

TRIANGULAR WAVE TECHNOLOGIES, Inc. (TWT®) CHEMICAL FREE DEPOSIT CONTROL SYSTEMS...

**Versatile Fluid Management Systems To Effectively Meet The
Needs Of Any Industry and Application**

**For the Control of Scale Deposits • Biofilm • Corrosion • Algae
• Colloids In a Wide Variety of
Commercial/Industrial Fluid Systems**

**HARD WATER PROBLEMS SOLVED EASILY!
Your Simple and Safe Solution!**

TWT® Patented Deposit Control systems use advanced technology to restore and maintain a clean, corrosion-free delivery system in an environmentally safe and chemical-free manner... The result is clean pipes and tubing with no biofilm and reduced bacterial contamination.

**TWT® Saves:
Chemicals,
Water,
Energy,
Labor,
Time and
Materials**

PROTECTION FOR NEW EQUIPMENT

TWT provides new equipment with the ability to enhance the product benefits and features.

TREATMENT FOR EXISTING EQUIPMENT

Retrofit existing equipment to improve its operating efficiency and life cycle.



On-Site Solenoid Wrapped Pipe



Made in USA

**TWT TRIANGULARWAVE
TECHNOLOGIESSM**
Chemical-Free Water Treatment

Email: info@triangularwave.com • triwaveinc.com • Websites: www.Triangularwave.com • www.twtwatertreatment.com

Hard water is the most commonly reported water quality problem by consumers in the U.S., found in over 85 percent of the country. Over 60% of the earth's water is groundwater, which picks up minerals, rocks and soil, including calcium and magnesium contaminants that make water hard.

Some telltale signs that water may be hard:

- Clogged pipes and/or appliances may be due to hard water.
- Mineral deposits can form in coffee makers, shower drains, pipes and plumbing equipment.
- Consumers may notice a film build-up on shower tiles, bathtubs, or even themselves, which can cause dry skin and dull, limp hair.
- Heating bills are increased, because the hard water forms an insulated shell between the heating element and the water to be heated. Heated hard water causes scale.

The Triangular Wave System represents a significant breakthrough in electromagnetic technology. The triangular wave has made possible the use of electromagnetic technology in applications of all sizes, from residential to large commercial and industrial applications.

An advanced system for controlling scale and bio-fouling, it is applicable with once-through and recirculating HVAC, heating and process cooling systems, as well as agricultural, industrial processing, wastewater, and other fluid-based systems.

The electronic deposit control technology uses a signal coil wrapped around a pipe in the plumbing system being treated. The signal coil produces an extremely small time-varying magnetic field inside the pipe, the resulting induced, oscillating electric field provides the necessary molecular agitation for chemical-free scale prevention and removal.

This state-of-the-art electronic deposit controller provides continual scale and bio-film control in fluid systems resulting in reduced maintenance and more efficient operation. The Triangular Wave System utilizes unique and proprietary treatment and design processes.

- The patented Triangular Wave System assures effective treatment.
- Highest quality parts and engineering design assures long-term performance.
- Chemical-Free Technology
- Simple installation and application maximize field success.
- Full product line to meet all field situations; flexible and cost effective.

Microprocessor Based Technology for all Commercial/Industrial Applications

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| <ul style="list-style-type: none"> • Cooling Towers • Heat Exchangers • Condensers and Chillers • Commercial Irrigation • Swimming Pools • Public/Private Display Water Fountains • Boilers • Water Heaters • Food Processing Equipment | <ul style="list-style-type: none"> • All Fluid Based Applications • Controls Algae and Bacteria <p>Without bio-film to house and protect it, biological growth can not feed or reproduce, resulting in greatly reduced biological activity</p> <ul style="list-style-type: none"> • Reduces Corrosion • Reduces or Eliminates the use of Dangerous Toxic Chemicals • Improve Operating efficiency And Life Cycle Of Equipment |
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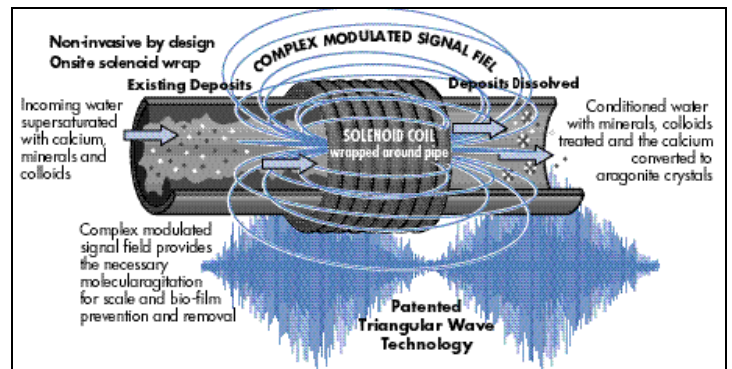
Highly Cost Effective:

- Savings in maintenance include reduced cleaning, monitoring, and chemical costs.
- Savings in maintenance such as cleaning, monitoring and adding chemicals are greatly reduced.
- Savings in electrical expenses, due to cleaner system components and better heat transfer, can also be significant.
- Protects expensive capital equipment; cleaner systems, with less chemicals added, will operate more efficiently, and will have a longer working life.
- Operating costs of Triangular Wave Systems are very small and the systems require no maintenance.
- Non-hazardous blowdown means no treatment and no discharge permits required.
- TWT Deposit Control Systems enhance other treatment technologies as well, including chemicals, ozone, ultraviolet, and other filtration systems, keeping them clean and enhancing their operation. In this way, their full treatment benefits are realized, with reduced maintenance requirements.

Consider using TWT Deposit Control Systems in conjunction with any fluid treatment systems as a complementary technology. For further details on how you can leverage the TWT Deposit Control benefits, please contact us.

When TWT Systems are Properly Installed, The Effects of the Triangular Wave Treatment Last Downstream

Deposit Control Treatment Technology



Using modern integrated circuitry and signal processing techniques, the patented TWT Deposit Control Technology works by producing a complex frequency-modulated waveform. This creates a deionizing effect, induced by physical means, which increases the solubility of the minerals, and colloids in the liquid and changes the shape, size and texture of the calcium carbonate crystals.

By this reaction, the minerals, colloids and crystals lose their adhesive properties and remain in suspension in the liquid. Pre-existing scale is taken back into solution and removed in the same way. The effects are immediate and long lasting down stream.

In effect, a clean, corrosion-free delivery system is restored and maintained in an environmentally safe and chemical-free manner. The result is clean pipes and tubing with no biofilm and reduced bacterial contamination.

Water The Way Nature Intended it!

