

SUBJECT: De-scaling Residential Steam Generators With an Auto Drain (Manual Drain see Bulletin No 08-07)

**CAUTION: HOT WATER may discharge from: Auto Drain Into Drain Pan
Wear Protective Clothing & Eyewear When Using Hazardous Chemicals**

1. Turn on main power to steam generator so you can activate the auto drain. Unplug the timer control wire (brown wire from the QTT or the T&T control in the steam room) modular connector from the side of the electrical box marked "Timer Switch 24 VAC", so there will be no chance of the boiling tank producing steam during the cleaning operation. Allow any hot water in the tank to cool to a safe temperature before draining. This can be accomplished by waiting 1 hour after your last steam bath before starting this procedure. Drain the steam boiling tank by:
 - a) removing the auto drain wire modular connector from the female socket marked "DRAIN VALVE 24VAC" on the side of the steam generator's electrical box. When the electric drain valve is de-energized, it will open (to drain the water).

CAUTION: Do Not Remove the auto drain wire modular connector from the female socket marked "DRAIN VALVE 24VAC", on the side of the steam generator's electrical box, when the timer control in the steam room is turned on to the steam cycle.

2. If you have not already done so, remove the control wire (brown wire from the QTT or the T&T control in the steam room) modular connector from the female socket marked "Timer Switch 24 VAC" on the side of the steam generator's electrical box.

Insert the auto drain (green) **power supply adaptor** into the female socket marked "Timer Switch 24 VAC" on the side of the steam generator's electrical box (the auto drain valve wire modular connector plugs into this green adaptor to get its electrical power to remain closed during the de-scale procedure).

Insert the **auto drain valve wire** modular connector into the (green) power supply adaptor (plugged into "Timer Switch 24 VAC" female socket) to close the drain valve for the de-scaling procedure.

3. Unscrew the union(s) on the steam line(s) so a chemical that will dissolve the mineral build-up can be poured into the boiling tank. Always follow the Manufactures' instructions when using chemicals.
4. It is suggested to use an "ice machine" cleaner that can be purchased from a refrigeration service company, as it usually can be disposed of in an environmentally friendly manner after it has dissolved the build-up. CLR, or a 50/50 mix of vinegar and water may also be used. Always follow the Manufactures' instructions when using chemicals. Allow enough time (as per the manufactures' instructions) for the build-up to be dissolved.

JR-1 – use approximately 1.5 litres.

JR-2 – use approximately 2 litres.

JR-3 – use approximately 2 litres.

JR-4 – use approximately 3 litres.

5. After the build-up has been dissolved, remove the auto drain (green) **power supply adaptor** from the female socket marked "Timer Switch 24 VAC" on the side of the steam generators electrical box. Remove the **drain valve** (brown) **wire** modular connector plug from the (green) **adaptor**. Insert the auto drain wire modular connector into the female socket marked "DRAIN VALVE 24VAC" on the side of the steam generator's electrical box.

SERVICE BULLETIN

MODEL NO'S. JR-1, JR-2, JR-3, & JR-4

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BULLETIN NO. 2009-04

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5. Insert the control wire (brown wire from the QTT or the T&T control in the steam room) modular connector into the side of the electrical box marked "Timer Switch 24 VAC".
6. Ensure the **water supply** is turned **on before** turning on **the electrical supply** to the steam generator.

If the electrical supply to the steam generator is turned on, turn on the timer control so that the boiling tank will fill with water. The fill should be completed in about fifteen seconds.

Turn off the timer switch when the boiling tank stops filling with water so there will be no chance of the unit producing steam during the rinsing operation. Rinse the chemical out of your steam unit by removing the auto drain wire modular connector from the female socket marked "DRAIN VALVE 24VAC" on the side of the steam generator's electrical box. When the electric drain valve is de-energized it will open (to drain the water). Reinsert the drain wire modular connector once the unit has drained.

Repeat step 6, a few times to, fill the boiling tank with water and then rinse out the chemical residue.

7. Ensure that the auto drain wire modular connector is inserted into the female socket marked "DRAIN VALVE 24VAC" on the side of the steam generator's electrical box, when you have completed your de-scaling procedure. Keep the auto drain (green) power supply adaptor, on top of or at the steam unit for the next time you need to de-scale.
8. Your steam generator is now ready to be used as outlined in the installation instructions.