

## Plumbing Installation Instructions



**WARNING:** Elderly persons, pregnant women, or those suffering from heart disease, high blood pressure, diabetes, or who are otherwise not in good health, do not use this device unless directed to do so by a physician. Also, do not use steambath while under the influence of alcohol.

**IMPORTANT:** the warranty of this product is voided if it is used in a commercial application or for anything other than a residential steambath installation.

The Steamist "SM" Generator comes factory assembled, carefully wired and tested.

The Plumbing Installation must conform to local and national codes. All electrical power should be turned OFF when working with Steam Generator.

### 1. Pre-Installation

- 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," "Architectural Guidelines," or in the Residential Systems/Steambath Product Information section of the Steamist web site - [www.steamist.com](http://www.steamist.com).

**CAUTION:** An improperly sized Steam Generator may NOT produce the amount of steam necessary to reach selected temperature.

**IMPORTANT:** Refer to page 4 for model required for cubic foot rating.

- The Steam Generator should be located as close as possible to the Steam Room/Shower or tub enclosure. Steam pipe should NOT exceed twenty-five feet in length. If the steam pipe exceeds ten feet, use an appropriate pipe insulation rated for a minimum of 212°F. Possible locations include Vanity, Closets, Attic (insulated), or Basement near bath area. The serial number plate should be visible and the Steam Generator should be accessible for service. Refer to Installation Suggestion on the page 4. Do NOT install Generator outdoors, in a moist humid area, or in an area where parts may freeze or corrode. Also, do NOT install near flammable materials such as paints, thinners, gasoline, etc.
- 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.

### 2. Plumbing Rough-In

Plumbing rough-in is required for the water supply and steam line, this should be completed before the walls are closed. For operation, the "SM" Steam Generator requires a 3/8" O.D. copper tubing to the fitting on the generator for water inlet and 3/4" copper or brass pipe for steam outlet.

**NOTE:** Safety Valve should be connected to a minimum 3/4" indirect waste or as required by local plumbing codes. In the unlikely event this valve should open, the discharge must be directed to prevent damage to the home.

- Water Inlet** - A water line should be roughed-in from existing 1/2" hot or cold water pipe. Using a 1/2" x 3/8" tee, cut and solder tee into the existing water line. (See Figure 3 on page 3). Solder a piece of 3/8" copper tubing into tee. Rough-in for water supply is now complete.
- Steam Outlet** - Rough-in the steam line using a minimum of a 3/4" copper or brass pipe, do NOT use black iron or galvanized pipe, it will rust and discolor the wall of the steam bath. The steamhead location should be 18" above the shower floor or 6" above the rim of the bathtub, as far from the seating area as possible.

**CAUTION:** No shut-off 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 toward the Steam Generator allowing condensation to run back toward the Steam Generator (preferred), or toward the steamhead.

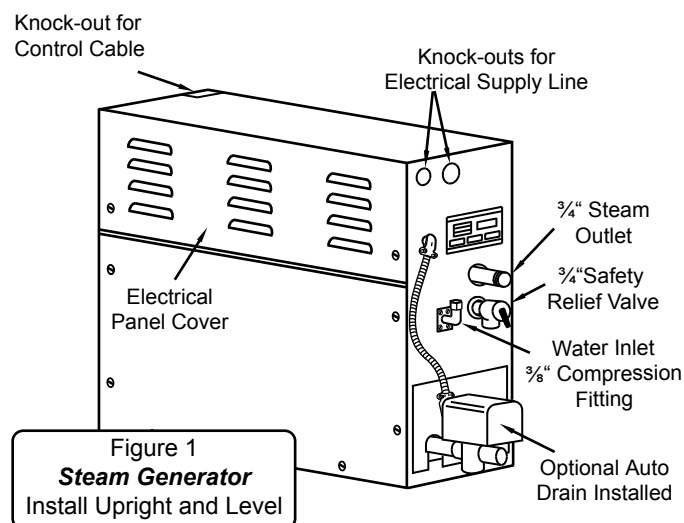


Figure 1  
**Steam Generator**  
Install Upright and Level

### 3. 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.

- 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 (see Figure 1). Located inside the cabinet near the top left and right corners are mounting holes. Place top cover back and secure.
- Connect the 3/8" water supply, described in Section 2 to the Steam Generator by first soldering a 3/8" valve into the previously installed water line. The valve must be kept in an open position during normal operation. In areas where high water pressure may be a problem a water hammer arrestor or a pressure regulator should be installed. Complete water supply by connecting 3/8" copper tubing from the valve to the water inlet compression fitting. Refer to Plumbing Diagram below.

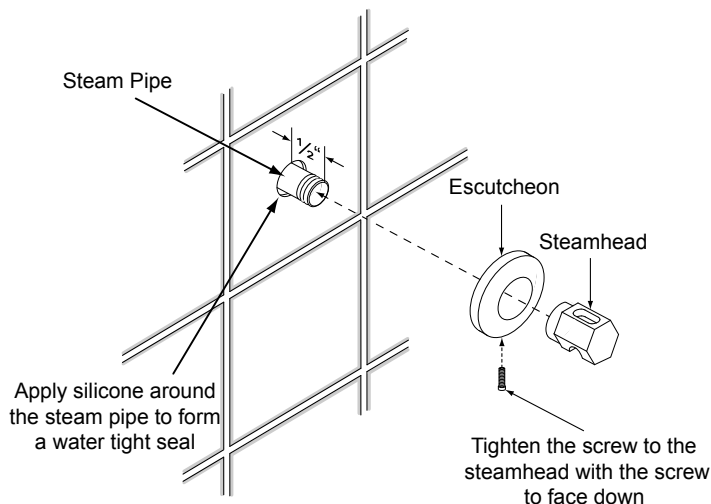
**IMPORTANT:** Do NOT use a "saddle valve" or piercing type valve for water connection.

- Connect the steam line from rough-in location described in Section 2 to the 3/4" nipple on the steam generator using a union.
- In the shower, place the center of the escutcheon onto the steam pipe and screw the steamhead into place. Care must be taken not to scratch the steamhead or escutcheon with wrench. Be sure the steam slot in the steamhead is facing down. After the plumbing connections are complete the electrician may finish wiring the unit.

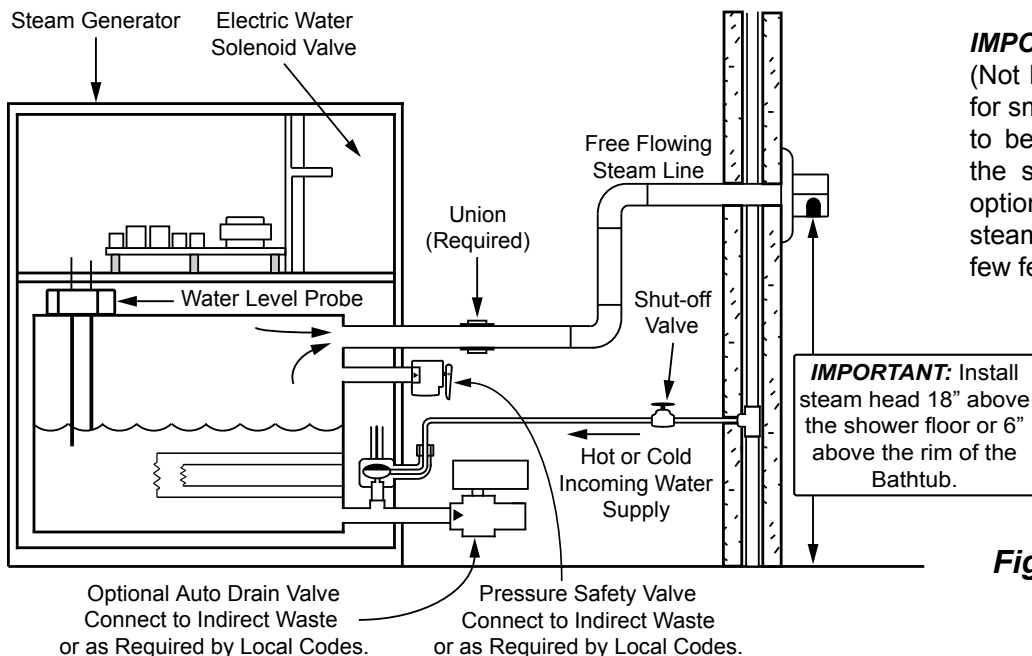
### Installation Instruction for Steamhead & Escutcheon

(Supplied with control package)

- Be sure the steam pipe is installed with the proper length pipe protruding through the wall.
- Apply silicone sealant around the pipe to seal the pipe to the wall.
- Slip the Escutcheon over the steamhead loosely.
- Screw on the steamhead making sure the steam opening is facing down.
- Hold the Escutcheon against the wall and tighten the retaining screw facing down.



**WARNING:** When installing a steam pipe into a steam room made out of Acrylic, Cultured Marble, Corian, Swanstone, Resin, Plastic or an equivalent type of material, consult the manufacturer of the material for their recommendation on location of the steam pipe. Verify that the type of material used for the construction of the steam room is rated for a steam room environment. When installing a steam pipe, in the mentioned material type rooms, it is very critical in making sure that when the steam pipe protrudes into the steam room that it is centered in its 1 1/4" hole and does not touch the edge of the wall material around the steam pipe.



**IMPORTANT:** An optional steam diffuser (Not Included) is strongly recommended for small steam rooms. This option helps to better diffuse the steam and makes the steambath more comfortable. This option may not be necessary in larger steam rooms where the bather is sitting a few feet away from the steamhead.

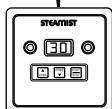
**Figure 2: Plumbing Diagram**

**WARNING:** When installing the Steamist Unit in conjunction with an acrylic modular tub/shower unit, please consult the “**manufacturer of the module**” for location of the steamhead.

The Plumbing Instructions must be given to the homeowner for future use.

Slope ceiling 2" per foot

**Outside Installation**  
TC-110 or  
DSP Timer Only



TC-135, DSC-425, and  
DSP Temperature Control  
**MUST** be installed inside  
the Steam Room.



**3/8" Shut-off Valve**  
Keep in open position during  
normal operation.

1/2" x 1/2" x 3/8" Tee.  
Using existing Hot or  
Cold water supply.

**Steamhead Installation**  
Steamhead should be mounted  
18" above the finished floor or  
6" above the rim of the tub as  
far from the bather as possible.

A 3/8" air gap is recommended below the  
door and the door should incorporate a  
splashguard. The top and sides of the  
shower opening must be sealed.

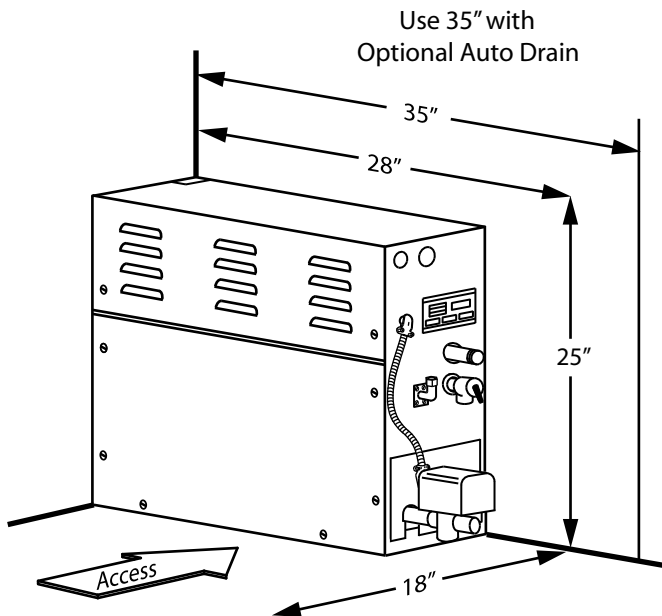
**Safety Valve**  
Connect 3/4" pipe to an  
indirect waste or as  
required by Local Codes.

**Drain Line**  
Remains capped unless  
Optional Auto Drain is  
installed.

**Steam Outlet Pipe** - Use a minimum of a 3/4" Copper or Brass pipe.  
**CAUTION:** Do NOT install a Shut-off 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 3: Typical installation**

## Access Requirements



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.

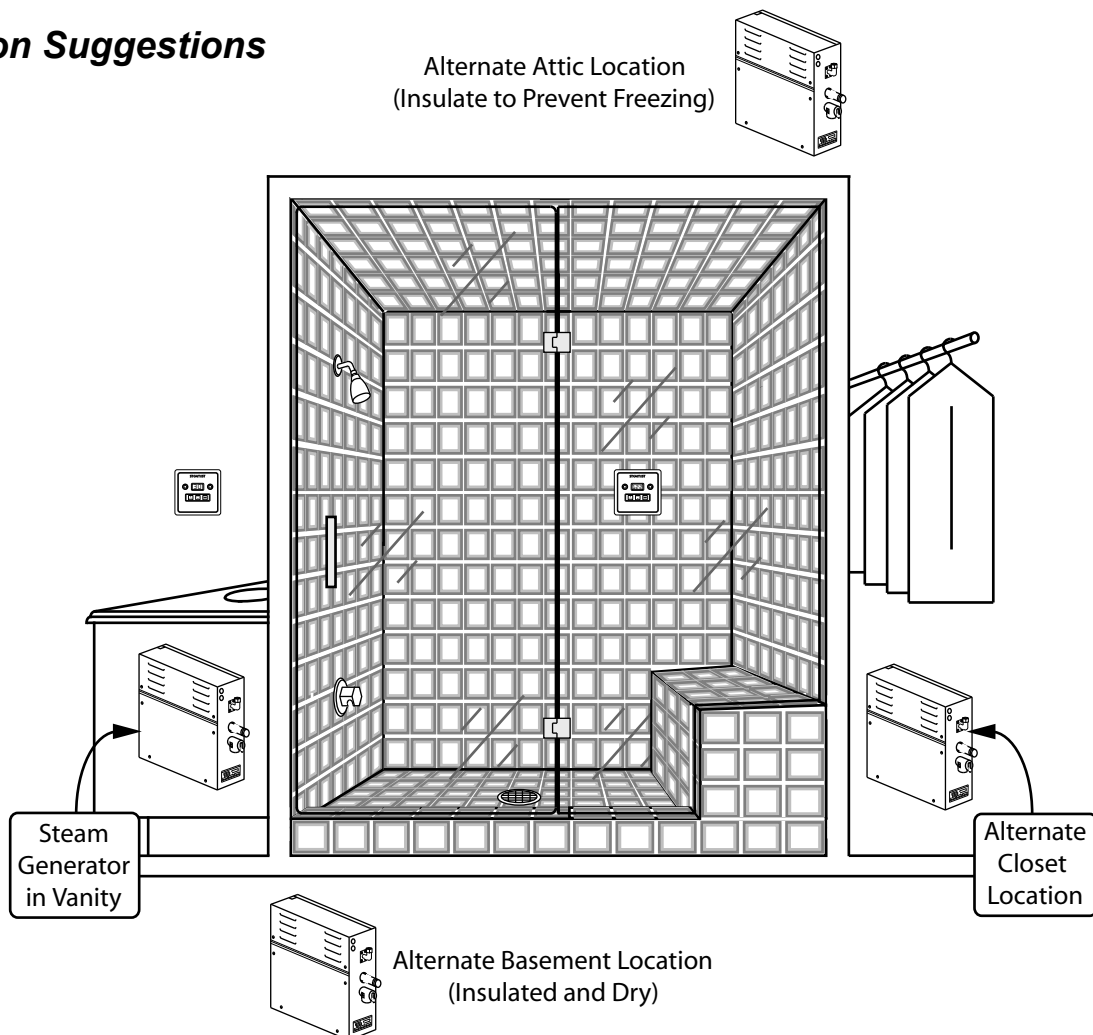
**CAUTION:** All models must be installed INDOORS, in a DRY, NON-FREEZING location away from flammable materials such as: Gasoline, Paints, Thinners, Etc...

**IMPORTANT:** Steam Generator must be installed upright and level.

SPECIFICATION CHART							
Model No.	* Max. Cu. Ft. For Area Up To	KW	Volt	Phase	Amps	Wire Size 90°C Copper AWG	Line Fuse
SM-12	450	12	240	1	50	6	70
			208	1	58	4	80
			240	3	29	8	40
			208	3	33	8	45
SM-15	550	15	240	1	63	4	80
			208	1	72	4	90
			240	3	36	8	45
			208	3	42	6	60

\* Refer to the Steamist Sizing Guide for actual Cu. Ft. capacity.

## Installation Suggestions



**STEAMIST**

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