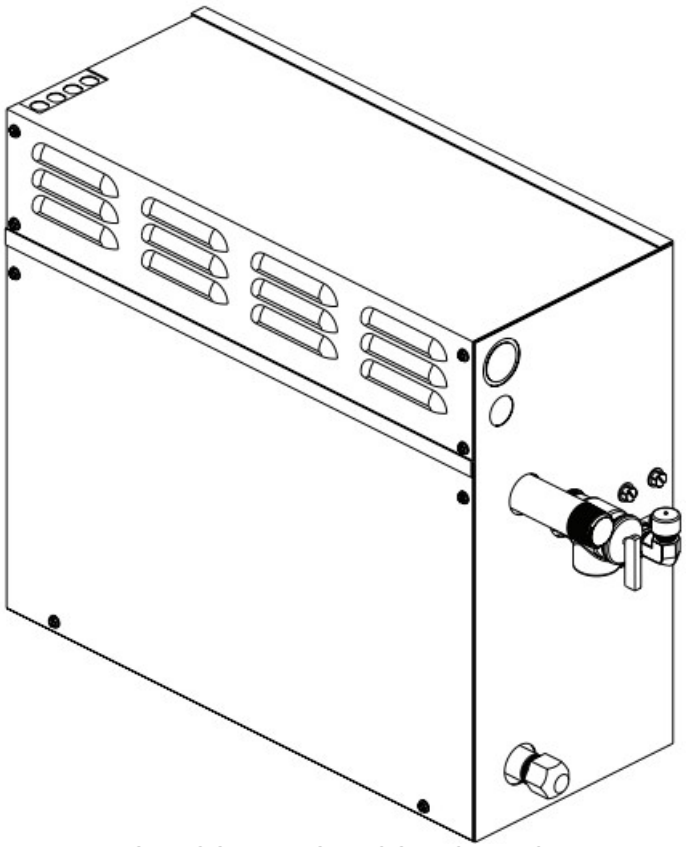


BRIZO 8GE-TSG15 Generator Instruction Manual

Contents

1 8GE-TSG15 Generator
2 Plumbing Section
3 Electrical Section
4 WARNING SIGN INSTALLATION
5 Documents / Resources
5.1 References

8GE-TSG15 Generator



8GE-TSG12 & 8GE-TSG15 SERIES
GENERATOR INSTRUCTIONS
Image is for reference only.

113090

X00113090

Model Number: _____
Serial Number: _____
Date of Purchase: _____

Register Online

www.brizo.com/customer-support/product-registration

To reference replacement parts and access additional technical documents and product info, visit www.brizo.com

1-800-355-6478

www.brizo.com/customer-support/contact-us

Read all instructions prior to installation.

CAUTION

Failure to read these instructions prior to installation may result in personal injury, property damage, or product failure. Manufacturer assumes no responsibility for product failure due to improper installation.

NOTE: A 8CH, 8CB or 8CN-600 series control and steam head is required to operate the 8GE-TSG generator. The 8GE-TSG generator operates with only 8CH, 8CB o 8CN-600 series controls and steam heads mounted inside the shower and an optional 8CN-220 exterior shower control located outside the steam room. The 8GE-TSG generator is small enough in size to be tucked away in a vanity, closet, or basement, but large enough to provide steam for most residential baths.

The 8GE-TSG generator comes factory assembled, carefully wired and tested.

Plumbing Section

STEAM ROOM GUIDELINES

1. Steam room must be completely enclosed, with full walls, door, floor and ceiling.
2. It is recommended that a gasketed door is used for steam containment.
3. To prevent slip and fall hazards, non-slip flooring or non-slip floor strips must be installed in the steam room.
4. Check the suitability of any materials with Delta Faucet Company. Walls and ceilings must be constructed of water-resistant, non-corrosive surfaces, such as tile, marble, or other non-porous material. Avoid the use of plastic which may not be rated for the 212°F temperature of the steam exiting the steam head.
5. The ceiling should be sloped to minimize dripping of condensation. The recommended slope is 2” per foot.
6. Provide a floor drain.
7. No heating, venting or air conditioning devices should be installed inside the steam room.
8. Windows that are part of the steam room should be double paned and tempered safety glass.
9. For optimum performance, limit steam room ceiling height to 8 feet. Exceeding 8 feet may require a higher-rated steam generator.

NOTE: Max. ceiling height is 10 feet.
Pre-Installation

1. Be sure that the proper size Steam Generator has been selected by using the sizing page in the Full Line Brochure, Pricing Guide, The Generator Sizing Guide,
   The Configurator Tool Guide, Architectural Guidelines, or in the Residential Systems/Steam Bath Product Information section of the Brizo website – **www.brizo.com**.

   ⚠ CAUTION

   An improperly sized Steam Generator may NOT produce the amount of steam necessary to reach selected temperature.
2. For optimum performance, the Steam Generator should be located as close as possible to the Steam room, Shower or tub enclosure using a 3/4” copper pipe (1/2” copper pipe is also acceptable, but not preferred due to the potential for increased system noise). If the steam pipe exceeds ten feet, it should be insulated using appropriate pipe insulation rated for a minimum of 212º F. For optimum performance, the steam pipe should be less than 25 feet long. Maximum steam pipe distance should not exceed a total of fifty linear feet. Refer to Installation Suggestions.

   ⚠ CAUTION

   Do NOT install near flammable material such as paints, thinners, gasoline, etc.

   ⚠ CAUTION

   Steam generators must NOT be installed outdoors, in moist, humid areas, in areas prone to freezing, or in extreme heat such as an unventilated attic. To do so will void the warranty.
3. The steam line and safety valve reach a temperature of 212°F during operation and should be appropriately protected to prevent personal injury by accidental contact and routed properly to prevent property damage..

Plumbing Rough-in

1. Plumbing is required for the water supply and steam line. This should be completed before the walls are closed. For operation, the 8GE-TSG12 & 8GE-TSG15 Series generators requires a 3/8” O.D. copper tubing to the fitting on the Generator for water inlet and a 3/4” copper or brass pipe for steam outlet.
   NOTE: Pressure Safety Valve should be connected to a minimum 3/4” indirect waste or as required by local plumbing codes. In the event this valve should open, the discharge must be directed to prevent damage to the home.
2. Water Inlet – Rough in a water line, 120 PSI max, to the hot or cold (preferred) supply. A shut off valve with a 3/8” connection to the steam generator is to be provided at the generator location (see Figure 3).
3. Steam Outlet – Rough in the steam line using a 3/4” copper or brass pipe. Do NOT use black iron or galvanized pipe, as it will rust and discolor the wall of the steam bath. Do NOT use any plastic type pipe or fittings. The steam head location should be 12” to 18” above the shower floor or 6” above the rim of the bathtub, and should be as far from the seating area as possible.

⚠ CAUTION

No shutoff valve can be installed in the steam line. Do NOT create traps or valleys in this line which would trap condensation and block the flow of steam. The steam pipe should be pitched allowing condensation to run back toward the Steam Generator (preferred), or toward the steam head.

Steam Generator Installation

The Steam Generator should be mounted in a location convenient for hook-up and service by the plumber and electrician.

⚠ CAUTION

The Steam Generator is designed to be used ONLY in an upright and level position. To do otherwise would damage the unit and void the warranty.

1. The Steam Generator can be mounted to a wall or set on the floor. However, the unit must be secured. To secure the unit to a vertical wall, loosen the two screws holding the electrical access cover. Remove cover. Located inside the cabinet near the top left and right corners are mounting holes. Place top cover back and secure.
2. Connect the 3/8” water inlet to a shut off valve as described in Plumbing rough-in step 2 (above). The valve must be kept in an open position during normal operation. In an area where water hammer is a problem install a water hammer arrestor (not supplied) in the line.
   IMPORTANT: Do NOT use a “saddle valve” or piercing type valve for water connection.
3. Connect the steam line from rough-in location described in Section 2 to the 3/4” nipple on the Steam Generator using a union (not supplied).

Figure 2 – Plumbing Diagram

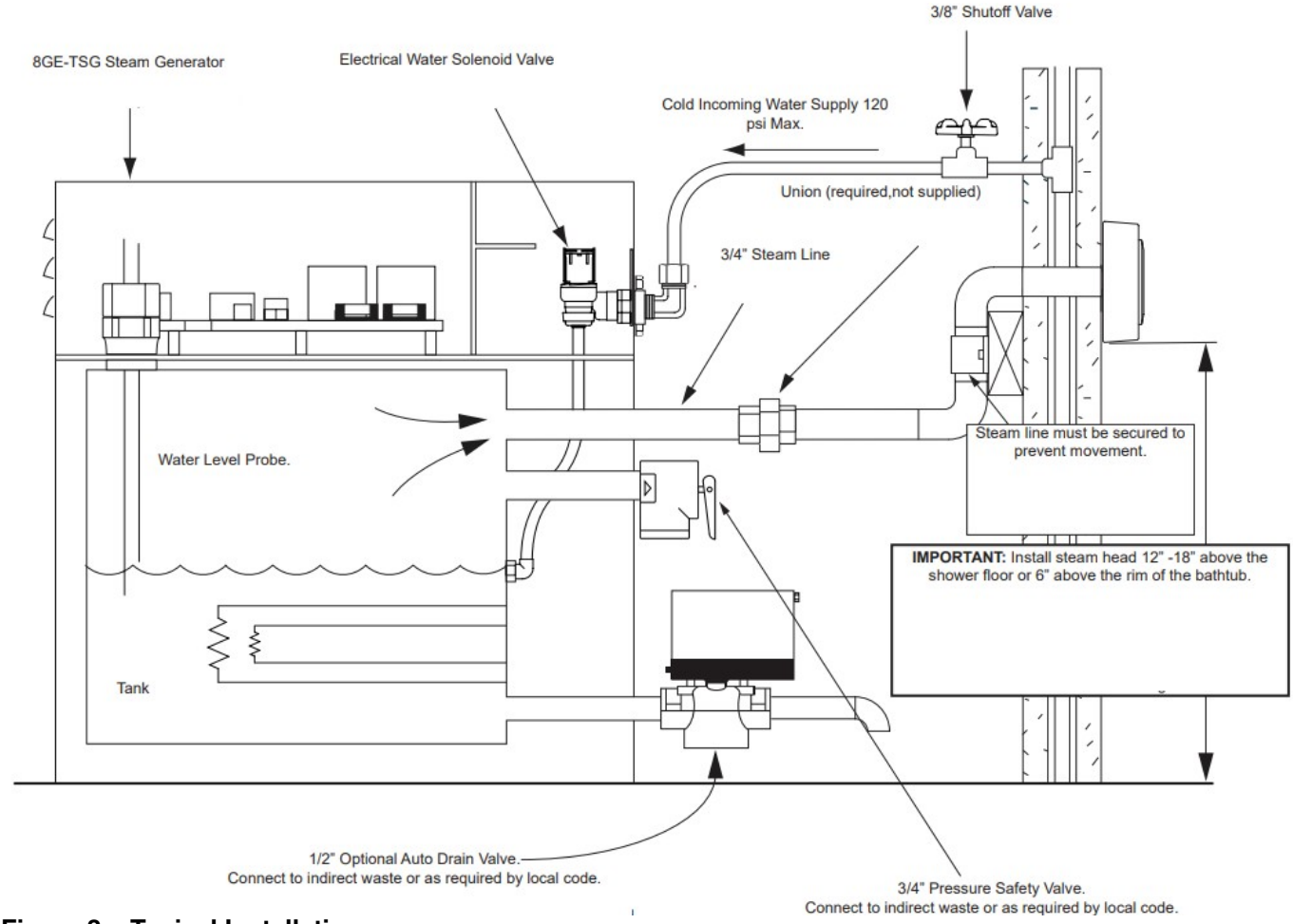
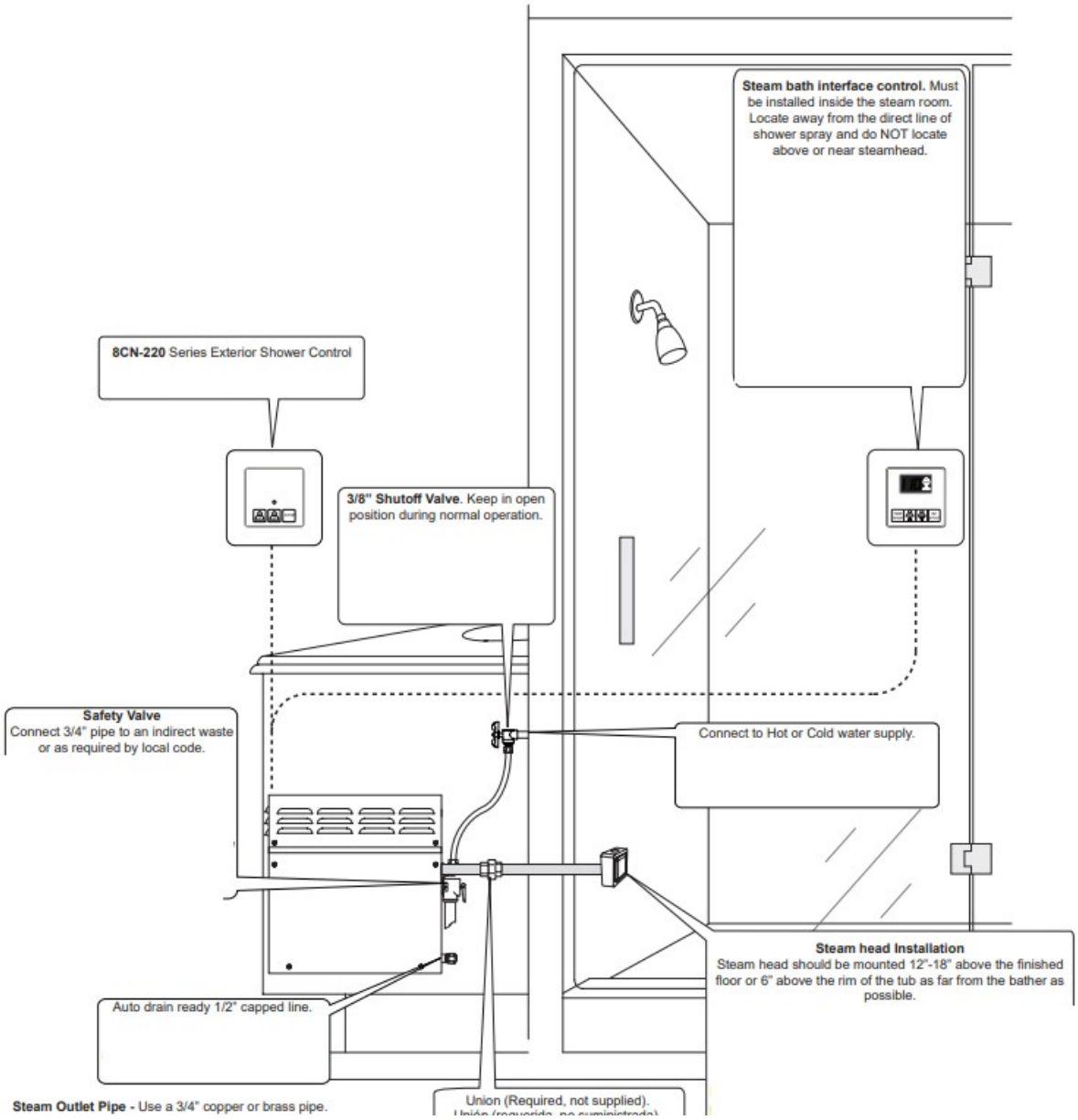


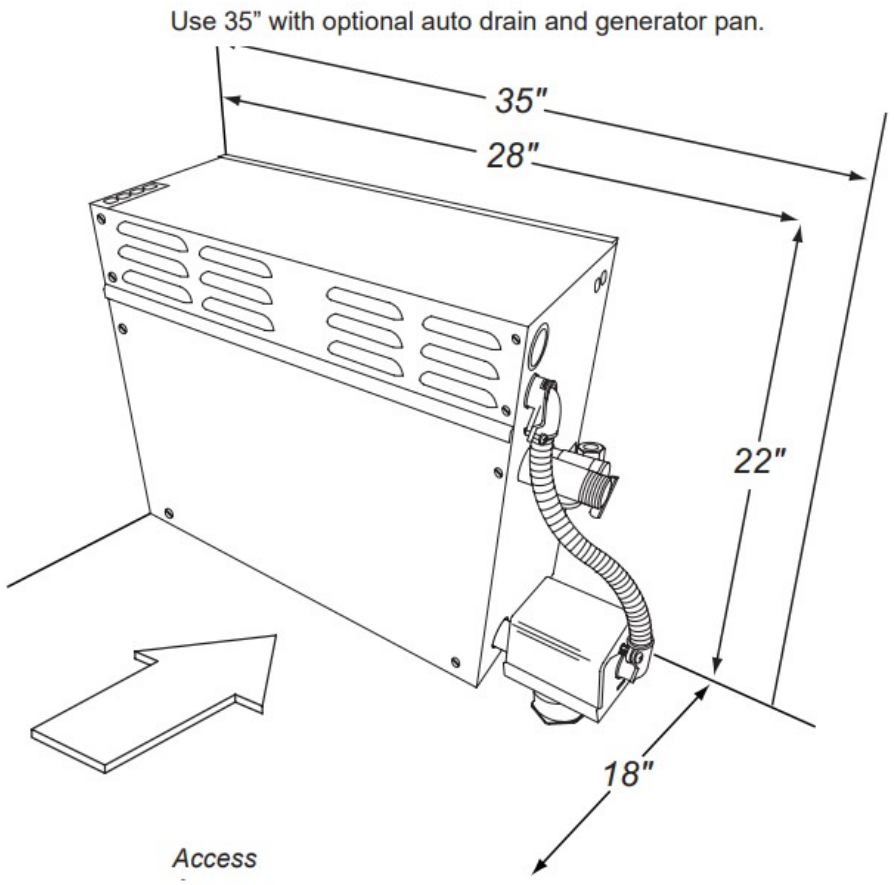
Figure 3 – Typical Installation



CAUTION

Do NOT install a shutoff valve on the steam outlet pipe. Do NOT create traps or valleys in this line which would prevent the flow of steam. The steam outlet pipe should be pitched toward the steam generator (preferred), allowing condensation to run back into the steam generator or toward the steam head. If the steam pipe exceeds ten feet, use an appropriate pipe insulation rated for a minimum of 212° F.

Figure 4



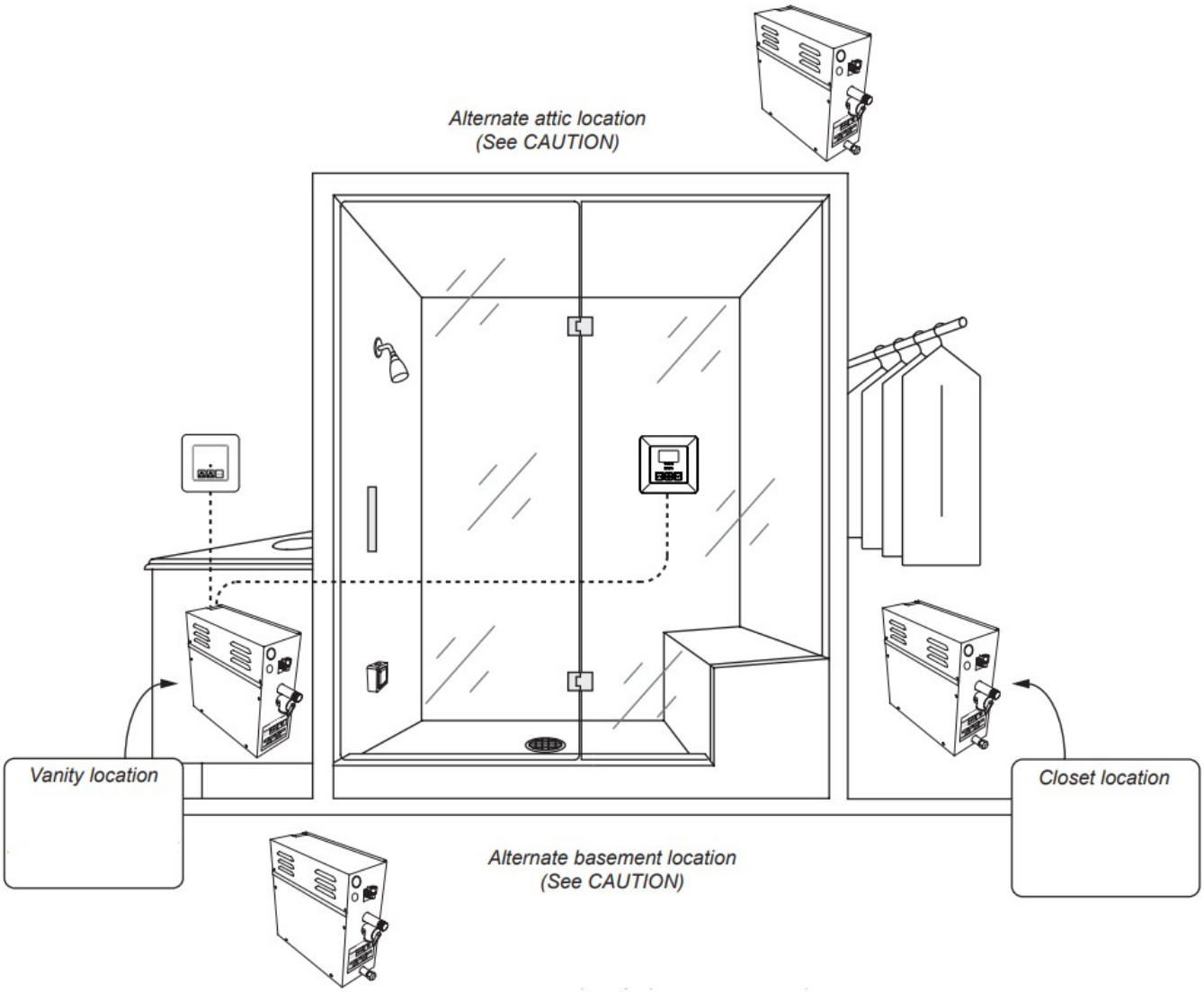
Select a location for mounting the steam generator that is accessible for installation and service. The access requirement indicates the minimum space for convenient access to steam generator.

⚠ CAUTION

Steam generators must be located indoors, in an area where the temperature is limited to 50° F – 104° F. Steam generators must NOT be installed outdoors, in moist, humid areas, in areas prone to freezing, or in extreme heat such as an unventilated attic. To do so will void the warranty.

IMPORTANT: Steam generator must be installed upright and level. The serial number info should be visible and the steam generator should be accessible for service.

Installation Suggestions



⚠ CAUTION

Steam generators must be located indoors, in an area where the temperature is limited to 50° F – 104° F. Steam generators must NOT be installed outdoors, in moist, humid areas, in areas prone to freezing, or in extreme heat such as an unventilated attic. To do so will void the warranty.

Electrical Section

Checklist

Before starting, ensure that the conditions of the following checklist have been met:

- The proper size steam generator has been selected by using the sizing page in the full line brochure, pricing guide, configurator tool or the generator sizing guide in the residential system/ steam bath product information section of the website-www.Brizo.com

  ⚠ CAUTION

  An improperly sized Steam Generator will NOT produce the amount of steam necessary to reach selected temperature.
- The proper voltage steam generator has been selected (i.e., 208V, 220V or 240V). A 208V generator operating on 240V will damage the heating element, and a 240V generator operating on 208V will result in a 25% loss of power.
- The steam generator is installed in an upright position.
- The proper sized 90° C copper wire and circuit breaker have been used.

- The circuit breaker is NOT a GFI (ground fault interrupter) type.
- The steam generator is properly grounded.
- The circuit breaker or disconnect switch is on.
- Water supply is open to the steam generator.

Pre-Installation

1. Proper electrical supply (208, 220 or 240 Volt): See rating label on Steam Generator and Chart on page 14. Determine proper size of wire, voltage, amperage, and phase for the Steam Generator. 90°C copper wire is required for generator connection.
2. In-line fuse/circuit breaker required: Fuse/circuit breaker to be installed must be sized in accordance with chart on back page. Do NOT install a GFI (Ground Fault Interrupter) to this equipment (per article 210-8 in the National Electric Code).
3. Route power supply cable to the location where the Steam Generator will be installed (before walls are closed).

Electrical Rough-in

1. Route appropriate power cable to the location the steam generator will be installed. If receptacle is desired, mount the box for the receptacle near the location of the steam generator.
   NOTE: The plug and receptacle require a rating of no less than 250v and proper amperage. Refer to chart on page 14 for amperage rating. After the walls are complete, the steam generator and control can be wired.

Steam Generator Electrical Installation

WARNING
All power to the Steam Generator must be turned off during installation.

1. Remove the two screws holding the electrical access cover and remove cover.
2. Locate the supply line knockout. Mount proper strain relief into knockout hole.
3. Strip back power cable's outer insulation jacket eight inches and insert into steam generator. Strip back insulation ½" from the three (3) incoming wires (two power and one ground).
4. Insert ground wire into grounding lug located on the right side of the electrical compartment and secure.
   WARNING
   Be sure the ground wire does not come in contact with a live electrical part.
5. Locate the terminal/fuse block in the upper portion of the electrical compartment. Insert power wires into the power lugs on the front of the terminal/ fuse block and secure.

Optional Auto Drain Valve Connection

1. Open knockout for auto drain valve conduit connection.
2. Route flexible conduit from valve to knockout and secure.
3. Connect two wires from valve to the auto drain connection J11 on the printed circuit board (see Figure 2).

Ganging Multiple Steam Generators
IMPORTANT: When ganging 2 to 4 steam generators together an additional steam head and control cable must

be purchased for each additional generator.

1. Locate the control cable knockout at top of steam generator. Mount proper strain relief into knockout hole (see Figure 3).
2. Route control cable from any one of the 3 modular jacks located on the circuit board to the steam generator to be ganged (see Figure 3).
3. Set DIP switches on each additional steam generator's main PCB as shown in the gangable generators chart (see Figure 3).

Internal Electrical Connection

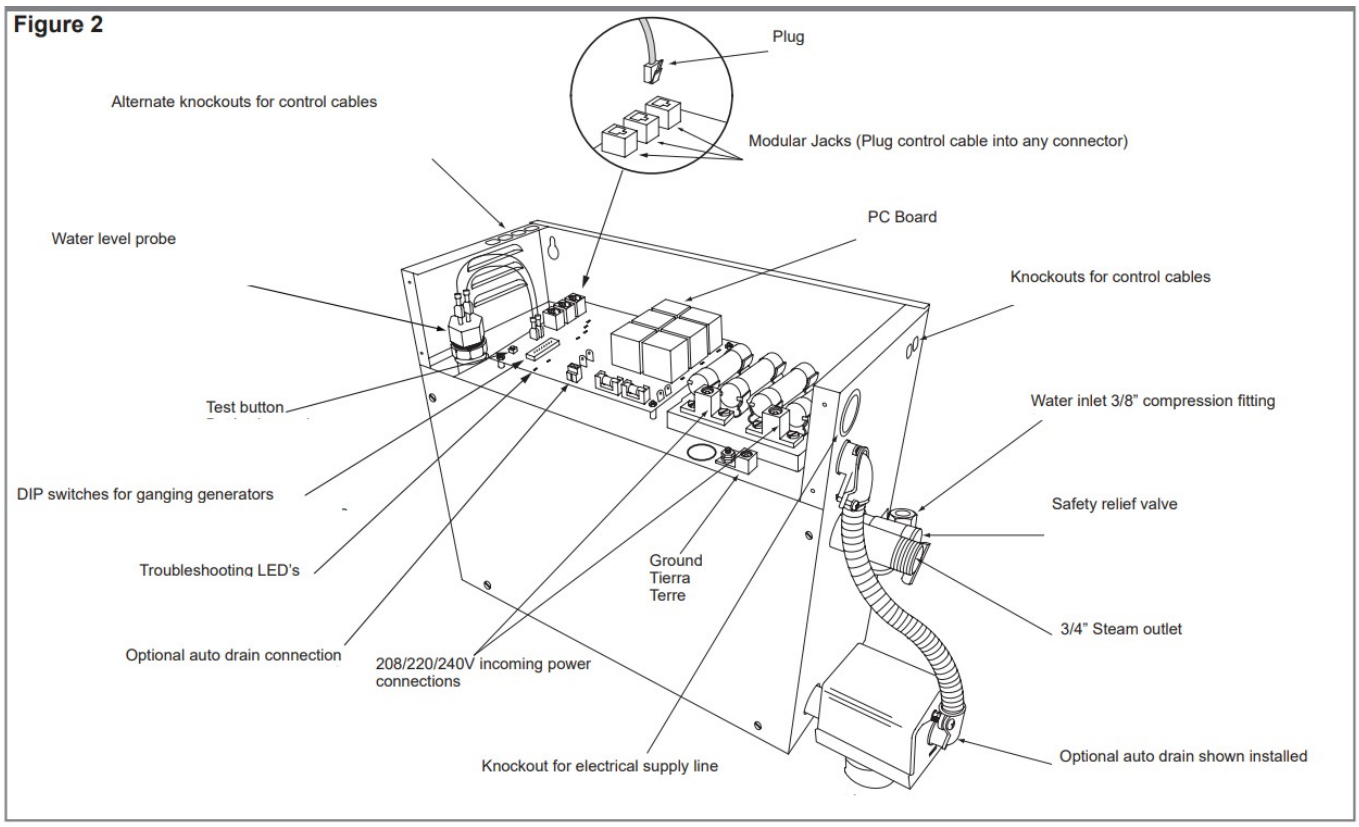
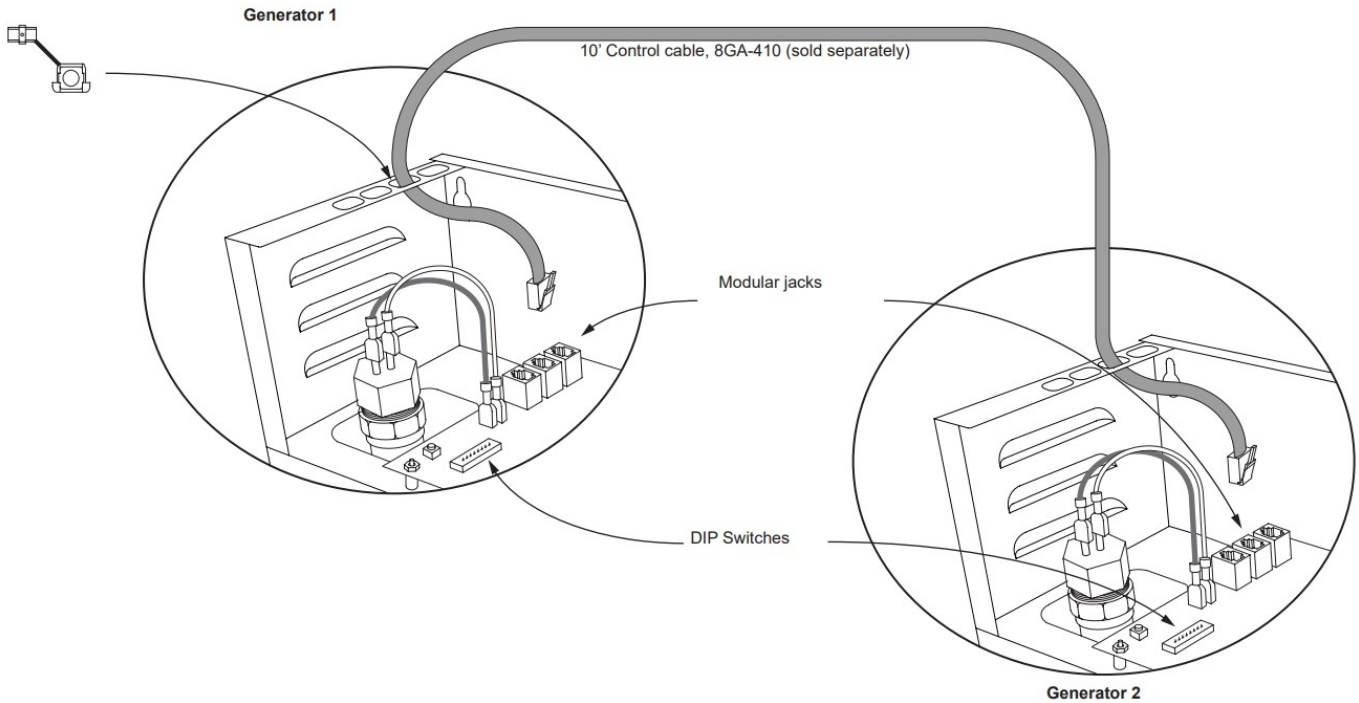
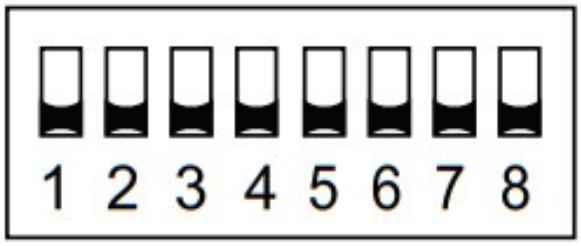


Figure 3 – Ganging Steam Generators (when applicable)

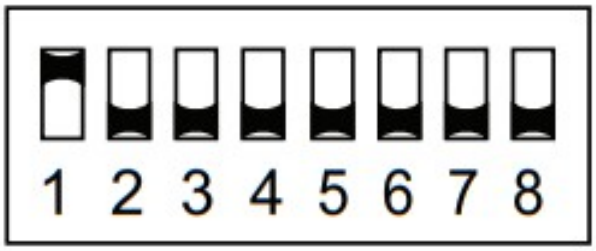


S1 DIP switch settings for multiple steam generators on processor board:

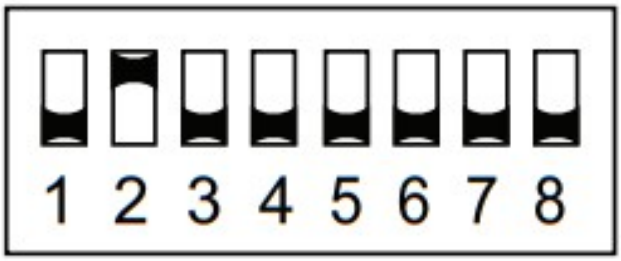
Generator 1:
All switches to the left (Factory default setting)



Generator 2:
Set switch 1 to the right



Generator 3:
Set switch 2 to the right



Generator 4:
Set switches 1 & 2 to the right

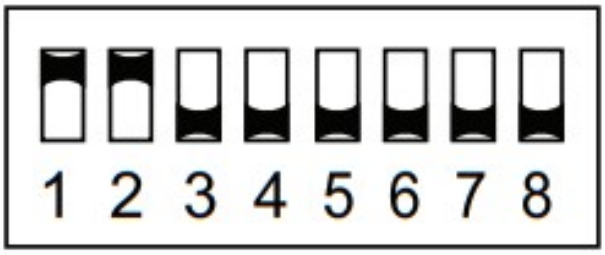
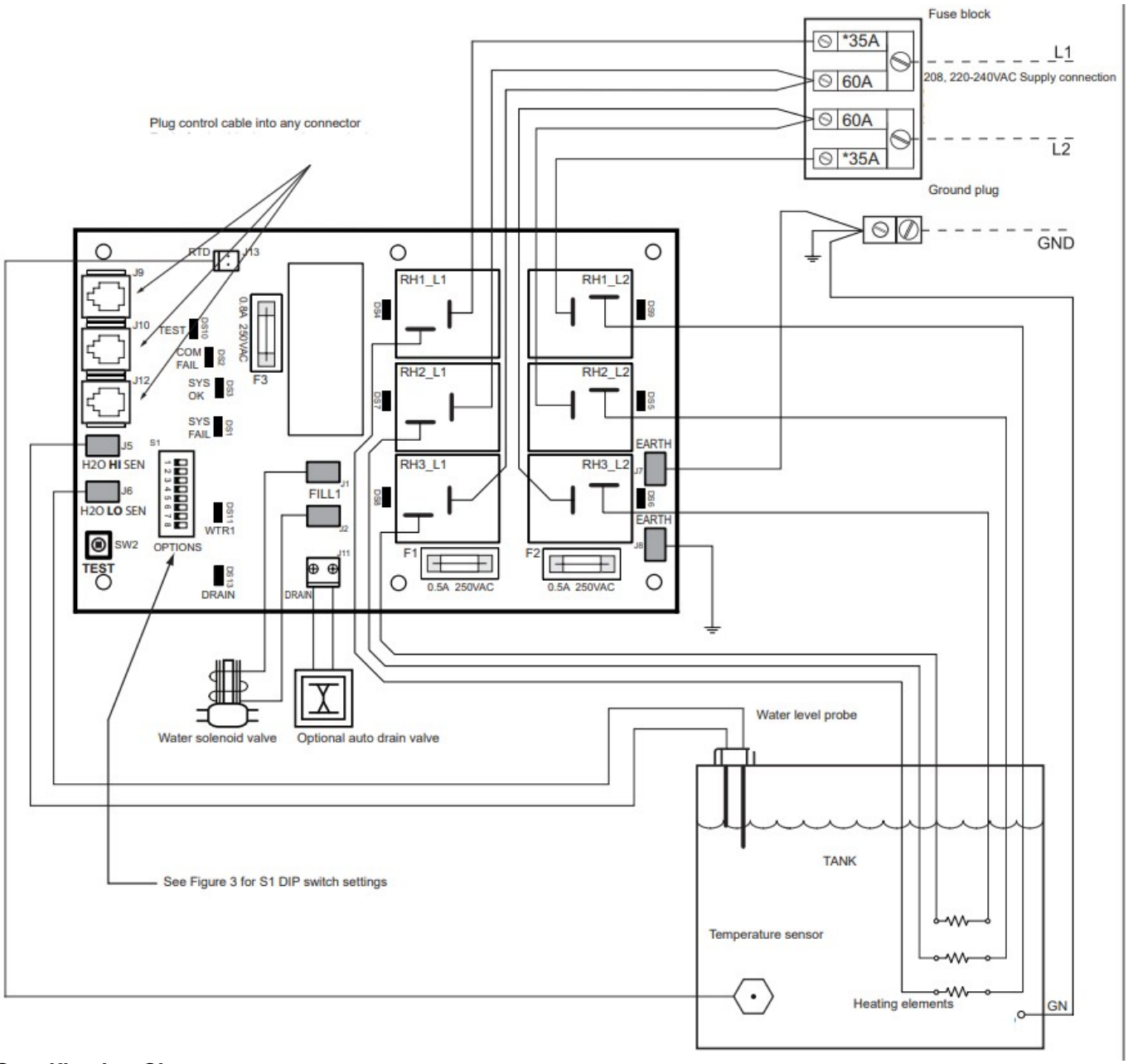


Figure 4 – Wiring Diagram
*8GE-TSG series generator 240V/220V uses 40A fuse and 208V uses 50A fuse.

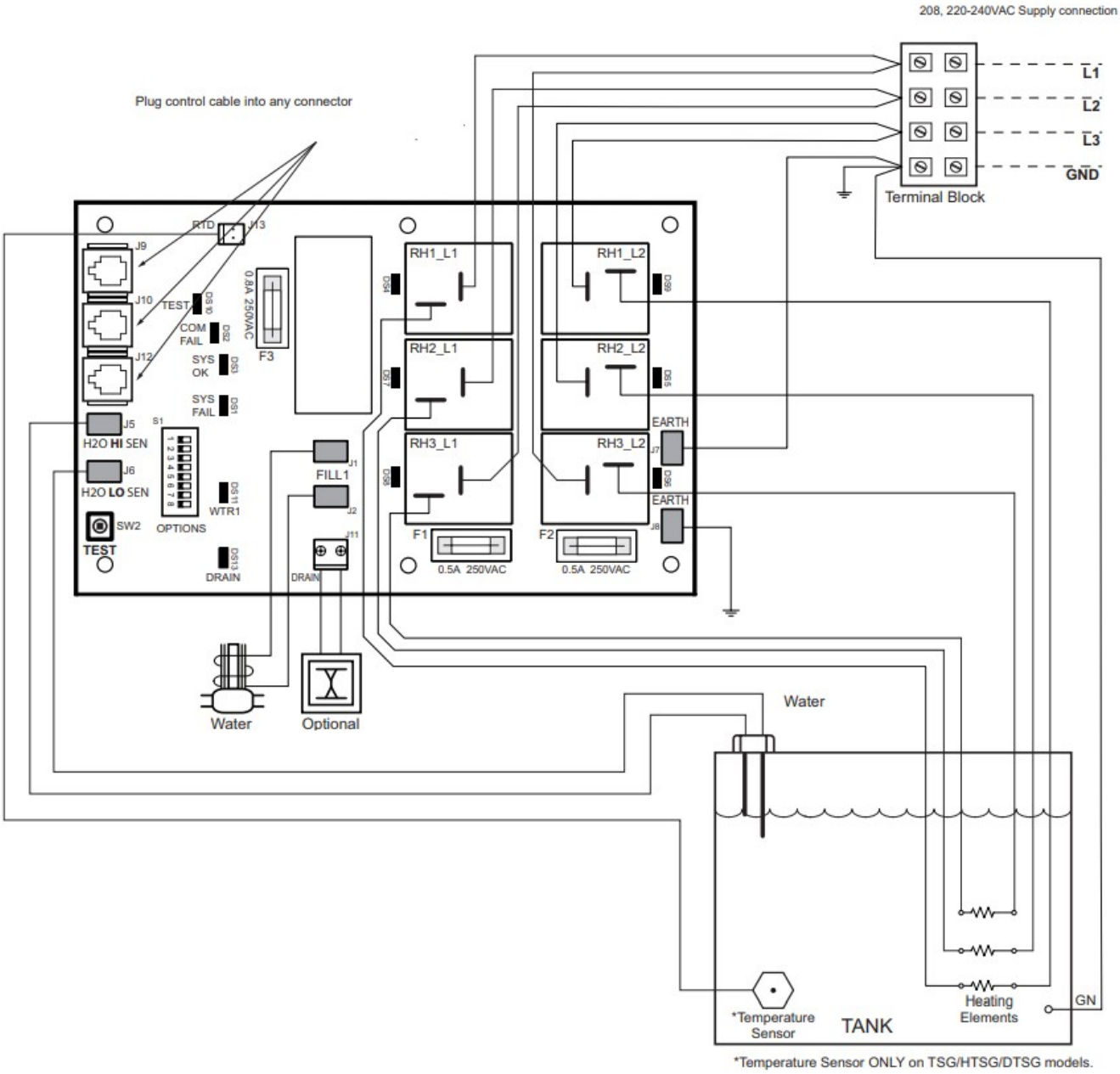


Specification Chart

Model No.	Max. Cu. Ft. For Area U p To	KW	Volt	Phase	Amps	Breaker Size
8GE-TSG12-240-1 8GE-TSG12-208-1 8GE-TSG12-208-3 8GE-TSG12-220-1	550	12	240 208 208 220	1 1 3 1	50 58 33 55	60 70 40 70
8GE-TSG15-240-1 8GE-TSG15-208-1 8GE-TSG15-208-3 8GE-TSG15-220-1	675	15	240 208 208 220	1 1 3 1	63 72 42 68	80 90 50 80

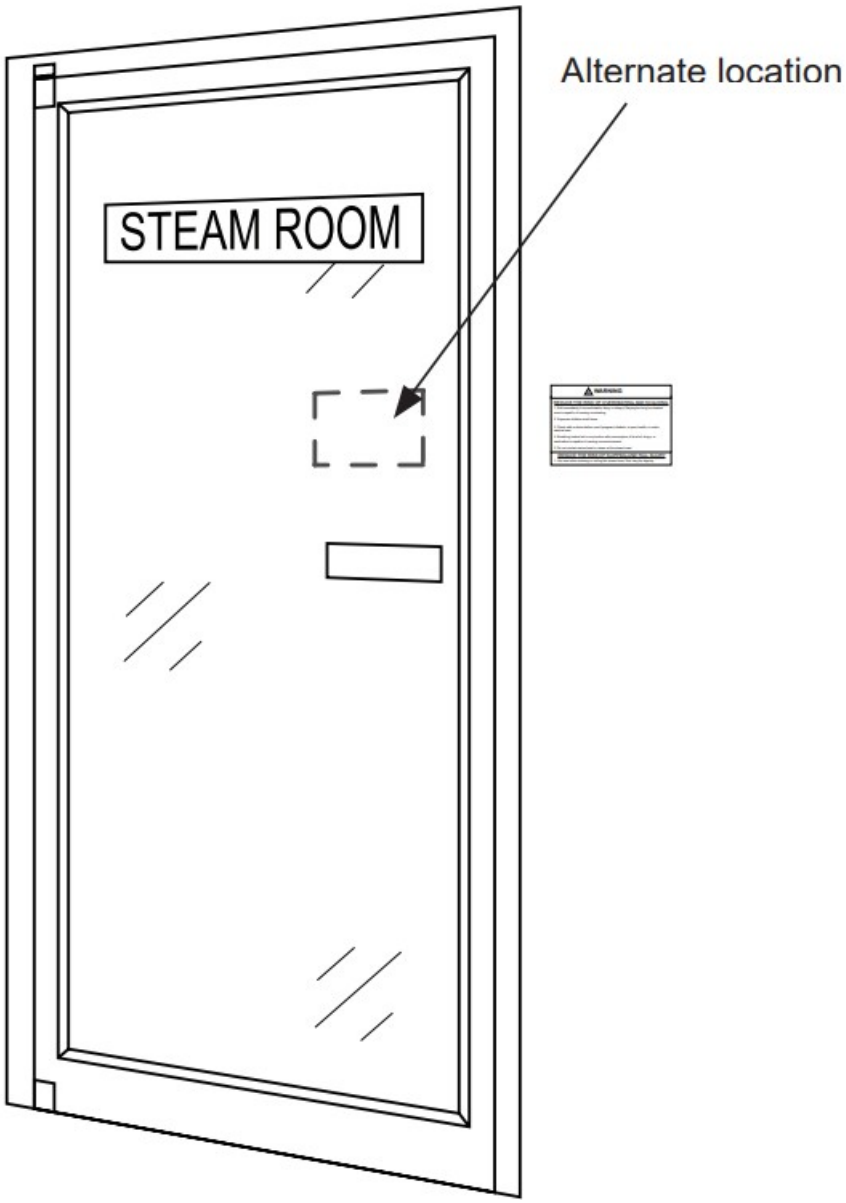
90° C copper wire is required for generator connection. Installation shall be in accordance with applicable electrical codes.

Figure 5 – Wiring Diagram – Three Phase



WARNING SIGN INSTALLATION

Commercial use:
The warning sign must be permanently installed on the steam room door or the wall immediately adjacent to the steam room.
Residential use:
The temporary warning label is to be applied after installation on the steam room door or the wall immediately adjacent to the steam room. Contact us for a permanent sign as required for non-private residential installations.



WARNING
REDUCE THE RISK OF OVERHEATING AND SCALDING

1. EXIT IMMEDIATELY IF UNCOMFORTABLE, DIZZY, OR SLEEPY. STAYING TOO LONG IN A HEATED AREA MAY CAUSE OVERHEATING.
2. SUPERVISE CHILDREN AT ALL TIMES.
3. CHECK WITH DOCTOR BEFORE USE IF PREGNANT, DIABETIC, IN POOR HEALTH, HAVE HIGH OR LOW BLOOD PRESSURE, HEART CONDITION OR UNDER MEDICAL CARE.
4. BREATHING HEATED AIR IN CONJUNCTION WITH CONSUMPTION OF ALCOHOL, DRUGS, OR MEDICATION MAY CAUSE 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.

Limited Warranty on Brizo® Steam Bath and Steam Shower Products Applicable to products purchased and installed in the USA and Canada

Residential Steam Bath Generators: Brizo Kitchen and Bath Company ("Brizo") warrants to the original consumer purchaser that the parts (except for electronic parts) of its residential steam bath generator purchased from authorized Brizo sellers will be free from defects in materials and workmanship for as long as the original consumer purchaser owns the home in which the steam bath was originally installed. This lifetime limited warranty does not apply to residential steam bath generators that are used in commercial applications (as defined herein).

Residential Electronic Parts, Controls, Spa Options and Accessories: Brizo warrants to the original consumer purchaser that the electronic parts of its steam bath generator and its controls, spa options and accessories purchased from authorized Brizo sellers will be free from defects in materials and workmanship for a period of two (2) years from the date that the product is received by the original consumer purchaser or their authorized representative (installation contractor, etc.).

This two-year limited warranty does not apply to controls, spa options, electronic parts and accessories that are used in commercial applications (as defined herein).

Residential Shower Valve Model R80000E: DFC warrants to the original consumer purchaser that its residential shower valve model R80000E (except for electronic parts) purchased from an authorized Brizo seller will be free from defects in materials and workmanship for a period of five (5) years from the date of purchase.

Commercial Warranty: For the purposes of this warranty the term "commercial application" refers to installation in any setting in which the product is not being used for personal household use, including, but not limited to, hospitality applications, day spas and short-term and long-term rentals. Brizo warrants that the parts (including electronic parts) of its steam bath generators (including steam bath generators with model numbers beginning with 8GE that are 7.5kW-15kW), equipment, controls, electronic parts, spa options and accessories purchased from authorized Brizo sellers and used in a commercial application will be free from defects in materials and workmanship for a period of one (1) year from the date that the product is received by the original purchaser or their authorized representative (installation contractor, etc.).

What We Will Do: Brizo will, at its option, repair or replace, free of charge, any part that proves defective in material and/or workmanship under normal installation, use and service during the applicable warranty period as stated above. Brizo may elect to refund the purchase price. Replacement parts are subject to availability and may differ from those originally supplied. For residential applications, two (2) years following the date that the product was received by the original consumer purchaser or their authorized representative (installation contractor, etc.), or for five (5) years for the residential shower valve model R80000E, and with prior approval by Brizo, Brizo will pay for labor for repair/replacement associated with warranty coverage.

Thereafter, Brizo will not pay for labor associated with removal/repair/replacement of products covered by this warranty.

For commercial applications, Brizo will, with prior approval by Brizo, pay for labor associated with warranty coverage for ninety (90) days from the date that the product is received by the original purchaser or their authorized representative (installation contractor, etc.). Thereafter, Brizo will not pay for labor associated with removal/repair/replacement of products covered by this warranty. These are the consumer's exclusive remedies.

What Is Not Covered: Because Brizo is unable to control the quality of Brizo products sold by unauthorized sellers, unless otherwise prohibited by law, this warranty does not cover Brizo products purchased from unauthorized sellers.

This warranty does not cover damage caused by improper or negligent installation or use. Provided that Brizo is paying the cost of the labor under the terms above, this warranty does not cover repairs attempted by any person other than an authorized Brizo agent and shall be limited to the repair or replacement of defective parts by Brizo or its authorized agent.

This warranty is void if any of the following should occur:

- The use of the product for an unintended application, including a commercial application for all products except those products for which a commercial application is appropriate.
- Failure to follow instructions, including care, cleaning and usage instructions, provided in the product's owner's manual.
- The product's serial number has been altered or removed.
- The product is modified in any manner which Brizo concludes, after its inspection, affects the reliability of the product.
- The product has been improperly repaired by anyone not specifically designated or authorized by Brizo.
- The product is damaged because it is not operated or installed in accordance with supplied instructions.
- The product is installed outdoors.

- The product is installed in a moist and/or humid area with unconditioned air or temperatures that exceed 104 degrees Fahrenheit.
- The product is damaged due to freezing.
- The product is damaged by acts of God.

How to Make a Warranty Claim: To obtain warranty repair or replacement, contact Brizo at: 800-355-6478 or steamprodserv@brizo.com to receive an RGA# (Return Goods Authorization number) which must be on the carton that is returned via UPS Ground or equivalent. Proof of purchase (original sales receipt showing purchase date) identifying the model and serial number and documentation of the date of receipt of the product by the original purchaser or their authorized representative (installation contractor, etc.) must accompany all warranty claims.

Limitation on Duration of Implied

Warranties: Please note that some states/provinces (including Quebec) do not allow limitations on how long an implied warranty lasts, so the below limitations may not apply to you.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE STATUTORY PERIOD OR THE DURATION OF THIS WARRANTY, WHICHEVER IS SHORTER.

Limitation of Special, Incidental or Consequential Damages: Please note that some states/provinces (including Quebec) do not allow the exclusion or limitation of special, incidental or consequential damages, so the below limitations and exclusions may not apply to you.

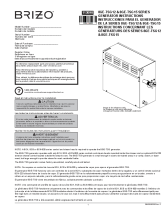
TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS WARRANTY DOES NOT COVER, AND BRIZO SHALL NOT BE LIABLE FOR, ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHETHER ARISING OUT OF BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, TORT, OR OTHERWISE.

Additional Rights: This warranty gives you specific legal rights, and you may also have other rights which vary from state/province to state/province.

This is Brizo's exclusive written warranty and the warranty is not transferable.

BRIZO®

Documents / Resources

	BRIZO 8GE-TSG15 Generator [pdf] Instruction Manual 8GE-TSG12-208-3, 8GE-TSG15, 8GE-TSG15 Generator, Generator

References

- Brizo

- Brizo
- Contact Us : Customer Support : Brizo
- Product Registration : Customer Support : Brizo
- User Manual

Manuals+, Privacy Policy