

WHAT'S IN YOUR WATER? IS YOUR WATER SAFE ENOUGH TO DRINK?

Triangular Wave Technologies, Inc. Ultraviolet Disinfection & Purification Systems is the Answer!

Residential • Commercial • Industrial Applications

TWT® C Series UV systems are factory engineered and assembled in one simple packaged solution. Ultraviolet Disinfection provides simplified prevention, treatment and management of water line contamination dangers. The TWT water disinfection/purification systems are unique, compact, self-contained units for the Purification of water.

Waterlines in the residential, commercial & industrial sectors, *where clean water is essential*, commonly allow a contaminated interior environment conducive to the growth of bacteria, protozoa, and fungi, which initially arrive in small numbers through wells, and public waterline plumbing systems. Over time, these microorganisms bind to the sides of your water pipes, tubing, and equipment forming biofilm. As water flows through the pipes and tubes, the biofilm sheds microorganisms and bacterial endotoxins into the water, leading to these harmful conditions.

How the TWT Disinfection/Purification systems work!

Ultra-Violet Disinfection/Purification:

The UV disinfection technology used in the system provides safe, potable drinking water, free of disease-causing pathogens. As water passes through the UV chamber, UV light will attack and render harmless any bacterial, viral or spore contamination present in the treated water. "High intensity UV light destroys these contaminants with a 99.9% kill rate" The output water is thus disinfected and offers exceptionally high quality for human consumption.



UV Monitoring System

This electronic safety device monitors lamp output and triggers the audible alarm when lamp output falls below recommended levels.

Solenoid Valve (on systems so equipped) Stops the Water Flow in the Event of a System Failure

The Solenoid Shut-Off Valve is a back-flow cutoff for use as a safety measure in the event of a system shutdown. Its use is strongly recommended for the medical and dental environments, and anywhere else that the highest degree of disinfection protection is required.

TWT® Disinfection/Purification Water Treatment Systems:

TWT C Series UV water treatment systems are ruggedly constructed for exceptional performance. These systems are ideally suited for Wells, Homes, Offices, Factories, Farms, Medical/ Dental & Laboratory Environments, Hospitals, Restaurants, Schools and anywhere the need for cleaner water to use and drink

are required. The rugged self-contained design of these systems ensure that the system will enjoy a long and reliable life cycle when properly cared for.

TWT offers several systems designed to treat and meet your individual & industry-specific needs.

TWT-UVC-2	4 GPM	Purification System
TWT-UVC-3	8 GPM	Purification System
TWT-UVC-4	12 GPM	Purification System
TWT-UVC-5	15 GPM	Purification System
TWT-UVC-6	30 GPM	Purification System
TWT-UVC-7	50 GPM	Purification System
TWT-UVC-8	100 GPM	Purification System

Upgrades (GPM): Available upon request

TWT UV Disinfection/Purification Treatment Systems



TWT-UVC-250 (4 GPM)
 Ultraviolet Disinfection/Purification System
 Mounted on St/St frame with Manual Shut-Off
 Valves, Alarm and UV Monitor
 Size: 26"W X 18"H 6"D
 Available 120V/60 Hz or 230V/50 Hz



TWT-UVC-700 (8 GPM)
 Ultraviolet Disinfection/Purification System
 Mounted on St/St frame with Manual Shut-Off
 Valves, Alarm and UV Monitor
 Size: 44"W X 20"H 10"D
 Available 120V/60 Hz or 230V/50 Hz



TWT-UVC-1200 (12 GPM)
 Ultraviolet Disinfection/Purification System
 Mounted on St/St frame with Manual Shut-Off
 Valves, Alarm, UV Monitor and Automatic
 Solenoid Valve
 Size: 44"W X 20"H 10"D
 Available 120V/60 Hz or 230V/50 Hz



TWT-UVC-1500 (15 GPM)
 Ultraviolet Disinfection/Purification System
 Mounted on St/St frame with Manual Shut-Off
 Valves, Alarm, UV Monitor and Automatic
 Solenoid Valve
 Size: 55"W X 20"H 10"D
 Available 120V/60 Hz or 230V/50 Hz



TWT-UVC-3000 (30 GPM)
 Ultraviolet Disinfection/Purification System
 Mounted on St/St frame with Manual Shut-Off
 Valves, Alarm, UV Monitor and Automatic
 Solenoid Valve
 Size: 55"W X 20"H 10"D
 Available 120V/60 Hz or 230V/50 Hz

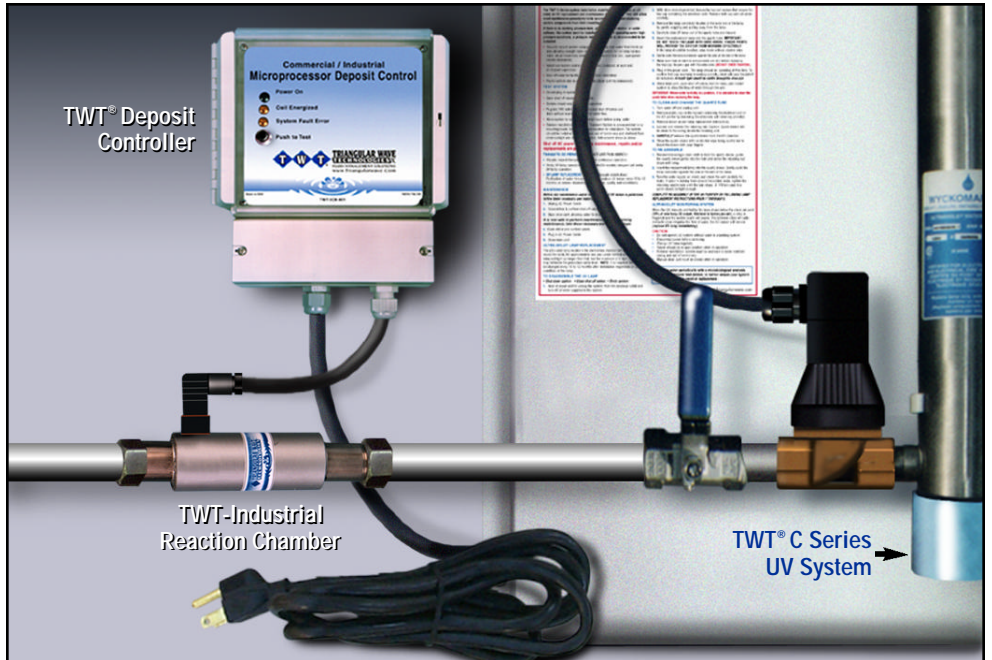


TWT-UVC-5000 (50 GPM)
 Ultraviolet Disinfection/Purification System
 Mounted on St/St frame with Manual Shut-Off
 Valves, Alarm, UV Monitor and Automatic
 Solenoid Valve
 Size: 55"W X 25"H 10"D
 Available 120V/60 Hz or 230V/50 Hz



TWT-UVC-6000 (100GPM)
 Ultraviolet Disinfection/Purification System
 Mounted on St/St frame with Manual Shut-Off
 Valves, Alarm, UV Monitor and Automatic
 Solenoid Valve
 Size:55"W X 25"H 10"D
 Available 120V/60 Hz or 230V/50 Hz

Patented Deposit Control Technology and TWT Ultraviolet Disinfection/Purification Treatment Process Integrated for Maximum Results! Recommended Configuration for Combined use as Illustrated



Deposit Control

TWT® Patented Deposit Control Technology

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 reaction chamber is 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. If left untreated, scale build-up inside the reaction chamber and on the quartz sleeve containing the UV lamps may rapidly diminish the UV disinfection effectiveness by reducing the amount of UV light which is absorbed into the water stream. The TWT Deposit Control System will further condition the water stream so as to prevent this scale-build-up inside the UV reaction chamber, helping to maintain maximum UV life cycle and penetration into the water stream.

Visit TWT web site for our complete line of Fluid Treatment Systems
www.Triangularwave.com

**TREATMENT SOLUTIONS
 DESIGNED TO FIT EVERY
 NEED**

DON'T WAIT...

contact us today

(info@Triangularwave.com)

for the Dealer/Distributor

near you and/or for

information on what TWT

system will meet your

specific application needs!

