



Magnesium Soft Water

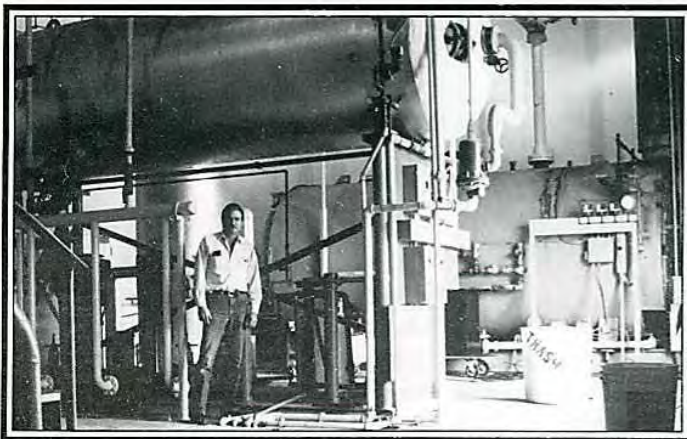
Scale and Corrosion Control
Commercial • Residential • Industrial

Ejax Magnesium Water Systems

June 1994

Las Vegas Laundry Controls Scale, Corrosion

1,000 HP Steam Boiler Uses No Chemicals for 11 Years With Ejax System Installed



Scale and corrosion protection is provided by Ejax to the 35,000-pounds-per-hour steam boiler that serves the linen needs for many Las Vegas hotels and casinos. Jim Calles is Maintenance Manager at the Angelica Rental Services plant.

Ejax works at 240°: Imagine what It can do for your water heater or water boiler at 120°?

Eleven years without chemicals to control scale and corrosion in the 1,014 horsepower Babcock & Wilcox steam boiler has meant significant savings in money and downtime for one of the largest linen plants in the world. The success is attributed to the Ejax Magnesium Water System.

At the 169,000-square-foot laundry plant in Las Vegas built by Western Linen and bought by Angelica Linen Rental in December 1993, Ejax **cut boiler maintenance costs by a third**, according to Maintenance Manager Jim Calles. **With Ejax, we haven't lost a boiler tube.**

Boiler water testing took at least one hour per shift with more time spent adjusting the chemical flow to balance the pH. Now the maintenance crew does a ten-minute blow-down once a shift. The steam boiler, rated at 35,000 pounds per hour, accomplishes 100 percent of its job at about 60 percent of its capacity, thanks to Ejax. That translates into **easier maintenance and longer life expectancy.**



**Chief Engineer
Lester Muhmel**

Chief Engineer Lester Muhmel recalls that before Ejax was installed, "we had to clean the boiler with chisels ... for the past 11 years, the boiler's been clean when we opened it up. Our 700 BHP
See 11 Years with Ejax ... (Con't on Page 2)

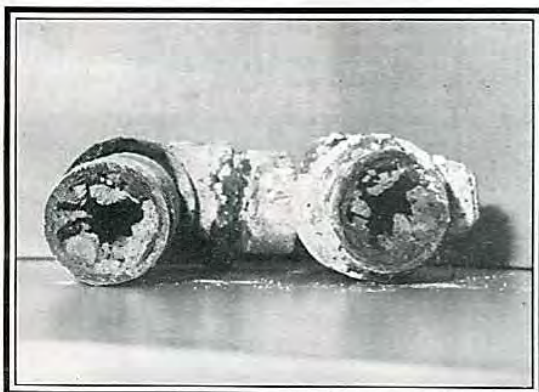
Ejax Abides by Laws of Physics

Dissolving Scale Ends Clogging of System

Scale that clogs up plumbing systems is made up of calcite calcium, a rock-hard mineral that sticks to everything. Through a basic physics reaction, when Ejax magnesium is added to the water, the calcite calcium changes its structure and is transformed into aragonite calcium, a powder that doesn't stick to pipes or other surfaces.

Ejax begins immediately to dissolve the scale in a plumbing system. Water heaters and water boilers take about 30 days to descale, and the hotter the water, the faster the scale is cleared away. Once it's gone, it stays gone as long as Ejax is on the job, and Ejax is the only treatment that can get rid of scale **and** fight corrosion.

As many experts and customers can testify, **Ejax will always work** to dissolve scale. A law of physics is a law that can't be broken.



Cleaning up pipes like these no problem for Ejax.

System Combats Causes of Corrosion

Repiping Copper, Galvanized Unnecessary with Ejax

The main causes of corrosion in the plumbing system are electrolysis and carbon dioxide in the water, and Ejax magnesium is uniquely able to head off the causes of corrosion.

Through a system designed by physicists, Ejax, with its "sacrificial magnesium," fights corrosion by being "hungrier" than the iron or copper in pipes.

Each metal has an electrical potential. Copper's potential is -0.34 volts; iron's (galvanized pipe) potential is +0.44; and magnesium's is +2.34. If only copper is available, the natural electrical current will enter the copper pipe and begin electrolysis which leads to corrosion.

Connect the copper to galvanized pipe, and the electrolysis

goes to the higher electrical potential -- the iron -- so the galvanized pipe begins to be eaten away. **With Ejax on the system, the electrolysis passes up both the copper and galvanized pipes and picks on the magnesium.**

Carbon dioxide in the water has a nasty habit of eating away the copper, but this too is taken care of with Ejax. The Ejax magnesium cartridge with its copper shield shoots off negative ions that are attracted to pipes and other metal parts in the water flow system.

The ions form a microscopic thin coating on all metal surfaces to provide protection against electrolysis and carbon dioxide gas, practically eliminating corrosion.

Ejax Passes the Test, According to Water Expert

When the Long Beach Water Department tested scale and corrosion methods, it came up with two conclusions: **Ejax worked better than all other systems tested, and it was the only system that worked in water over 120 degrees.**

W. Bruce Murray, the Superintendent of Water Treatment for Long Beach when the study was conducted, said his department tested the effects of water passing over iron, aluminum, copper and brass at the rate of one gallon per minute over a fixed period of time. The results

showed a 60 to 70 percent reduction in



BRUCE MURRAY

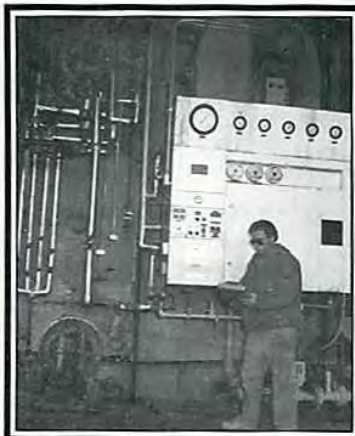
corrosion when Ejax was protecting the metals.

Murray became a believer then and remains a strong advocate of the Ejax system for removing scale and corrosion.

11 Years with Ejax ... (Con't from Page 1)

Holman back-up boiler is only needed when we open up the main boiler once a year for inspection. "The steam boiler is used to heat the acres of flatworks ironers, washers, uniform presses, and anything that requires temperatures of over 180 degrees.

The plant has been able to depend on Ejax for more than a decade because it works. With Ejax, the system has run smoothly and been a big cost-saver without the problems and expense of using chemicals for scale and corrosion control.



THE MASSIVE LINEN RENTAL PLANT in Las Vegas has relied on Ejax to keep its main steam boiler up and running. At right, Ejax Service Representative Don Hall checks out steam boiler gauges after servicing the Ejax units.

SALES REPS NEEDED

Sales Representatives Needed by Ejax Magnesium Water Systems.

Must understand scale and corrosion problems caused by water, and have experience in a specific type of business or industry.

Commission only.

To arrange an interview,
call Ejax
(714) 530-5700



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Scale and Corrosion Control**

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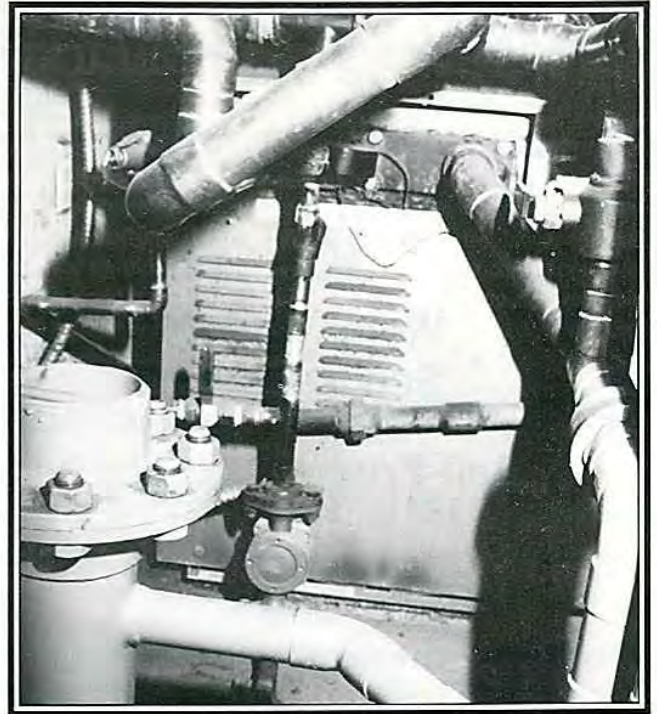
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Raypac Boiler Problems Solved When Ejax Installed in 1978

One Ejax unit has kept the Raypac boiler at Brookhurst Pines Apartments in Garden Grove free from scale and corrosion problems for more than 16 years -- no scale build-up, no new tubes -- in short, the apartment manager has not had to become a boiler expert.

The apartment owners called Ejax in 1978 to rescue them after years of major repairs on the boiler. Since Ejax was installed, there have been no scale or corrosion problems.

Brookhurst Pines is managed by RK Properties.



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Think 'Gallons Per Hour' When Buying a Water Heater

When you're ready to buy a water heater, your first concern should always be the GPH number -- that's Gallons Per Hour -- long before comparing prices.

Prices for the same size water heater may vary 100%, so put a little extra thought into the purchase. Tank size, BTUs (the amount of heat available) and other factors all come together to take much of the guess work out of water heater selection.

The Gallons Per Hour number,

often expressed as "Recovery G/H," indicates how quickly the hot water is replenished. The more people in the household, the higher the GPH required.

Think about peak times, like before work and school, and after dinner when hot water is flowing at its maximum rate, replaced by cold water which needs to be heated up.

Not having enough heat available, combined with a tank too small for the job, puts a strain on the system and the tempers of the family. Many people "solve" the lack-of-hot-water problem by turning up the heat settings, but there's more to getting optimum use out of the water heater than just increasing temperature.

When a water heater guaranteed for five years dies after five years and one month, the manufacturer or plumber often gets the blame. The real problem may be that the heat is set too high and/or improperly.

What You Should Consider in a New Water Heater

When buying a water heater:

Ask questions about GPH, keeping in mind the needs of the household;

Don't buy a unit that's too small;

In considering energy ratings, think about how much you may save over five or ten years by investing a little more at time of purchase;

Seek reliable advice, and, of course

Have an Ejax system installed to triple the life of your water heater.

At the critical moment of selection, making a mistake can keep you in cold water for years.

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