



Sustainable Water Treatment, LLC

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Do I need water treatment at my facility?

Yes! You need water treatment service if you have a cooling tower, chilled loop, hot loop, process loop, air washer, steam boiler or hot water boiler. A water treatment program will easily pay for itself by increasing efficiency, saving water, reducing maintenance, and minimizing costly repairs and downtime.

What if I've never had water treatment before?

It is time to start! If systems are left untreated, scale and corrosion problems will persist and even get worse. Boilers need treatment to prevent scale, corrosion, and oxygen pitting.

Do I need water treatment for my boilers?

Yes, water treatment is needed in steam and closed loop boilers. Steam boilers require a minimum monthly service while hot water boilers require a minimum semi-annual service. Water treatment is a necessary function to help pass your annual boiler inspection.

How often should I blow my boiler down?

Boiler blowdown should be based on safety features and conductivity. Safety features such as the water level float should be blown down daily. Bottom blowdown is used to remove settled sludge from the boiler and is dependent on the load and run time of the boiler. Your water treatment technician can make recommendations for bottom blowdown amounts. Surface blowdown is used to control the conductivity in the boiler. Once a conductivity setpoint is established, more or less surface blowdown may be needed to keep the conductivity in the recommended range. Surface blowdown can be automated with proper equipment and controls.

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Why is it important to have the correct amount of blowdown?

Your water treatment specialist will be able to tell you a range to maintain your conductivity or total dissolved solids. This range is determined using ASHRAE guidelines for maximum limits of conductivity, hardness, alkalinity, and silica. Once the range is determined, it is important to blowdown your boiler to maintain that range. Too much blowdown will cause increased energy and water consumption and cause chemical levels to be low. Too little blowdown cause scale to form in the boiler and can lead to carryover from the boiler to the condensate return.

Is there a way to get rid of scale that doesn't use acid?

Yes, online cleaning programs can be effective without acid in many cases. However, they will take time. Online cleaning can eliminate system downtime, lower the risk of acid-related corrosion, and reduce handling of potentially dangerous chemicals. Properly performed, an online cleaning removes scale safely but slowly, perhaps taking several months or a year.

However, not all scale types can be removed with an online cleaning. As always, it is important to consult with a water treatment specialist to develop the best option for you, and to ensure the program you choose will work.

Need to talk to a specialist? Ours would love to help! Set up a free consultation by calling (336) 953-9552 during normal business hours.

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