

Triangularwave  
Technologies, Inc. (TWT®)

## Versatile Fluid Management Products & Systems To Effectively Meet The Needs Of Any Residential and/or Office Application

- Control Scale Deposits
- Bacteria
- Corrosion
- Algae & Colloids In All Fluid Based Systems
- P.O.E (Point-Of-Entry)
- P.O.U. (Point-Of-Use)

### Specializing in:

- Chemical-Free Deposit Control Systems (hard water conditioning & treatment).
- Ultraviolet / Ozone / Disinfection & Purification Systems
- Ionization Purification Systems
- Custom Systems Design & Integration
- Water Filtration Products
- Bacterial Reduction Systems
- Economical & Cost Effective
- Conserve Water & Save Energy

# HARD WATER PROBLEMS SOLVED EASILY!



CLEANER,  
FRESHER & TASTIER  
WATER FOR DRINKING  
AND COOKING



ELIMINATE  
DEPOSITS IN PIPES,  
FIXTURES  
& EQUIPMENT

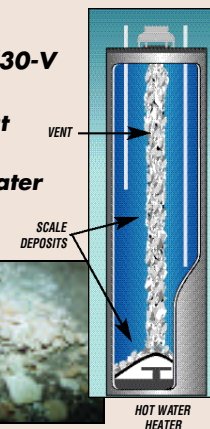


Triangularwave Technologies, Inc. (TWT®)  
TWT® Residential/Light  
Commercial Deposit Controller

**Be Smart, Buy Once!**  
**Go Green Save Green**

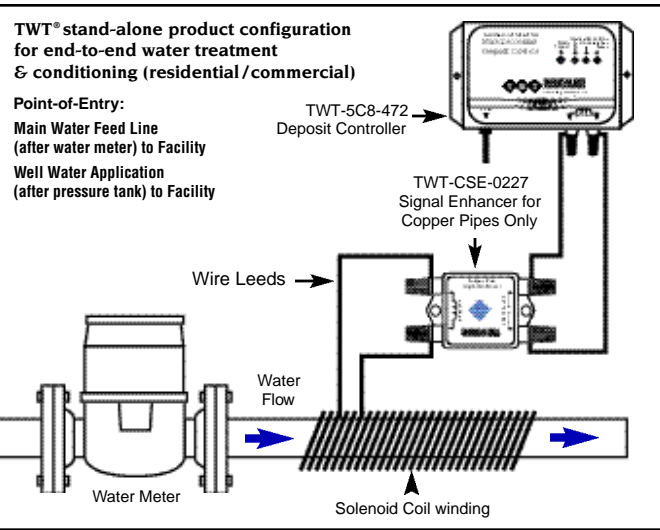
Triangularwave Patented Deposit Control System (TWT®) Technologically Advanced Method for Water & Fluid Management...  
**CHEMICAL-FREE**

- **Eliminates Deposits in Pipes, Fixtures and Equipment**  
*(Softens and removes hard scale build-up around plumbing fixtures)*
- **Controls Algae and Bacteria**  
*(Prevents the formation of biofilm, the breeding ground for algae and bacteria)*
- **Reduces Soap Scum and Improves Lather of Soap**
- **Reduces Detergent and Soap Use**
- **Reduces Effects of Hard Water on Skin and Clothes**
- **Salt and CHEMICAL-FREE Water Conditioning**
- **Easy to follow application & installation manual**
- **Available in 110/20-V or 220/30-V**  
*(Must Specify with Purchase Order)*
- **Removes Existing Scale on Heat Exchangers Over Time, Which Improves Heat Transfer for Greater Efficiency (Cost Effective)**



POUNDS OF SCALE  
REMOVED FROM A 40  
GALLON HOT WATER  
HEATER





Products not to scale for reference only



**TWT-5C8-472**  
Residential Commercial Deposit Control System For Pipes 1 inch or less in diameter—9 vdc transformer



**TWT-CSE-0227**  
for copper pipes only 2" or less in diameter  
The copper signal enhancer is a passive signal / impedance matching circuit. This device provides a power boost to the conditioning signal in copper pipes.



### TWT® Patented Deposit Control

Technologically Advanced Method for Water & Fluid Management Providing Comprehensive End-To-End Treatment & Conditioning (chemical-free).

### TWT Patented Deposit Control System

The basic component in the TWT systems is the deposit controller. It is comprised of a microprocessor, solenoid coil wrap and/or a reaction chamber. The microprocessor is a patented controller that functions like a small computer to relay a continuous electrical power supply to the solenoid coil and/or reaction chamber.

*The solenoid coil or reaction chamber is wrapped or plumbed into the main water in-take line and/or just before each piece of vital processing equipment,* and provides a factory-wrapped wire coil forming a solenoid. The solenoid conveys the triangular wave signal at the appropriate power level (as allowed by the model chosen) to the water passing through the chamber. This signal constantly changes the polarity, frequency, and amplitude of the current entering the water. This triangular wave treatment produces several benefits. It increases the capability of the water to hydrate scale ions and other colloidal particles. In effect, the surface charge of the hydrogen molecules is enhanced and the water is made "wetter". This "hydrated" water can dissolve unwanted particles, suspend them in solution, and allow them to be easily filtered out or flushed from the system. Accordingly, the mineral and biological particles that cause scale, deposits, and corrosion are dissolved and washed away.

This means that the breeding environments for bacteria, such as bio-film and corrosion, are eliminated. The agitation created in the reaction chamber also disrupts the conditions essential for the normal reproduction of bacteria and they die, thus allowing them to be harmlessly flushed out of the system.

### Copper Pipe Signal Enhancer

Copper pipes, although acceptable, are one of the more difficult of materials to work with. To overcome this...TWT has developed its Copper Pipe Signal Enhancer. This unit is placed between the Deposit Controller and the solenoid coil on the copper pipe. The function of the signal enhancer is to provide a proper impedance match and to ensure maximum energy transfer between the controller and the solenoid, which, in turn, ensures enhanced treatment of the fluid. Magnetic pipe materials such as steel, galvanized steel, iron, ductile iron or cast iron become shields and prevent the proper energy transfer to the fluid path. For magnetic pipe applications we offer a full line of factory wrapped wire coil Reaction Chambers.

TWT products are designed to provide comprehensive solutions to water and fluid management problems. The Copper Pipe Signal Enhancer and its equivalent for the magnetic pipe environment, TWT Reaction Chambers, offer the answer to limited signal penetration, ensuring optimal results. The copper signal enhancer is a passive signal / impedance matching circuit. This device provides a power boost to the conditioning signal in copper pipes.

**Special Note:** Copper pipe signal enhancers are to be used on copper pipe applications only. All TWT products and systems are shipped with easy to follow application and installation instructions (owners manual).



**Ensure that the water in your home or office is safe enough to use and drink...Cleaner Water is Healthier Water!**

### TWT® Is Your Simple and Safe Solution

TWT offers a full range of products & systems designed to address fluid problems wherever fluid flows. From TWT® patented deposit control technology to pre and post filtration needs, ionization, disinfection, and ultraviolet purification treatment and conditioning. Components and subsystems chosen from across the range of treatment methods can be combined in different configurations to provide custom solutions specific to your facility site or application.

TWT® has the versatile, efficient, cost-effective methods to solve your water / fluid management problems end to end.

**NO MATTER HOW TOUGH THE JOB...TWT® HAS THE SOLUTION**

**GO GREEN—SAVE GREEN!**

**DON'T WAIT...Contact us today for a free consultation!**  
**A luxury you CAN afford**  
**info@triangularwave.com • info@twtwatertreatment.com**

