

Pool and Spa Water Treatment Systems

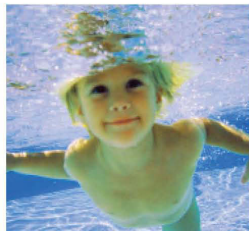
Data Sheet

- Reduce scale and corrosion in all pipes, heaters, and filters
- Remove existing scale and corrosion from the inside of pipes
- Efficiently stabilizes PH levels towards neutral
- Increase chlorine effectiveness
- No external power source required
- Easily installed by the homeowner or pool service technician
- Affordable, cost effective

Magnetic water treatment is potentially of great benefit to pool water treatment in terms of the reduction in use of oxidizing chemicals. Magnetic treatment has been shown to stabilise solution pH, eliminate corrosion of materials and reduce system downtime.



Pool and spa users report reduction or elimination of water scum caused by body oils. On pool and spa tile, a reduction or elimination of scale caused by hard water minerals is also noted. The result is a more luxurious swim with less chemical irritation to the eyes and skin and a much cleaner pool or spa free of mineral build-up.



The Magnetizer system operates automatically, continually and permanently without any external power source. It has no moving part to wear out or be replaced.

Benefits

- Reduce chemical costs
- Stabilize PH levels
- Improve filter performance
- Remove scale

Applications

- Residential pools
- Commercial pools
- Hot tubs
- Spas
- Decorative water scapes
- Fountains
- Whirlpools



Technical Principles

Cranfield University Study of Water Science

This study determines the efficacy of a magnetic treatment device on the inactivation of a model micro-organism (*Escherichia coli*), chlorine consumption and concomitant disinfection by product formation in swimming pool water.

Effects of magnetic water treatment on physical parameters such as scale deposition; conductivity and pH are reported, as well as the key performance determinands of chlorine consumption, micro-organism inactivation rate and trihalomethane (THM) formation. A commercially available magnetic treatment device (MAGNETIZER) was used throughout. It was found that in all cases chlorine loss was more rapid in the control than in the magnetically treated water. The bactericidal efficiency of the free chlorine was unaffected by magnetic treatment, such that the *E. coli* kill rate for a given disinfectant dose was increased by an average of 25% by this physical conditioning. In addition, it was found that generation of THMs was reduced by magnetic treatment at any one free chlorine level.

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