

Triangular Wave Technologies Patented Commercial and Industrial Chemical-Free Deposit Control Systems



TWT-5C8-406



TWT-5C8-408



TWT-5C8-410

Microprocessor Based Technology for all Commercial/ Industrial Applications

- Cooling Towers
- Heat Exchangers
- Condensers and Chillers
- Commercial Irrigation
- Public Swimming Pools
- Public Display Water Fountains
- Humidifiers
- Steam Cleaning Systems
- Spray Systems
- All Fluid Based Applications
- Prevents Scale Build up on Pipes and
- Equipment Surfaces
- Reduces or Eliminates the use of Dangerous Toxic Chemicals
- Reduces Corrosion
- Controls Algae and Bacteria
 - Without bio-film to house and protect it, biological growth can not feed or reproduce, resulting in greatly reduced biological activity.
- Works on Most Types of Pipe
- Takes Up Very Little Space and Plugs into a Standard Socket

The TWT Deposit Control System is an advanced method for controlling scale and bio-fouling in fluid based systems. The electronic deposit control technology uses a signal coil that is 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 magnetic field is hundreds of times weaker than refrigerator magnets used in the kitchen). The resulting induced, oscillating electric field provides the necessary molecular agitation for chemical-free scale prevention and removal.

- Polarity changes from positive to negative many thousands of times per second.
- Frequency varies from 2,000 cycles per second to 7,000 cycles per second. That range of frequencies is wide enough to affect the water and the materials in the water.
- Amplitude varies from 25 milliamps to 250 milliamps. This means that the water molecules and the materials in the water are being subjected to a wide range of field forces.

The entire Triangular Wave Signal is repeated 30 times each second. When the current reaches the solenoid, a constantly changing electro-magnetic field is formed. That field induces a constantly changing voltage in the fluid. This process ensures proper fluid treatment results and increased operational efficiency.

Compatibility and Versatility

The Triangular Wave System is compatible with all fluid based systems - residential, light commercial, commercial, and industrial. The Triangular Wave System solenoid coils and reaction chambers can be system integrated to deal with any system or construction configurations; and still provide the same maximum fluid conditioning.

Controls mineral and biological deposits, as well as corrosion in all fluid based systems. Once installed on the pipe, or as part of a bypass or reaction chamber system, the Triangular Wave System provides continuous and reliable water treatment.

TECHNICAL DATA

Model #	Height	Width	Depth	Voltage	Amperage	Signal Frequency	Pipe Size Range	Coil Lenth	Coil Wire Gauge
TWT-5C8-406	8.5"	11.5"	6"	120 vac	less than 3 Amp	2-7 KHz	up to 6"	4.5"	UL 1007 AWG#20
TWT-5C8-408	8.25"	10"	5.25"	120 vac	less than 3 Amp	2-7 KHz	up to 8"	TBD / Reaction Chamber Suggested	UL 1007 AWG#20
TWT-5C8-410	10"	12"	7"	120 vac	less than 3 Amp	2-7 KHz	up to 10"	TBD / Reaction Chamber Suggested	UL 1007 AWG#20

Custom Orders: 12", 14" and above sized units are available upon request.

