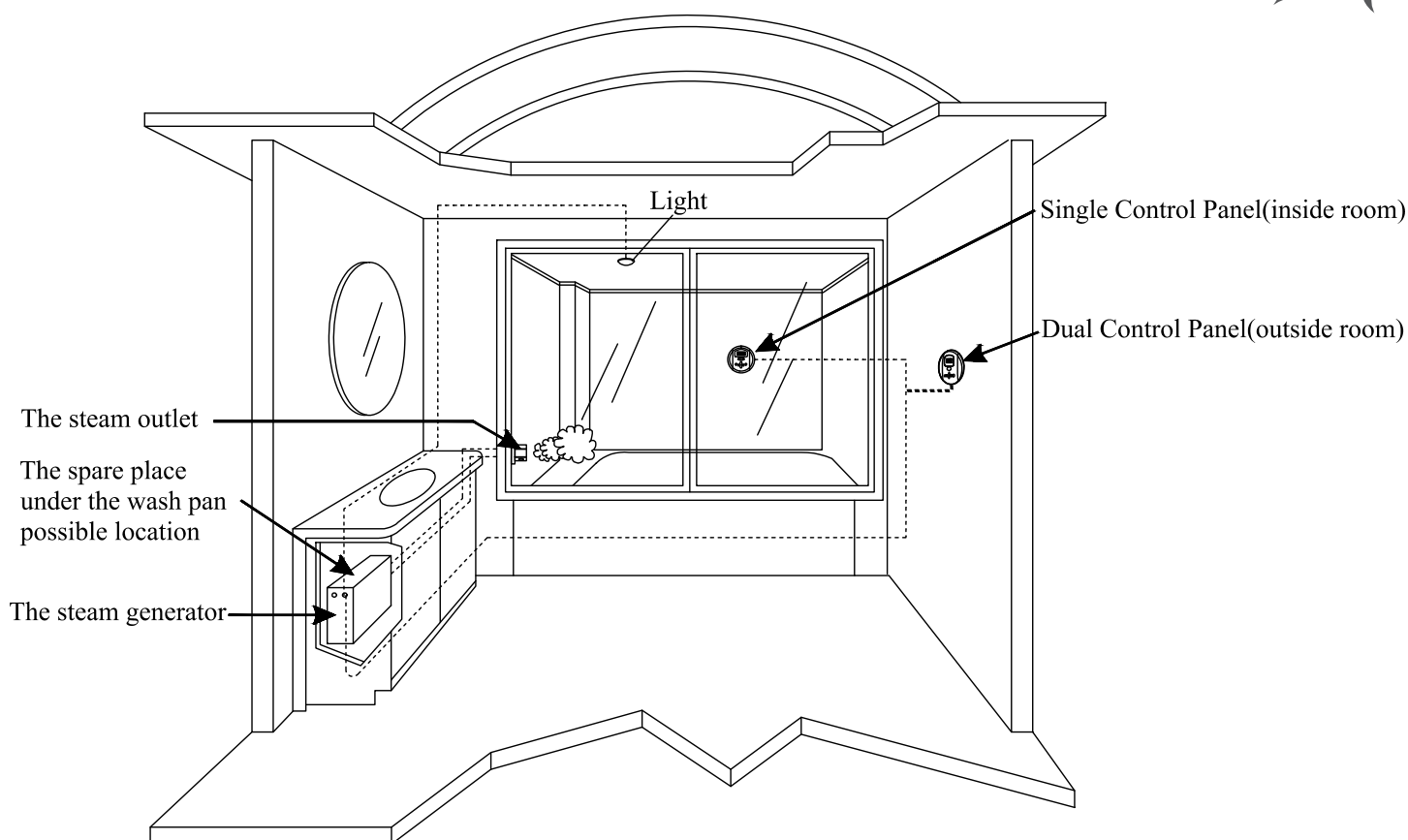
- 1 Pressure Reducing Valve*
- 2 Water Filter
- 3 Quick Shut-off Valve*
- 4 Steel Braided Flex-Hose*

* Available with the Quick Connect Install Kit



Water Supply Line

Steam Generator



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.

The steam generator maybe installed in these location.

1. In closet located behind the shower.
2. In Attic
3. In basement etc.

ATTENTION! If the installation of the steam generator will be more than 10 to 15 feet away from the steam room. It is recommended to increase the size of the generator 1 or 2 kilowatts higher to increase the steam flow.

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 pipe only.
3. Do not use black and galvanized or PVC pipes.

ATTENTION! Please ensure a quick connect and release system is employed when installing steam generator to plumbing. Doing so will ensure quick and easy access to the generator for regular care and maintenance and is a critical condition for an active SteamSpa Warranty protection.

WATER SUPPLY PIPE (1/2")

1. Connect hot water or cold water pipes. However it should not exceed 160F.
2. Install a shut off valve in the water supply line. The shut off 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. Use a 3/8" steel braided flex hose with a shut off valve to connect the main waterline to the generator. See page 7 illustration 1.2.
5. The shut off valve should be open approximately 25% to reduce water pressure to the generator. The water pressure to the generator should be between 15 to 20 PSI if necessary, decrease the pressure accordingly.
6. A hydro pneumatic pressure reducing valve must be installed. The SteamSpa quick release & pressure reducing kit comes with a pressure reducing device calibrated to work with any SteamSpa generator unit.
7. Do not use PEX or PVC tubing.

INLINE WATER FILTER

WARNING! When installing an Inline Water Filter it is imperative that the water pressure entering the filter is reduced to 15 to 20 PSI to avoid any leaks or cracks.

STEAM PIPE (3/4")

1. Do not install any stop valves in the steam pipes. The steam can never be obstructed.
2. Install a 3/4" copper or brass pipe between the steam generator and the steam nozzle.
3. If needed, the heat insulation material used to insulate the steam pipe should be resistant to temperatures as high as 240F or higher.
4. The shorter the distance, the better. Use curved elbows when connecting pipes to allow the steam to flow smoothly through the steam pipe.

STEAM HEAD (3/4")

ATTENTION! Steam Head and the steam outlet gets 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 approximately 12 inches above the ground floor. 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 sealant so that no steam will enter the holes in the wall.

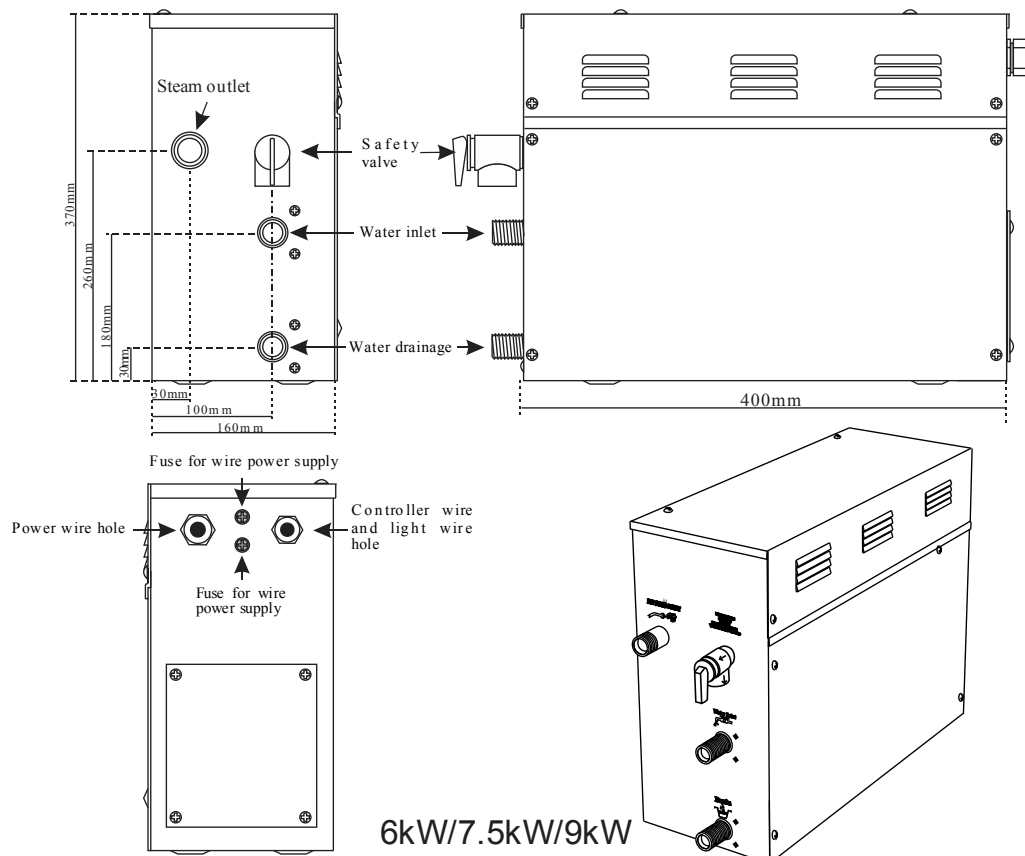
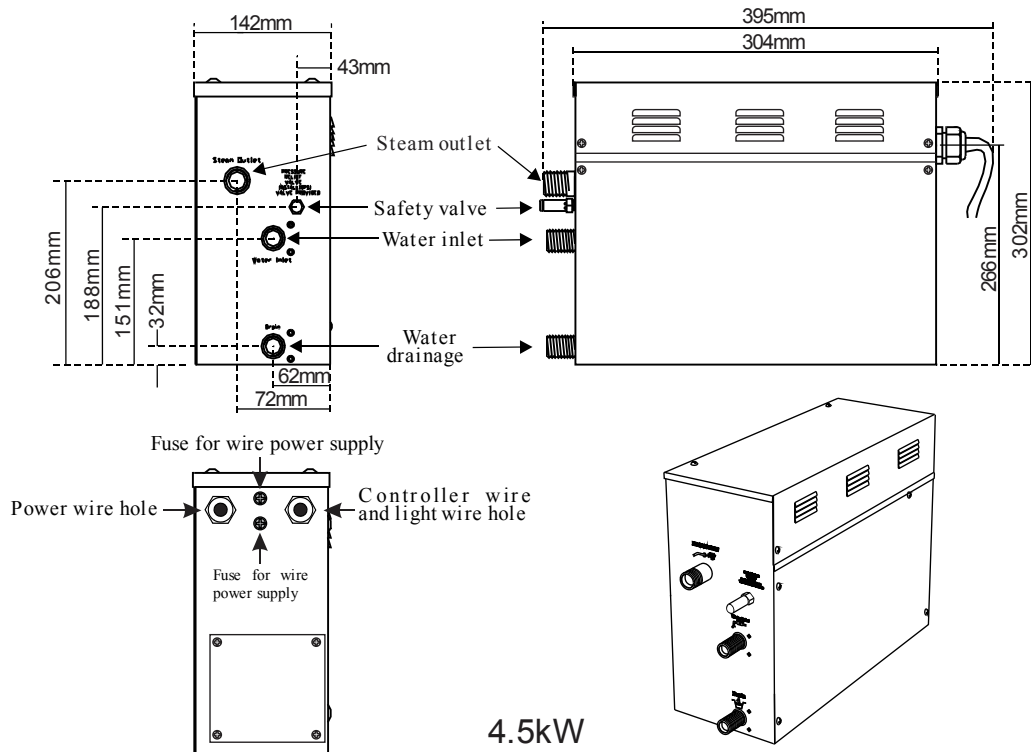
DRAINPIPE (1/2")

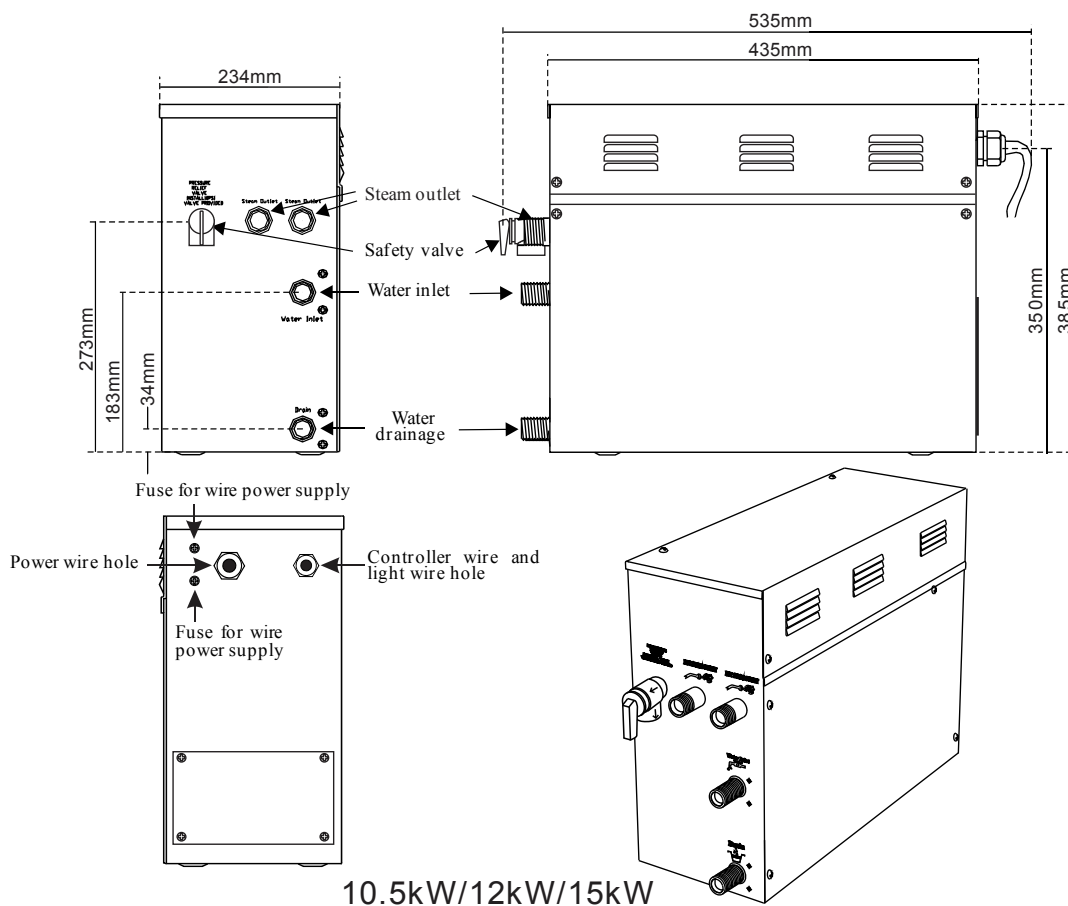
ACCORDING TO THE NATIONAL AND LOCAL PLUMBING CODES: The steam generator drain valve should be equipped with a drainpipe. The steam generator drains the water by gravity. Check local code requirements for drain valves. Do not connect the safety valve or steam line to drain line.

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





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

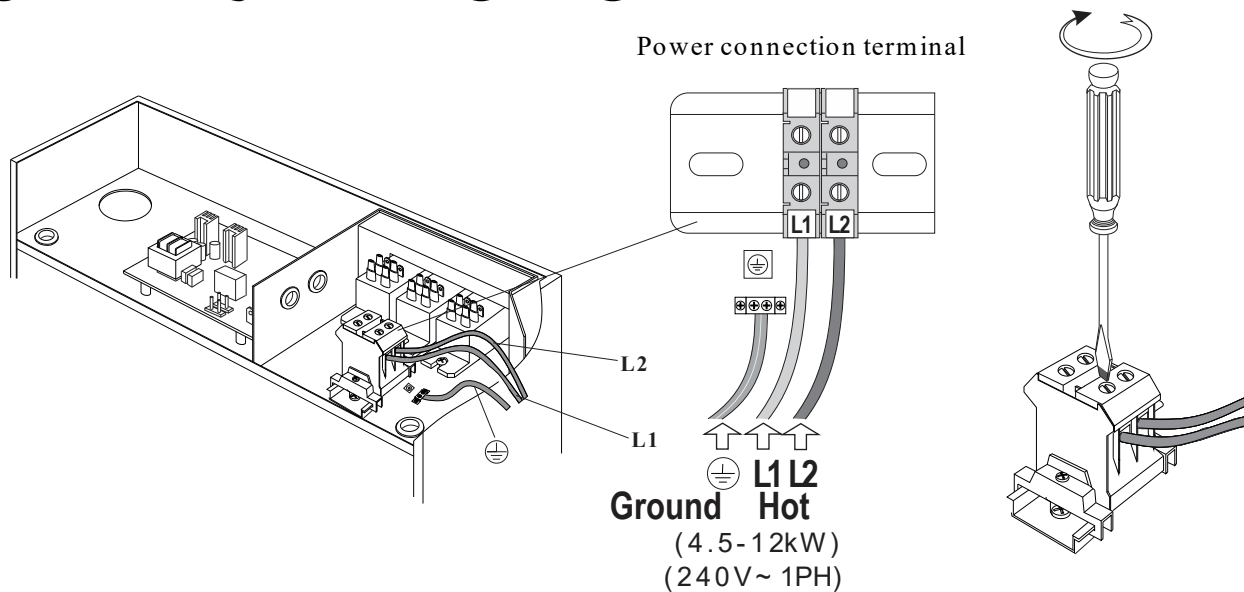
1. Test the voltage of the power supply and make sure suitable voltage is used for the steam generator.
2. Insulated copper wire should be used with an anti-heat temperature of 90°C and a specified voltage of 300V. Refer to national or local electricity consumption code for the specifications. Refer 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	Power KW	Electricity supply (1PH)	Electric current (A)	Specifications for power wire (AWG)
D-450	4.5	240V	19	12
D-600	6	240V	25	10
D-750	7.5	240V	32	8
D-900	9	240V	38	8
D-1050	10.5	240V	44	6
D-1200	12	240V	50	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.

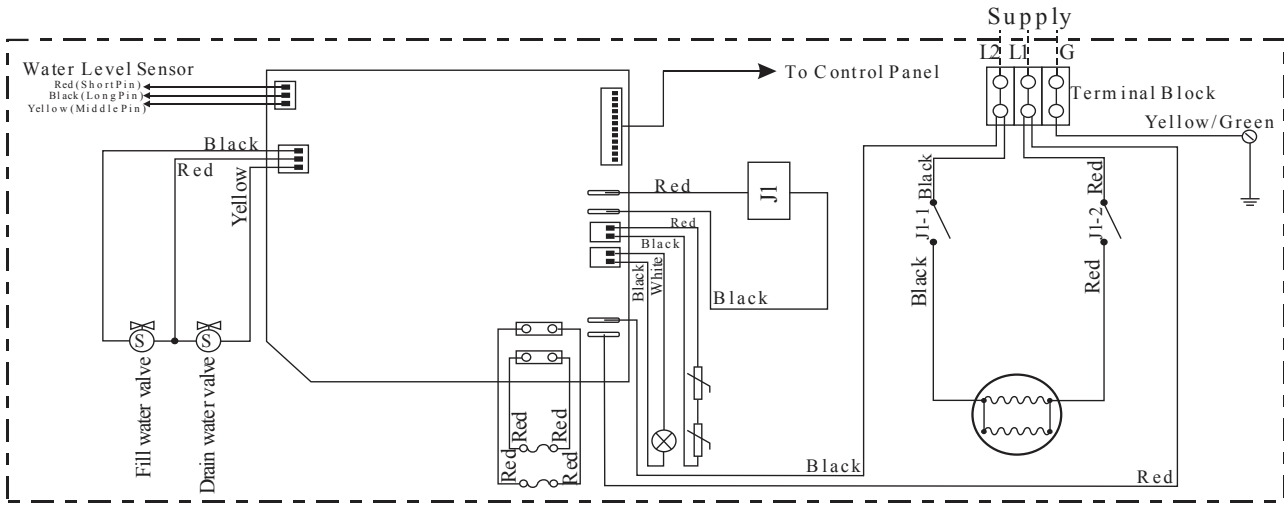
ASSEMBLY GRAPH FOR POWER WIRE



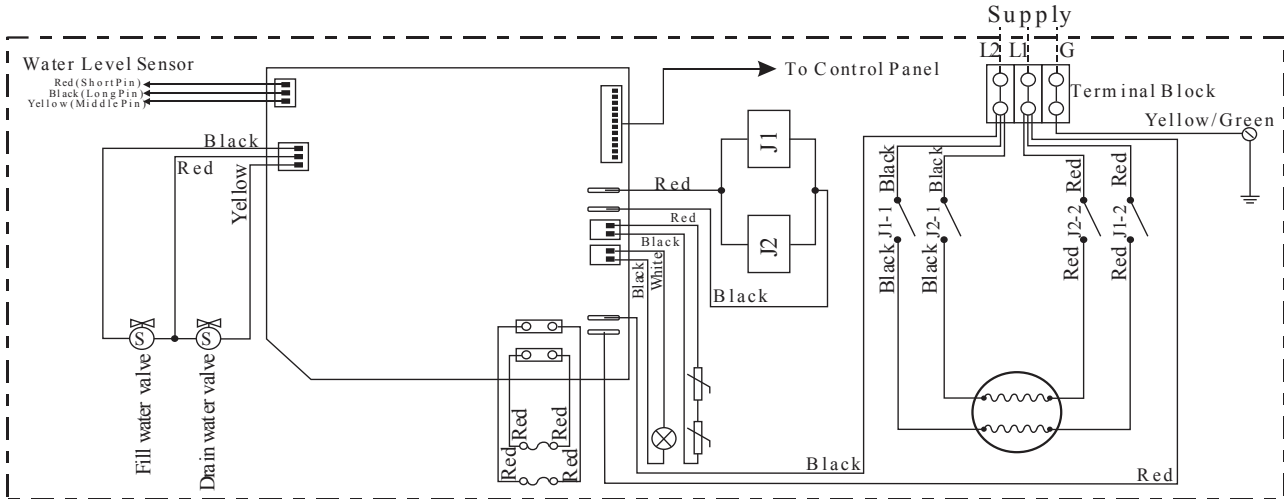
ATTENTION! To avoid damage to the equipment, do not connect electric current directly to heating elements.

WARNING! This graph is for explanation only. For actual installation, refer to national and local electricity consumption codes by professional electricians.

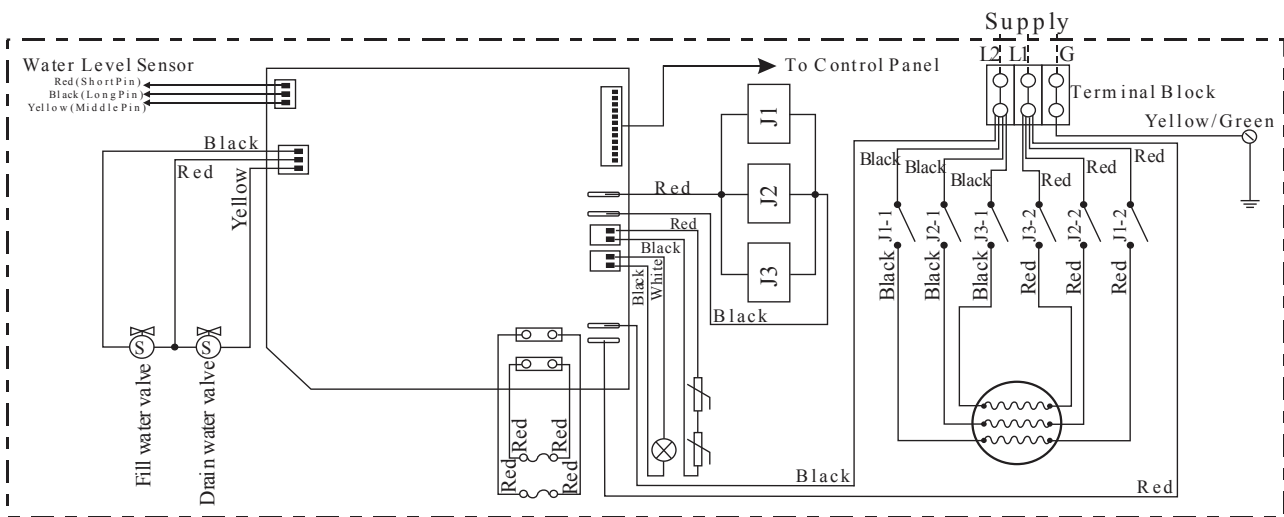
WIRING DIAGRAM



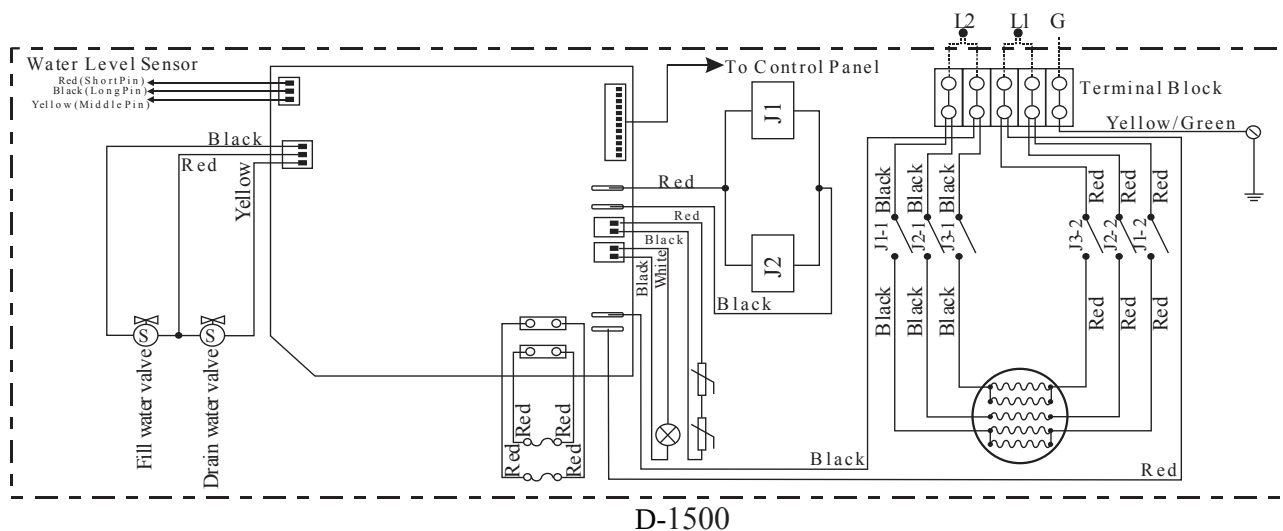
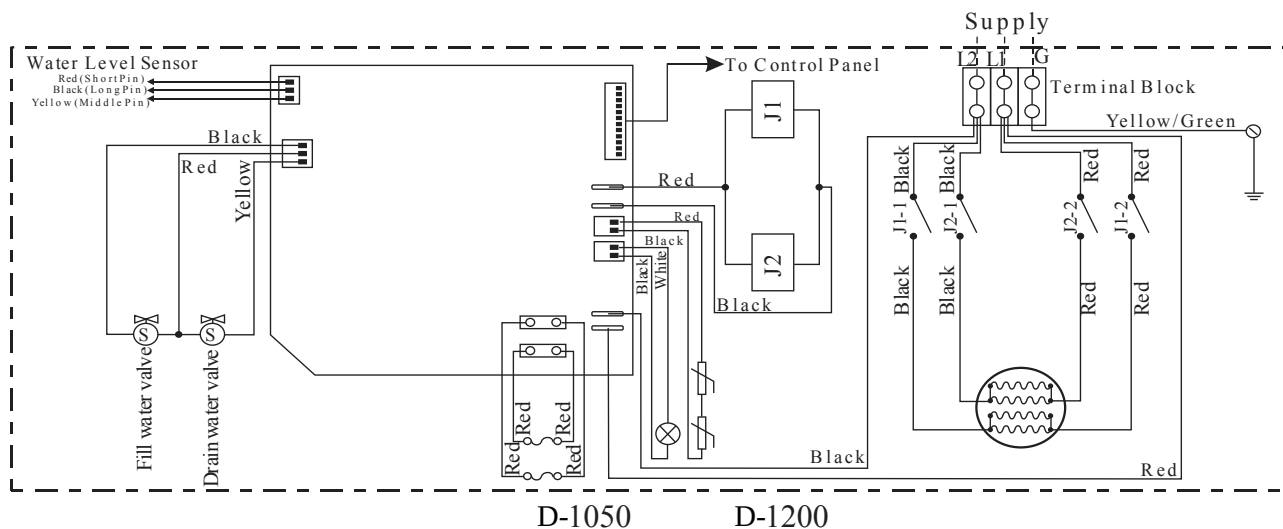
D-450



D-600



D-750 D-900

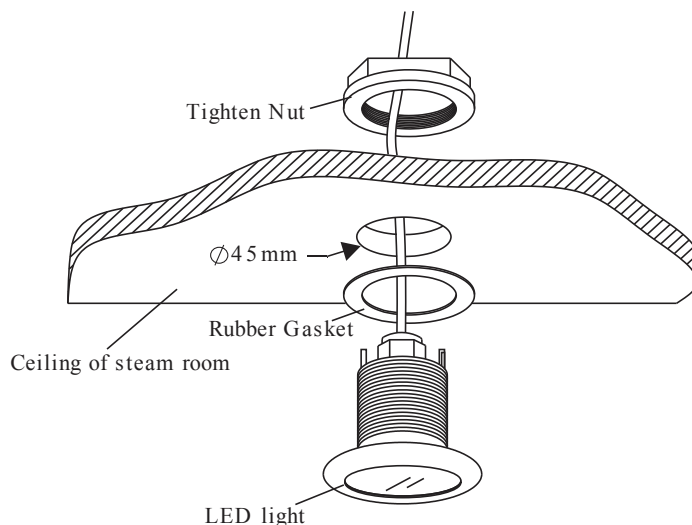


INSTALLATION OF THE TOP LIGHT

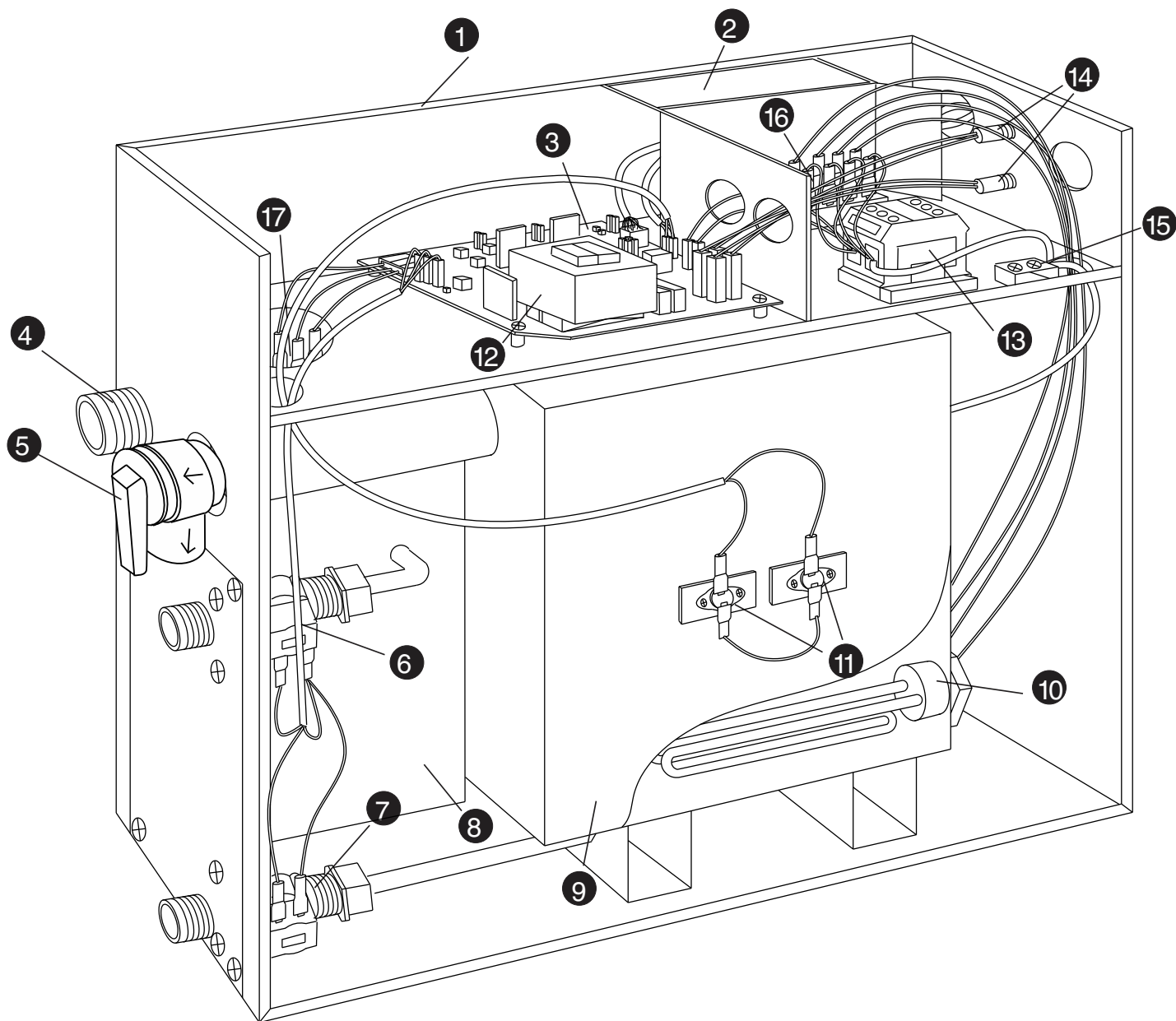
CAUTION! The power of the light should not surpass 3 watts (rated power) to prevent the damage of the transformer.

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
2. INSULATION BRACKET
3. CIRCUIT BOARD
4. STEAM OUTLET
5. PRESSURE RELIEF VALVE
6. WATER FILL VALVE

7. WATER DRAIN VALVE
8. SUBSIDIARY WATER TANK
9. MAIN WATER TANK
10. HEATING ELEMENT
11. 221 F HI-LIMIT
12. TRANSFORMER

13. TERMINAL BLOCK
14. FUSE
15. GROUND WIRE CONNECTOR
16. RELAY
17. WATER LEVEL SENSOR

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.

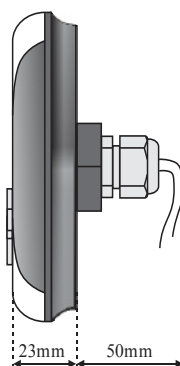
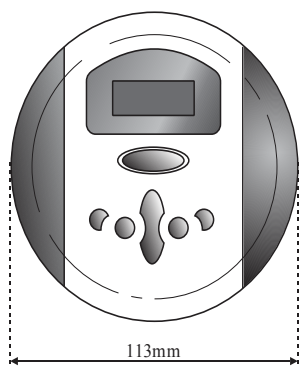
Dual Control Panel with Temperature sensor in Master Control must be installed inside bathing area 5 feet above floor. Do not install Control directly above Steam Head or below shower head but rather in the seating area on a vertical wall. Doing so may result in improper temperature reading and/or inoperable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

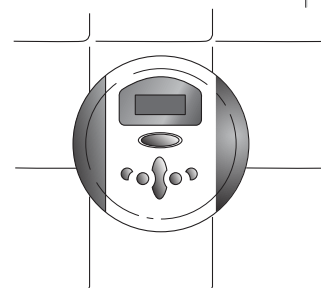
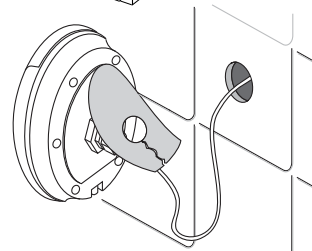
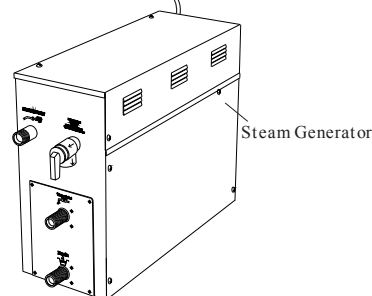
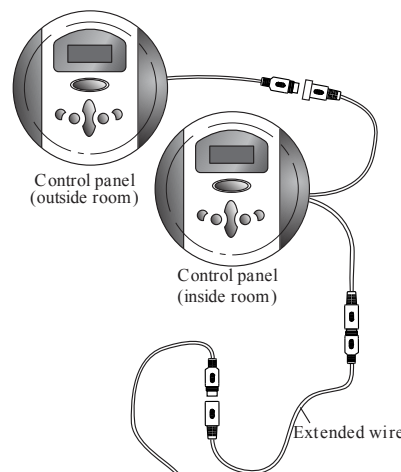
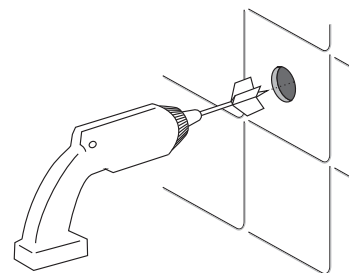
IMPORTANT! Do not over extend or clip control panel wire as it may cause possible damage.

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.

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.



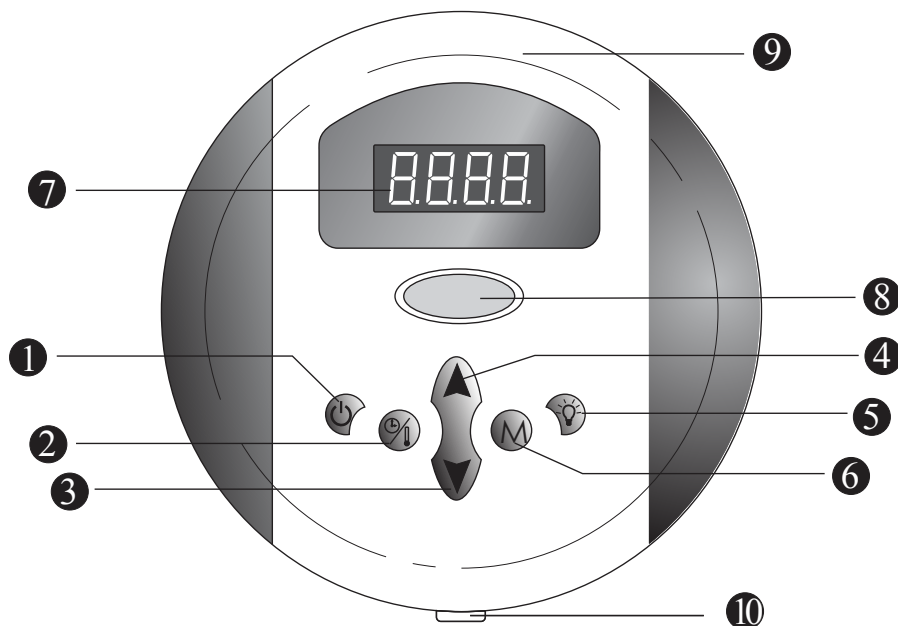
TESTING THE MACHINE

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. The generator must be operating in order to turn the light on or off. (If light was purchased)
3. Press the button to start the steam, the steam will come out of the steam generator in 1 to 2 minutes depending on generator size. 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.
4. 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.
5. 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.
6. 2 hours after the steam is shut off, the system will start drainage automatically for 5 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
2. TIME/TEMP SET
3. TIME/TEMP DECREASE
4. TIME/TEMP INCREASE
5. LIGHT ON/OFF

6. MEMORY (MEMORY ONLY ON DUAL SYSTEMS)
7. DIGITAL DISPLAY SCREEN
8. STEAMSPA LOGO
9. FRONT DECORATIVE BEZEL

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 **ED** (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. 2 hours after the system is shut off, the drainage function will be started automatically for 5 minutes.

TIME AND TEMPERATURE SETTING

When system is on, pressing the  button will cycle the system between the Time setting, Temperature limit setting, and ambient TEMP display on the LED screen(Fig.4). When system is powered on, press  button one time to adjust Steam time. Its range is 1-60 minutes, with 1 minute intervals, which can be adjusted using the  and  arrow keys. If there is no adjustment in 5 seconds, the system will exit time setting automatically and the LED will display current ambient TEMP. Pressing the  twice will allow you to set the Temperature limit setting. 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

Press the memory button, , to select which memory setting you would like to program, SET1 or SET2. Then use the  to set the desired Time and Temp setting for that memory slot. Once you have set the time and temp as desired, press and hold the  button for 1.5 seconds to save the setting, then LED display will flash the name of the selected memory slot that was programmed. When the system is on, you can now press  to switch to your desired memory preset, SET1 and SET2, and the control will automatically adjust the time and temp to the saved setting.

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 **LOFF** (Fig.7). Screen will turn to display ambient TEMP if no operation is selected in 5 seconds.



Fig. 1



Fig 2



Fig. 3

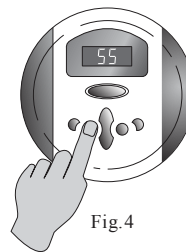


Fig. 4



Fig. 5



Fig. 6

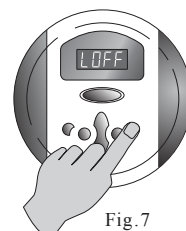


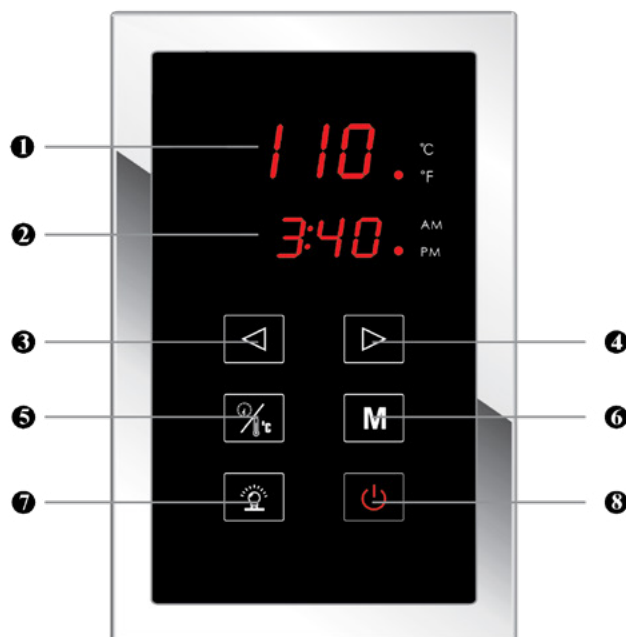
Fig. 7

TESTING THE MACHINE

1. Press the power button, , and the control panel will display the room's temperature and the water inlet valve will open up to allow the correct amount of water into the generator to begin producing steam.
2. The generator must be operating in order to turn the light  on or off. (Light sold separately)
3. After starting the generator steam production will begin in a short while and will continue until the set temperature is reached. Afterwards production will restart when the room temperature begins to fall.
4. 2 hours after the generator is shut off the Auto Drain will automatically open and allow the water to drain out for approximately 7 minutes.

WARNING! Do not touch the safety release valve while the generator is running.

CONTROL PANEL DIAGRAM



- | | |
|------------------------|-----------------|
| 1. TEMP DISPLAY SCREEN | 6. MEMORY |
| 2. TIME DISPLAY SCREEN | 7. LIGHT ON/OFF |
| 3. TIME/TEMP DECREASE | 8. POWER ON/OFF |
| 4. TIME/TEMP INCREASE | |
| 5. TIME/TEMP SET | |

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 ----. 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 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  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. 2 hours after the system is shut off, the drainage function will be started automatically for 7 minutes.

TIME AND TEMPERATURE SETTING

When system is on, pressing the  button will cycle the system between the Time setting, Temperature limit setting, and ambient TEMP display on the LED screen. When system is powered on, press  button one time to adjust Steam time. Its range is 1-60 minutes, with 1 minute intervals, which can be adjusted using the  and  arrow keys. If there is no adjustment in 5 seconds, the system will exit time setting automatically and the LED will display current ambient TEMP. Pressing the  twice will allow you to set the Temperature limit setting. During this time, press  or  to adjust steam TEMP. 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

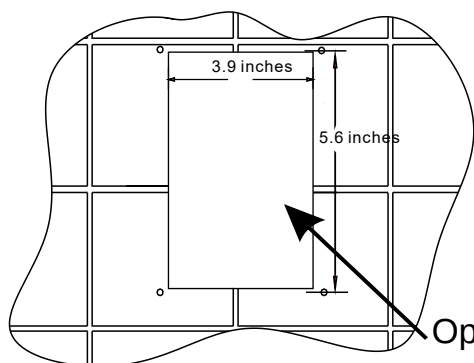
Press the memory button, , to select which memory setting you would like to program, SET1 or SET2. Then use the  to set the desired Time and Temp setting for that memory slot. Once you have set the time and temp as desired, press and hold the  button for 1.5 seconds to save the setting, then LED display will flash the name of the selected memory slot that was programmed. When the system is on, you can now press  to switch to your desired memory preset, SET1 and SET2, and the control will automatically adjust the time and temp to the saved setting.

LIGHT FUNCTION

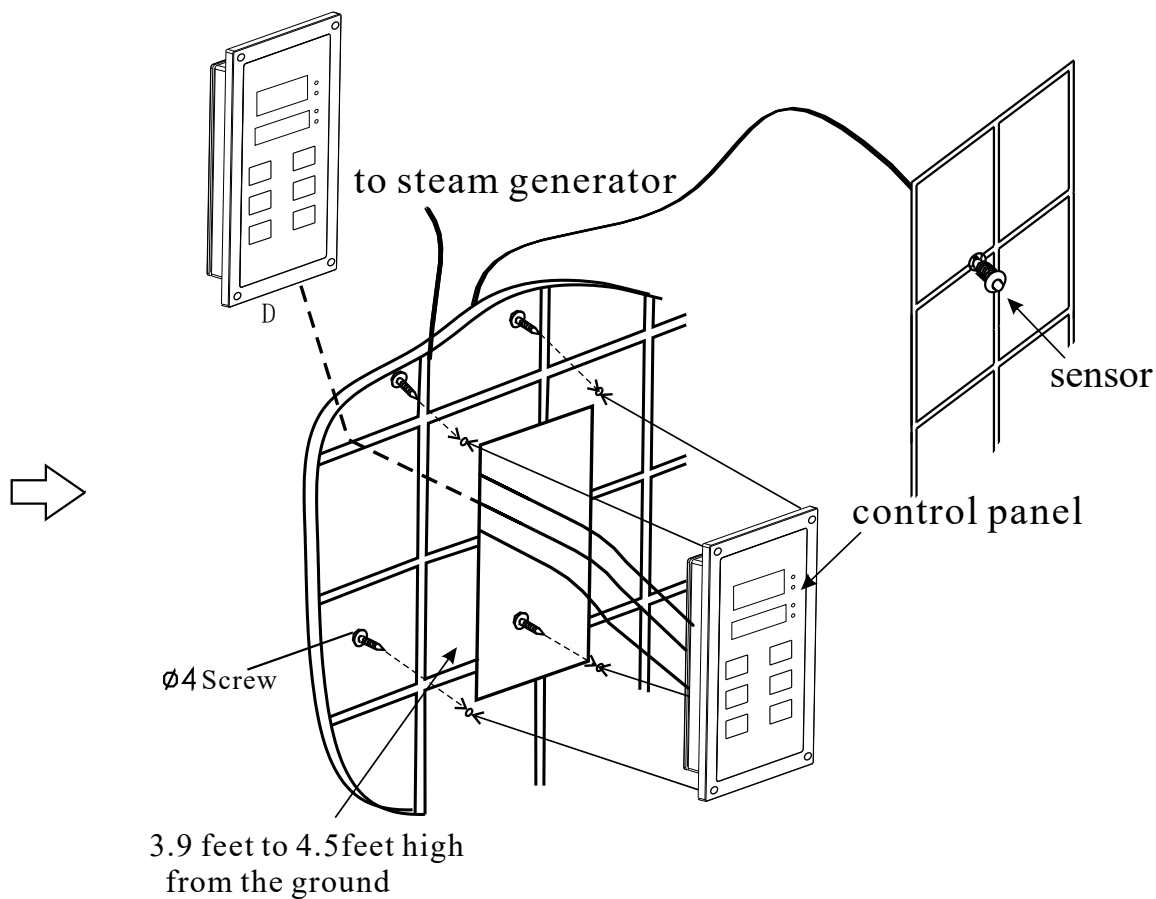
When the machine is started, press  button to turn on/off light function. When the light is turned on, the digital tube will temporarily display . When the light is turned off, the digital tube will temporarily display . Screen will turn to display ambient TEMP if no operation is selected in 5 seconds.

INSTALLATION OF CONTROL PANEL

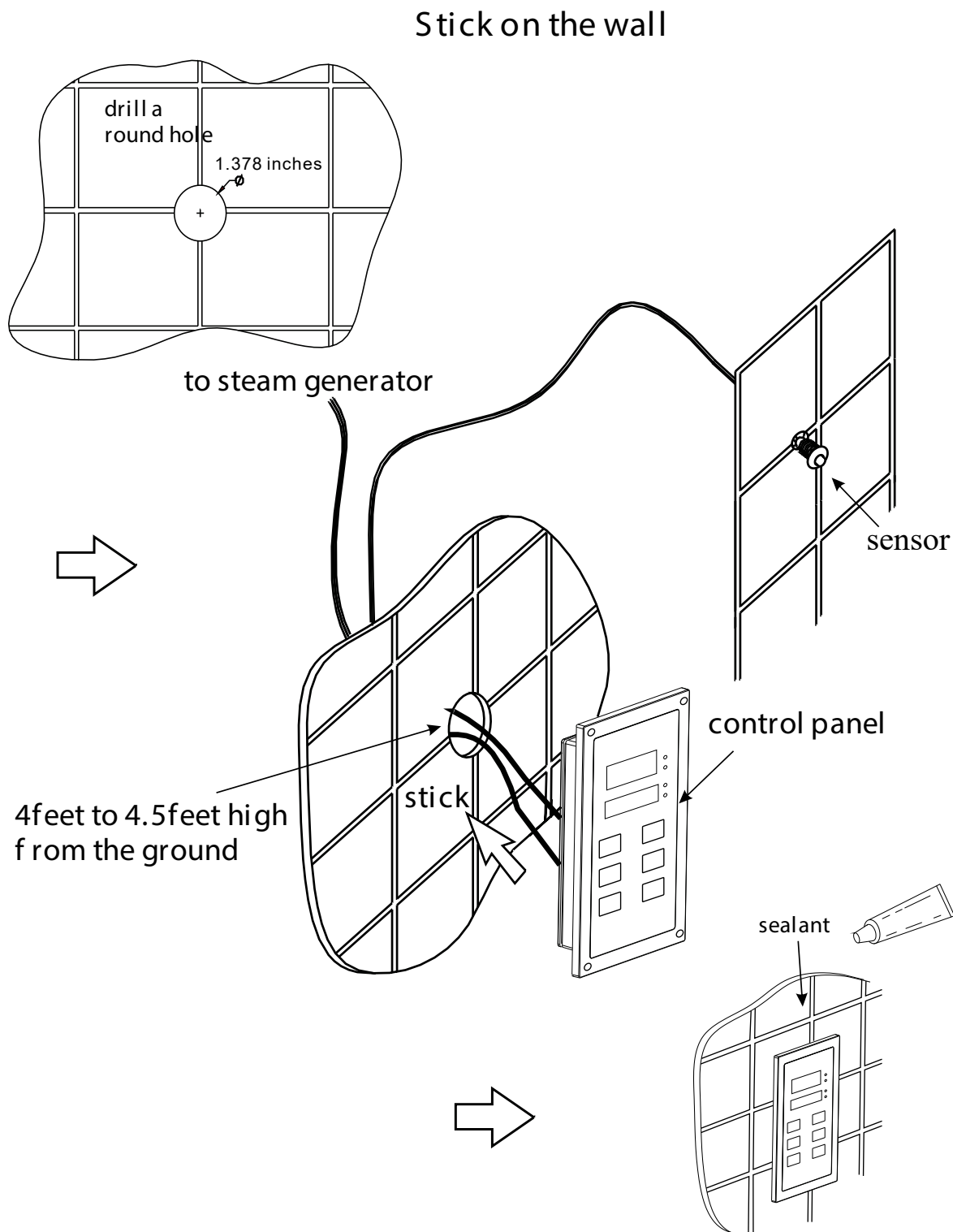
Recess mount into wall



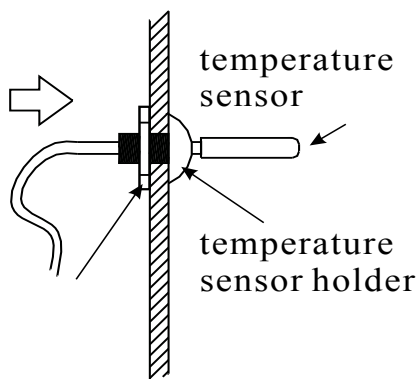
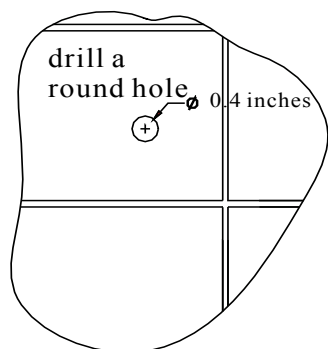
Open square notch by 3.9x5.6 inch



INSTALLATION OF CONTROL PANEL



INSTALLATION OF TEMPERATURE SENSOR



IMPORTANT! Do not install temperature sensor on the same wall as the steam head to avoid a false reading. Can be placed on any other surface away from the steam head.

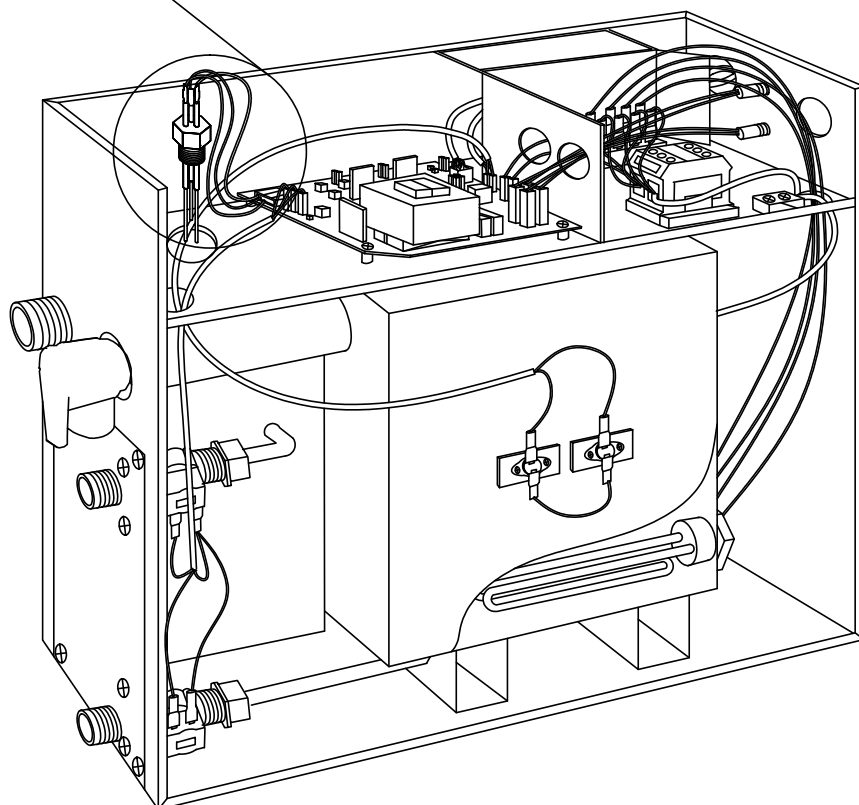
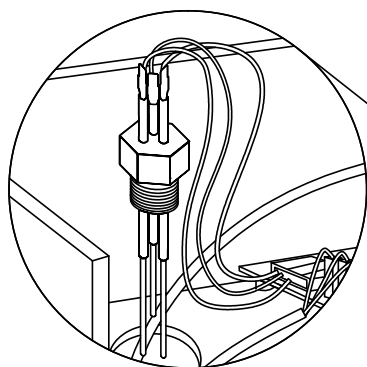
CONTROLLER SIZE AND WATERPROOF RATING

Control panel model	GS1090C(single panel)	GS1090D(dual panel)
Panel size (length*width*height)	5.9x3.5x1 inches	5.9x3.5x1 inches
Waterproof rating	IP54	IP54

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 whether they are tight and not damaged due to overheat.
5. It is recommended that the water sensor prong gets clean once every six month.
 - a. Remove the casing of the generator.
 - b. Locate the water sensor.
 - c. Label each electrical connections then carefully remove all connections.
 - d. With a wrench or a 32mm ratchet socket carefully unscrew the water sensor.
 - e. Thoroughly clean any residue buildup accumulated on the prong.



TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The machine does not start when powered	1. Burned out fused 2. The electrical wiring became loose 3. Control panel connection loose	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	1. The wire connector is dampened or damaged 2. Damaged heating element	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	1. Bad water drainage valve	1. Replace water drainage valve
The display screen on the control panel does not display anything	1. The control panel wire is not connected properly 2. Trouble with generator motherboard	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	1. The water pipe connector becomes loose or pipe is broken. 2. Water leakage in the water input valve or the water drainage valve	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	1. No electricity 2. No water 3. The set temperature is too low 4. Wiring connection problem	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	1. Possible steam pipe blockage	1. Cut power supply and check blockage in steam pipe
Light doesn't turn on	1. Bad LED light bulb 2. Wiring connection improperly connected or light cable damage	1. Change LED light bulb 2. Tighten connection or replace light cable
Cold water is coming from the steam head	1. The water sensor cable is loose or water level sensor is defected 2. The main PC board is defected	1. Make sure that the water level cable isn't loose if the cable is well connected replace the water sensor 2. Replace the main board
Hot water is coming from the steam head	1. The water inlet valve may have residue buildup inside	1. Try to clean the water inlet valve by switching on/off a few times to dislodge the buildup 2. Replace the water inlet valve

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Receiving an error “E1” on the control panel	1. The signal that transfers between the control panel and generator has a problem	1. Check the connection on the control cable to make sure all 13 pins are functional
Receiving an error “E0” on the control panel	1. Lack of water in the tank. The water inlet valve is not turning on which is preventing water from entering	1. The water inlet valve is jammed or the connecting cable is loose so attempt to clean the water inlet valve by switching it on and off a few times to dislodge any buildup 2. Check the cable and make sure it is firmly connected 3. Replace the water inlet valve 4. If the problem persists it may be necessary to replace the PC board
The control panel shows the temperature, but does not go on	1. The water level sensor cable or the cable from the relay to element is loose 2. The heating element is malfunctioning	1. Make sure all cables to the heating elements are well connected 2. Replace the heating element

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

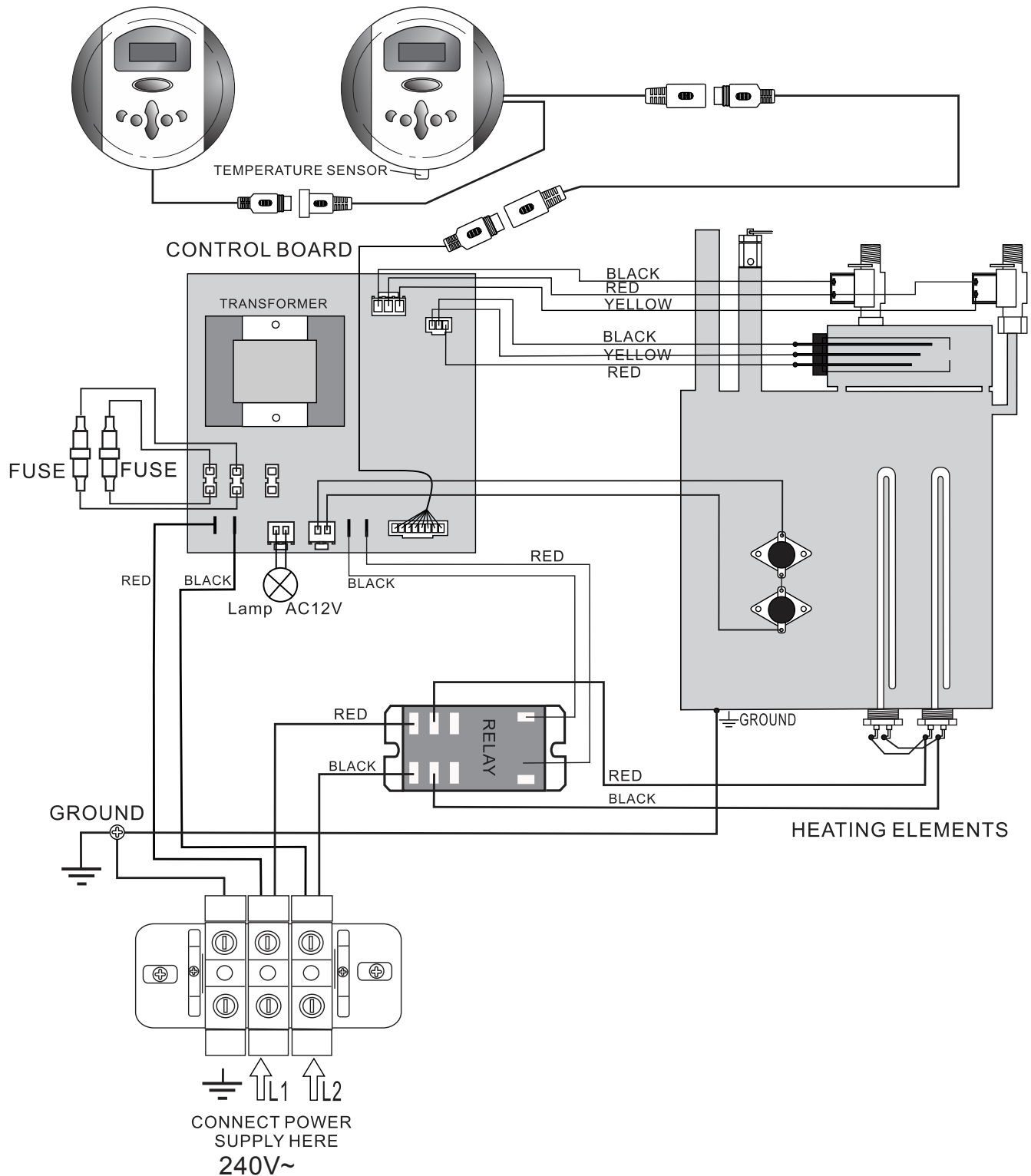
IMPORTANT! The list above is for reference only. Actual checking and repairing should be based on national and local codes, ask professional service personnel to operate.

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

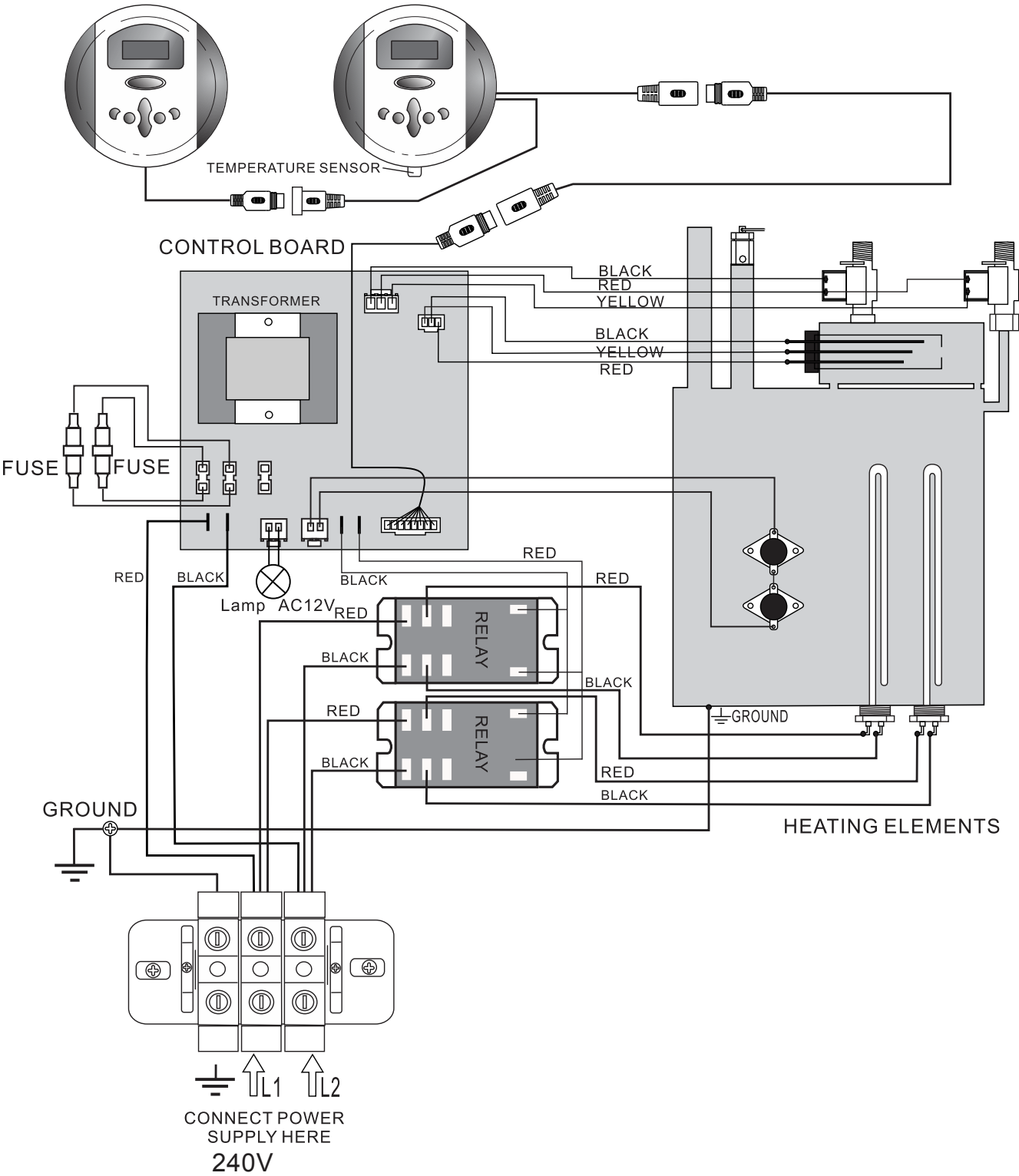
4.5KW

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



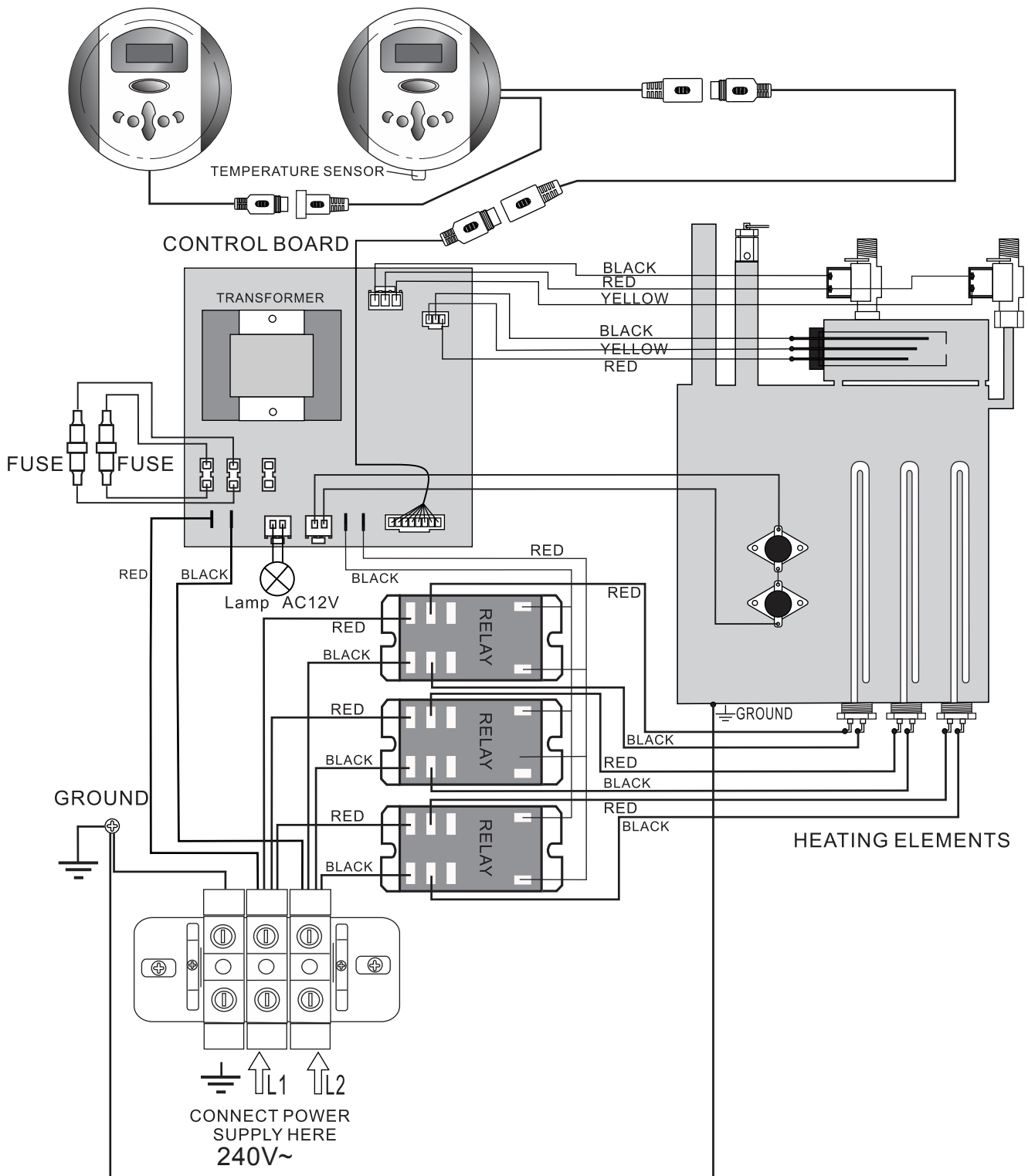
6KW

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



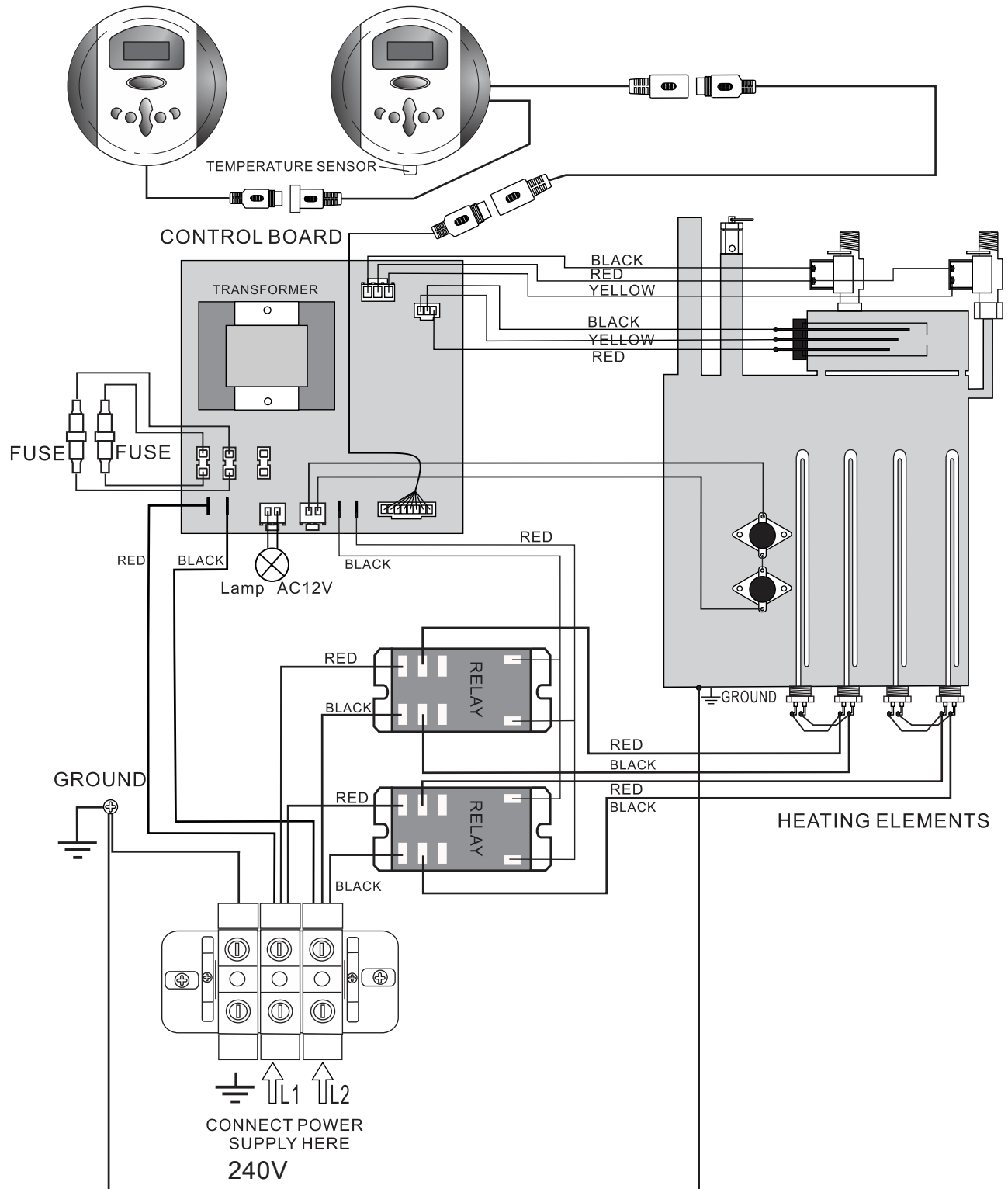
7.5KW & 9KW

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



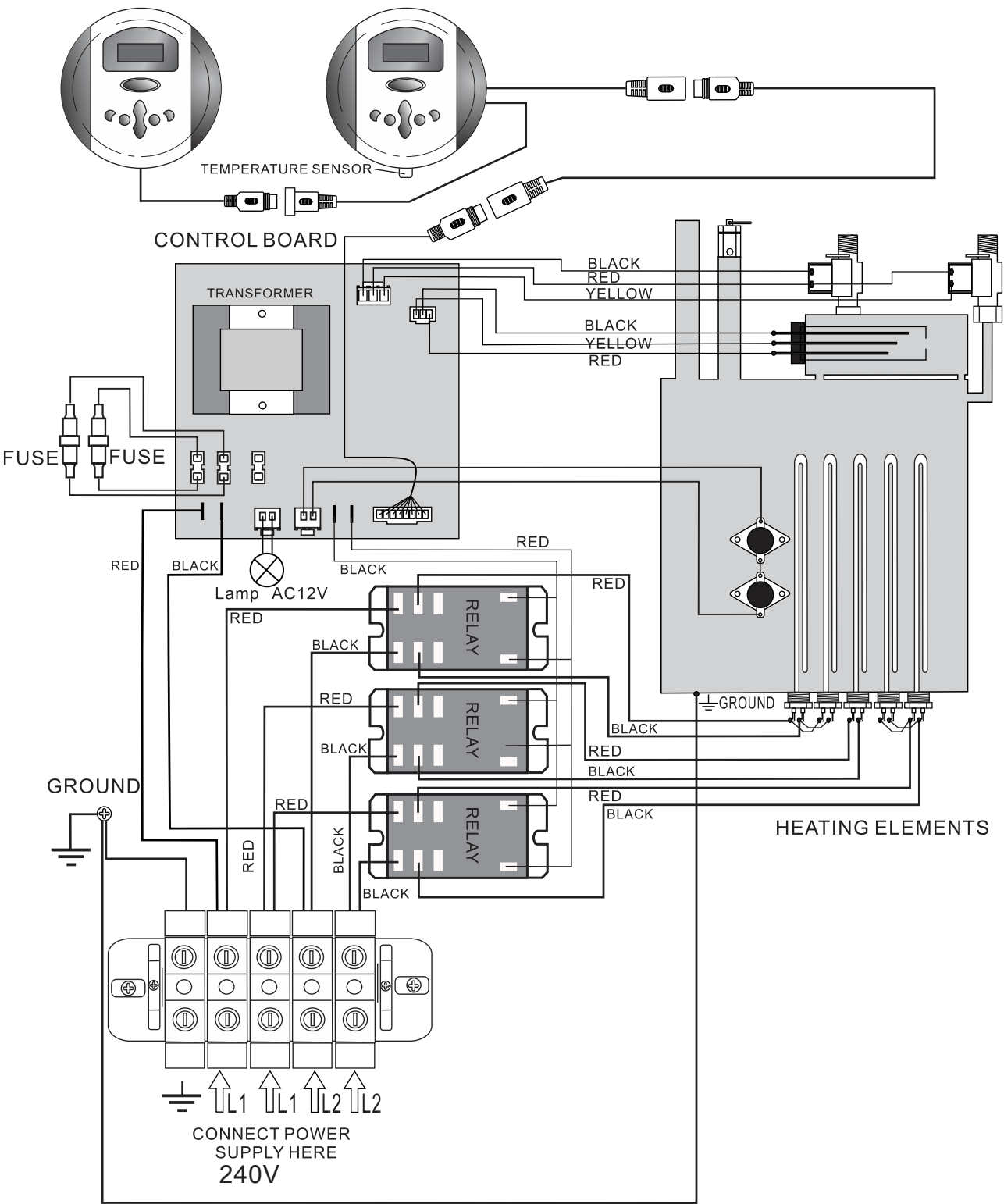
10.5KW & 12KW

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



15KW

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



SIZING CHART

*Cabin Dimensions	Cubic Feet	Generator
3x3x7	63	4kw or 6kw
3x4x7	84	7kw or 9kw
3x5x7	105	9kw or 10.5kw
3x6x7	126	9kw or 10.5kw
3x7x7	147	10.5kw or 12kw
3x8x7	168	12kw
4x4x7	112	9kw
4x5x7	140	9kw or 10.5kw
4x6x7	168	10.5kw or 12kw
4x7x7	196	12kw
4x8x7	224	12kw
4x9x7	252	12kw
5x5x7	175	12kw
5x6x7	210	12kw
5x7x7	245	12kw
5x8x7	280	12kw
5x9x7	315	12kw

***Cabin dimensions are based on WxLxH**

NOTE: It's safe and even recommended to use a generator size, 1-step higher than what the chart indicates.

