



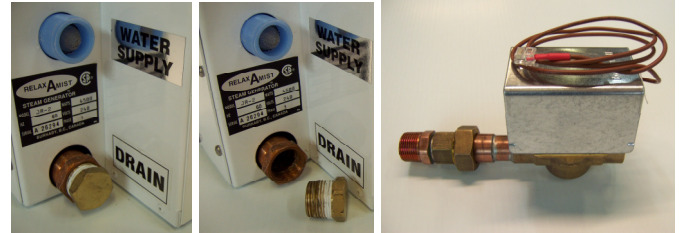
INSTALLATION INSTRUCTIONS FOR THE OPTIONAL DRAIN FEATURE

MODELS JR-1, JR-2, JR-3, JR-4, CR-9, CR-11, CR-12 & CR-14

1. General Information: (According to local plumbing codes)

The steam generator is equipped for the installation of a manual or automatic drain. Located below the identification plate is a copper female adapter with a 3/4" iron pipe thread and plug. The auto drain or a manual ball valve connect to this fitting and a copper drain pipe must run from this point to a drain.

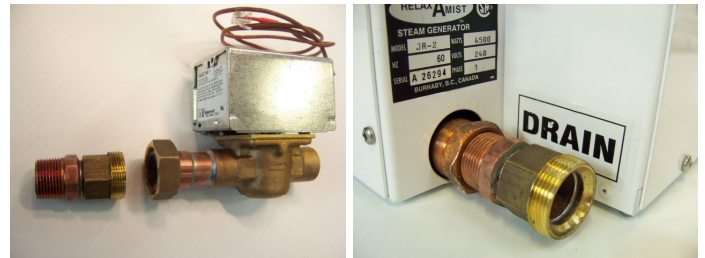
CARE SHOULD BE TAKEN WHEN INSTALLING THE DRAIN LINE. WATER MUST BE ABLE TO DRAIN FROM ALL SECTIONS OF THE DRAIN LINE AT ALL TIMES.



2. Rough-In: Drain Valve Option

- According to the local plumbing codes, install a 3/4" rigid copper pipe from a drain to the area where steam generator will be installed.

CARE SHOULD BE TAKEN WHEN INSTALLING THE DRAIN LINE TO AVOID WATER RETURNING TO THE BOILING TANK.



3. Final Installation:

- Remove the factory installed 3/4" brass pipe plug from the steam generator.
- Connect the manual drain valve (ball valve) or the automatic drain valve (comes with 3/4" ip fitting and union factory installed on valve) to the unit. Connect the 3/4" copper drain line to the drain valve via the 3/4" sweat fitting.

CAUTION: Care must be taken when soldering the 3/4" copper drain line to the valve so as not to overheat the valve.

- If the automatic drain is used, connect the modular plug from the auto drain into the (front) female socket marked "DRAIN VALVE 24 VAC" on the side of the steam generator's electrical box (the rear plug is for the timer/switch control).

CAUTION: DO NOT plug the Timer Control into the female socket marked Drain Valve 24VAC.



The automatic drain is normally open and will close when the steam generator's timer switch is turned on. There will be a delay of approximately 45 minutes once the timer switch is turned off (to allow the water to cool), before the drain opens.

*Note: Automatic drain valves are installed to the steam generator prior to shipping, when factory ordered. The automatic drain valve comes complete with an electric valve, a copper union with an MIP adaptor sweated on, and a pre-wired modular plug for easy electrical installation.

The manual drain comes complete with a ball valve, a copper union with an MIP adaptor sweated on and an IP nipple sweated to the valve for easy installation. If a manual valve is used, ensure that the valve is in the closed position before starting the steam unit.