

Commercial / Industrial Water Treatment Systems

Data Sheet

- Reduce scale and corrosion in all types of commercial and industrial water processing equipment
- Remove existing scale from equipment and piping
- No external power source required
- Reduce equipment downtime
- Reduce equipment wear from frequent cleaning cycles
- Affordable, cost effective

Hard water scale and corrosion in commercial and industrial water processing equipment is costly in downtime maintenance.

Magnetizer technology has been developed as a cost effective solution to this pervasive problem.



Our systems are installed easily and quickly without downtime on the user's equipment.

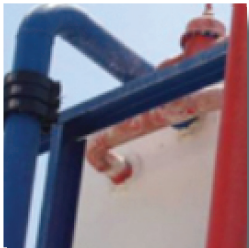
External installation eliminates concern for exposure of the user's fluids to contamination.

Benefits

- **Prevention of scale and corrosion**
- **Elimination of pre-existing scale and corrosion**
- **Reduction of algae and biocide additives**
- **Elimination of costly equipment downtime maintenance.**
- **No external power requirement**
- **Non-invasive installation**
- **Environmentally safe and user friendly**

Applications

- Water and steam boilers
- Heat exchangers and tubing
- Chillers & evaporators
- Cooling towers
- Injection mold machines
- Irrigation systems
- Car washes
- Misting systems
- Marine water and pump systems
- And countless other devices which utilize water in their process



Technical Principles

The effect of a magnetic field upon water results in the disruption of the intramolecular water bonds and accordingly reduces the surface tension of the water.

It is this reduced surface tension that permits the scale to reach a higher degree of hydration. The increased hydration of the scale causes it to be weakened which allows the simple mechanical agitation of the water's movement to physically remove the scale from pipe, boiler, or whatever device the water is used in or flowing through.

In respect to the effects of the systems upon acid or alkaline water, the following is proven to be true. Non-neutral water passing through a controlled magnetic field has the net effect of combining hydronium ions or hydroxyl ions. This has a buffering effect on the water. PH of less than 7.0 will see the PH rise towards neutral and PH of greater than 7.0 lower towards neutral.

The Magnetic buffering of water tends to reduce the corrosiveness of water. Additionally, red iron rust which is water-soluble is converted to passive black iron rust.