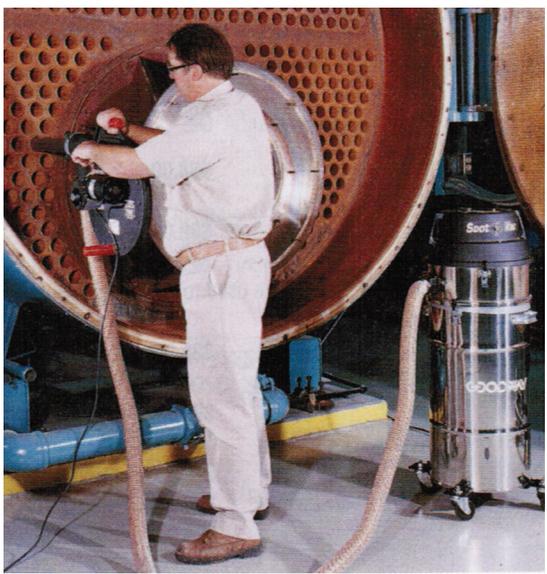


How To Clean Industrial Boilers

Minimize energy costs by eliminating soot and scale.

One-Man Boiler Cleaning that Packs a Punch

Boiler cleaning is a dirty business, but you've got to stay on top of it. Within weeks deposits start accumulating inside firetubes. And those deposits are tough. They include chemicals, soot, and an ash coating that bakes on like ceramic. Sounds daunting, but it's not - you just need the right equipment. It has to be easy to operate so your crew will use it often, and it's got to be effective enough to power through all that soot and ash. Sounds like you need Goodway's SAM-3 or RAM-4X. They get the job done right the first time, keeping you a step ahead of energy-hogging buildup. It's a good thing, too. An insignificant-looking 1/8" layer can increase your boiler's fuel consumption by 8%. High oil prices mean it's more important than ever to keep boiler tubes clean.



CLEANING FIRESIDE BOILER TUBES

- Turn off the boiler and let it cool.
- Open the boiler to access the tubes.
- ID the buildup in your tubes. Use a good video scope, if possible. Goodway can provide you specs regarding the different types of fuel commonly burned in boilers.
- Match the brush or attachment to the deposit type.
- Clean several tubes. Use the SAM-3 or the RAM-4X to loosen deposits. Add an in-line vacuum attachment to remove dirt and debris for instant cleanup.
- Evaluate results with your scope; change attachments or reclean, if necessary. Clean remainder of the tubes; spot check a few.
- Brush and vacuum face of boiler and combustion chamber.
- Clean up and put the equipment back online.

NOTE: Cleaning the water side of fire tubes is just as important. Use Goodway ScaleBreak to quickly melt away lime scale and other contaminants from the water side of fire tubes.

SAM-3: JUST FLIP THE SWITCH

A cleaning tool mounted on a 26' spring steel tape does the dirty work of loosening soot, while an inline vacuum attachment handles cleanup.



DESCALING BOILER TUBES

The GDS-15-PH descaling system monitors pH during the cleaning cycle and injects additional chemicals as needed. When it's done, you know the tubes are scale-free.



ONE-MAN JOB

Clean any boiler easily with the powerful turbine action of the RAM-4X. Pair it with a vacuum to scour fireside tubes, or clean water tube boiler tubes using a simultaneous water flush.

Cleaning Water Tube Boiler Tubes

Scale builds up quickly in boiler tubes, just as it does in chillers. Rotary tube cleaning technology will keep your boiler as clean as your chiller. The RAM-4X and RAM-4X2A eliminate scale in larger I.D. water tube boiler tubes. Or use Goodway's "smart" chemical descaling system, the GDS-15-PH, which monitors pH during the cleaning cycle, adding fresh chemicals as needed.

ESSENTIAL ACCESSORIES



A complete selection of brushes and scraper tools handles everything from light deposits to solidly plugged tubes.

GIVES YOU THE UPPER HAND

What's lurking in your fouled tubes? A video scope show clearly exposes the enemy and lets you know when you've won.

