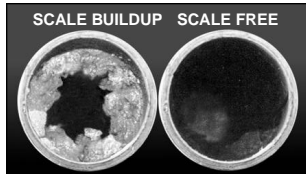


HARD WATER PROBLEMS SOLVED EASILY!

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

Your Simple and Safe Solution

- 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
- Removes Existing Scale on Heat Exchangers Over Time, Which Improves Heat Transfer for Greater Efficiency
- Salt and CHEMICAL -FREE Water Conditioning
- Pennies Per Day to Operate
- Cost Effective
- Easy to follow application & installation manual



TWT-5C8-472 Residential Commercial: For pipes up to 1" Voltage: 9 vdc Transformer

SATISFACTION GUARANTEED TWT

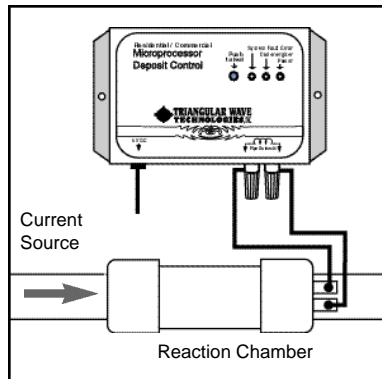
Freed water molecules dissolving existingscale

Solenoid wrapped pipe

TO ENSURE THE MAXIMUM EFFECT AND RESULTS OF OUR DEPOSIT CONTROL SYSTEMS PLEASE FOLLOW THESE GUIDELINES:

TRIANGULAR WAVE TECHNOLOGIES REACTION CHAMBERS

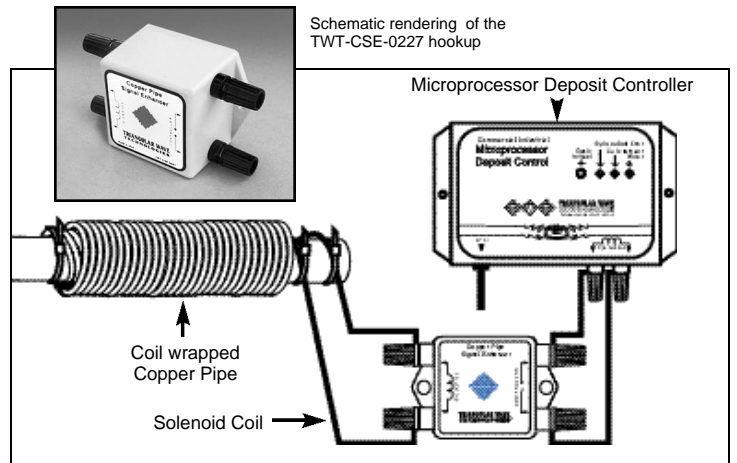
To use in conjunction with the TWT Deposit Control Systems when required, Triangular Wave Technologies, Inc. has developed a line of factory-wrapped wire coil Reaction Chambers to address magnetic pipe environments. **Typically, wire coil cannot be installed on any magnetic pipe, such as steel, galvanized steel, ductile iron, or cast iron.** If a coil is applied to such a pipe, the pipe becomes a shield and prevents the wave energy from entering the fluid path. The TWT Reaction Chambers solve this problem by providing an easily installed section of non-magnetic pipe to provide the proper pipe material for the Deposit Control System to work as designed. The TWT Reaction Chambers are fully sealed, protecting their two layers of factory-wrapped coil. The PVC, Stainless Steel and the Industrial Reaction Chamber systems are designed and manufactured to meet the highest quality specifications.



Schematic rendering of solenoid hookup

The TWT Reaction Chamber is part of the patented TWT Deposit Control Technology, the function of which is to control scale and bio-film in the plumbing infrastructure, fixtures, and water-fed appliances found in the facility being treated. The Reaction Chamber provides a chamber through which the water flows and is exposed to the triangular wave signal that lies at the heart of the deposit control technology. As the fluid passes through, it is treated and then carries that treatment downstream, to condition the rest of the plumbing system, non-chemically and reliably.

TWT-CSE COPPER PIPE SIGNAL ENHANCER (For copper pipes only)



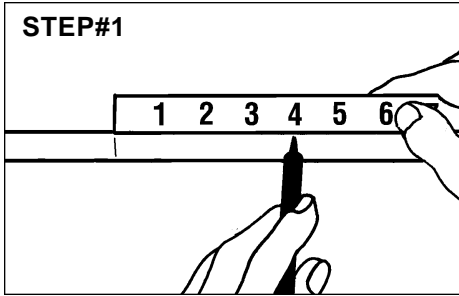
Schematic rendering of the TWT-CSE-0227 hookup

Copper pipes, although acceptable, are one of the more difficult of materials to work with. To overcome this difficulty...

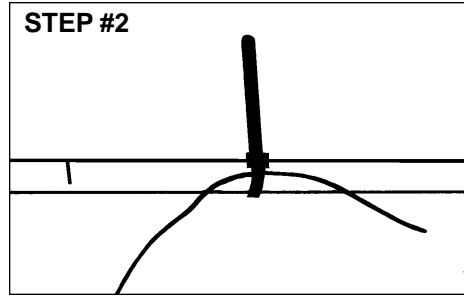
Triangular Wave Technologies has designed its Copper Pipe Signal Enhancer. This unit is placed between the controller and the copper pipe solenoid. The function of the signal enhancer is to provide a proper impedance match and to ensure maximum energy transfer between the controller and the solenoid, which ensures enhanced treatment of the fluid. The Copper Pipe Signal Enhancer must be used in all copper pipe applications to maximize the performance, and provide a boost to your application.

The copper signal enhancer is a passive signal / impedance matching circuit. This device provides a power boost to the conditioning signal in copper pipes.

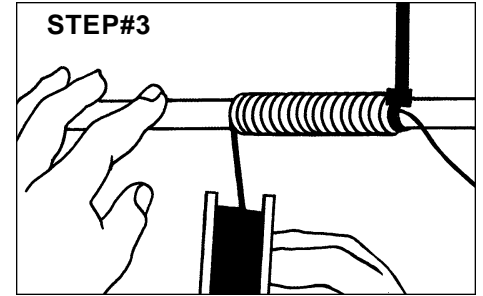
ON SITE SOLENOID INSTALLATION FOR MODEL #TWT-5C8-472 – Step by Step Instructions of Coil Wrap



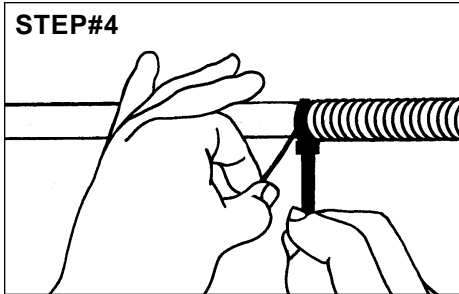
Measure and mark a 4" section in the middle of a straight pipe segment.



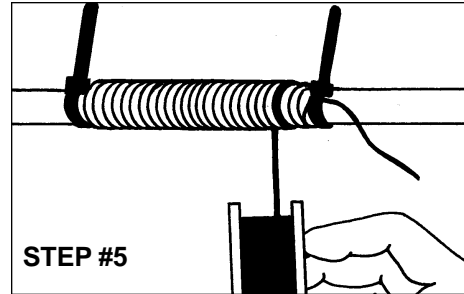
Fasten the signal wire to the pipe with a cable tie (provided) at one end of the 4" section.



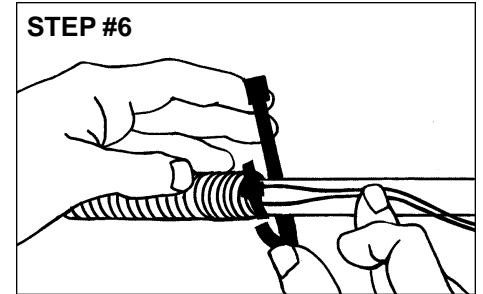
Wrap the signal wire around the pipe in a tight coil, in a clockwise manner, so that the adjacent wires are touching each other.



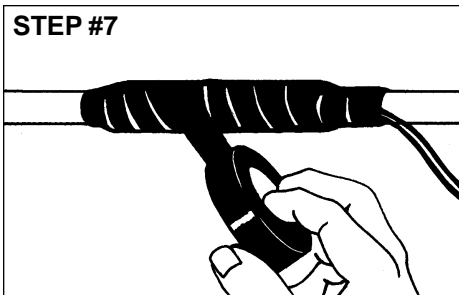
Continue to wrap until the 4" section of pipe is completely covered. Fasten down the end of the coil with the second cable tie (provided). You can hold the first layer in place with cloth tape or electrician's tape.



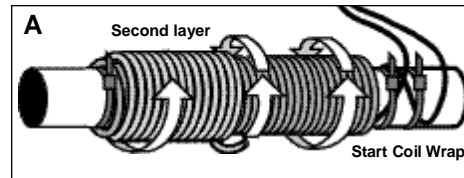
Add a second layer to the coil by continuing to wind in a clockwise manner starting where you completed the first layer and wind **back in the direction of the starting point.** (see Diagram A)



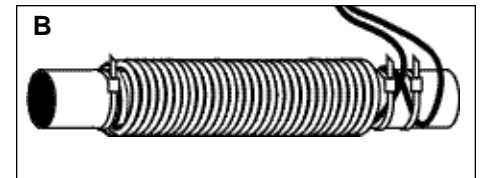
Complete the second layer by clamping the wire with third cable tie (provided). (See Diagram B Below)



Wrap the coil with vinyl industrial tape to help maintain a tight coil and protect the coil from loosening.



Do Not Twist or Cut Wire or the System WILL NOT Function. Place the second layer directly on top of the first layer. Be careful to wind the second layer tightly in the same clockwise manner as the first layer back in the direction of the starting point.



For high temperature applications of 176°F and above, request and use teflon wire. Teflon wire solenoid wrap sizes vary according to pipe material and pipesize, refer to the technical guidelines on the TWT website for additional information. TWT recommends that installers should use vinyl self-sealing industrial electrical tape for maximum protection and support of the solenoid coil wrap.

Take these steps before placing your purchase order

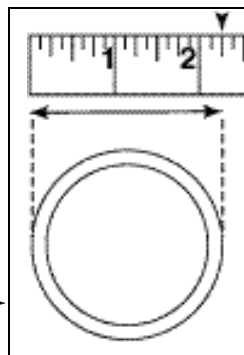
1. Know the performance capabilities and technical limitations of all TWT® products and systems to guarantee the proper installation application and treatment solutions.

2. Verify the pipes (size) to be treated in your systems, i.e., diameter of pipe (1", 2" etc.) pipe material – copper, PVC, steel, ductile iron, glass, rubber, etc.

Follow these simple procedures to verify pipe sizes (application) prior to submitting a purchase order. Conversion chart of field measurements to determine pipe size (same for any material, to nearest 1/4" inch).

Measuring with non-flexible ruler

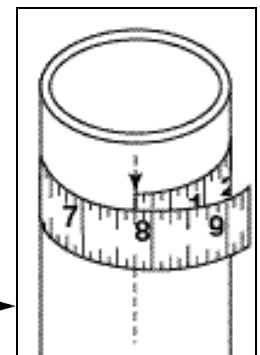
Outside Pipe Diameter (inches)	TWT Pipe Application (inches)
5/8"	1/2"
1"	3/4"
1 1/4"	1"
1 3/4"	1 1/2"
2 1/2"	2"



Example: Outside diameter of pipe measuring 2 1/4" = 2" TWT pipe application

Using tape measure or flexible ruler

Pipe Circumference (inches)	TWT Pipe Application (inches)
2 1/2"	1/2"
3 3/4"	3/4"
4 1/4"	1"
6"	1 1/2"
7 3/4"	2"



Example: Circumference of pipe measures 7 3/4" = 2" TWT pipe application