

Burnaby B.C. Canada

DATE: 04/01/08

Phone 604-437-4717

Fax 604-437-5776

BULETIN NO. 08-4

MODEL NO'S. SG-9, SG-14, SG-18, SG-23, SG-27, SG-36

SUBJECT: De-scaling Procedure for SG Series Commercial Steam Generators from Serial #A-9800

To decalcify commercial SG steam generators:

1. Turn off the electrical power supply to the steam generator so there will be no chance of the generator producing steam during the cleaning operation.
2. Determine that the time clock is being used to control the steam generator operation as is outlined in item 4 of the preventive maintenance schedule in your owner's manual.
3. Manually drain the steam generator with the ball valve that is installed to bypass the motorized drain valve and when the boiler is empty, close the ball valve (ensure that the motorized drain valve is in the closed position).
4. Disconnect the brass 90° fitting at the pressure relief loop, and position it upwards so a chemical to dissolve the scale build-up can be poured into the boiling tank through the brass 90°.
5. The cleaner necessary to clean the boiling tank interior will be determined by the water conditions in your area. Check with your water specialist and please remember that de-scaling chemicals, such as acids, should be collected and disposed of in an environmentally friendly fashion. We suggest an "Ice Machine Cleaner" type of product that can be purchased from refrigeration supply outlets. Follow the manufacturer's instructions for the de-scaling product that you are using. Check with your local municipal inspectors to determine which chemicals can be disposed of through the drainage system.
6. After the mineral build-up has been dissolved, manually drain the steam generator with the ball valve (capturing the de-scaling agent in a container if necessary), installed to bypass the motorized drain valve. When the boiling tank is empty, close the ball valve (ensure that the motorized drain valve is in the closed position also).
7. Turn on the main power supply to the steam generator.

**Note: When the power supply is turned on, the steam generator will automatically start the flushing cycle by opening the motorized drain valve and rinsing the interior of the copper boiling tank seven times from the sprayer head. This should wash the dissolved solids out of the steam generator.

At your discretion, the flush cycle may be repeated. Move the time clock slide switch to the "on" position (the top position) for approximately 10 to 15 seconds and then move it back to the "off" position again. This will start the drain flushing cycle again. This operation may be repeated until you are satisfied that your steam generator has flushed away any chemical residue and/or scale.
8. After the drain flush operation has been completed:
 - a. Re-connect the pressure relief loop to the brass 90° compression fitting.
 - b. If the steam generator operation was set to use the remote switch, move the slide switch on the lower part of the steam generator's main circuit board to the "remote" position.
 - c. If the steam generator's operation was set to use the time clock, set the time clock to the correct time and ensure the clock slide switch is in the "clock" position (the centre position).
 - d. Turn the steam generator on to observe the unit's operation and see steps 3 to 12 of the preventive maintenance schedule in your owner's manual.