

TRIANGULAR WAVE *Fact Sheet*

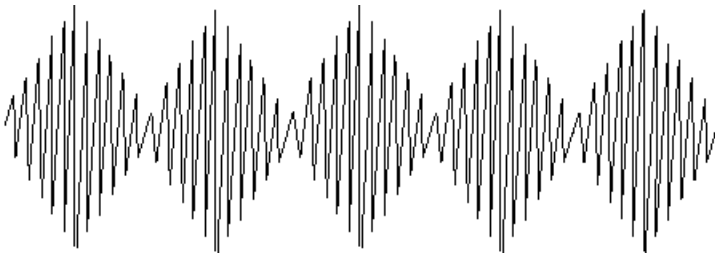
Triangular Wave Generators Surpass Square Wave Generators

Electro Magnetic Wave Generation Principal

Colloidal particles in the water will have their surface charges enhanced if there is an induced voltage applied to them. And, an induced voltage will only be applied if the current in the solenoid wire is changing.

Triangular Wave Generators--

The ***Triangular Wave System*** uses triangular wave generators to change polarity and modulate both the frequency and the amplitude of the current. The frequency varies from 2,000 Hz to 7,000 Hz, and the amplitude (power) varies from 0 to maximum in sync with the low frequency modulation. This wide spectrum of energy is key to enabling dissipation and prevention of harmful deposits and its many resulting problems.



The current to the solenoid is changing 100% of the time; therefore, there is an induced voltage applied to the colloidal particles 100% of the time, rather than a minimal amount of time as with a square wave generator.

Square Wave Generators-- A design that is unable to provide the wide spectrum of energy that the patented Triangular Wave System can and does.



Square Waves have flat plateaus and flat valleys, and the current in the solenoid wire only changes when the wave changes from a plateau to a valley or from a valley to a plateau. That change occurs only a minimal amount of the time. Therefore, the voltage is only induced a minimal amount of the time, and the water is only being treated a minimal amount of time. An overlay showing the wide spectrum of the triangular wave over the much less active square wave illustrates the difference.

