



STEAM BATH GENERATOR USER GUIDE

GREY SERIES

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.

Register online at <https://www.SaunaSpa.com/register/> or scan the QR code on Page 2.



PRODUCT REGISTRATION*

IMPORTANT: Warranty will not be recognized unless product is registered.

Register online at <http://www.saunaspa.com/register> or Scan the QR code below.

Registering your product maximizes your warranty benefits and ensures prompt service and support.

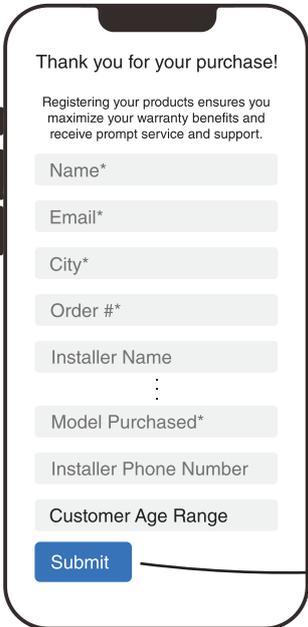
1

USE YOUR PHONE CAMERA
TO SCAN THE QR CODE



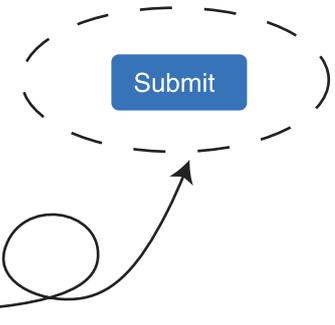
2

FILL IN A QUICK
REGISTRATION FORM



3

CLICK SUBMIT AND
ENJOY PEACE OF MIND



IMPORTANT WARRANTY INFORMATION!



The installation of a quick connect and release 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.saunaspa.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 SaunaSpa Warranty.

For more information visit <http://www.saunaspa.com/register> or call 866-733-4043

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

WARNING

1. Electrical grounding is required on all SaunaSpa Generators.
2. All electrical supplies should be disconnected when servicing generators.
3. To reduce the risk of explosions, do not interconnect the steam lines.
4. To reduce the risk of injury, children under the age of 16 should not use the steam bath.
5. To reduce the risk of injury:
 - A. The wet surfaces of steam enclosures may be slippery. Be careful entering or leaving.
 - B. The steam head is hot. Do not touch the steam head and avoid the steam close to 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 steambath since some medication may induce drowsiness while other medications may affect heat rate, blood pressure and circulation.

CAUTION

1. All wiring must be installed by a licensed electrical contractor in accordance with local and national codes.
2. All plumbing must be installed by a licensed plumber in accordance with all applicable local and national codes.
3. Series generators are for indoor use only. Protect from freezing.
4. Series generators are not for space heating purposes.
5. Electric Shock Hazard - High voltage exists within this equipment.

IMPORTANT SAFETY INSTRUCTIONS

6. Be certain that steam bath enclosures are properly sealed to avoid water damage from escaping steam. It's recommended that 100% silicone caulk be used to seal all pipes and fittings. Steam must be prevented from escaping into the wall cavity.
7. Never shut off the water to a steam generator that is in use.
8. We recommend choosing steamers which are closely matched in power. The highest kW steamer should be the primary unit. Each steamer should have its own automatic drain.
9. An exhaust fan installed outside the steam room is strongly recommended removing excess steam from the bathroom or shower area.
10. For commercial use, we recommend checking with your local inspectors to confirm the system is acceptable for your use. Many jurisdictions will require an ASME boiler for commercial use: Sauna Spa generators are not boilers.
11. The steam outlet carries hot vapor! A separate steam line is required for each steam outlet. Do not connect a valve or shut-off in the steam line! Avoid traps and valleys in the steam line where water could collect and cause a steam blockage. The hot steam line must be insulated against user contact.
12. Do not install the steam head near a bench or where steam may spray or where condensation will drip on the user as this will present a scald hazard.
13. Centering the steam pipe is critical in rooms made of plastic, acrylic, resin, fiberglass or similar materials. Allowing the steam pipe to touch materials not rated 240°F (115°C) or higher will result in damage to these materials.
14. Wire the controls exactly as described. Do not connect any additional wiring or power supplies to the controls or their terminals in the generator.
15. SAVE THIS MANUAL.

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 steambath
- c) Unawareness of impending risk
- d) Fetal damage in pregnant women
- e) Physical inability to exit the steambath
- 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 SaunaSpa at 866-733-4043 or info@saunaspa.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

TABLE OF CONTENTS

PROLOGUE.....	7
USER INSTRUCTIONS	7
CHOOSING THE RIGHT LOCATION	7
STEAM GENERATOR SPECIFICATIONS	8
ELECTRICAL REQUIREMENTS	9
INSTALLATION DRAWING OF STEAM GENERATOR	10
PLUMBING INSTALLATION	13
ASSEMBLY GRAPH FOR POWER WIRE	14
WIRING DIAGRAM.....	15
STEAM GENERATOR DISSECTION DIAGRAM.....	17
CARE & USE FOR THE CONTROL PANEL	18
CONTROL SYSTEM COMPONENTS	18
CONTROLLER SPECS.....	19
CONTROL PANEL INSTALLATION INSTRUCTIONS	19
INSTALLING LIGHT.....	21
INSTALLING SPEAKERS	21
TESTING MACHINE	22
OPERATION.....	23
OUTSIDE SECONDARY ON/OFF CONTROL	29
APP MANUAL FOR STEAM GENERATOR	30
STEAM GENERATOR MAINTENANCE	38
TROUBLE SHOOTING GENERATOR	39
STEAM SPA TROUBLE SHOOTING	40
MAINTENANCE LOG	42
TECHNICAL PARAMETERS.....	43
WIRING CONNECTION DRAWING OF STEAM GENERATORS.....	43
SIZING CHART OF STEAM GENERATOR.....	44

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 SaunaSpa 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

SaunaSpa warrants that this steam bath generator unit will be free from manufacturer defects and malfunctions. For terms and condition please refer to latest SaunaSpa Warranty at www.SaunaSpa.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.saunaspa.com/register or call 866-733-4043
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.

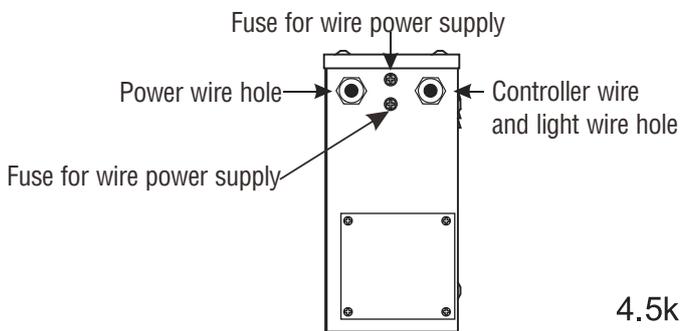
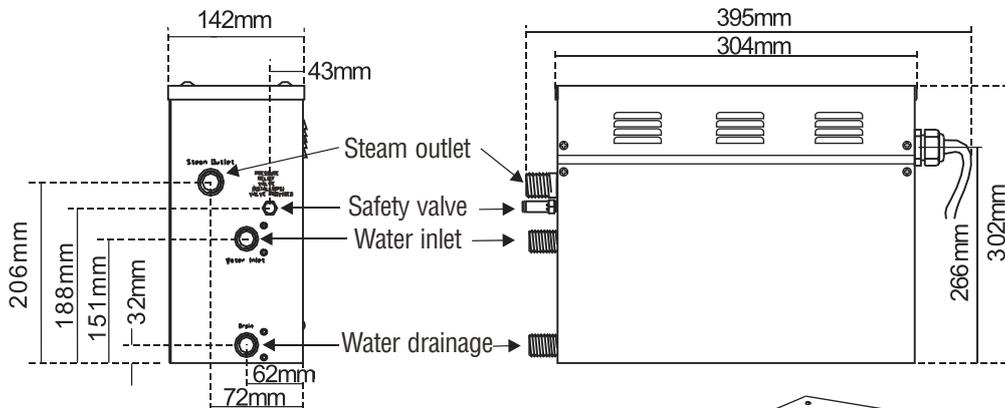
USER INSTRUCTIONS

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

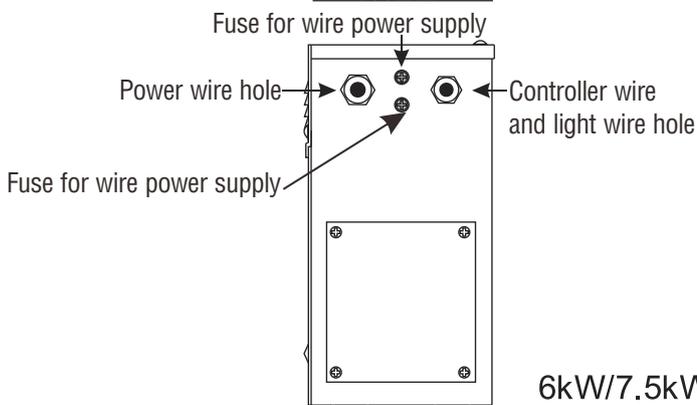
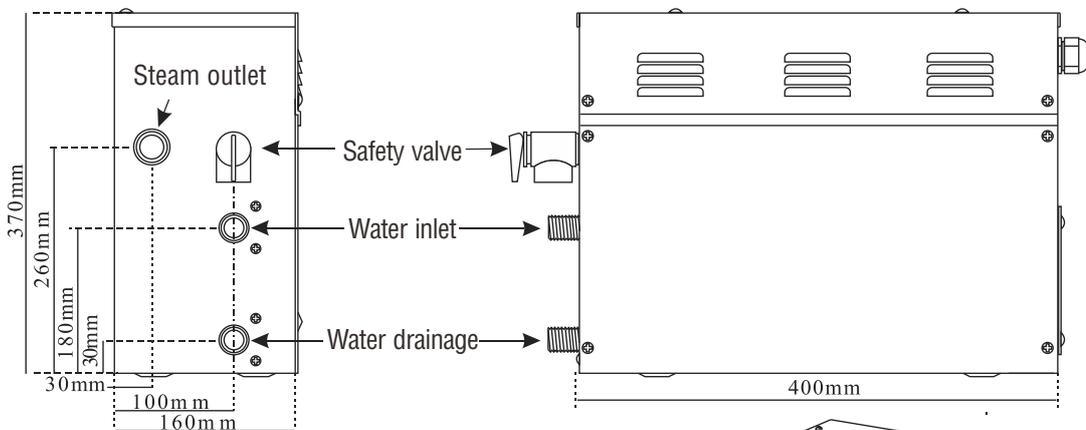
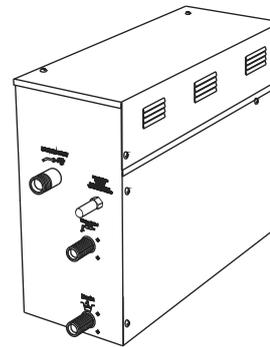
CHOOSING THE RIGHT LOCATION

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 be frozen.
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 pipe, pressure relief valve, water drain valve, water tube and steam outlet remain very hot after the steam generator has stopped working for some time.
13. The control panel should be installed away from the steam head to avoid false readings.
14. Always install generator horizontally so that the water level sensor works normally.

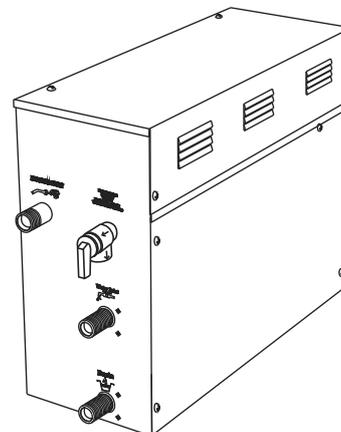
STEAM GENERATOR SPECIFICATIONS

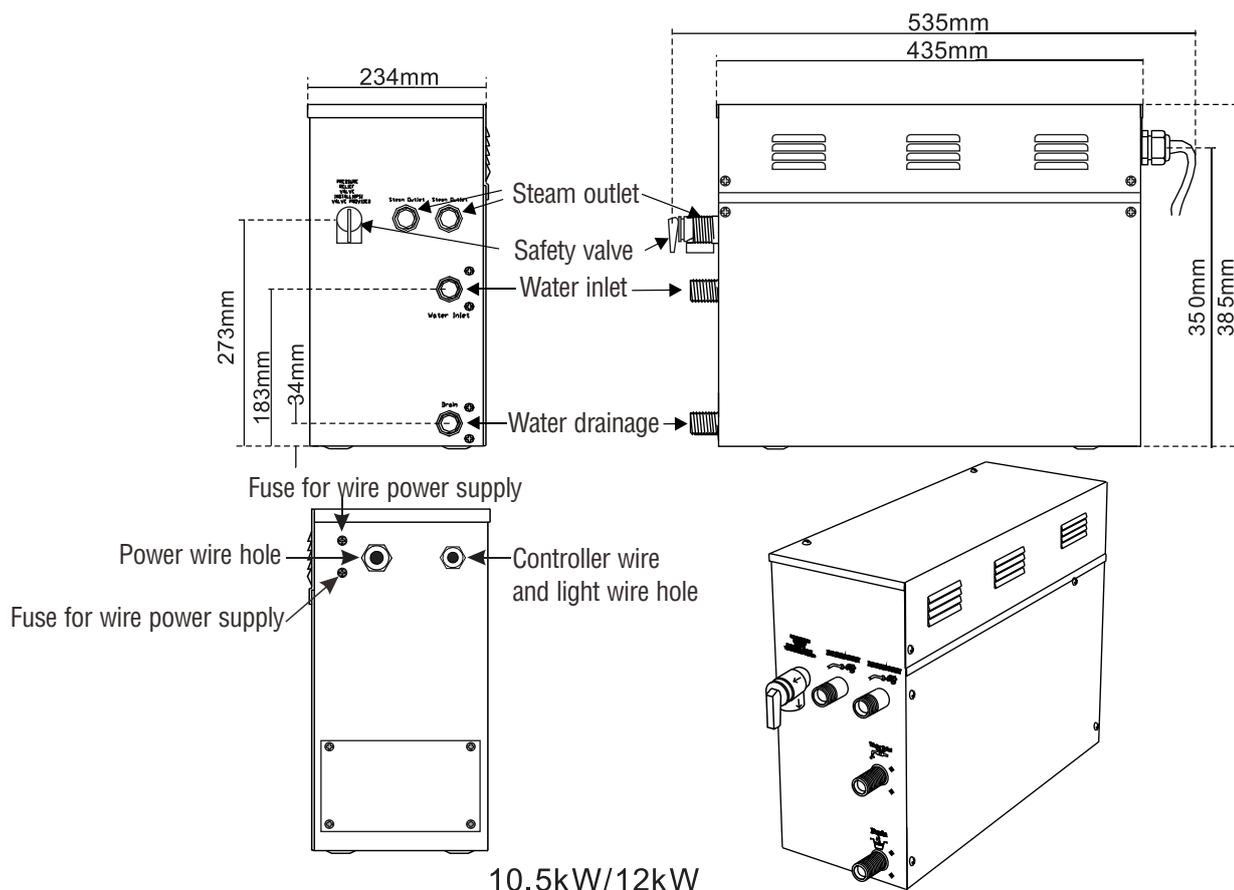


4.5kW



6kW/7.5kW/9kW





10.5kW/12kW

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 194°F(90°C) and a specified voltage of 300V. Refer to national or local electricity consumption code for the specifications. Refer to the Ampere Meter 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)	Electricity current(A)	Specifications for power wire (AWG)
G-450	4.5	240V	19	12
G-600	6	240V	25	10
G-750	7.5	240V	32	8
G-900	9	240V	38	8
G-1050	10.5	240V	44	6
G-1200	12	240V	50	6

The data provided above is for 240V single-phased models. 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.

INSTALLATION DRAWING OF STEAM GENERATOR

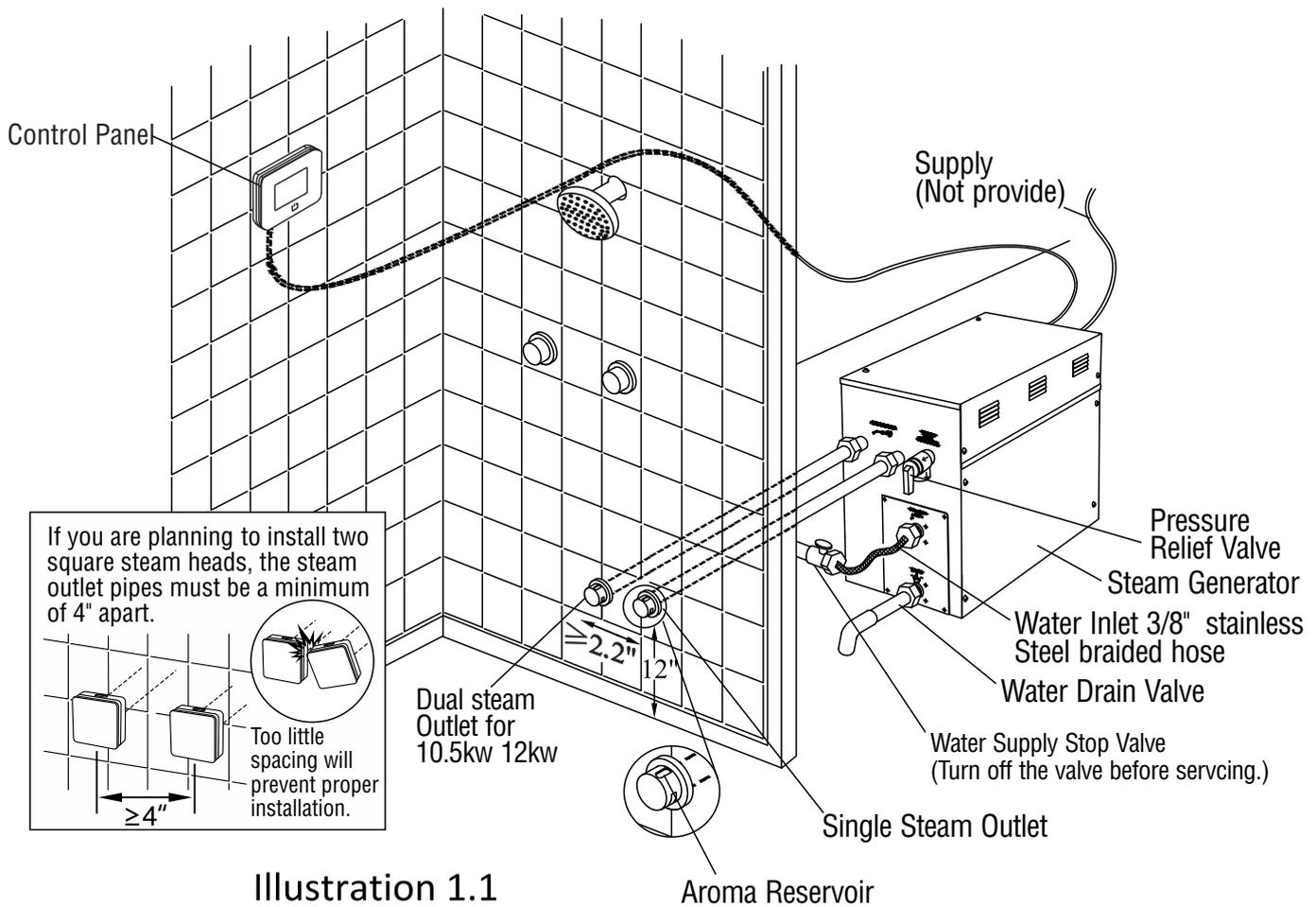
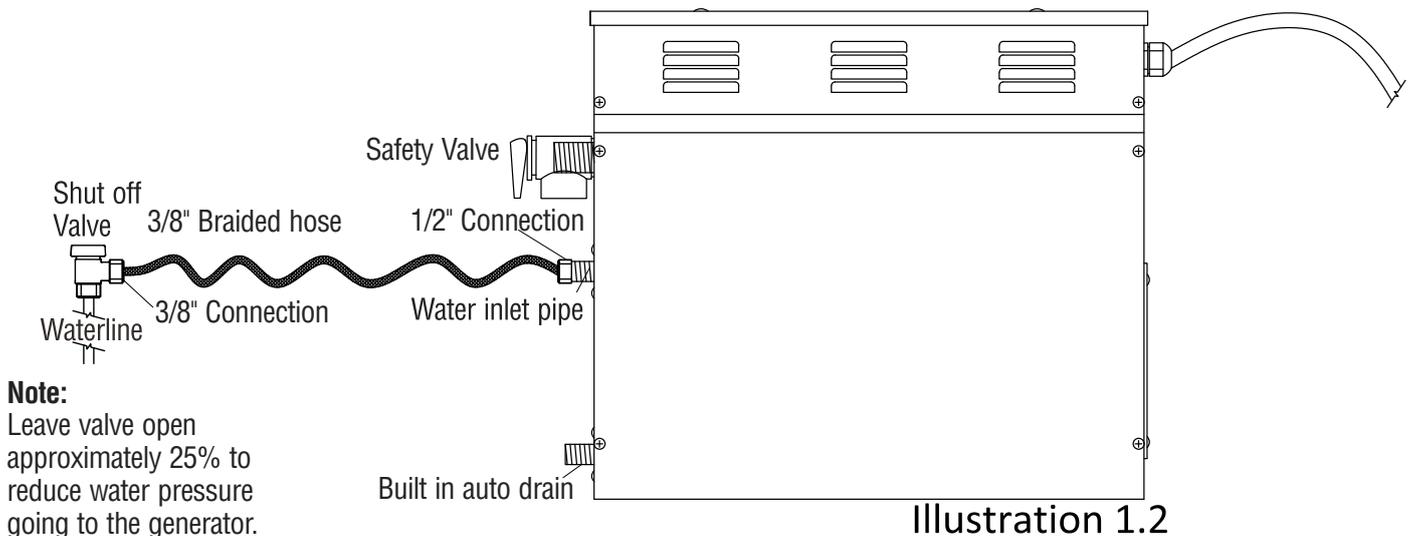


Illustration 1.1

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



Note:
Leave valve open approximately 25% to reduce water pressure going to the generator.

Illustration 1.2

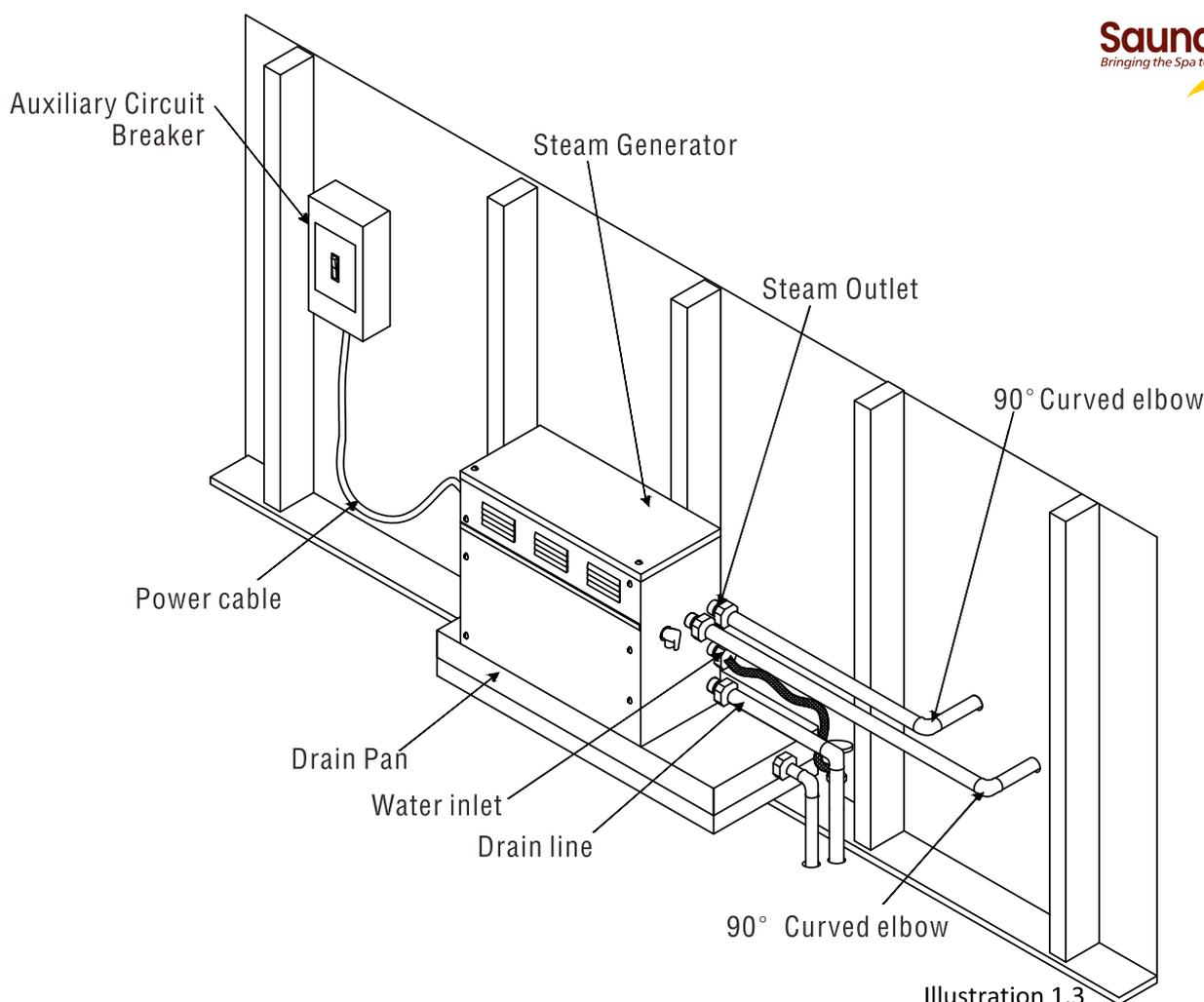


Illustration 1.3

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

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

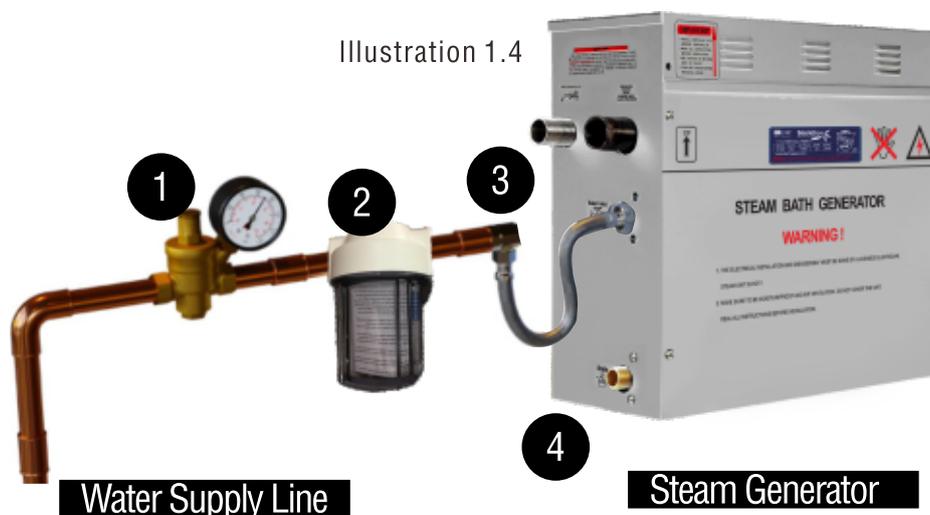
ATTENTION! Proper installation is a critical requirement per the SaunaSpa Warranty terms and conditions. A licensed professional must be used to ensure proper installation. A quick release system, pressure reducing valve, inline water filter and regular maintenance are required.

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 Water Supply Stop Valve *
- 4 Steel Braided Hose *

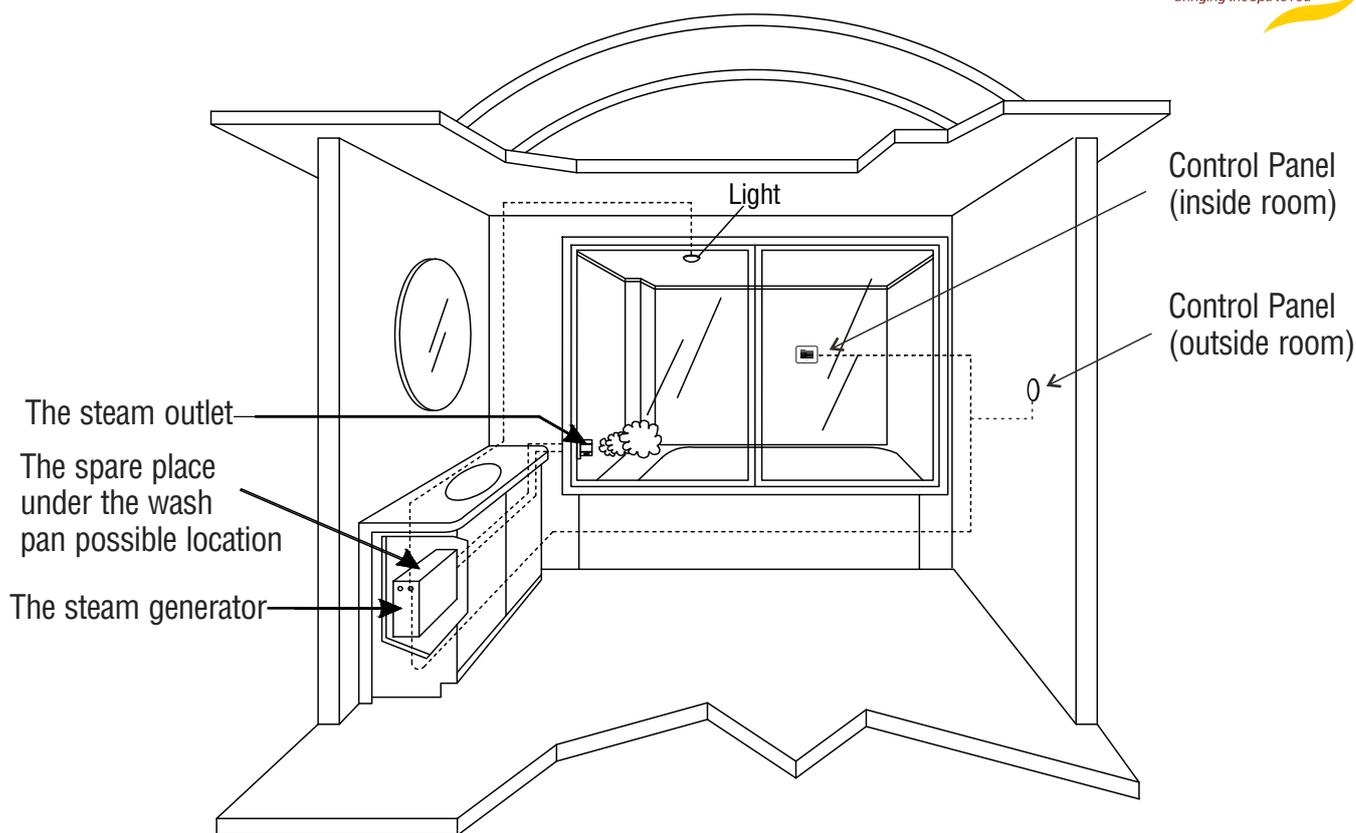
* Available with the Quick Connect Install Kit

Illustration 1.4



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 is 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 copper fittings when connecting pipes.
2. Use brass pipes or copper pipes only. 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 SaunaSpa Warranty protection.

WATER SUPPLY PIPE (1/2")

Connect pressure reducing valve with pressure gauge, water filter, water supply stop valve, hose between hot water or cold water supply and generator. See page 10 illustration 1.2 and page 11 illustration 1.4.

ATTENTION!

1. The inlet water should not exceed 160°F.
2. The water supply stop valve should be installed in a place where is easily accessible.
3. Flush the water supply line completely before connecting the water pipe to the steam generator, to remove any sediments in the water supply line.
4. The water supply stop 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.
5. A hydro pneumatic pressure reducing valve must be installed. The SaunaSpa quick release & pressure reducing kit comes with a pressure reducing device calibrated to work with any SaunaSpa generator unit.
6. Do not use PEX or PVC pipes.

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't be obstructed.
2. Install 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 240°F 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.
5. The steam line must slope to allow condensation to drain into the tank or room.
6. There must be no dips in the steam line. Low areas may collect condensation and cause faulty operation or cause hot water to spit into the room.

STEAM HEAD (3/4")

ATTENTION! Steam Head is very hot when there is steam coming out, please install steam head in a place where is away from the user.

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 material manufacturer about steam room applications.
2. The steam head outlet should be installed downward to avoid scalding.

ATTENTION! Tighten steam head by hand. Do not use a spanner or other tools. Use soap water and soft sponge to clean, 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.

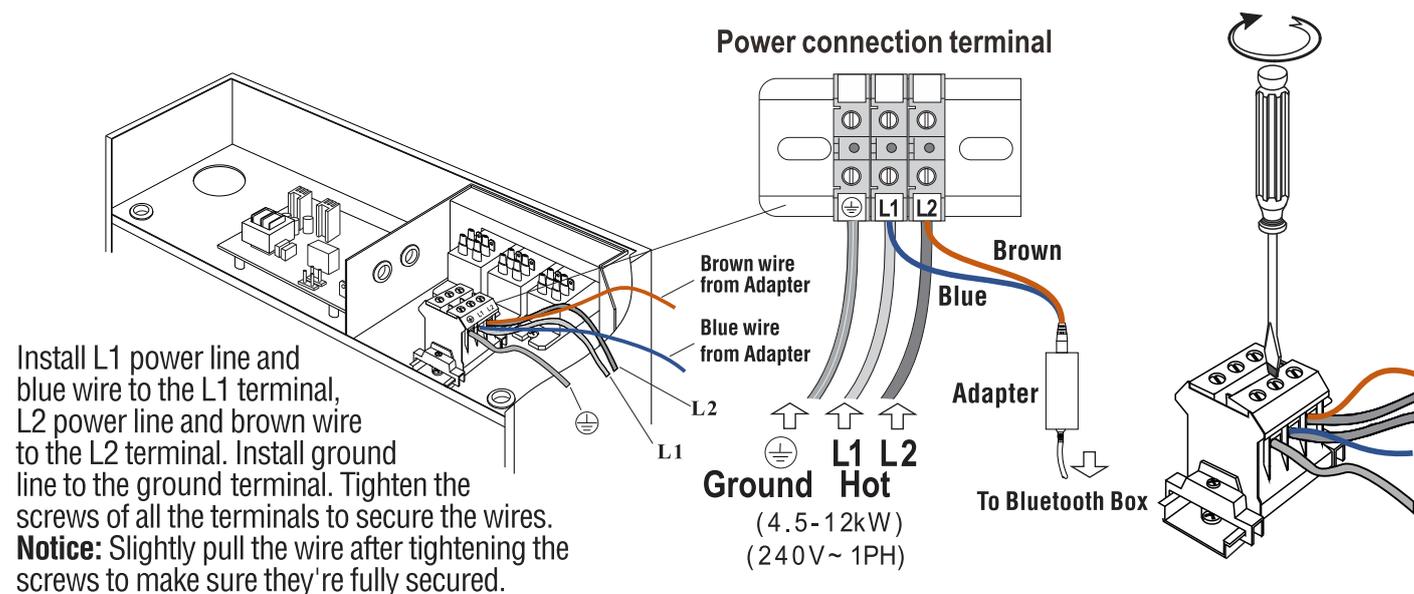
DRAINPIPE (1/2")

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 pressure relief valve or steam line to drain line.

PRESSURE RELIEF VALVE (3/4")

1. Pressure relief valve is an automatic system that is activated by pressure in order to avoid steam pressure increase inside the generator.
2. The pressure limit range of the pressure relief valve is 15 PSI. The pressure will begin to decrease when it's higher than 15PSI and the pressure relief valve is activated.
3. If it is allowed by local codes, provide the pressure relief 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 pressure relief valve, make sure its connection pipe is smooth.

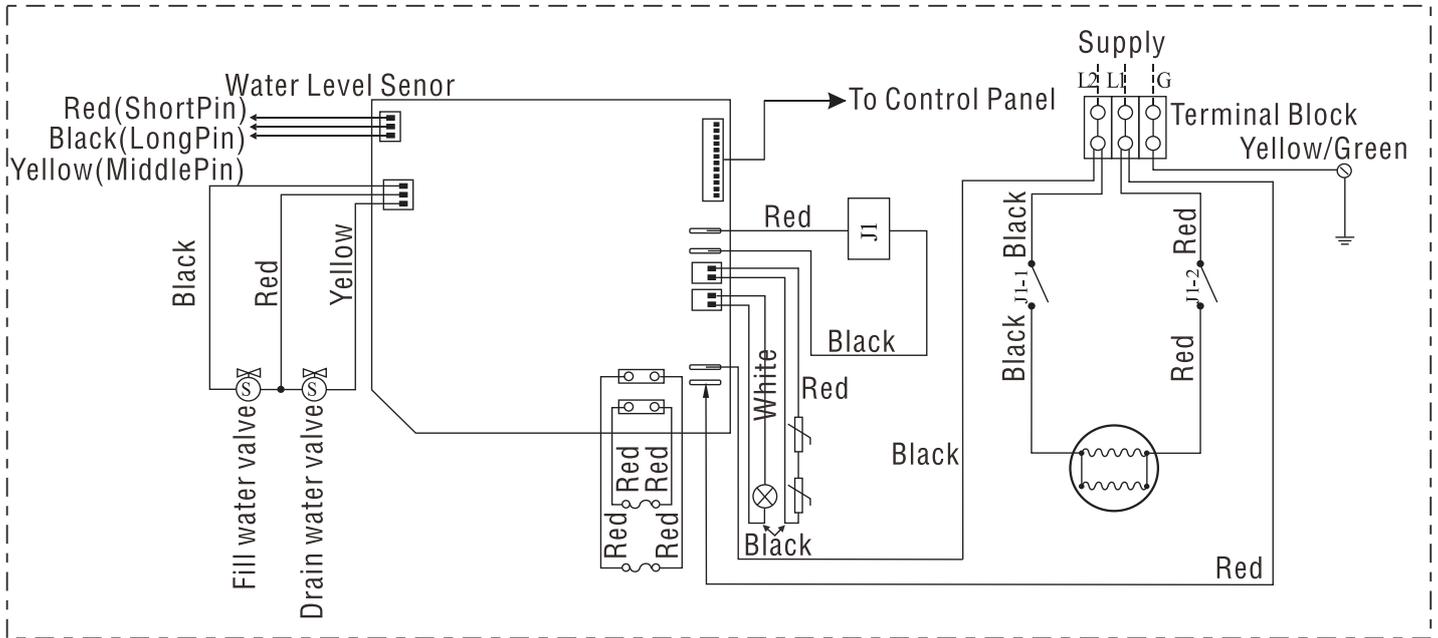
ASSEMBLY GRAPH FOR POWER WIRE



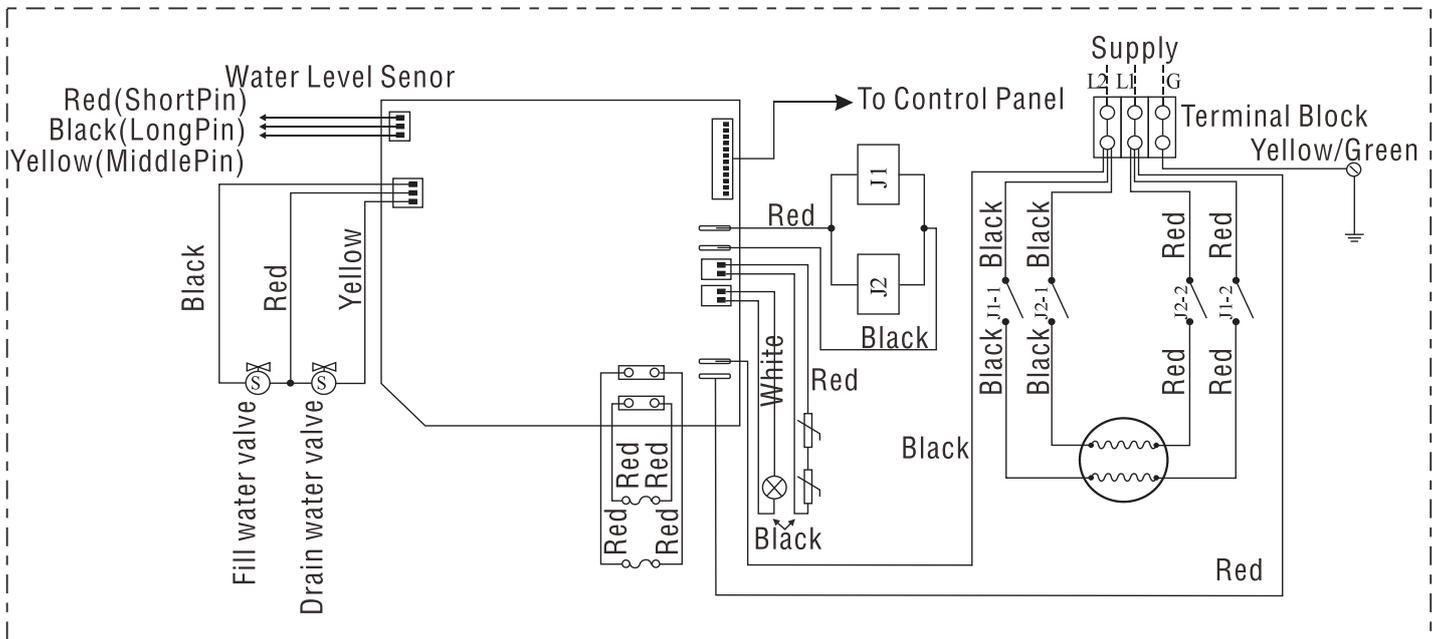
ATTENTION! To avoid damage to the equipment, do not connect electric current directly to heating elements.

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

WIRING DIAGRAM

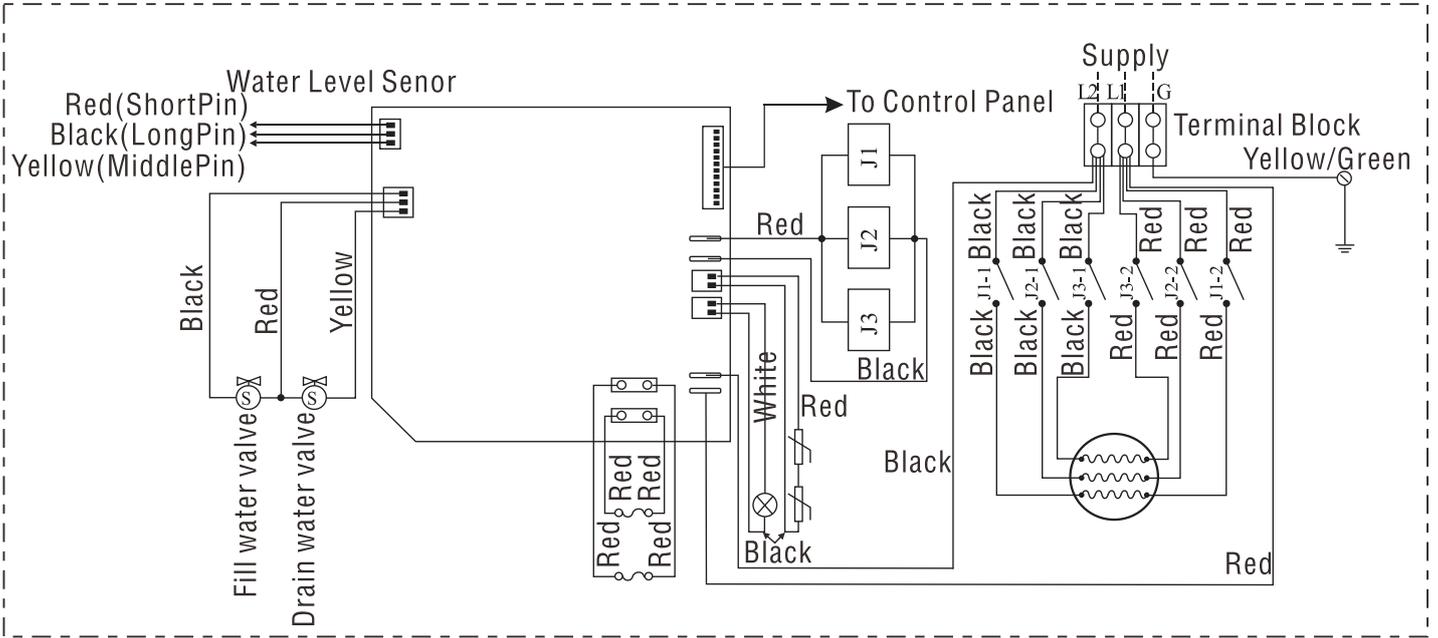


G-450

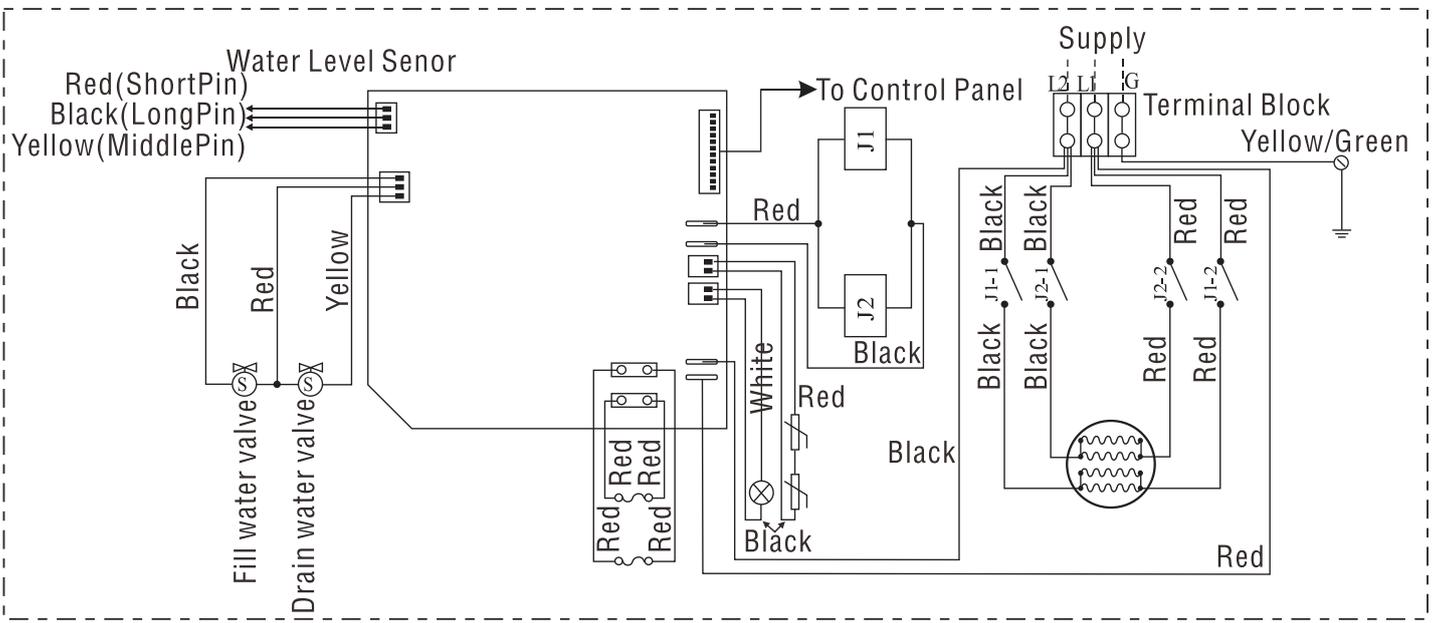


G-600

WIRING DIAGRAM

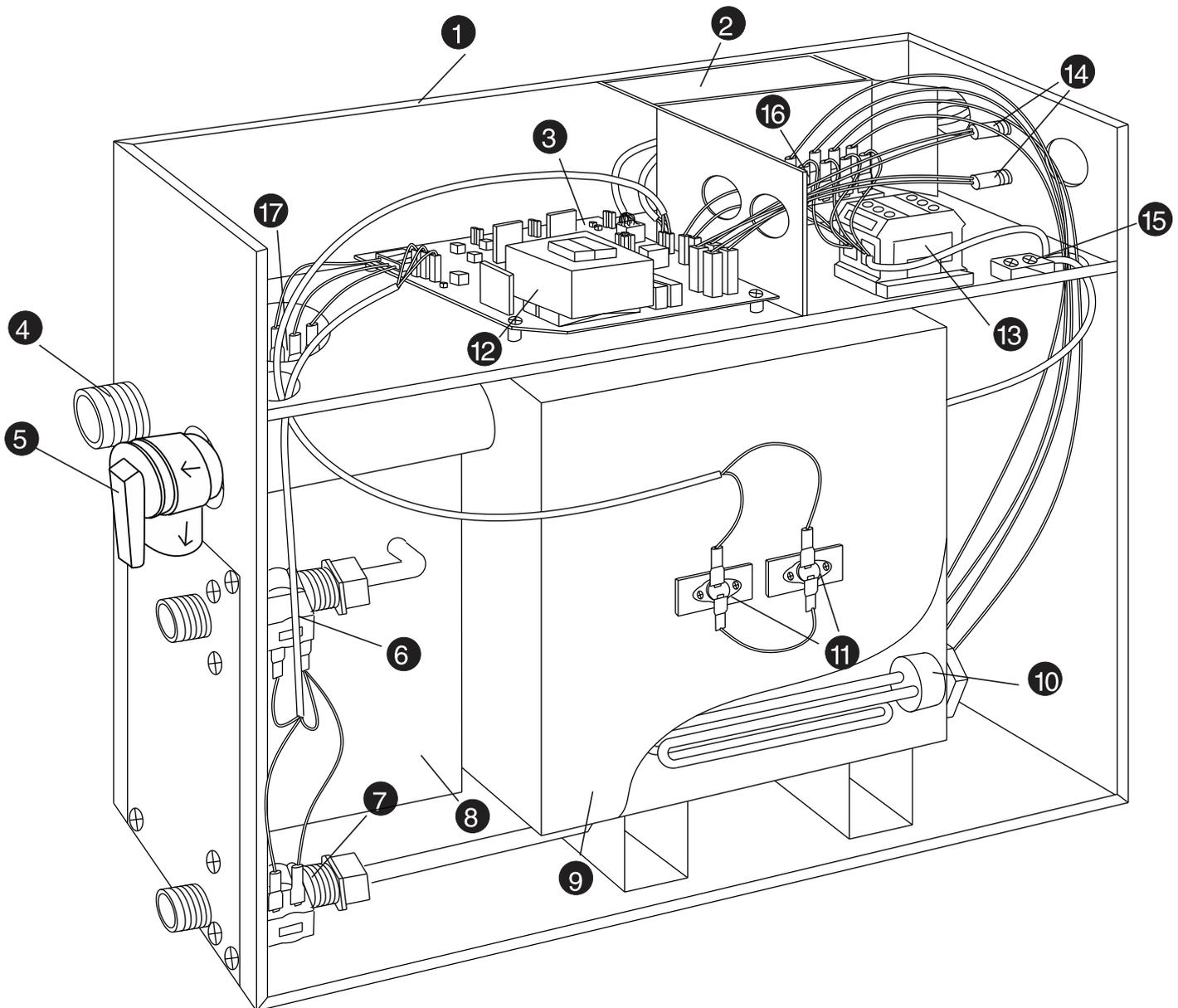


G-750 G-900



G-1050 G-1200

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. OVER TEMP. SENSOR | 17. WATER LEVEL SENSOR |
| 6. WATER FILL VALVE | 12. TRANSFORMER | |

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 SaunaSpa controls without reading and understanding the SaunaSpa generator Installation and Instruction manual. Failure to read and understand these instructions will result in inoperative control, hazardous overheating, and/or inadequate heating of the steam room.

Do not route control wire inside or close to power lines conduit, hot water or steam piping. Doing so may result in wire damage.

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

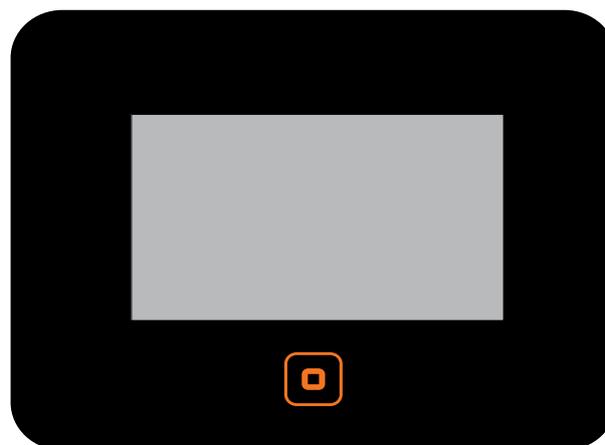
Single Control Panel with Temperature sensor must be installed inside bathing area 5 feet above floor. Do not install Control Panel directly above Steam Head or below shower head but rather in the seating area on a vertical wall. Doing so may result in improper temperature reading and/or inoperable control.

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

Discontinue use of the steam generator or control panel if the steam generator is damaged.

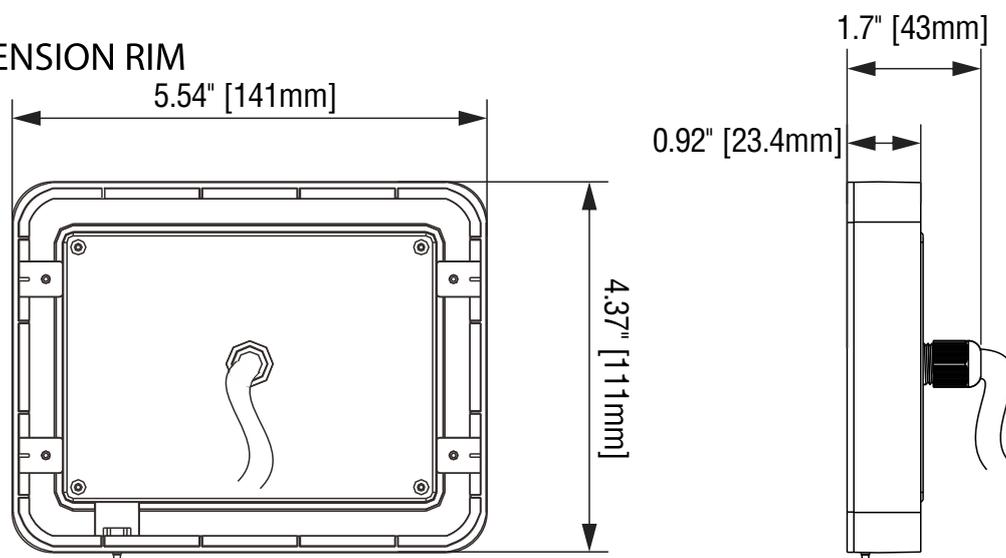
CONTROL SYSTEM COMPONENTS

- One (1) SaunaSpa Black Main Control panel
- One (1) Secondary Control panel (Sold Separately)
- Two (2) Chroma Color Light (Sold Separately)
- One (1) LED White Light (Sold Separately)
- One (1) SPA FCC Certification Manual
- One (1) Extension Rim
- Two (2) Speakers (Sold Separately)
- One (1) Control Box
- Six (6) Extension Cables
- User guide

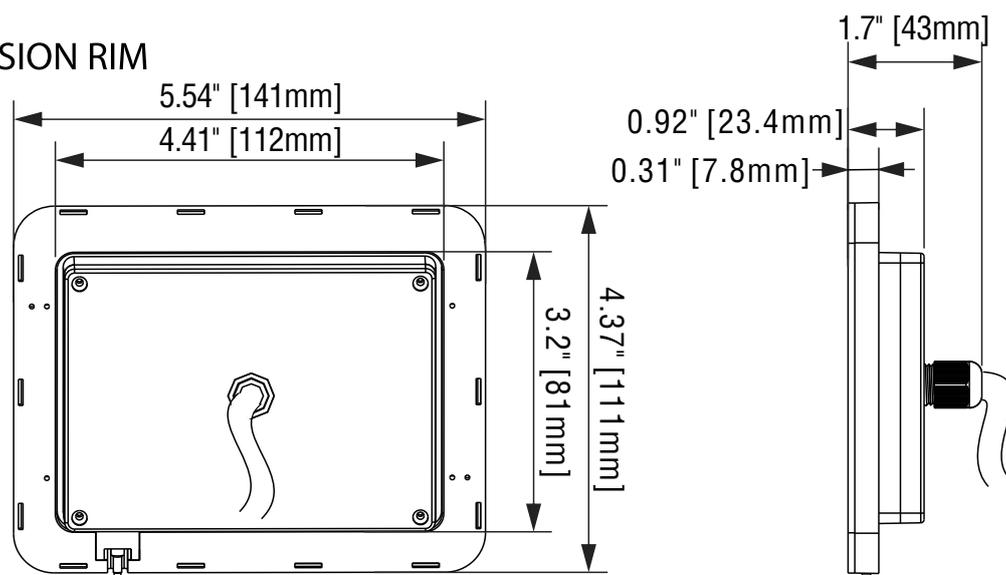


CONTROLLER SPECS

WITH EXTENSION RIM



NO EXTENSION RIM



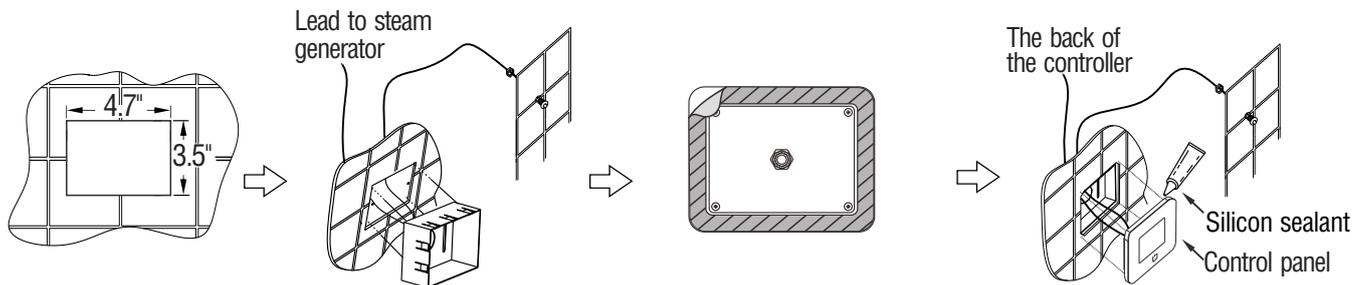
CONTROL PANEL INSTALLATION INSTRUCTIONS

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.

CONTROL PANEL INSTALLATION INSTRUCTIONS

A. Recess mount onto the wall using the Wall Box

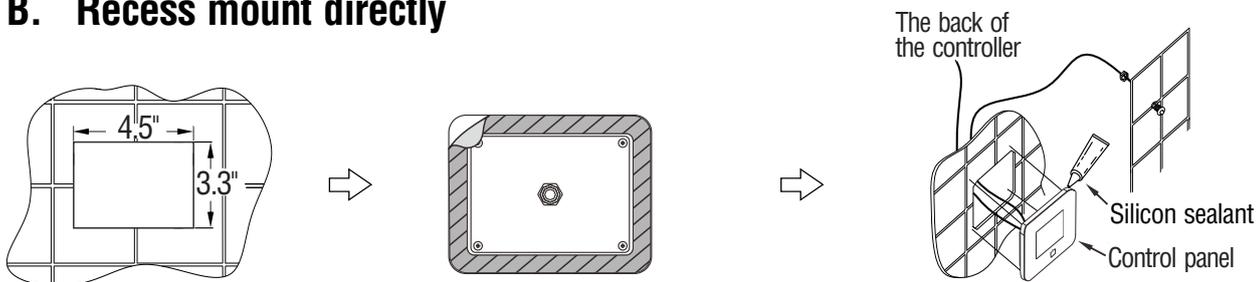


Cut a 4.7"x3.5" opening with 1.77"-2.4" depth at the desired location.

Slightly push the Wall Box into the opening and secure it with two #8x1" screws.

- Remove the film from one side of the sticker and stick it at the back of Control Panel. Remove the film from the other side of the sticker.
 - Slightly push the Control Panel to the Wall Box until stop.
- C. Apply Silicon sealant around the corner form by the Control Panel and the wall.

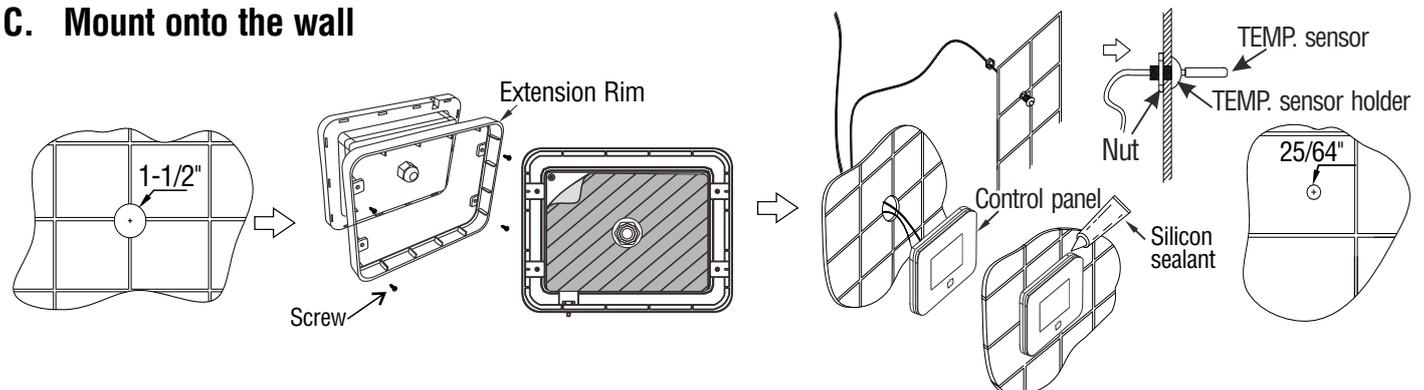
B. Recess mount directly



Cut a 4.7"x3.3" opening with 1.38" depth at the desired location.

- Remove the film from one side of the sticker and stick it at the back of Control Panel. Remove the film from the other side of the sticker.
- Slightly push the Control Panel to the Wall Box until stop.
- Apply Silicon sealant around the corner form by the Control Panel and the wall.

C. Mount onto the wall



Drill a 1-1/2" hole on the wall at the center of the Control Panel's location.

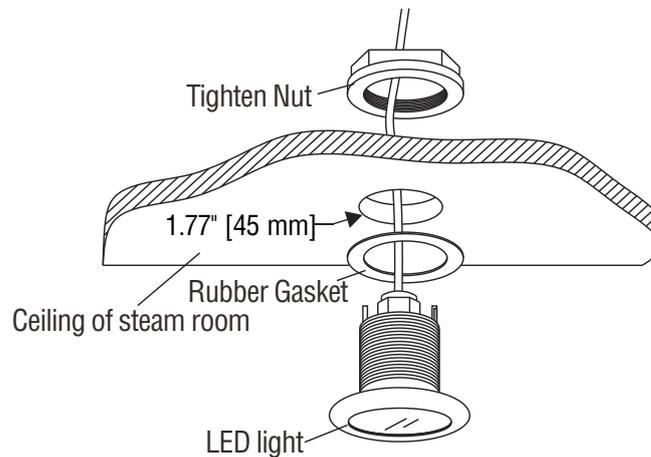
- Install the Extension Rim to the back of Control Panel and secure it with screws packed with the Control Panel.
- Remove the film from one side of the sticker and stick it at the back of Control Panel. Remove the film from the other side of the sticker.
- Slide the cables of the Control Panel through the hole drilled on wall, then stick the Control Panel to the wall. Apply good quality silicon sealant to the corner formed by the wall and Control Panel.

Notice: The Control Panel is integrated with temp. sensor. It's no need connecting an extra temp. sensor. When Control Panel is installed outside steam room, please install an extra temp. sensor inside the steam room by referring to figure shows above and steps below.

- Drill a 25/64" hole on the wall at the location of the temp. sensor.
- Remove the nut from the TEMP. Sensor Holder and install it from the front of wall. Then secure it by tighten the Nut from the back of the wall.
- Slide the cable of it through the hole of the TEMP. Sensor Holder and push it until it stop.
- Connect temp. sensor to the Control Panel.

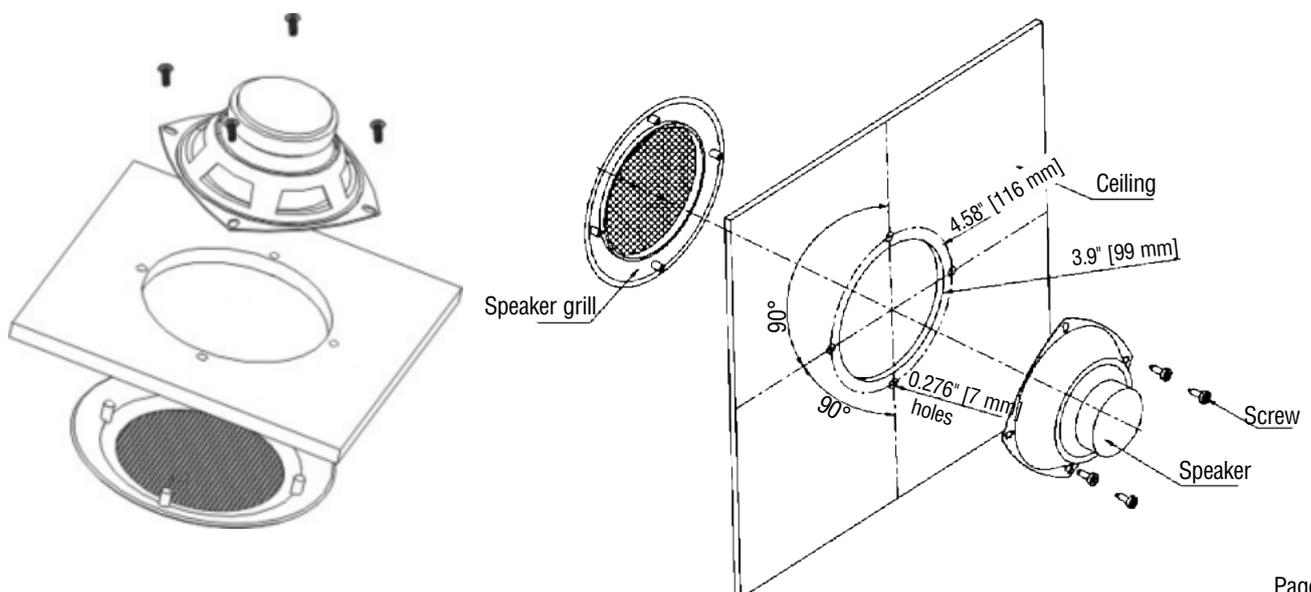
INSTALLING LIGHT

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.



INSTALLING SPEAKERS

1. Choose a proper place on ceiling inside the steam room.
2. Drill holes through the ceiling as the picture shows.
3. Choose the screws according to the thickness of the ceiling or the plate where the speakers are installed. Use #4 x 1/2" phillips pan head self-tapping screws for ceiling with 1/2" thickness. Use #4 x 3/8" phillips pan head self-tapping screws for ceiling with 3/8" thickness. The length of screws should be neither less than 2mm nor longer than the thickness of the ceiling. When the thickness of ceiling is less than 4mm, add one or more 1/4 flat washers between the ceiling and the speakers. Install the speaker grills from the bottom and the speakers from the top of the ceiling. Tighten the screws to secure the speakers. **Do not over tighten.**

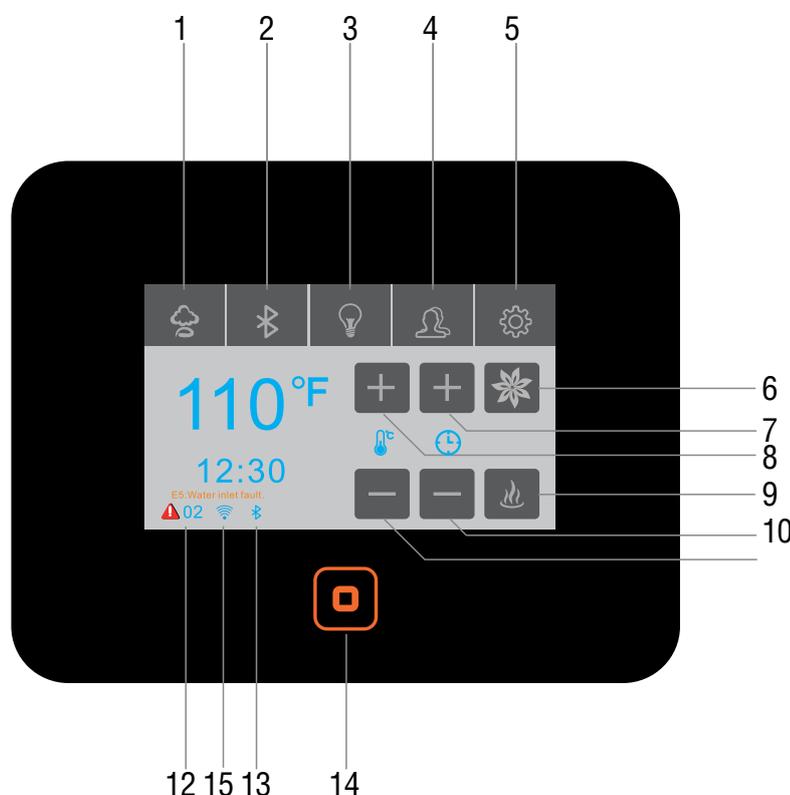


TESTING THE MACHINE

1. Make sure the power switch  of the control panel is turned on (the control panel displays ---), and the water supply stop valve is turned on.
2. Press the steam switch  to start steam function. It will take some time (1-2 minutes) to wait for the steam comes out. And it will take more time for filling water into the steam generator until steam comes out for the first time use.
3. The steam will stop and the light will go off automatically when pressing  again.
4. The temperature reading on the control panel goes up as the steam keeps coming out into the room. When the temperature of the room reaches the preset value, the steam stops.
5. The users can adjust the steam temperature and time per their needs.
6. When the set steam time is up, the system will shut off the steam and light automatically. Water input stops.
7. Once the timer is finished, or the generator is manually turned off, and stays off for 2 hours, the auto drain function will automatically begin draining. Auto drain function will last for 5 minutes.

WARNING! Do not dismantle the pressure relief valve arbitrarily.

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



1. Steam Controls
2. Bluetooth Controls
3. Light Controls
4. User Presents
5. Settings
6. Aroma Pump
7. Steam Time +
8. Steam TEMP.+
9. Start Steam Production
10. Steam Time -
11. Steam TEMP.-
12. Error Codes
13. Bluetooth Icon
14. Power On/Off
15. Wifi Icon

OPERATION

FUNCTIONS



LIGHT



STEAM



BLUETOOTH



CHROMA LIGHT



AROMA PUMP

OPERATIONAL APPROACH

1. START-UP/SWITCH OFF

POWER ON

The buzzer of the display box will buzz after connecting to power source.

START-UP

When the system is under stand-by mode, press the  key to start-up. The current ambient temperature in the room and bluetooth music icon will be displayed on the screen as shown in Figure 3. After the interface is fully displayed, press the function key on the screen to unlock.

If the user has set the scheduled start-up function, when the scheduled time reached, the system will start-up automatically and the steam function will be activated.

When the WIFI mode is connected, we can get the control panel power on by mobile phone.

POWER-OFF

Press the  key to shut down the system. The clock will be displayed if the function is set in the system, otherwise, it won't be displayed on the screen.

If a pre-set shut off time has been scheduled, the system will power-off automatically when the pre-set time is reached. (The system will also shut down 2 minutes after the steam function is turned off.)

System could be power off by mobile if with WIFI function.

2. LIGHTS CONTROL

Switch to lighting interface by pressing  on the screen. (Figure 3)

CONTROL OF LED LIGHT (IF EQUIPPED)

Press  to turn on the light ; Press  to turn off the light.(Figure 5)

CONTROL OF CHROMA LIGHT (IF EQUIPPED)

Press  key to turn on the chroma light, and then press   key to change the color of the light. Press the  key to turn off the chroma light.(Figure 5)

3. STEAM FUNCTION

Press  to start the steam function at the main screen. Press the  again to stop the steam Function. (Figure 3)

Steam temperature setting:

Set temperature by pressing the key of  or  at the left of main screen. Set the temperature range within 10-43 degrees Celsius by increments of 1 degree. (Fahrenheit range: 50-110 degrees, in increments of 1 degree.) Set steam time by pressing the key of  or  at the right of main screen. Set the time range within 5-60 minutes by increments of 5 minutes. (Figure 3)

4. USER MODEL

Switch to user interface by pressing  on the screen. (Figure 3)

Save user information:

Select the user bar by pressing  or  key, then press key  to save the current setting in this bar. (Figure 6)

Read user information:

Select the user bar by pressing  or  key, then press key  to load the saved user setting. (Figure 6)

5. SETTING

Switch to Setting interface by pressing  on the screen. (Figure 3)

Scheduled start-up setting

Select " **Working Mode** " the on the setting interface shown in Figure 7, press key  to enter the interface shown in Figure 8 to set parameters.

(1) Time setting

Stop the cursor on the " **Timing** " bar by pressing  or  key, set hours by pressing  key, and minutes by  key. The parameters are set in loop with 1 hour increments at a range of 0-23 hours. And 10 minute increments at a range of 0-50 minutes.

(2) Day

Move the cursor from Sunday to Saturday bar with   key, Then select the function options : Off (no schedule), One(one time operation), Rep(repeat operation) with key   . If the One(one time operation) mode is selected, the system will operates once at the selected day only. If the Rep(repeat operation) mode is selected, the system will operates at the selected day every week.

(3) Save information by pressing  . Exit the setting interface by pressing the  key.

Note: When system is running under the scheduled start-up mode, the temperature and steamer working time set by user1 shall be loaded as default. For example, if the temperature is 110°F and the working time is 30 minutes set by user1, then the temperature shall be 110°F and the working time shall be 30 minutes under the scheduled start-up mode. If the working time is adjusted after start-up, the scheduled shut off time shall subject to the final set time.

Set Real time clock

Select the " **Real Time** " on the setting interface shown in Figure 7, and press key  to enter the interface shown in Figure 9. Move the cursor to the parameters by pressing   key, e.g.: Hour, minute, date, month, year, displaying time or not after power off etc. Then adjust the parameters by pressing   key. The parameter of " **week** " will be calculated automatically by date input system. Press the key  to save the setting. Exit the interface by pressing key . The parameters won't be saved if the key  is not pressed before pressing key .

Note: The real-time clock shall be reset after the power interruption of the system is more than one week.

Shift temperature unit

Select "°F/°C" on the setting interface shown in Figure 7, press key  to enter the interface shown in Figure 10. Press the key  to shift between degrees Celsius and Fahrenheit.

Factory setting

Select " **Factory Setting** " on the setting interface shown in Figure 7, and press the key  shortly to restore the factory parameter. The steam temperature will return to 110°F and the steaming time will return to 30 minutes.(Figure 7)

Preset mode

Select " **Preset mode** " on the setting interface shown in Figure 7, press key  to enter the preset mode interface. Press key  select or unselect memory mode. When " **Memory** " is selected, steam temperature and working time will be saved for next time using.

Note: When " **Memory** " isn't selected, default steam working time is 30 minutes, steam temperature is 110 Fahrenheit.

Memory function won't be activated when the system is turned on for the first time or restored to factory setting.

6. BLUETOOTH MUSIC FUNCTION

Switch to bluetooth interface by pressing  on the screen. (Figure 3)

Start of the bluetooth music function

Connect the bluetooth of the cell phone after power on, select the interface as shown in Figure 4 and press  key to play or stop the music. (Figure 4)

Song switching

When the music is on, press key  for the previous song and press  key for the next song. (Figure 4)

Volume adjustment

Press the key  to raise the music volume. Press the key  to lower the music volume.

Bluetooth connection

The bluetooth connection will be cut off automatically 10 seconds after system power-off. When the cell phone is going to be restarted after 10 seconds, the bluetooth shall be connected through the cell phone, then start the music player to play the music. The bluetooth can be operated normally only after the synchronous success. The bluetooth equipment was named as "SaunaSpa".

Note: The bluetooth status indicating icon  will be flash on the bluetooth interface when the bluetooth equipment is not connected, otherwise, it will stop flashing.

7. AROMA PUMP (Pump A and Pump B)

When steam function working, press  to switch on/off aroma pump. (Figure 3)

When the steam is on, keep pressing button  to enter into the aroma pump setting interface, as you can see in picture 12; touching button to select the setting of pump "A" or pump "B", press button  once to set the pump "A" parameter, press button  again to set the pump "B" parameter; Touch  to turn  to  (indicating that the pump "A" /pump "B" is on or off, If pump "A" and pump "B" are closed at the same time, pump "A" is forced to open), touch   button to set the working time and interval time. after the setting is completed, keep pressing button  or  return to main interface. Interval time setting range: 1~10 minutes, pump working time range: 1~9 seconds.

8. DRAINAGE

When control panel is on but steam function still not be activated, keep pressing aroma pump button  on main interface to drain water manually. Press the aroma pump button  again or steam button  to stop draining.

Note: Once the timer is finished, or the generator is manually turned off, and stays off for 2 hours, the auto drain function will automatically begin draining. Auto drain function will last for 5 minutes.

9. TROUBLE SHOOTING

When there is a fault detected by system, there will be an error code shown at the left bottom of the interface. (Figure 3)

ERROR CODE	FAULT DESCRIPTION	TROUBLE SHOOTING
02	Steam generator and control panel communication failure	Check the cable connections.
05/15	Water inlet problem	Pls check whether there is water supply or the water inlet valve is turned on.
03/13	Overheat protection	Check that the steam engine overheat protection is disconnected
08	Temperature sensor open circuit	Pls check the TEMP. sensor connection. Replace the TEMP. sensor if necessary.
09	Temperature sensor short circuit	Pls check the TEMP. sensor connection. Replace the TEMP. sensor if necessary.



Figure 1-Real clock when Standby

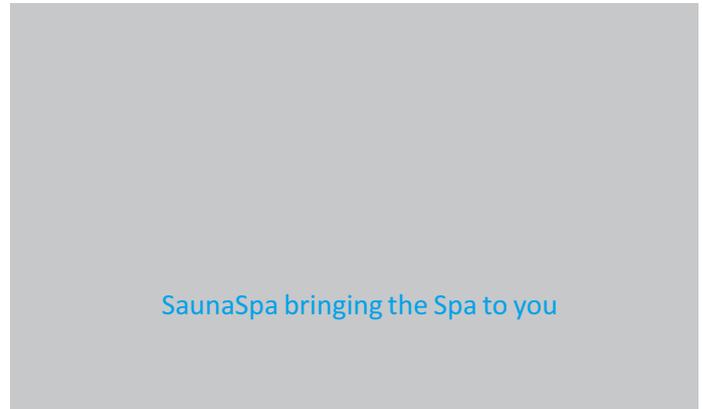


Figure 2-Start up Screen

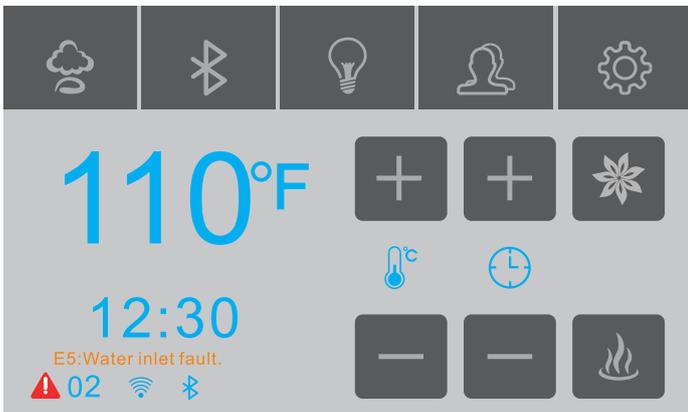


Figure 3-Main screen

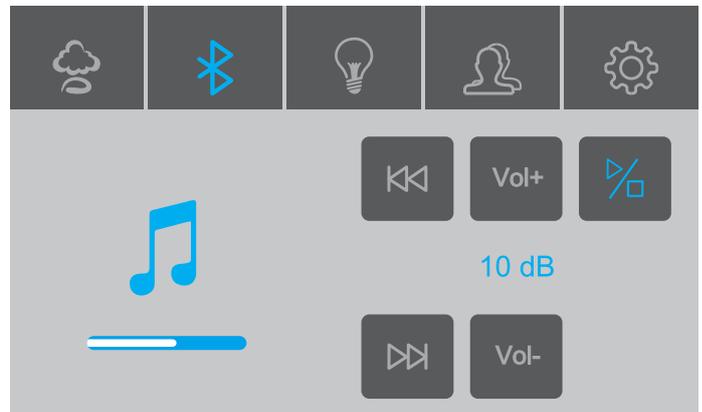


Figure 4-Bluetooth screen

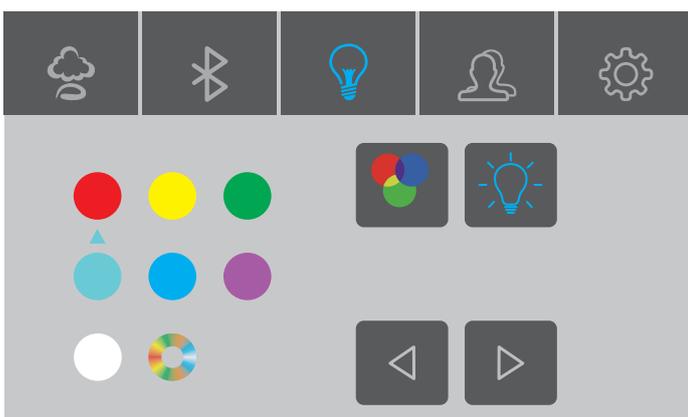


Figure 5-Light screen

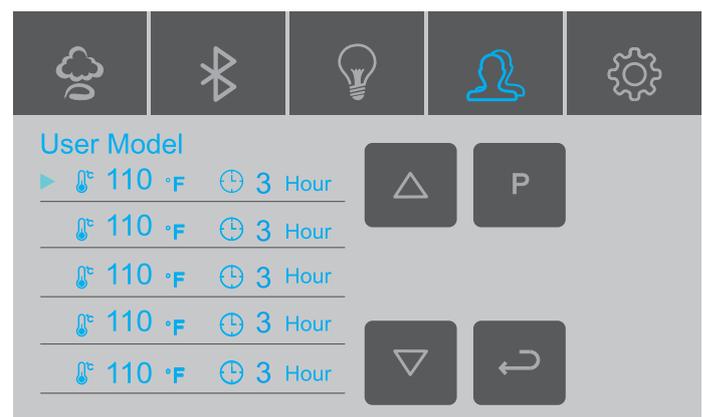


Figure 6-User screen

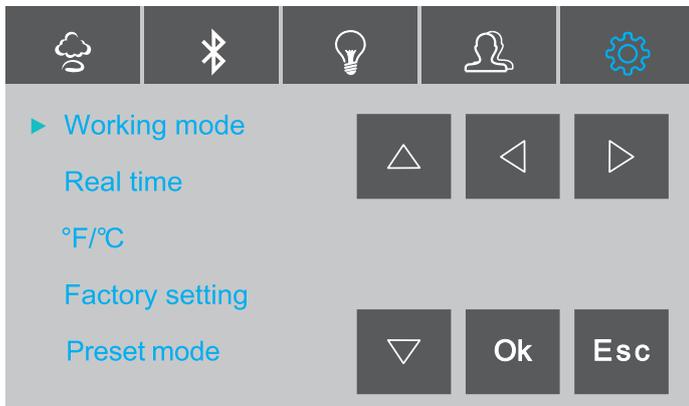


Figure 7-Settings

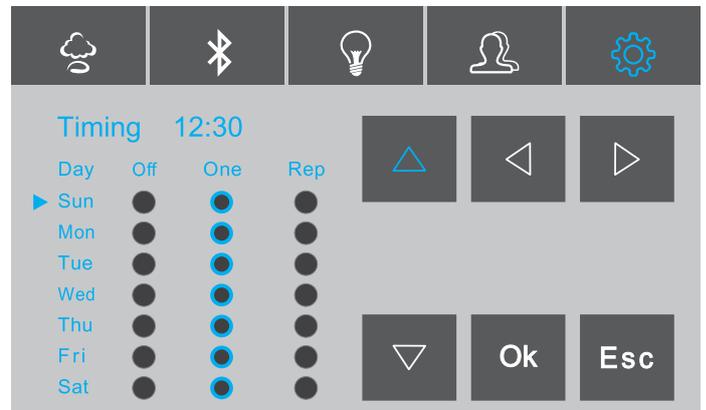


Figure 8-Schedule screen

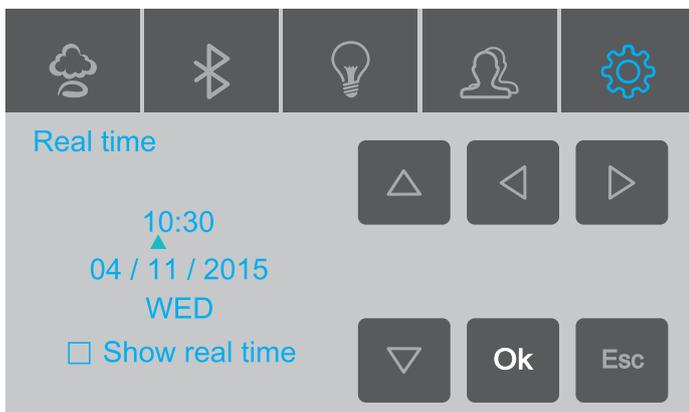


Figure 9-Clock settings



Figure 10-TEMP. settings

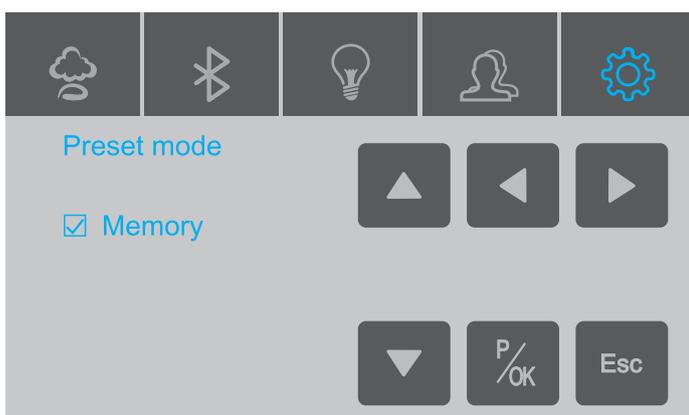
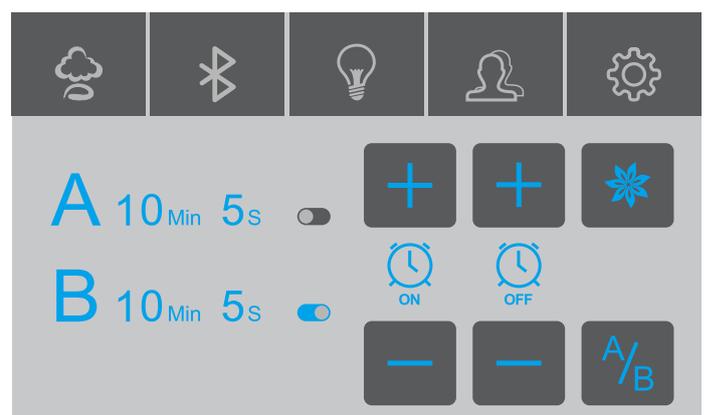


Figure 11-Memory setting



Picture 12-Aroma Setting

OUTSIDE SECONDARY ON/OFF CONTROL

Note: Outside secondary On/Off control is not standard part for Control Panel, it's optional.

Steam generator can be powered ON/OFF by Outside secondary on/off control. The backlight of the sub panel indicates different working states.



Light status	Status Description
Blue light flashing	Communication failure, check cable connection
Red light flashing	Steam engine alarm
Blue light on	Power on but not steam out
Purple light on	Steam engine on, heating up
Red light on	Ambient temperature has reached the preset temperature
Backlight turns off	Power off

1. When system is powered off, press outside secondary On/Off control to turn on the light and steam function.
2. When system is on, press button to stop steam and power off the light and button backlight at the same time.
3. Button is purple color for 2 seconds once outside secondary On/Off control power on. When outside secondary On/Off control can't receive signal from Control Panel in 5 seconds. Blue button backlight flashes. When Control Panel malfunctioned, red button backlight flashes.
4. When outside secondary On/Off control connected power, steam function still not work, button backlight is light blue. When steam works and room temperature is lower than preset room temperature, button backlight is purple. When room temperature reaches the preset room temperature, button backlight is red.

TECHNICAL PARAMETERS

Working conditions and characteristics				
Rated voltage	AC220-240V	Rated frequency	50/60Hz	
Component Parameters				
Parts	Rated voltage	Frequency	Rated power	Other
Steam machine	AC220-240v	50/60Hz	4.5-12KW	-
Light	AC220-240V	50/60Hz	200W	Steam machine output
Chroma	DC12V	-	≤15W	
Speakers	-	-	8Ω/5W*2	music box output

APP MANUAL FOR STEAM GENERATOR

Notice: Please note that you will need a 2.4G wireless router.

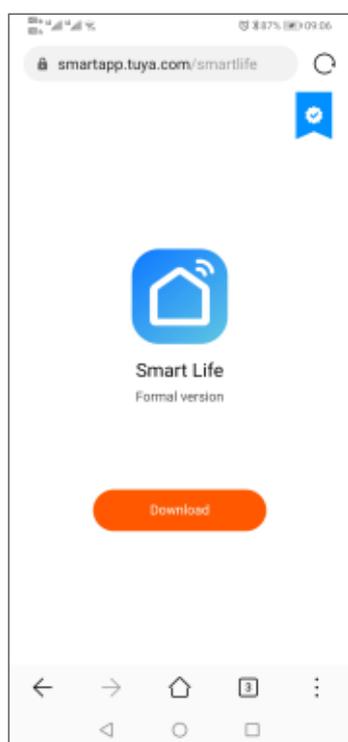
1.DOWNLOAD APP ON SMART PHONE

- A. For Android phone,
Scan QR to install APP.
- B. For IOS Phone(Iphone)
Search “**Smart Life**” in APP STORE directly to download APP



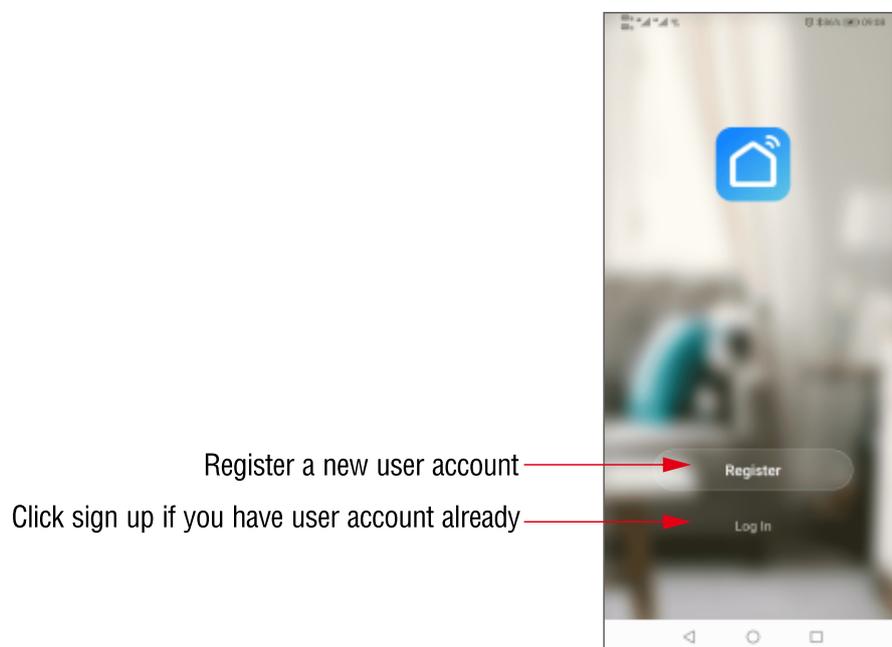
Android QR Code

- C. Enter download interface as show on pictures, click“**download**”, choose“**Installation**”to install the app.



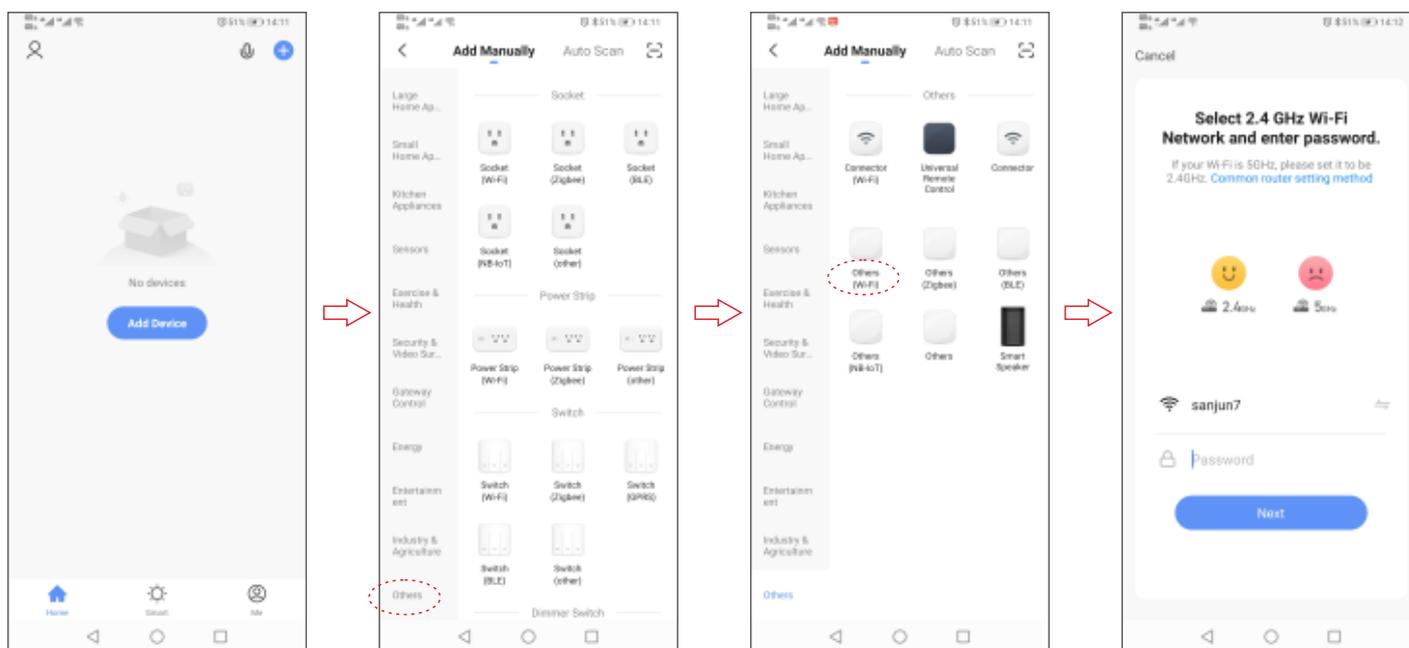
2.USER REGISTRATION AND SIGN IN

Click APP logo“Smart Life” to enter into login interface as picture shown. Register a new account for the first time use.



3. Adding your steam generator to the APP List

After logo in, please add your steam generator by following steps below.



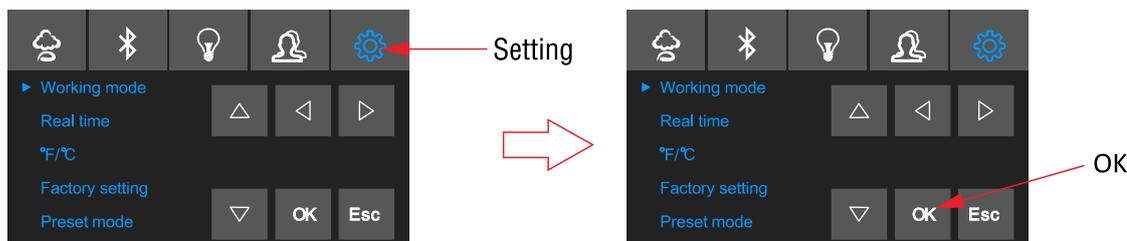
1. Click“Add Device” .

2. Click again“others”.

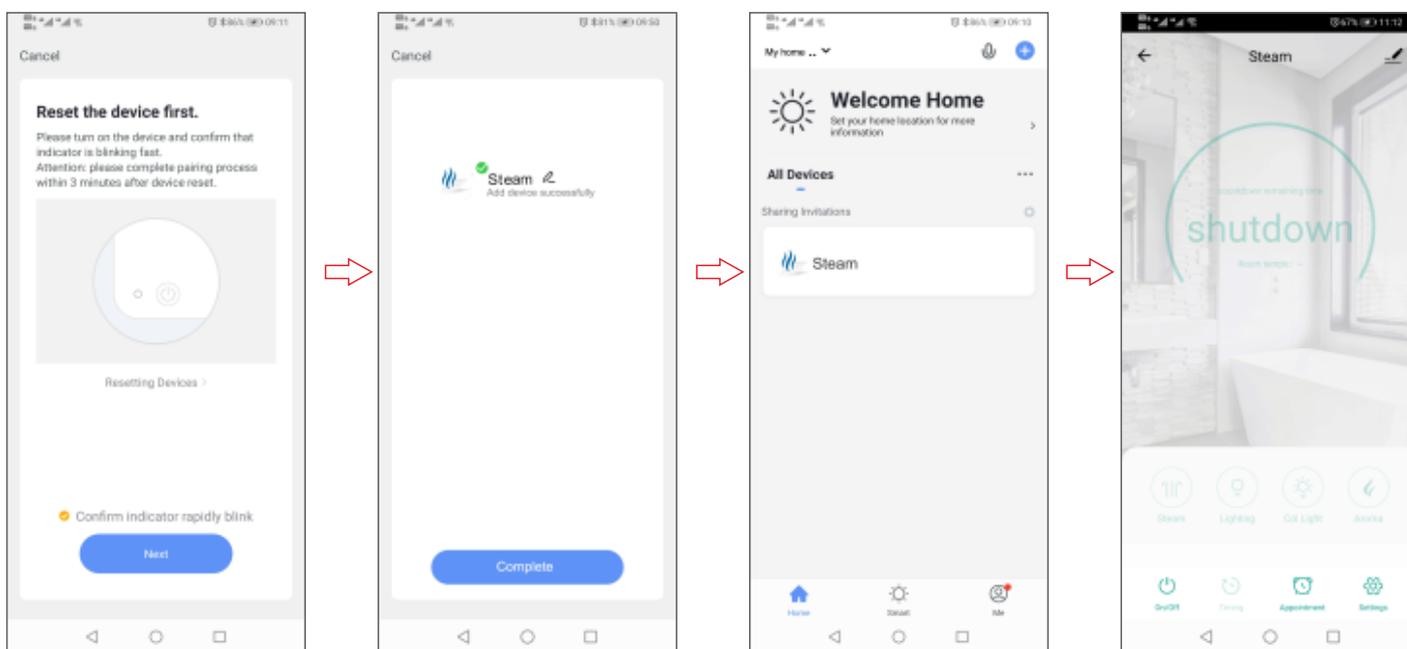
3. Choose“others (Wi-Fi)”.

4. Input WIFI password and click“Next”.

5. Choose setting interface as pictures below in the first 2 minutes after the control panel is turned on.
6. Touch the button  to enter the setting interface as displayed in picture.
7. Move the arrow to “**factory settings**”.
8. Press button “**OK**” and hold for 2 seconds, you will hear a “**Beep**” sound, the system is now in the WIFI matching state.



9. When steam generator is in matching state, click “**Next**” to add steam generator in APP and enter into product operation interface.



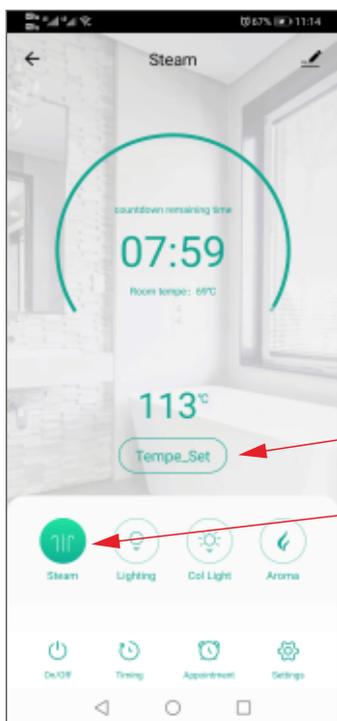
- a. Click “Next” to enter directly.
- b. Change device name as you wish. After steam generator added in the list. Click “Completed”.
- c. Select the “Steam” to enter the operation interface.
- d. Click “On/Off” to turn on or off the steam system.

4. OPERATION INTERFACE OF STEAM GENERATOR



5.FUNCTION

A. Steam temperature Setting

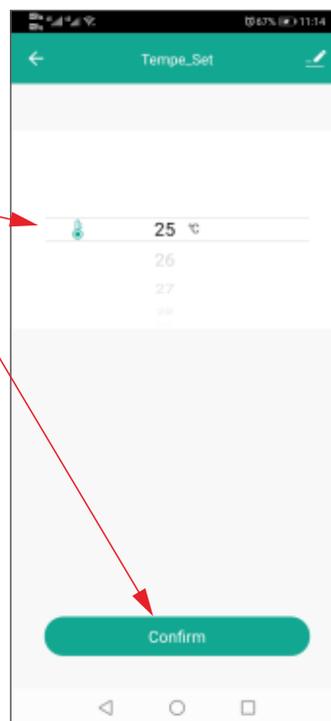


Scroll up or down to set steam TEMP and click“confirm”



Steam function on, Click“Tempe_Set”

Click steam button



B. Working Time Setting



Scroll up or down to set steam TEMP and click“confirm”



Steam function on, click“Timing”to enter timing setting interface



C. Appointment Setting



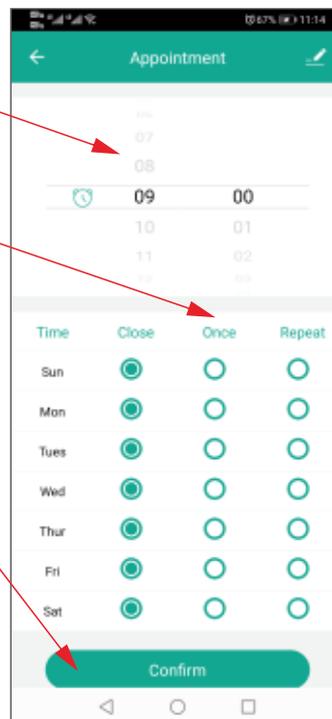
Scroll up or down to set steam working time.

Click Monday to Sunday to set working mode

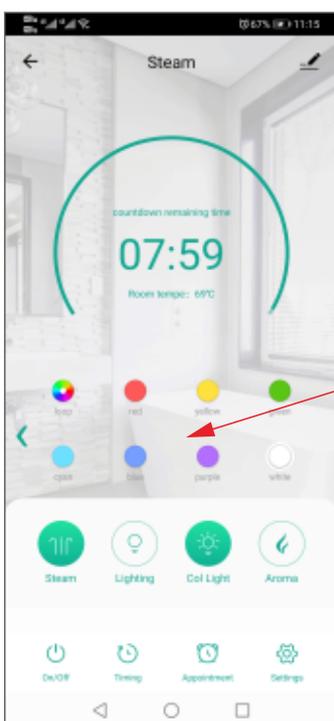


Click "Confirm" to sure setting and quit the interface

Click "Appointment"



D. Chroma Light



Turn on the steam and chroma light at same time, Select the color of the lights by pressing the icons. The color of the lights change immediately.

E. Light and Aroma Light

Steam function on, click the "light" button to switch on/off the light.

When steam function on, click aroma light button to switch on/off the aroma light.

F. Setting

1. Auto. clean function

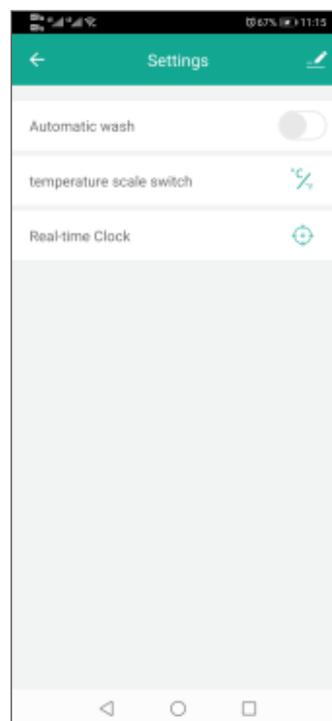
Not available. DO NOT SWITCH THIS FUNCTION ON.

2. Temperature unit switch

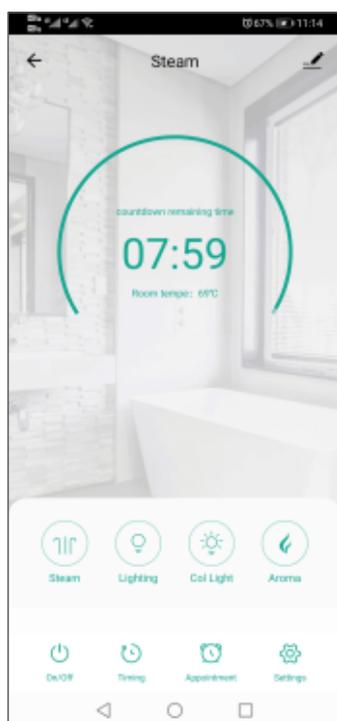
Click temperature scale switch, the temperature unit can be switched between Celsius and Fahrenheit.

3. Real-time Clock

Click the real time clock to get real clock time is same as the clock shows on control panel.



G. Parameter Settings

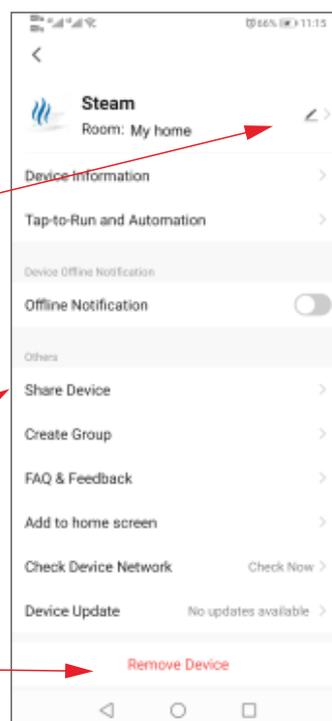


Click here to set more function.

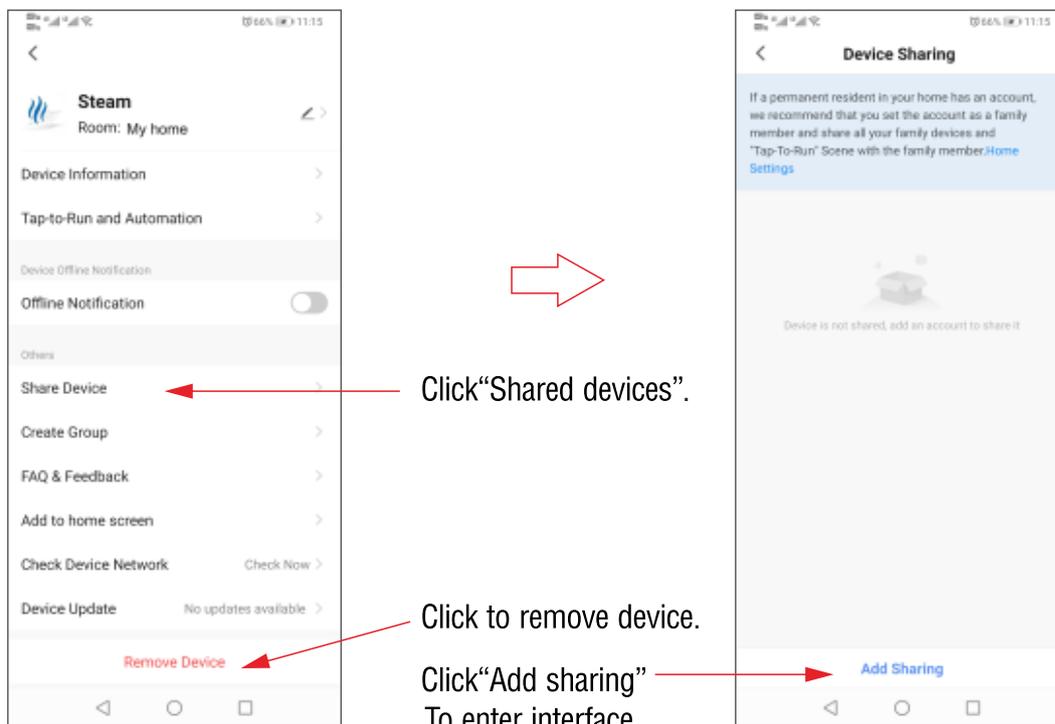
Device name Settings.

Share devices with others.

Click to remove device.

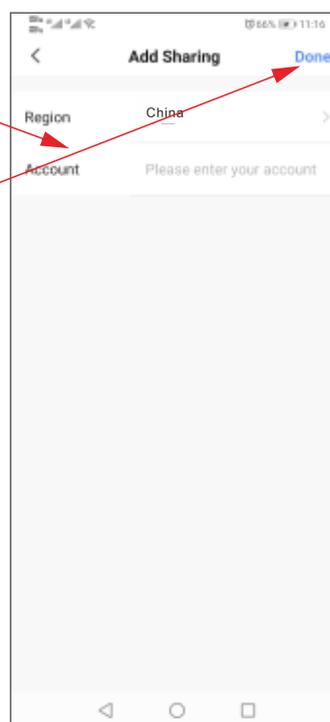


H. Share device and remove device



Enter the user account who you would like to share the device with. But this user account should be registered on "smart life" APP.

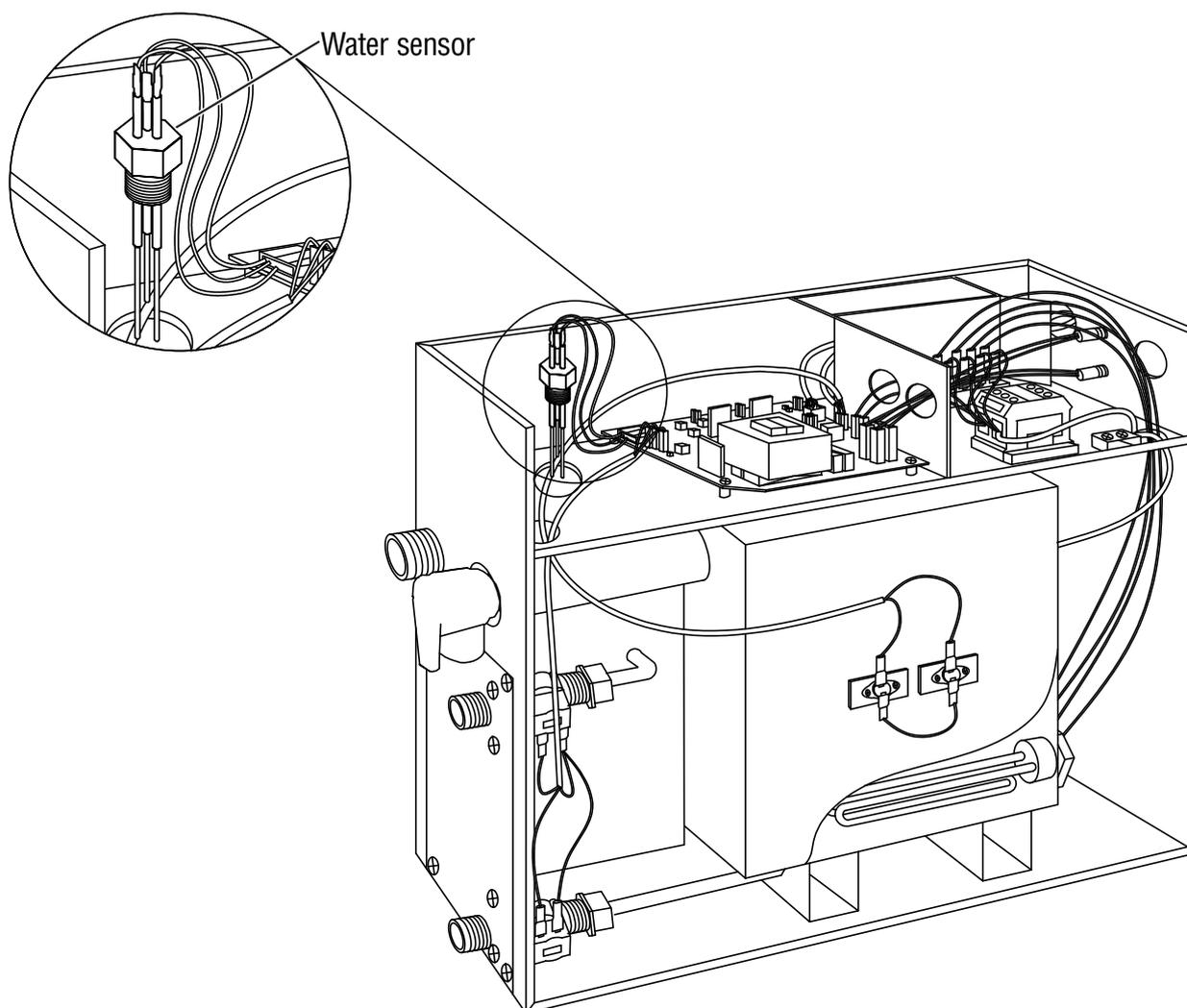
After input the user account, click "Done" to finish.



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 pipe connections, to ensure whether they are water tight and intact after being used.
5. It is recommended that the water sensor prong gets clean once every six month.
 - a. Remove the cover 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 build-up accumulated on the prong.



TROUBLE SHOOTING GENERATOR

- Generator Maintenance and Service should be completed by Licensed Plumber or Electrician.
- Turn Off Electrical Breaker and Water Supply Before Any Work On Electrical Connection is attempted.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The machine does not start when powered	<ol style="list-style-type: none"> 1. Fuse blown. 2. The electrical wiring is loosened 3. Control panel connection is loosened 	<ol style="list-style-type: none"> 1. Replace fuse (0.8A/240V) 2. Cut power Supply and reconnect wiring 3. Reconnect control panel and restart it
Breakers are tripped	<ol style="list-style-type: none"> 1. Check gauge size 2. Damaged heating element 	<ol style="list-style-type: none"> 1. Replace wire with correct gauge 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. Check inlet valve 2. Check cable pins 	<ol style="list-style-type: none"> 1. Clean or replace valve 2. Clean or replace pins
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. Motherboard failure 	<ol style="list-style-type: none"> 1. Check whether the connection plug between the control panel and the generator is loosened, and whether the power supply is in good contact 2. Replace the motherboard
Water leakage	<ol style="list-style-type: none"> 1. The water pipe connector is loosened 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 loosened connection or replace the broken pipe 2. Replace the water input valve or the water drainage valve
No steam when starting the machine	<ol style="list-style-type: none"> 1. No power 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. Something wrong with the heating element 	<ol style="list-style-type: none"> 1. Clean or replace heating elements
Light doesn't turn on	<ol style="list-style-type: none"> 1. Failure 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
Cold water is coming from the steam head	<ol style="list-style-type: none"> 1. The water sensor cable is loose or water level sensor is defected 2. Check cable pins 3. Check inlet water valve 	<ol style="list-style-type: none"> 1. Make sure that the water level cable isn't loosened. If the cable is well connected, then replace the water sensor 2. Replace cables 3. Clean or replace inlet valve
05 Error Code	<ol style="list-style-type: none"> 1. Water inlet problem 	<ol style="list-style-type: none"> 1. Check water supply 2. Check inlet valve for blockage. It may need cleaning or replacement.

SAUNA SPA TROUBLE SHOOTING

Generator Maintenance and Service should be completed by Licensed Plumber or Electrician

Turn Off Electrical Breaker and Water Supply Before Any Work On Electrical Connection is attempted

UNIT LEAKING WATER OUT OF THE STEAM OUTLET:

- **PSI TO UNIT GREATER THAN 15-20PSI:** Confirm that the PSI going to the unit is regulated between 15-20 PSI (Most House Lines Run Off approx. 50-100, (a Pressure Regulating Valve may be required).
- **WATER SENSOR IS DEFECTIVE:** (New Generator/Elements): Remove heating elements and check for corrosion/burn out of element.

MY CONTROL IS NOT TURNING ON:

Turn Off Breaker Before Any Work On Electrical Connection is attempted

- **BREAKER IS NOT TURNED ON:** Have the customer check if the breaker has been turned on for the unit.
- **LOOSE CONTROL PANEL CABLE CONNECTION:** Check to see if arrow on the connection are lined up and plugged into each other completely.
- **WIRE GAUGE FOR ELECTRICAL CONNECTION INCORRECT:** Check the gauge of wire installed, and compare to the "Ampere Meter" chart on pg. 9 of the manual, to ensure correct gauge wire is being used.
- **AMPERAGE NOT SUFFICIENT:** Check breaker size against the "Ampere Meter" chart on pg. 9 of the manual. If breaker is not sufficient, the breaker will need to be changed.
- **VOLTAGE NOT SUFFICIENT:** Ensure that the generator is connected 240v electrical supply.
- **DAMAGED 1FT. CONTROL CABLE:** Have customer check the pins at the male connection coming from the back of the generator. If pins look to be okay, remove lid to see if connection made at terminal block is loosened. If so press connection in completely.
- **DAMAGED CONTROLLER EXTENSION CABLE:** Look at the male and female end of the 20ft extension. Check if there is visible damage to the pins and connection, or if any pins are missing from the male end of the cable.
- **LOOSE CONNECTION AT TERMINAL BLOCK:** Make sure all connection made at the terminal block are inserted and tightened securely.
- **BROKEN FUSE HOLDER:** Unscrew top panel and look at fuse connections. If any damage seen to the fuse holder or connection.
- **FUSE HAS BURNT OUT:** Unscrew fuses (2 black rubber screws located on the exterior of the generator in-between the electrical connection and control panel connection cable). Look to see if fuse wire is broken or dark residue inside of fuse.
- **MOTHERBOARD MALFUNCTION:** Please contact Technical Support to request a new Motherboard.

CONTROL PANEL READING 02 (CONTROL CONNECTION) ERROR:

- **CONTROL CABLE CONNECTION LOOSE:** Confirm that control cable connections are tightly made by pressing together firmly.
- **CONTROL CABLE PINS BROKEN:** Confirm that the cable connections are intact and no pins are missing from the generator to extension connection or the extension to control panel extension.
- **LOOSE SHORT CONTROL CABLE:** Remove the top of the unit. Then look to see where the large grey wire runs to the mother board. Press down on white connection and snap into place.
- **DAMAGE TO CONTROL PANEL CONNECTIONS:** Inspect the grey cable that runs from the motherboard to the control panel. Check Generator Cable, Extension Cable, and the grey Control Panel Cable for kinks in the line where wiring could have broken.
- **LOOSE RELAY CONNECTION:** Check to see if all connections are completely secured on the motherboard and connection points. If any are loose, secure connection.

SAUNA SPA TROUBLE SHOOTING

CONTROL PANEL READING 05 (WATER LEVEL) ERROR:

- **WATER PRESSURE NOT SET CORRECTLY:** Confirm that the PSI going to the unit is regulated between 15-20 PSI (Most Homes can have approx. 50-100psi).
- **FLOW TO UNIT NOT REDUCED:** Reduce flow of water by closing shut-off valve on water intake line to 20% open and 80% closed.
- **WATER LEVEL SENSOR CONNECTION IS LOOSE:** Remove top panel of generator and check to see if there are loose connections on the water level sensor by removing rubber cover. If so snap into place and replace rubber cover.
- **WATER LEVEL SENSOR HAS SEDIMENT OR CALCIUM BUILDUP:** Remove Water level Sensor and check for corrosion/buildup. If there is build-up on the sensor prongs, soak for approx. 15-20 min in vinegar then wipe off the residue buildup. If the sensor is corroded, contact Technical Support to request a new Water Level Sensor.
- **SEDIMENT STUCK IN LINE:** Remove threaded line to water intake connection. Check inside of the inlet connection for sediments. If sediment found look into adding or replacing the filter and removing sediment from the inside of the connection. (Water inlet valve may need to be removed from generator for service)

GENERATOR TRIPS BREAKER:

- **INSUFFICIENT VOLTAGE:** Confirm that Voltage to the unit is 208v/220v/240v.
- **INSUFFICIENT AMPERAGE:** Confirm that Amperage to the unit sufficient (max output + 20%)
- **IMPROPER GAUGE WIRE:** Confirm gauge of wire for the electrical connection to the unit. If it is larger than the required size decrease until you are at the recommended gauge or lower. For the correct gauge size See Electrical requirements chart (page 9)

CONTROL PANEL ON WITH NO FUNCTION:

- **CONTROL CABLE PINS BROKEN:** Confirm that the cable connections are intact and no pins are missing or broken from the generator to extension connection or the extension to control panel extension.
- **CONTROL CABLE CONNECTION IS LOOSE:** Confirm that control cable connections are tightly made by pressing together firmly at xyz connections.
- **LOOSE RELAY CONNECTION:** Check to see if all connections are completely secured on the motherboard and connection points. If any are loose, secure connection.
- **DEFECTIVE MOTHERBOARD:** Faulty motherboard. Faulty motherboard; please contact Technical Support to request new Motherboard.

DECREASED STEAM PRODUCTION/ NO STEAM PRODUCTION :

- **HEATING ELEMENTS ARE CORRODED/DAMAGED:** Remove top, side, and small back access panels. Disconnect leads from the heating elements and remove the elements from the generator, and inspect the elements for corrosion or damage.
- **HEATING ELEMENTS HAVE CALCIUM OR SEDIMENT BUILDUP:** Remove top, side, and small back access panels. Disconnect leads from the heating elements and remove the elements from the generator, and inspect for build-up. Soak for approx. 15-20 min in vinegar then wipe off the residue buildup. (Buildup on elements a sign that the filter may need to be changed or added)
- **FILTRATION TO THE UNIT HAS NOT BEEN CHANGED:** Customer has not changed the filter to their unit in the recommended time frame (provided within our warranty policy). Remember that heating elements do vary depending on the wattage of the unit.
- **LOOSE WIRE CONNECTION TO HEATING ELEMENT:** Remove the panel underneath the electrical connection and the control panel power cable. Look to see that connection made at element are both properly and securely made.

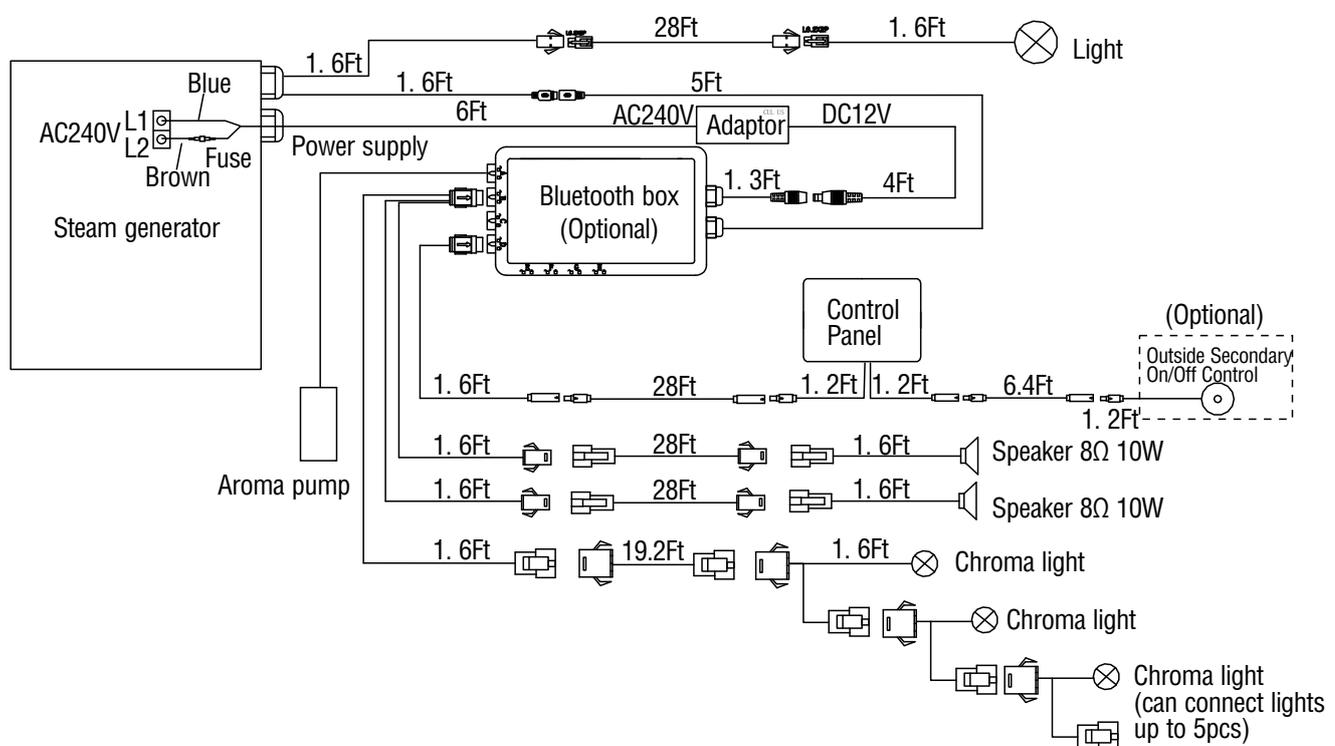
TECHNICAL PARAMETERS

Type	4.5KW	6KW	7.5KW	9KW	10.5KW	12KW
Power (KW)	4.5	6	7.5	9	10.5	12
Voltage (V)	240	240	240	240	240	240
Current (A)	19	25	32	38	44	50
Errors Range	+10%	+10%	+10%	+10%	+10%	+10%
Anti-Static Constant	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V
Insulation Resistance	>20M Ω					
Head Lamp	~12V/3W	~12V/3W	~12V/3W	~12V/3W	~12V/3W	~12V/3W
Time Set Range (min)	1-60	1-60	1-60	1-60	1-60	1-60
Steam Press (psi)	3	4	4	4	5	5
Steam Vol. (cu. in./min)	9	11	13	16	19	21
Steam Spray Time (sec)	100-180	180-240	150-210	120-180	170-230	150-160
Water Vol. (cu. in.)	80	160	160	160	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 CONNECTION DRAWING OF STEAM GENERATOR



SIZING CHART OF STEAM GENERATOR

*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.

