

Technologically Advanced Method for Water & Fluid Management, Providing Comprehensive End-To-End Solutions.

TWT® Offers A Bold Series Of Chemical-Free Products & Systems Designed To Meet The Demanding Challenge In Fluid Management

Filtration • Patented Deposit Control Technology • Disinfection • Purification

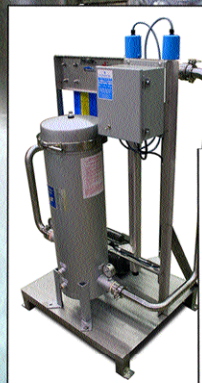
Potable Water, Process and Waste Water Treatment & Conditioning
Residential • Commercial • Industrial



Versatile Products & Systems To Effectively Meet The Treatment Needs Of Any Industry & Application

- Enhance Water Quality, Improve Operating Efficiency and Equipment Life Cycle
- Control Scale Deposits, Bacteria, Corrosion, Algae, Colloids In All Fluid Based Systems.
- Products & systems that pay for themselves in a short period of time

Sensing Environmental Needs with Intelligent Solutions!



Conserve water, Save Energy...Non-Chemical, Safe,
Cost-Effective Water Treatment Systems

TWT® The Ultimate in Water Treatment & Conditioning



**Technologically Advanced Products, Systems and Methods
To Effectively Meet The Needs Of Any Industry and Application.**

TWT® "The Competitive Edge" Go Green-Save Green

• Residential • Commercial • Industrial

TWT Inc. products and systems provide technologically advanced methods for water and fluid management that are both efficient and cost effective. Components and subsystems chosen from across the range of treatment methods can be combined in different configurations to provide custom solutions specific to GPM requirements and to any industry, site or application. TWT systems work to consistently deliver high quality water, reduce scale and bio-fouling in plumbing systems and to increase efficiency of both once through and recirculating HVAC, process cooling, agriculture, industrial processing, waste water and other fluid based systems. Each product line offers a variety of both stand alone and comprehensive treatment solutions for end to end fluid management, for all types of applications.

TWT offers a full range of products & systems designed to address fluid problems wherever fluid flows. From TWT® patented deposit control technology to pre and post filtration needs, ionization, disinfection, and ultraviolet purification treatment and conditioning.

The Triangularwave Technologies team consists of a diverse group of bright individuals with years of experience, who combine their talents as a team, revolutionizing the way fluid management products & systems are designed, distributed and installed. Our unique capabilities and design expertise have successfully solved a wide variety of problems for a wide variety of customers. TWT also has extensive design, engineering, manufacturing, consulting and training ability to work with customers worldwide, and to use its products and/or systems in whole or component form, as a component assembly, or as an accessory to their primary product. Take advantage of our outstanding manufacturing and marketing expertise.

Let TWT custom design a product and/or system to meet your specific application (footprint), flow rate, system integration, and/or retro-fit program requirements.

At TWT, Inc. our unique capabilities and custom design expertise have and continue to successfully solve a wide variety of problems for a wide variety of customers world wide commercial, industrial, and residential.

- **FROM IDEAS TO FINAL PRODUCTION**
- **EFFICIENT ENGINEERING DESIGN TEAM**
- **STATE-OF-THE-ART PRODUCTION EQUIPMENT AND FACILITIES TO MEET THE EVER CHALLENGING PRODUCTION REQUIREMENTS**
- **TECHNICAL AND TEST DEPARTMENT WITH OUTSTANDING QUALITY CONTROL GUARANTEED**
- **COST EFFECTIVE AND DELIVERED ON TIME**
- **IN ORDER TO ENSURE THE GREATEST LEVEL OF PERFORMANCE AND SATISFACTION WORKING WITH TWT PRODUCTS AND SYSTEMS, WE RECOMMEND THAT YOU CONTACT OUR ENGINEERING STAFF, WHO WILL BE PLEASED TO WORK CLOSELY WITH YOU TO DETERMINE THE OPTIMAL TREATMENT REQUIREMENTS, INSTALLATION AND APPLICATION FOR YOUR INDUSTRY SPECIFIC PROJECT.**
- **TWT TREATMENT EQUIPMENT IS A REUSABLE INVESTMENT AND RETAINS ITS VALUE-IF YOU MOVE YOUR FACILITY OR RE-ENGINEER YOUR PLUMBING SYSTEM, TWT EQUIPMENT MOVES WITH YOU.**

**Versatile Fluid Management
Products & Systems To
Effectively Meet The Needs
Of Any Industry &
Application**

- Control Scale Deposits
- Bacteria
- Corrosion
- Algae
- Colloids

In All Fluid Based Systems

**Potable Water, Process and
Waste Water Treatment &
Conditioning**

**PROTECTION FOR NEW
EQUIPMENT**

TWT provides new equipment with the ability to enhance the product features and benefits

**TREATMENT FOR
EXISTING EQUIPMENT**

Retrofit existing equipment to improve its operating efficiency and life cycle

ENHANCE PRODUCT LINE

Enter new markets and broaden customer satisfaction

CUSTOM DESIGN

Let TWT, Inc. custom design a fluid management system to meet any industry specific application

TWT products make sense from operational, economic, and safety points of view. Ownership of the TWT System will afford you and your customers significant savings over a short period of time and even greater savings over the life cycle of the equipment.



Triangularwave Technologies patented deposit control technology enhances the life cycle and operating efficiency of all filtration, disinfection and purification systems. System integration for enhanced results. End-to-end treatment solutions!

Control Scale Deposits / Bacteria / Corrosion / Algae / Colloids In All Fluid Based Systems

TWT Patented Deposit Control System:

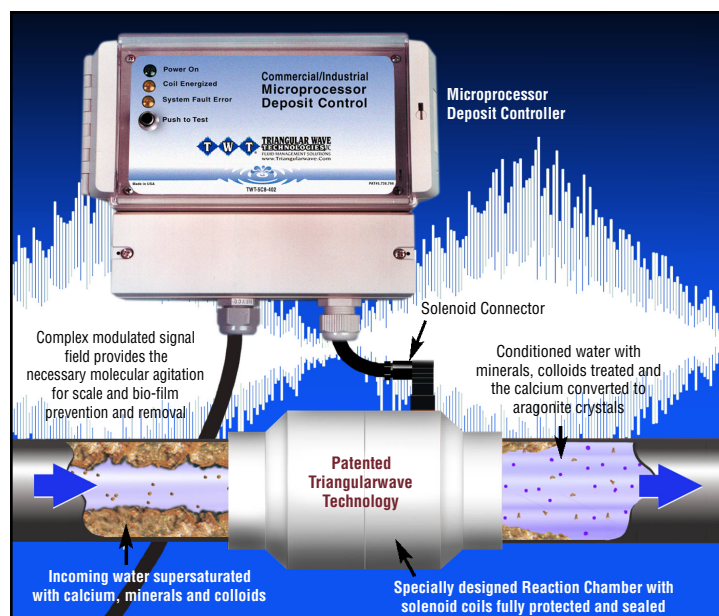
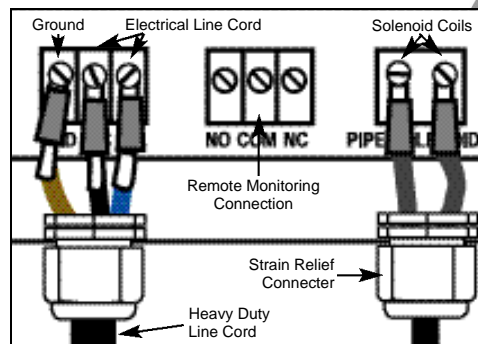
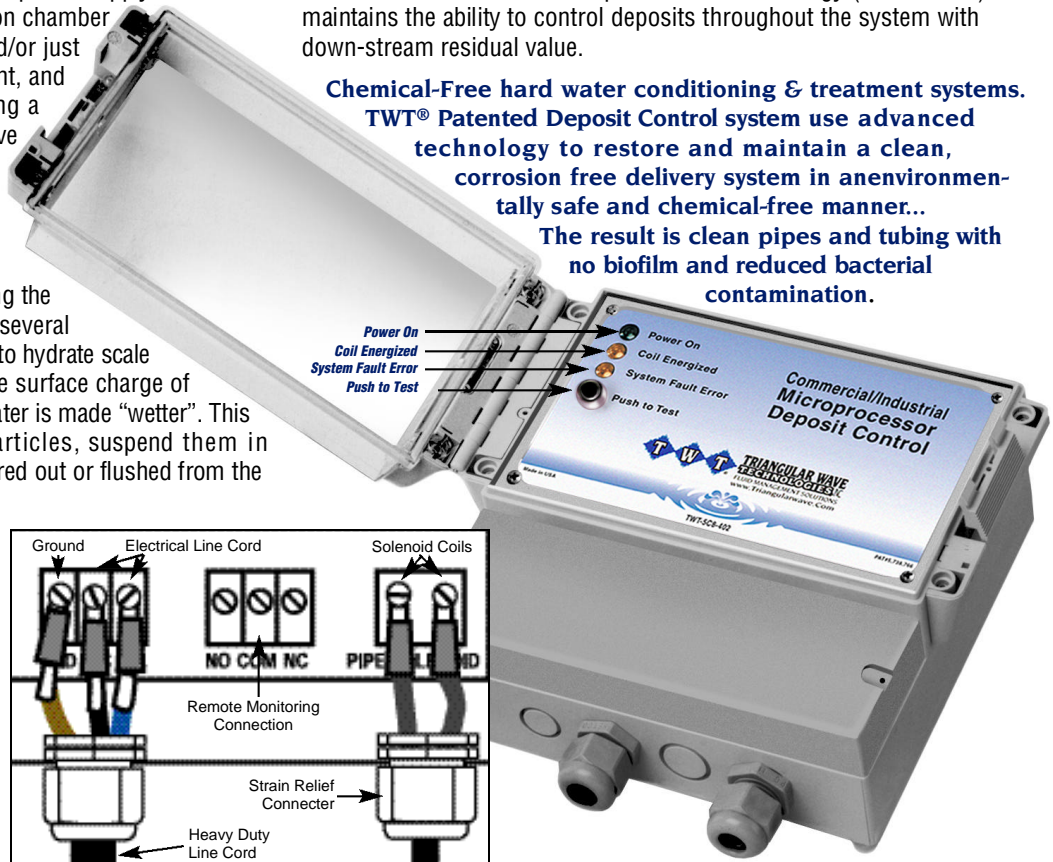
The basic component in the TWT systems is the deposit controller. It is comprised of a microprocessor, solenoid coil wrap and/or a reaction chamber. The microprocessor is a patented controller that functions like a small computer to relay a continuous electrical power supply to the solenoid coil and/or 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 triangularwave 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 triangularwave 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 filtered 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. TWT deposit control technology (treated fluid) maintains the ability to control deposits throughout the system with down-stream residual value.

Chemical-Free hard water conditioning & treatment systems.
TWT® Patented Deposit Control system use advanced technology to restore and maintain a clean, corrosion free delivery system in an environmentally safe and chemical-free manner...
The result is clean pipes and tubing with no biofilm and reduced bacterial contamination.



How TWT Deposit Control Technology Works:

Using modern integrated circuitry and signal processing techniques, the patented TWT Deposit Control Technology works by producing a complex frequency-modulated waveform. This creates a deionizing effect, induced by physical means, which increases the solubility of the minerals, and colloids in the liquid and changes the shape, size and texture of the calcium carbonate crystals.

By this reaction, the minerals, colloids and crystals lose their adhesive properties and remain in suspension in the liquid. Pre-existing scale is taken back into solution and removed in the same way. The effects are immediate and long lasting down stream.

TWT® Patented Deposit Control Technology Senses Environmental Needs with Intelligent Solutions.

Be Smart, Buy Once!

Go Green-Save Green

ISO Certified Facility



Email: info@triangularwave.com • triwaveinc@aol.com • websites: www.triangularwave.com • www.twtwatertreatment.com

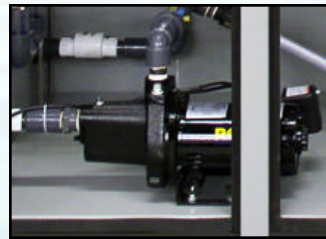
Multi-Process Filtration, Conditioning and Purification Technology "TWT® The Smart Treatment Systems & Methods"

Ownership of the modular treatment systems will afford you and/or your customers significant savings over a short period of time and even greater savings over the life cycle of the equipment.



TWT-CM-1500

Secure Cabinet Mounted Water Treatment
Rated Flow 10 GPM



Features:

- Triple Filtration Stages
- Ozone
- Iron Removal
- UV Disinfection
- On-Board Pump
- Mounted Inside a Secure Cabinet
- Indoor or Outdoor Operation
- Footprint: 66" X 66" X 31"
- Weight: 650 lbs.
- Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)

TWT-SMD-50-JCH90

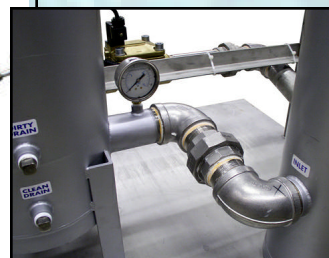
All-In-One Water Treatment: Filtration and UV Disinfection • Rated Flow 50 GPM



Front View



Back View



Features:

- Stainless Steel Filter Housing w/Jumbo 5 Micron Sediment Filter Cartridge and Pressure Gauge
- Stainless Steel Multi-Cartridge Filter Housing w/4 Carbon Cartridges
- UV5000 Sterilizer 316 SS
- NEMA IV Control Panel
- UV Monitor w/2 Sensors
- Solenoid Valves
- Manual Shut-Off Valves
- Skid Mounted on 304 SS
- Footprint: 48" X 52" X 63"
- Weight: 270 lbs.

Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)

All-In-One Integrated Water Treatment Systems P.O.E. / P.O.U. Applications

Chemical-Free • Multi-Stage Filtration • Electronic-Magnetic Fluid Conditioning • UV Disinfection / Purification

TWT-SMD50P-JCH90: UV Disinfection for Food Processing – Single Stage Filtration • Rated Flow 50 GPM



TWT-SMD50P-JCH902: UV Disinfection for Food Processing – Dual Staged Filtration Rated Flow 50 GPM



- Features:**
- Single or Dual Filtration Stages
 - UV Disinfection
 - On Board Pump
 - NEMA IV Control Panel
 - Sanitary Fittings and Pipes
 - Manual Shut-Off Valves
 - Mounted on 304 SS Skid
 - Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)

TWT-SMD50-BBBX1
All-In-One Water Treatment: Micro Filtration and UV Disinfection • Rated Flow 50 GPM



- Features:**
- Polypropylene Filter Housing w/5 Micron Sediment Filter Cartridge and Pressure Gauge • Electronic Deposit Control
 - UV5000 Sterilizer 316 SS
 - NEMA IV Control Panel
 - UV Monitor w/2 Sensors • Solenoid Valves
 - Chemical Feed Pump • Ph Sensor/Controller
 - ORP Sensor/Controller • Manual Shut-Off Valves
 - Flange In/Out Ports • Skid Mounted on 304 SS
 - Footprint: 52" X 52" X 65" • Weight: 250 lbs.
- Also available in dual filtration
- Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)



TWT-SMD50-BBBX2



- Features:**
- Dual Filtration Stages (Sediment 20 and 5 Micron) in Polypropylene Filter Housings
 - UV Disinfection with Monitoring System
 - Solenoid Valve
 - All Electronics inside NEMA IV Control Panel
 - Manual Shut-Off Valves
 - Mounted on 304 SS Skid
 - Footprint: 42" X 42" X 62"
 - Weight: 270 lbs.
 - Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)

The Return On Investment Of A TWT System Is Undeniably Significant From Operational, Economical, And Safety Points-Of-View.

TWT-SMD-50P-JCHX1

All-In-One Water Treatment: Single Micro
Filtration and UV Disinfection
Rated Flow 50 GPM



TWT-SMD-50P-JCHX2

All-In-One Water Treatment: Dual Filtration and UV Disinfection
Rated Flow 50 GPM



Features:

- Stainless Steel Filter Housing w/Jumbo Sediment Filter Cartridge and Pressure Gauge
- Post Filter in Big Blue Housing
- UV5000 Sterilizer 316 SS
- NEMA IV Control Panel
- Manual Shut-Off Valves
- Skid Mounted on 304 SS
- Footprint: 48" X 52" X 63"
- Weight: 270 lbs.
- Optional:
- UV Monitor
- Solenoid Valves
- TWT® Deposit Control Technology (Hard water conditioning & treatment)

TWT-SMD-100P-BBBX3

All-In-One Water Treatment: Filtration
and UV Disinfection — Rated Flow 100 GPM



Features:

- Triple Filtration Stages (Sediment 50, 20 and 5 Micron)
- Filter Housings with Pressure Gauges
- UV Disinfection
- On Board Pump
- All Electronics inside NEMA IV Control Panel
- Mounted on Stainless Steel Skid
- Footprint: 36" X 50" X 53"
- Weight: 590 lbs.
- Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)



Economical & Cost Effective • Energy & Water Savings

Multi-Process Water / Fluid Management Systems

TWT-SMD-100-JCHX1

All-In-One Water Treatment: Filtration and UV Disinfection – Rated Flow 100 GPM



Features:

- Filter Housing 316 SS Jumbo 5 Micron Sediment Filter Cartridge and Pressure Gauges
- Dual UV5000 Sterilizer 316 SS
- 2 UV Monitors w/4 Sensors
- NEMA IV Control Panel
- Solenoid Valves
- Manual Shut-Off Valves
- FNPT In/Out Ports-Flanges Available
- Skid Mounted on 304 SS
- Footprint: 52" X 52" X 65"
- Weight: 250 lbs.
- Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)



TWT-SMD-200-4

Point-Of-Entry / Point-Of-Use Treatment System
Rated Flow 200 GPM



Features:

Factory assembled skid mounted, fork lift/ fluid management system. This system is a compact, self-contained, skid-mounted unit for the treatment of water.

- Approx Size: 84"W X 72"H X 60"D (may vary according component assembly)
- Approx weight: 800 lbs. (may vary according to custom design) • Piping: 3" In/Out of system • 200 GPM • Filter medium and micron sizes used in staged filter housings are configured as illustrated. Other filter medium and micron sizes are available and are based upon input water quality and customer and/or industry specific treatment requirements (medium TBT). Micronic sizes of filters are generally 20, 30, 50 microns, unless otherwise specified. • Skid Mounted Water Treatment System • 4-Filter Housings • Staged Filtration • TWT® Deposit Control Technology • 7 Lamp Ultra Violet Disinfection & Purification • And other related components that provide for easy installation and operation • Stainless Steel Skid



Custom System Design & Integration To Create Solutions For Your Own Industry-Specific Situation

Test proves Triangularwave Technologies, Inc. deposit control systems reduces the fouling effects caused by "hard water" on the quartz and UV lamp inside the

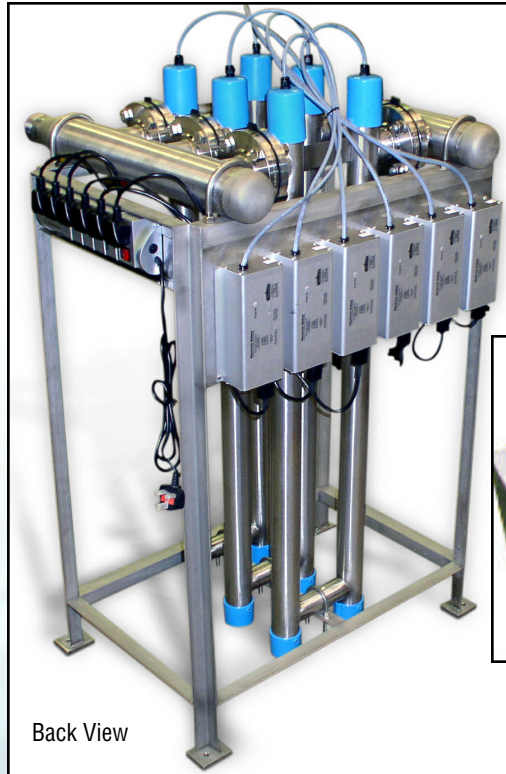
disinfection/purification unit while maintaining residual effects downstream chemically free.

TWT-SMD-150-UV3

UV Disinfection • Rated Flow 150 GPM



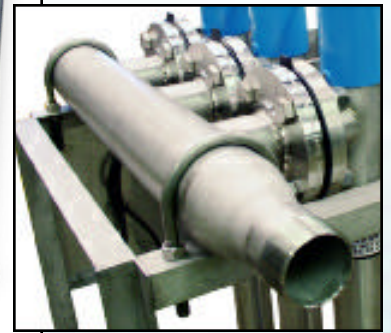
Side View



Back View

Features:

- Triple UV-5000 Sterilizer 316 SS in Parallel Manifold
- Power Bar w/Surge Protector
- MNPT In/Out Ports, Flange Optional
- Rack Mounted
- Footprint: 52" X 52" X 65"
- Weight: 250 lbs.
- Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)



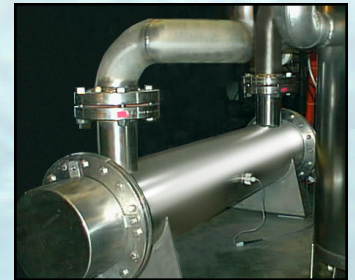
TWT-Skid5007

High Dose UV Disinfection • Rated Flow 220 GPM



Features:

- UV Disinfection for Drinking Water
- UV Monitor, Electronic Ballast
- Lamp Out Alarm
- NEMA IV Control Panel
- 3" Flanges In/Out
- Optional In/Out at 90 Deg
- Mounted on Stainless Steel Skid
- Footprint: 72" X 36" X 58"
- Weight: 270 lbs.
- Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment)



TWT-UV5007-220 GPM
7 lamp Disinfection & Purification Systems

TWT, Inc. Bringing You The Best in Fluid Management Solutions

Provide Your Customers With Technologically Advanced Modular Water Treatment Systems.

Chemical-Free water treatment, conditioning and purification technology. Available for the building industry, residential, restaurant, schools, corrections, aviation, telecommunications markets, marine industry, rainwater harvesting, agriculture/irrigation, boilers, car wash, marine industry-houseboats, laundry & cleaning industry, cooling towers, heat exchangers, condensers & chillers, evaporators, boilers/water heaters, power generation, condensers, public display fountains, food processing equipment, hotel/ motel, remote areas.

Residential, commercial and industrial facilities worldwide.

TWT treatment products & systems are ruggedly constructed for exceptional performance. The rugged self-contained design of these products & systems ensure that they will enjoy a long and reliable life cycle, providing efficient & cost effective end-to-end solutions.

Triangularwave Technologies, Inc. (TWT) Offers:

- Custom System Design & Integration Creating Solutions For Your Own Industry-Specific Situation
- Chemical-Free Deposit Control Technology
- Control Scale Deposits/Bacteria/Corrosion/Algae and Colloids in Pipes, Fixtures and Equipment.
- Ultraviolet and/or Ozone Disinfection
- Ionization Purification
- Pre & Post Filtration

- Other Value Added Components & Technology
- Improving Operating Efficiency & Life Cycle Of Equipment
- Economical & Cost Effective
- Energy & Water Savings
- All-In-One Modular Treatment Units Are Shipped To Customers Ready To Put In Place, Plum Into water Feed Lines And Operate.

In order to ensure the greatest level of performance and satisfaction in your work with the TWT products & systems, we recommend that you contact our engineering staff, who will be pleased to work closely with you to determine the optimal application and installation for your industry specific needs.

TWT products make sense from operational, economic, and safety point of view. Ownership of the TWT System will afford you and our customers significant savings over a short period of time and even greater savings over the life of the equipment. ***Contact your Distributor or TWT today***

(info@Triangularwave.com) for information on what TWT system will meet your specific application needs and/or visit Triangularwave Technologies, Inc. Comprehensive Websites. The Valuable Technical Resource For All Involved In Water And Fluid Management. www.triangularwave.com
• twtwatertreatment.com

Let TWT, Inc. custom design a system to meet your specific application (footprint), system integration, and/or retro-fit program needs.



We sincerely thank you for your time and interest in our products, and look forward to being a valued part of your operation.

**See additional technologically advanced systems and methods for yourself—
Go to www.triangularwave.com • www.twtwatertreatment.com**

TWT® has the versatile, efficient, cost-effective methods to solve your water/fluid management problems end to end.

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