



Industrial Water

Steam Generators



Introduction

Steam generation is a powerful process, and can be applied in an array of applications. From simple steam baths to power generation and facility heating, maximizing efficiency is the lifeblood of their effectiveness.

Because of design complexities and associated system pressure, steam generation applications often deal with enormous scale formation and corrosion issues. Aside from eroding performance and promoting mechanical failures, scale and corrosion consistently eats away at cost efficiency and increases service time.

Treated with ProMoss™, steam generation systems experience dramatic decreases to corrosion and scale formation in steam boilers and delivery mechanics. ProMoss™ is delivered to the system via a holding tank, which passes water through the contact chamber and pump. ProMoss™ is changed as specified for your particular application.

Integrating ProMoss™ into steam generation promotes system efficiency and reduces degradation.

The system:

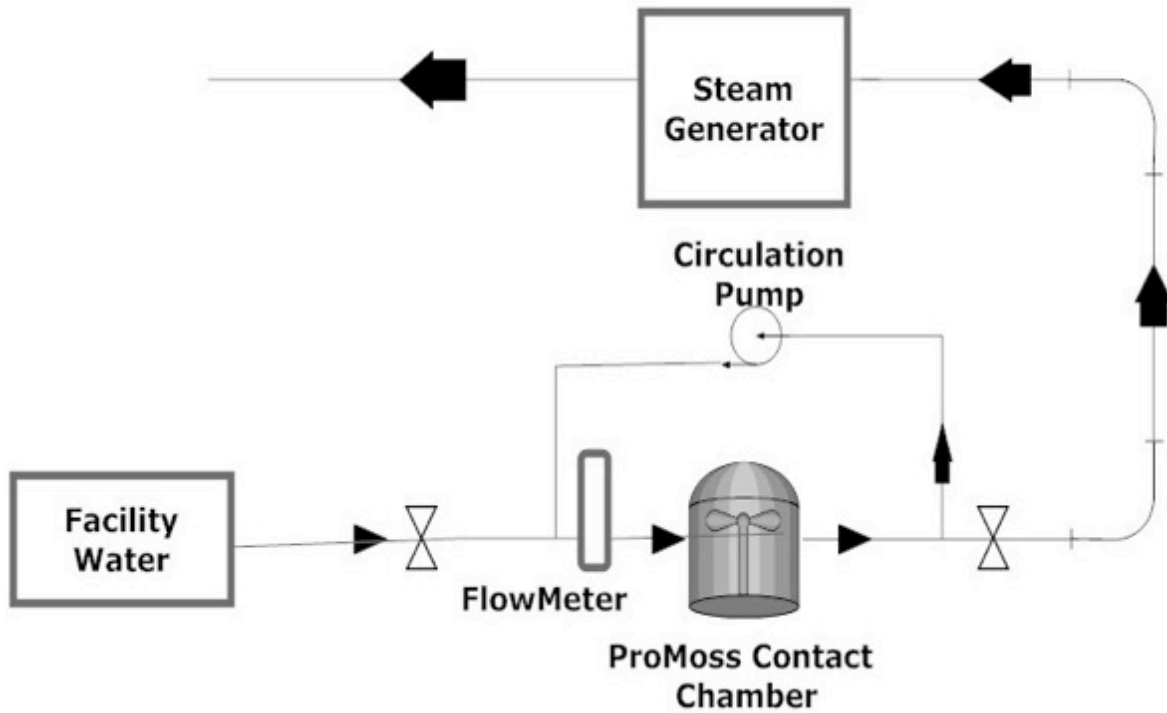
- **Reduces** scale formation in the steam boiler, heat exchanger and piping
- **Reduces** corrosion in the steam boiler, heat exchanger and piping
- **Reduces** maintenance time removing scale from the components
- **Increases** the effective life of the equipment
- **Eliminates** the foul smell from the steam room
- **Reduces** the slimy feel on the walls and benches in steam rooms

ProMoss™ Advantages

- Easy installation
 - ProMoss™ is delivered to the steam boiler system using an off-line holding tank, a small pump that circulates water from the holding tank through the ProMoss™ and filter to return to the holding tank. When the steam boiler calls for water, it flows from the holding tank to the steam boiler. Facility water then replaces the ProMoss™ treated water. The ProMoss™ dosage and the holding tank depend on the amount of water used per day. The ProMoss™ is changed monthly, is light, non-toxic, and easily removed for disposal. Removal of the product is accomplished by simply removing the ProMoss™ from the contact chamber.

- ProMoss™ is a sustainable, green water treatment system that naturally provides:
 - Reduction in scale formation
 - Inhibition of corrosion
 - Reduced steam room odor and slimy surfaces
 - Totally non-chemical water treatment

Industrial Aquatic Solutions Steam Generator Treatment System



ProMoss™ Delivery System for the Steam Generator



Steam Generator Jewish Community Center
St. Louis Park, MN



Case History

The steam generator at the Jewish Community Center, St. Louis Park, MN was installed in 1991 and uses 200-250 gallons of water per day.

- Creates steam for two therapeutic steam rooms
- Required manual scale removal twice a year
- Produced two five gallon pails of scale in 6 months
- Started on ProMoss™ in 2012

Results

- Immediate change in the smell of the steam from foul to clean
- Gradual decrease in the slime on the benches and walls
- Less scale formation after 6 months
- After three years the scale was reduced to one inch in the bottom of a 5 gallon pail
- Steam generator now has clean metal in the boiler interior
- No other chemical treatment used for three years

Before ProMoss™



After one year of ProMoss™



After three years on ProMoss™



Close-up after three years on ProMoss™



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