

# WAVE™ SUSTAINABLE WATER TREATMENT SYSTEM



The Wave™ Electronic Water Treatment system is advancing the science of physical water treatment. Designed to eliminate the use of harsh chemicals, the Wave™ helps customers save money and preserve capital equipment. While outperforming competitors' models, the Wave™ is quickly becoming the "green" standard for smart businesses. The future of Physical Water Treatment is here.



## APPLICATIONS

- Cooling towers
- Heat exchangers
- Condensers
- Evaporators

## SAVINGS

- Prevents scale and eliminates biofilm while contributing to a less corrosive environment
- Lowers operating cost
- Reduces energy consumption
- Chemicals are normally eliminated
- Blowdown water savings with higher cycles

## ADVANTAGES + BENEFITS

- Non-chemical
- Prevents and removes scale
- Controls bacteria & biofilm
- Less corrosive environment
- Reduces turbidity
- Lowers energy consumption
- Water discharge is safe & clean
- Safe for all plastics, metal and rubber
- Reduces maintenance
- Increases equipment service life
- LEED credit available

## FEATURES

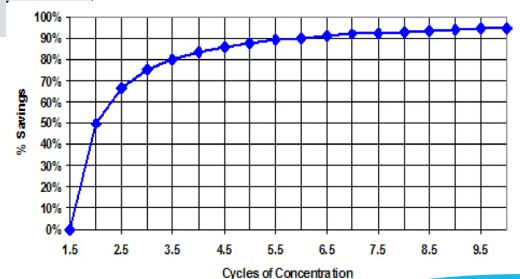
- Microprocessor controlled
- Four independent coils
- Strongest signals
- Self-tuning AutoSeek™ function
- Combines variable frequency magnetic pulses
- NEMA 4 Reaction Chamber & Driver
- Universal power supply 100 to 240 VAC at 50 - 60 Hz



Scale Thickness	SBC	% Savings
1/32"	No Scale	8.5
1/16"		12.4
1/8"		25
1/4"		40



Eliminate discharge of toxic chemicals into our drinking water supply.



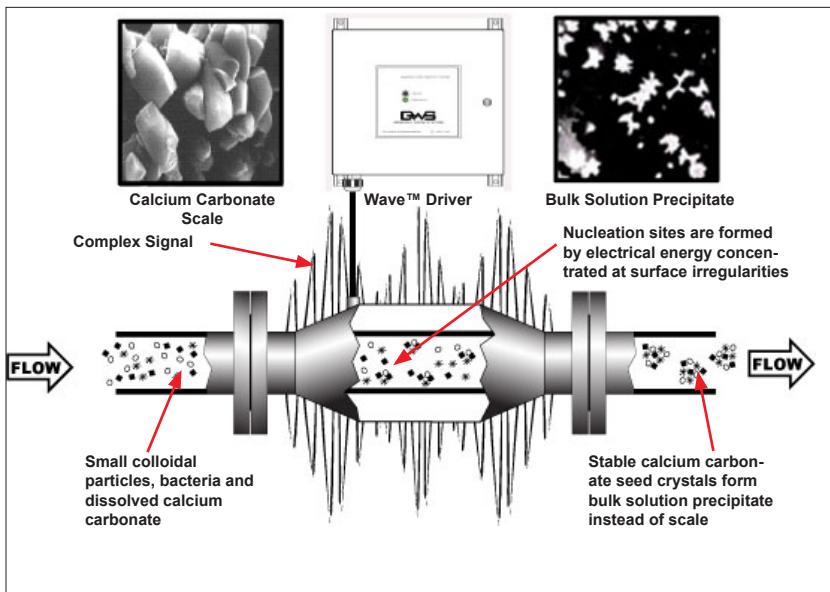
## THE WAVE™ PROVIDES REPEATABLE & MEASURABLE RESULTS

The Wave™ Driver generates complex AC signals and DC pulses that are applied to the water via a series of four induction coils housed in a weatherproof Reaction Chamber. The induced electrical reaction zones create “seed crystals” in the flowing water. These crystals provide preferential sites for additional solids precipitation, thus protecting the heat transfer surfaces from scale deposits. The induced electrical reaction zones also significantly reduces bacterial growth and eliminates biofilm in the treated system.

Corrosion is controlled indirectly by several mechanisms:

1. Biologically induced corrosion is reduced by eliminating biofilm in the system.
2. Elimination of oxidizing biocides provides a less corrosive environment.
3. The Wave™ allows use of calcium carbonate as a natural corrosion inhibitor by effectively controlling scale formation.

Wave™ applications are being constantly evaluated and improved by the Griswold Electronic Water Treatment Laboratory equipped with advanced instrumentation, laboratory cooling tower and test heat exchanger.



TECHNICAL DETAILS AVAILABLE ON REQUEST



BEFORE

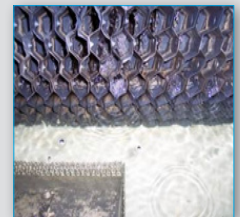


AFTER



FOOD PROCESSOR

Evaporative Condenser



INJECTION MOLDING

Cooling Tower



MARINE

Fresh Water Evaporator



BAKERY

Evaporative Condenser Float Valve

PROPOSALS & ENGINEERING

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CUSTOMER SERVICE & MANUFACTURING

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