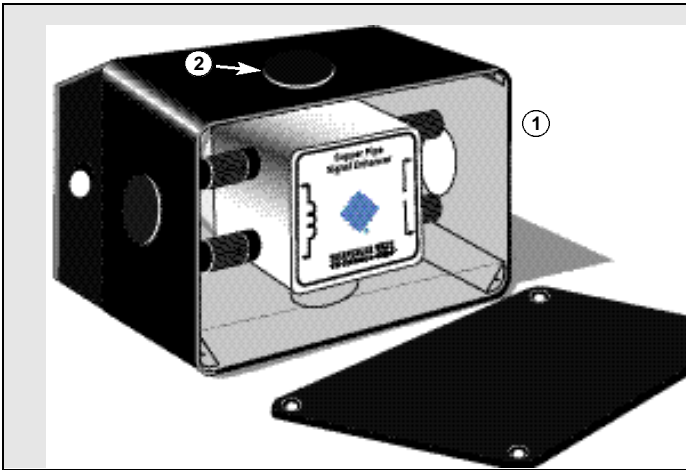


COPPER PIPE SIGNAL ENHANCER HOUSING & UNIT

For Easy Assembly When Using Copper Signal Enhancer (*for Copper Pipes Only*) - A Pre-Assembled Alternative to Separate CSE Components

Schematic renderings for illustrative purposes only



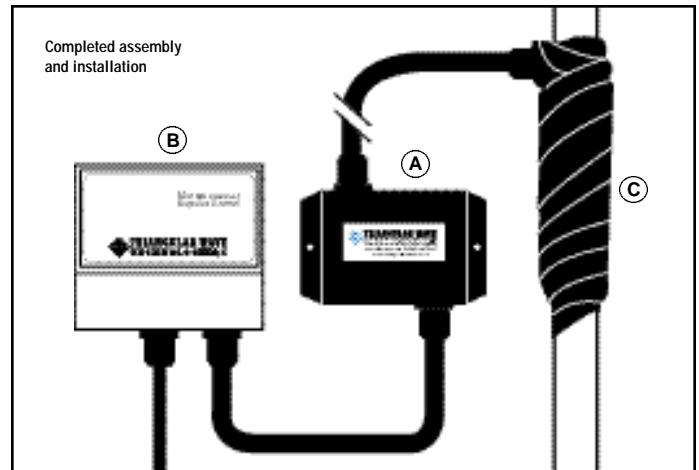
- | ITEM # | UNIT DESCRIPTION & COMPONENTS |
|-----------------|---|
| TWT-CSE-27LP70M | <p><i>For installation of copper pipes up to 2" only</i></p> <p>1- 1 CSE black housing box with pre-mounted CSE unit, and 4 pre-drilled 1/2" holes for easy assembly and installation. CSE unit may be mounted vertically or horizontally. Box dimensions: 5.5"W x 4.25"H x 1.75"D</p> <p>2- 2 plastic hole plugs (cover remaining holes)</p> |

- | ITEM # | UNIT DESCRIPTION & COMPONENTS |
|-----------------|---|
| TWT-CSE-29LP70M | <p><i>For installation of copper pipes up to 4" only</i></p> <p>1- 1 CSE black housing box with pre-mounted CSE unit, and 4 pre-drilled 1/2" holes for easy assembly and installation. CSE unit may be mounted vertically or horizontally. Box dimensions: 6.1"W x 4.6"H x 2.4"D</p> <p>2- 2 plastic hole plugs (cover remaining holes)</p> |

For ease of assembly and installation, TWT has pre-mounted its unique copper pipe signal enhancer in a black housing box! TWT developed the CSE to ensure enhanced signal penetration. This unit is placed between the controller and the copper pipe solenoid to provide a proper impedance match and to ensure maximum energy transfer between the controller and the solenoid coil, 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 pipe signal enhancer is a passive signal / impedance matching circuit. This device provides a power boost to the conditioning signal in copper pipes.

CSE units for larger copper pipe diameters available upon request



Completed System Installation Must Reflect:

- A.** CSE securely mounted in CSE Housing
- B.** Visual placement for deposit controller suitable for periodic visual inspection of LEDs
- C.** Solenoid coils should be covered with vinyl self-sealing industrial electrical tape to protect the coil from loosening (*see illustration on left*)

All wires must be securely fastened and/or taped to connections

All associated wiring/conduit/line cords must be fastened with plastic wire ties and out of harms way

CSE housing unit should be installed not more than 10 feet from onsite solenoid wrap installation for best results

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 pipe size, refer to the technical guidelines on the TWT website for additional information.

HAVE AN INDUSTRY-SPECIFIC TUBE AND/OR PIPE CONFIGURATION PROBLEM?

CONTACT OUR ENGINEERING STAFF, WHO WILL BE PLEASED TO WORK CLOSELY WITH YOU TO DETERMINE THE OPTIMAL SOLUTION TO MEET YOUR INDUSTRY SPECIFIC NEEDS