

Triangularwave Technologies Inc. (TWT®)

TWT® PATENTED DEPOSIT CONTROL TECHNOLOGY

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

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

• Residential • Commercial • Industrial

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



ISO Certified Facility

**HARD WATER PROBLEMS
SOLVED EASILY**
Efficient, Cost Effective
& Reliable



Chemical-Free Fluid Management Products & Systems To Enhance Water Quality,
and Improve Operating Efficiency and Equipment Life Cycle

Filtration • Deposit Control • Disinfection • Purification
Potable Water, Process and Waste Water Treatment & Conditioning

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

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

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

TWT® The Ultimate in Alternative Energy, Water Treatment & Conditioning

Go Green - \$ave Green!

Triangularwave Technologies, Inc. (TWT®)

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

- Residential
- Commercial
- Industrial

Versatile Fluid Management Products & Systems To Effectively Meet The Needs Of Any Industry and Application Commercial • Industrial & Residential

TWT, Inc. is focused on providing a complete selection of top quality water treatment, purification and conditioning solutions to discriminating consumers who demand the very best in water quality. Our mission is to provide you, the consumer, with direct access to premium water treatment technology solutions for you in your residential, industrial and commercial applications

TWT, Inc. offers a full range of products & systems designed to address fluid problems wherever fluid flows. From patented deposit control technology to pre and post filtration, ionization, iron removal, disinfection, and ultraviolet purification treatment and conditioning, TWT has the versatile, efficient, cost-effective methods to solve your fluid management problems end to end.

- Controls scale, bio-film & corrosion
- Enhance operating efficiency & life-cycle of equipment
- Saves water & energy
- Protect new equipment: TWT provides new equipment with the ability to enhance it's features and benefits
- Treatment for existing equipment: Retrofit existing equipment to improve its operating efficiency and life-cycle

HOW TO CHOOSE THE RIGHT SYSTEM: Choosing the right system depends on these things...

- The water treatment requirements dictated by the base water quality and environmental factors found in your geographic location.
- The levels of chemical/biological contaminants found in your personal water source as revealed in an independent water quality test.
- The pipe size and material of the water pipe feeding your home, office, facility or processing equipment.
- The minimum amount of water measured in gallons per minute (GPM) necessary to satisfy your peak water usage.
- Power/Current source available in your part of the world.

At TWT we feel the simplest way to choose a system depends on your personal situation. Home/office and facility owners with well water have different water treatment requirements than users who rent an apartment in a city. People with municipal water may choose to rely on a scaled down system that meets their current needs, while people drinking untreated ground or surface water need to fully account for all aspects of water treatment in order to guarantee the purity of their water. Contractors and architects building large projects or facilities managers responsible for maintaining expensive H.V.A.C. equipment have unique water treatment requirements as well. **If you need guidance choosing the right system, contact us.**

LOOKING FOR A CUSTOM SYSTEM SPECIFICATION?

- Regardless of the size of your home/facility, or your budget, TWT has the right water treatment products at the right price that will enable you to get the quality water you deserve.
- For clients managing a household or office who are looking for a custom system tailored to a specific set of requirements, TWT offers a **FREE CUSTOM SYSTEM SPECIFICATION**. Designing and implementing custom integrated "All-in-One" systems is one of our specialties, so if you are looking for a comprehensive custom water treatment solution for your home/office or facility, you have come to the right place.
- For clients with moderate water usage requirements, TWT can guide you in selecting the right combination of Point-of-Use products (Counter Top, Under Counter, Shower Heads)... to ensure that all of the water you drink, wash with and cook with is safe for your consumption.

In order to ensure the greatest level of performance and satisfaction in your work with the TWT products & systems, we recommend that you review [Frequently Asked Questions](#) and [Alphabetical Listings of Topics on the TWT website](#). You may also 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.

- **All products & systems are shipped with easy to follow installation and application guidelines.**

SATISFACTION GUARANTEED

Although Triangularwave Technologies, Inc. has attempted to ensure the accuracy of the content of this publication, and its website, it is possible that they may contain technical inaccuracies, typographical, or other errors. Triangularwave Technologies, Inc. assumes no liability for any error in its publications, and for damages, whether direct, indirect, incidental, consequential or otherwise.

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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

Triangularwave Technologies, 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 any industry, site or application.

TWT systems work to consistently deliver high quality water and fluids, reduce scale and bio-fouling in plumbing systems, and to increase efficiency of both once-through and re-circulating HVAC, process cooling, agriculture, industrial processing, wastewater and other fluid based systems. Each product line offers a variety of both standalone and comprehensive treatment solutions for end-to-end fluid management, for all types of applications.

Specializing in:

- 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
- Chemical-Free Deposit Control Technology Products & Systems
- Improving Operating Efficiency & Life Cycle of Equipment
- Control Scale Deposits/Bacteria/Corrosion/Algae and Colloids in Pipes, Fixtures and Equipment
- Ultraviolet and/or Ozone Disinfection Systems / Ionization Purification Systems
- Pre & Post Water Filtration Products
- Custom System Design & Integration to Create Solutions for Your Own Industry-Specific Situation

- Value Added & Retrofit Programs
- Economical & Cost Effective
- Energy & Water Savings

Applications: P.O.E. / P.O.U.

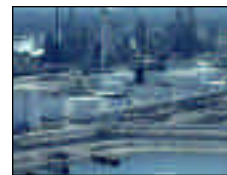
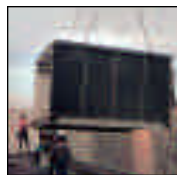
Commercial • Industrial • Residential

- Cooling Towers • Heat Exchangers • Condensers & Chillers
- Food Processing Equipment • Swimming Pools & Spas
- Manufacturing Processing Equipment • Boilers/Water Heaters
- Spray Systems • Small Water-Fed Appliances
- Residential/Office Plumbing • Medical/Dental Laboratory
- Agriculture • Laundry • Car Wash • Waste Water Treatment
- And All Other Water And Fluid-Based Industries

Industrial Specific and full product, technical information available upon request

TWT Deposit Control Systems enhance other treatment technologies as well, including chemicals, ozone, ultraviolet, separators and other filtration systems, keeping them clean and enhancing their operation. In this way, their full treatment benefits are realized, with reduced maintenance requirements. Consider using TWT Deposit Control Systems in conjunction with any fluid treatment systems as a complementary technology.

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.



Versatile Products & Systems To Effectively Meet The Needs Of Any Industry & Application
Control Scale Deposits • Bacteria • Corrosion • Algae • Colloids In All Fluid Based Systems

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

TWT® The Ultimate in Water Treatment & Conditioning





WHAT IS IN YOUR WATER?

ARE YOU PREPARED?

DO YOU HAVE AN EFFECTIVE WATER TREATMENT SYSTEM?

Are you suffering from the
scaling effects of hard water?

Is there potentially harmful
bacteria in your water?

Do you have toxic chemicals
in your water?

Is rust staining your bathroom
and fouling your expensive
appliances?

Are you concerned about the
level of chlorine/fluoride in
your water?

Does your water smell bad?

Do you have multiple concerns
about the quality of your water?

Are you uncertain about the
quality of your water?

Well water users: are you
choosing the right solutions?

The good news is, there is
something you can do to solve
all of the problems you may
encounter with your water

TWT® provides consumers and contractors with direct access to the highest quality water treatment and purification technology solutions commercially available

TWT® Products & Systems

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Patented Deposit Control Technology

Hard Water Conditioning & Treatment

Deposit control technology works by producing a complex frequency-modulated waveform. This creates a de-ionizing 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. Hard water conditioning & treatment technology.

TWT Chemical-Free Deposit Control Systems.....12-18

Accessories (For Deposit Control Applications)19

Water Quality Test Kits.....20

Copper Pipe Signal Enhancer (For Copper Pipes Applications Only).....21

Reaction Chambers (Factory Wrapped Wire Coil Solenoid).....21-24

Chemical-Free All-In-One Water Treatment Kits

Kits include Double Filtration, Deposit Control with Copper Pipe Signal Enhancer and UV Purification

Treatment Kits..... 25

Multi-Process Integrated Water Treatment Systems

TWT Filtration, Microprocessor Deposit Control Technology, Reaction Chamber and UV Disinfection units are combined to provide a start to finish answer to simplified prevention, treatment and management of water line contamination dangers.

Multi-Staged Bacterial Reduction Systems 26-28

Point-of-Use Water HVAC Treatment & Conditioning System.....29

All-In-One Series Integrated Water Treatment Systems & Fresh Water/Rain Water Harvesting.....30-44

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Total Water HVAC Control System (TWCS)..... 48-49

Through ionization, disinfection, purification and deposit control technology control scale deposits, algae, bacteria and corrosion without the need for chemicals. Eliminate the bio-film that serves as a breeding ground for disease-causing bacteria, collecting in your piping, tubing, heating and other related equipment.

Multi-Process High Volume Ultraviolet Disinfection & Purification Systems. Plus Transportable Multi-Staged Water Treatment Systems..... 50

Ionization & Purification Technology

TWT advanced method for HVAC, Pool Management and Control. Through IonGuard disinfection, purification and deposit control technology, the system controls scale deposits, algae, bacteria and corrosion without the need for chemicals. Eliminate the bio-film that serves as a breeding ground for disease-causing bacteria, collecting in your pool, piping, tubing and equipment.

Multi-Process Staged Sediment ByPass Treatment Systems.....51

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**(Don't know what you need?)
REQUEST A QUOTE FOR
WATER & FLUID TREATMENT
ON THE TWT WEBSITES
CLICK ON CONTACT**

**REQUEST A QUOTE OR SEEK
TECHNICAL INFORMATION**

You may fill in the on line form and submit it to us, or you may print it, fill it in, and fax it to us at
(201) 750-1096

Please note that all fields marked with a (red *) must be completed in order to receive a response.

If you have trouble submitting the form via the online submit button, please send an e-mail to: info@triangularwave.com

or

triwaveinc@aol.com with all of your contact information.

TWT is happy to provide this quote and information request form to make your evaluation and purchase process as streamlined as possible. Your complete system quote and/or additional information will be provided to you by either TWT or an authorized TWT dealer or distributor, via e-mail (or fax, if requested). Please feel free to call us with any questions.

For additional technical and product information visit us at
www.triangularwave.com
www.twtwatertreatment.com



TWT® Products & Systems (P.O.E. / P.O.U.) Index

Ultraviolet (UV) Technology

As water passes through the UV chamber the UV light attacks and renders harmless bacterial, viral or spore contamination present in the treated water. The out put water is thus disinfected and offers exceptionally high quality for processing, human consumption and use.

Ultraviolet Purifiers Products, Systems & Accessories57-69

Ozone Disinfection & Purification Technology

The Ozonator is a natural, safe way to purify water in many different applications. It eliminates the need for chemicals which can be irritating to people and costly to budget.

Ozone Products & Systems.....70-72

Filtration

Filters are designed to trap various kinds of debris and organic particles that will otherwise enter your equipment and/or plumbing system; restrict flow and create a breeding ground for bacteria.

Reverse Osmosis..... 73-82

Reverse Osmosis (RO) is a modern process technology to purify water for a wide range of applications, including semiconductors, food processing, biotechnology, pharmaceuticals, power generation, seawater desalting, and municipal drinking water.

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NOTE:

Product and system engineering, design, weight, size and component assembly may vary, based on TWT, Inc. engineering review, water conditions, application, industry and/or customer specific requirements.

All TWT products and systems can be used for either P.O.E.(point-of-entry) and/or P.O.U. (point-of-use) water conditioning & treatment

All products and systems are shipped to customers with application, installation and maintenance information (manuals).

Product & System current source:110/20V • 220/30V, other.
(must specify at time of purchass for all projects) .

Sensing Environmental Needs with Intelligent Solutions

TWT® The Ultimate in Water Treatment & Conditioning

Go Green - \$ave Green!

TRIANGULARWAVE TECHNOLOGIES, INC. (TWT®) PRODUCT SUMMARY

Sorted by Technology

P.O.E. Point-of-Entry • P.O.U. Point-of-Use
Residential • Commercial • Industrial

TWT, Inc. offers a full range of products & systems designed to address fluid problems wherever fluid flows. From patented deposit control technology to pre and post filtration needs, ionization, iron removal, disinfection, and ultraviolet purification treatment and conditioning, TWT has the versatile, efficient, cost-effective methods to solve your fluid management problems end to end.

- Versatile fluid management systems to effectively meet the needs of any industry and application
- Controls scale, bio-film & corrosion
- Enhance operating efficiency & life cycle of equipment
- Saves water & energy
- Protection for new equipment: TWT provides new equipment with the ability to enhance its features and benefit
- Treatment for existing equipment: Retrofit existing equipment to improve its operating efficiency and lifecycle
- Value added technology
- System integration
- Retrofit programs
- Industry-specific custom design
- Consulting, training and service before, during and after sales.
- Enter new markets and broaden customer satisfaction

TWT® Patented Deposit Control—Technologically Advanced Method for Water & Fluid Management Providing Comprehensive End-To-End Treatment & Conditioning (chemical-free)

TWT Patented Deposit Control System:



Hard water problems solved easily. Control scale deposits, bacteria, corrosion, algae, colloids in all fluid based systems. Providing comprehensive end-to-end treatment & conditioning **(chemical-free)**.



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.

TWT Reaction Chamber:

The TWT Reaction Chamber is part of the patented TWT Deposit Control Technology, the function of which is to control scale and bio-film in the plumbing infrastructure, fixtures, and water-fed appliances found in the facility being treated. The Reaction Chamber provides a chamber through which the water flows and is exposed to the Triangularwave signal that lies at the heart of the deposit control technology. As the fluid passes through, it is treated and then carries that treatment downstream, to condition the rest of the plumbing system, non-chemically and reliably.



To use in conjunction with the TWT Deposit Control Systems when required, Triangularwave Technologies, Inc. has developed a line of factory-wrapped wire Reaction Chambers to address magnetic pipe environments. —Typically, *wire coil cannot be installed on any magnetic pipe, such as steel, galvanized steel, ductile iron, or cast iron.* If a coil is applied to such a pipe, the pipe becomes a shield and prevents the wave energy from entering the fluid path. The TWT Reaction Chambers solve this problem by providing an easily installed section of non-magnetic pipe to provide the proper pipe material for the Deposit Control System to work as designed. The TWT Reaction Chambers are fully sealed, protecting their two layers of factory-wrapped coil. The PVC, Stainless Steel and the Industrial Reaction Chamber systems are designed and manufactured to meet the highest quality specifications.

Copper Pipe Signal Enhancer:

Copper pipes, although acceptable, are one of the more difficult of materials to work with. To overcome this...

TWT has developed its Copper Pipe Signal Enhancer. This unit is placed between the Deposit Controller and the solenoid coil on the copper pipe. The function of the signal enhancer is to provide a proper impedance match and to ensure maximum energy transfer between the controller and the solenoid, which, in turn, ensures enhanced treatment of the fluid.

Magnetic pipe materials such as steel, galvanized steel, iron, ductile iron or cast iron become shields and prevent the proper energy transfer to the fluid path. For magnetic pipe applications we offer a full line of factory wrapped wire coil Reaction Chambers. TWT products are designed to provide comprehensive solutions to water and fluid management problems. The Copper Pipe Signal Enhancer and its equivalent for the magnetic pipe environment, TWT Reaction Chambers, offer the answer to limited signal penetration, ensuring optimal results. *The copper signal enhancer is a passive signal / impedance matching circuit. This device provides a power boost to the conditioning signal in copper pipes.*

Special Note: Copper pipe signal enhancers are to be used on copper pipes only.



Ionization—for bacteria, algae, fungus control in Pools, Spas, HVAC



IonGuard Purification System- All-In-One package solution, TWT Ionization, Purification, Disinfection, Deposit Control Technology:

The IonGuard Purification System is an electrolytic copper /silver ion generator. The system units contain specially cast copper/silver alloy electrodes.

These electrodes are mounted in a housing designed for easy access (HVAC & Pool Environments). The IonGuard Purification System purifies water through a process called ionization. This process utilizes a low voltage direct current (DC) to place precise and minute amounts of copper and silver ions into water systems. Copper ions kill algae and silver ions kill bacteria (integrate with TWT deposit control technology for enhanced results).

Ultraviolet Disinfection /Purification

High intensity bacteria control for potable water, waste water, food service, sanitary, pharmaceutical applications and anywhere the need for safe water required.

Ultraviolet Disinfection/ Purification Systems:

The UV disinfection technology used in the system to provide



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% or greater kill rate". The output water is thus disinfected and offers exceptionally high quality for human consumption.

Ultraviolet Sterilization Technology

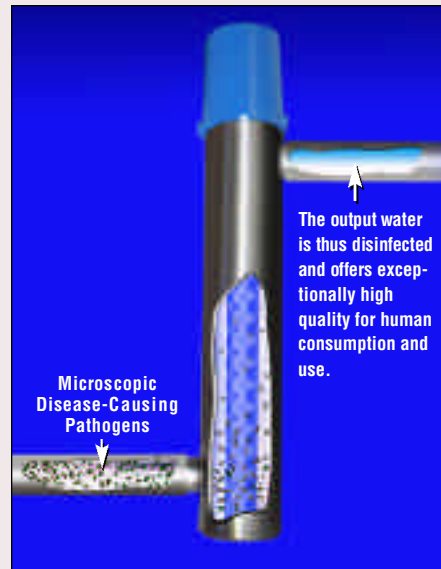
Ultraviolet disinfection systems are mysterious to many people – how can "light" kill bacteria? But the truth is it can. Ultraviolet (UV) technology has been around for over 50 years, and its effectiveness has been well documented both scientifically and commercially. It is nature's own disinfection/purification method. With consumers becoming more concerned about chlorine and other chemical contamination of drinking water, more dealers are prescribing the ultraviolet solution suitable for both small flow residential applications as well as large flow commercial projects.

Ultraviolet is a means of killing or rendering harmless microorganisms in a dedicated environment. These microorganisms can range from bacteria and viruses to algae and protozoa. UV disinfection is used in air and water purification, sewage treatment protection of food and beverages, and many other disinfection and sterilization applications. A major advantage of UV treatment is that it is capable of disinfecting water faster than chlorine without cumbersome retention tanks and harmful chemicals. UV treatment systems are also extremely cost efficient!

What is UV and how does it work?



Test proves Triangularwave Technologies, Inc. (TWT®) Deposit Control System reduces the fouling effects caused by "hard water" on the quartz sleeve and UV lamp inside the disinfection/ purification unit while maintaining the residual effects downstream chemically free.



Ultraviolet is one energy region of the electromagnetic spectrum, which lies between the x-ray region and the visible region. UV itself lies in the ranges of 200 nanometers (nm) to 390 nanometers (nm). Optimum UV germicidal action occurs at 260 nm.

Since natural germicidal UV from the sun is screened out by the earth's atmosphere, we must look to alternative means of producing UV light. This is accomplished through the conversion of electrical energy in a low-pressure mercury vapor "hard glass" quartz lamp.

Electrons flow through the ionized mercury vapor between the electrodes of the lamp, which then creates UV light.

As UV light penetrates through the cell wall and cytoplasmic membrane, it causes a molecular rearrangement of the microorganisms DNA, which prevents it from reproducing. If the cell cannot reproduce, it is considered dead.

Design and Dosage

The design of an ultraviolet sterilizer has an extremely important bearing on how the UV Dose is delivered and Dosage is the most critical function of UV disinfection. As individual UV lamps emit a set amount of ultraviolet energy, it is important that a system be sized correctly. Flow rates are the determining factor and must not be overstated. Contact time, which is the time the water is within the sterilization chamber, is directly proportional to Dosage, which is the amount of energy per unit area (calculated by dividing the output in watts by the surface area of the lamp), and thus the overall effectiveness of microbial destruction in the system. This product of intensity and time is known as the Dose and is expressed in microwatt seconds per centimeter squared ($\mu\text{Wsec/cm}^2$).

Divide by 1000 to express the dose in mJ/cm^2 , the preferred notation. $\text{DOSE} = \text{time (sec)} \times \text{output (watts)} \text{ area (cm}^2\text{)}$

For maximum UV transmission a "hard glass" quartz sleeve is recommended for two main reasons. It isolates the lamp from the water to offer more uniform operating temperatures and allows for higher UV output into the water.

A variety of optional features may be added on to the UV sterilizers. They include UV monitoring devices that measure the actual UV output, solenoid shutoff devices that will stop the water flow in the event of a system failure, flow control devices to properly limit the water flow in the units, audible and visual alarms (both local and remote) to warn of lamp failures, high temperature sensors to monitor excessive temperatures in the reactor chamber or control panel, and hour meters to monitor the running time of the UV lamps.

Advantages of UV Sterilization

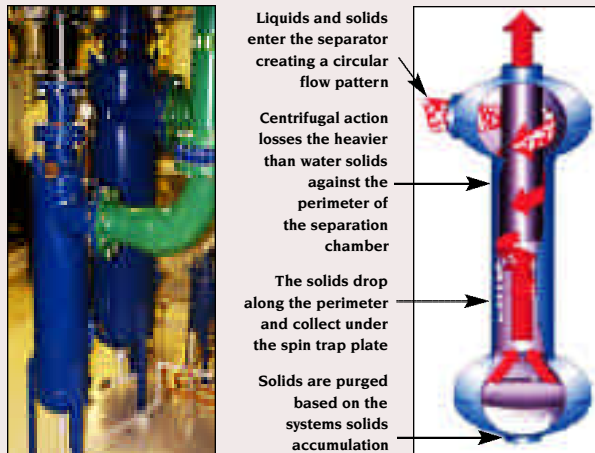
Following are the advantages of UV sterilization:

- Environmentally friendly, no dangerous chemicals to handle or store, no problem of overdosing (it's impossible).
- Low initial capital cost as well as reduced operating expenses when compared with similar technologies such as ozone, chlorine, etc.
- Immediate treatment process, no need for holding tanks, long retention times, etc.
- Extremely economical, hundreds of gallons may be treated for each penny of operating cost.
- No chemicals added to the water supply – no by-products (i.e. chlorine + organics = trihalomethanes).
- No change in taste, odor, pH or conductivity or the general chemistry of the water.
- Automatic operation without special attention or measurement, operator friendly.
- Simplicity and ease of maintenance, periodic cleaning (if applica-

ble) and annual lamp replacement, no moving parts to wear out.

- No handling of toxic chemicals, no need for specialized storage requirements, no WHMIS requirements.
- Easy installation, only two water connections and a power connection.
- Compatible with all other water processes (i.e., RO, filtration, ion exchange, etc.)

Centrifugal Separators



Ozone Disinfection

The Ozonator is a natural, safe way to purify water in many different applications. It eliminates the need for chemicals which can be irritating to people and costly to budget. The Ozonator converts Oxygen (O_2) into (O_3) by the action of the corona discharge system. Ozone is then injected into the water where it destroys viruses, bacteria and many other micro-organisms. taste, odor and color disappear and iron oxide, hydrogen sulphide, lignite and tannin are precipitated out, leaving your water pure and clean.



Filtration Systems—Commercial • Industrial • Residential

- **Regardless of the type of water filtration required, basic filtration, separation or reverse osmosis. TWT has the filtration system and media suitable for your application. Filters are available in various micron sizes providing flexibility & adaptability to meet the needs of all fluid conditions & applications.**

Filters are designed to trap various kinds of debris, dirt and organic particles that will otherwise enter your equipment and/or plumbing system, restrict your water flow and create a breeding ground for bacteria. Filtration is the first line of defense for residential, commercial, industrial facilities, where the source of water may be ponds, wells, streams or other water sources that have high exposure to contamination from airborne pollutants, surface runoff, agricultural or industrial waste or similar dangers.

The first step in achieving clean water is to install a filtration device that effectively removes particulate matter and similar debris. Filtration is an important step in water treatment, especially for water intended for human consumption. Filtration



systems provide a bacteriostatic environment and are designed to remove, volatile organic chemicals, hydrogen sulfide and sulfur, herbicides, pesticides, chemical fertilizer residues, trihalomethanes and many other pollutants. Regardless of the type of water filtration required, basic filtration, separation or reverse osmosis. TWT has the filtration system and media suitable for your application. Filters are available in various micron sizes providing flexibility & adaptability to meet the needs of all fluid conditions & applications.



Chemical-Free Iron Removal Systems- for 12 to 50 ppm iron.

The Rust-Erase iron filter system is designed to effectively eliminate rust from your water supply economically and thoroughly. No more unsightly rust stains in the toilet, tub and sink., the laundry will be cleaner, too! The Rust-Erase Iron Filter works automatically. Every drop of water coming through the line is filtered to remove rust and other particles. The pre-set timer periodically activates the back-wash mechanism which keeps the filter medium fresh and effective for many years. Media is good for approximately 3 - 5 years or more depending on water conditions.

Effects of iron and manganese in water

—When exposed to air, dissolved iron or manganese reacts with oxygen and is converted by oxidation to a colored, solid material that settles out of the water. Iron changes to white, then yellow and finally to a reddish-brown color. Manganese forms a black residue. High concentrations of these sediments cause reddish-brown or black stains on laundry and facility fixtures. Another result of iron and manganese in water is the presence of harmless bacteria in soil, shallow groundwater supplies and some surface water that secrete large amounts of red-brown (iron) or black-brown (manganese) slime that stain toilet tanks.

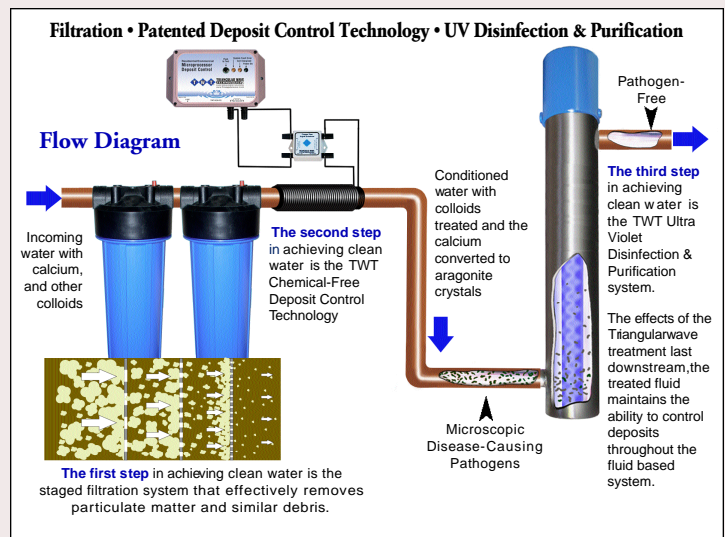


TWT® Multi-Process Modular Treatment System All-In-One Unit :

TWT® Filtration, Micro- processor Deposit Controller, Reaction Chamber, and UV Disinfection units are combined to provide a start-to-finish answer to simplified prevention, treatment and management of water line contamination dangers.

“The Competitive Edge”

- The TWT All-In-One fluid management water filtration, disinfection and purification systems are unique, compact, self-contained units (easy installation & operation).
- In effect, a clean, corrosion-free delivery system is restored and maintained in an environmentally safe and chemical-free manner.



Integrated Water: Treatment & Conditioning Systems:

MD Series Integrated Water Treatment Systems

TWT® technologically advanced method for water management. Triangularwave Technologies, Inc. All-In-One fluid management systems, the ultimate in water treatment & conditioning TWT® systems are factory engineered and assembled, applying all of the needed elements for maximum fluid protection, management, and peace of mind in one simple packaged solution. TWT® Filtration, Micro-processor Deposit Controller, Reaction Chamber, and UV Disinfection units are combined to provide a start-to-finish answer to simplified prevention, treatment and management of water line contamination dangers. *The TWT All-In-One Fluid management water disinfection/ purification systems are unique, compact, self-contained units for the treatment of water. (well and ground water application)*



DP Series Integrated Water Treatment Systems

Technologically advanced method for water management. Triangularwave Technologies, Inc. TWT Patented Deposit

Control/Ultraviolet

Disinfection / Purification

systems, TWT® systems

are factory engineered and

assembled, applying the

needed elements for maxi-

mum fluid protection, in

one simple packaged

solution. TWT

Microprocessor

Deposit Controller,

Reaction Chamber, and UV Disinfection units are combined to

provide a simplified prevention, treatment and management of water

line contamination dangers. The TWT water disinfection/ purification

systems are unique, compact, self-contained units for the

treatment of water. (*municipal water application*)



Bacterial Reduction Systems

Technologically Advanced Fluid Treatment Methods for the Meat, Poultry and Other Related Processing Industries.



- Filtration • Deposit Control Technology
- Ozone and/or UV Disinfection / Purification Combined for maximum effectiveness.

(*bacteria reduction guaranteed*)



Total Water Control Systems

For large cooling system applications - TWCS controlled system

featuring Deposit Controller,

Ultra-violet Disinfection or

Longuard and Filtration. Low

pressure systems to 6,000

gpm, high pressure systems to

36,000 gpm for cooling tower,

process water and other industrial

applications.



Transportable Water Treatment Systems

The most economical and efficient way to produce safe drinking water in temporary situations

The TWT Transportable Water Treatment System is an integrated system of exactly selected components customized to remedy specific water treatment problems in temporary installations, remote areas or crisis situations. First developed for use in military camps related to the 1996

UN peace-keeping mission in Bosnia, the TWT treatment systems are well suited to a wide range of applications. TWT systems are designed to produce safe drinking water, dependably and economically, from a wide range of problem input sources. The self-contained, transportable system filters out contaminants such as heavy metals, pesticides and parasites from any non-salt water source and kills all micro-organisms including virulent bacteria and viruses.



Mobile Solar Powered...Renewable Energy On Wheels:

Explore new innovative ideas using mobile solar power with TWT® chemical-free water treatment technology. The most economical and effective way to produce safe drinking water anywhere... any time! Sensing and solving environmental needs with intelligent solutions. conserves energy, clean, quite and transportable All-In-One Systems.

Mobile solar powered units are system integrated, engineered and designed to produce safe drinking water dependably and economically from a wide range of problem input sources. The systems are well suited for various applications in areas with no power and poor water quality.



Mobile solar powered, water treatment systems are portable and well suited for various applications. Disaster Relief, Emergency Preparedness, remote Construction Sites, Small Villages, Areas With No power And Poor Water Quality.





TRIANGULARWAVE TECHNOLOGIES, INC. (TWT®) PRODUCT SUMMARY

P.O.E. Point-of-Entry • P.O.U. Point-of-Use
Residential • Commercial • Industrial

Custom Engineered Systems To Your Exacting Specifications:

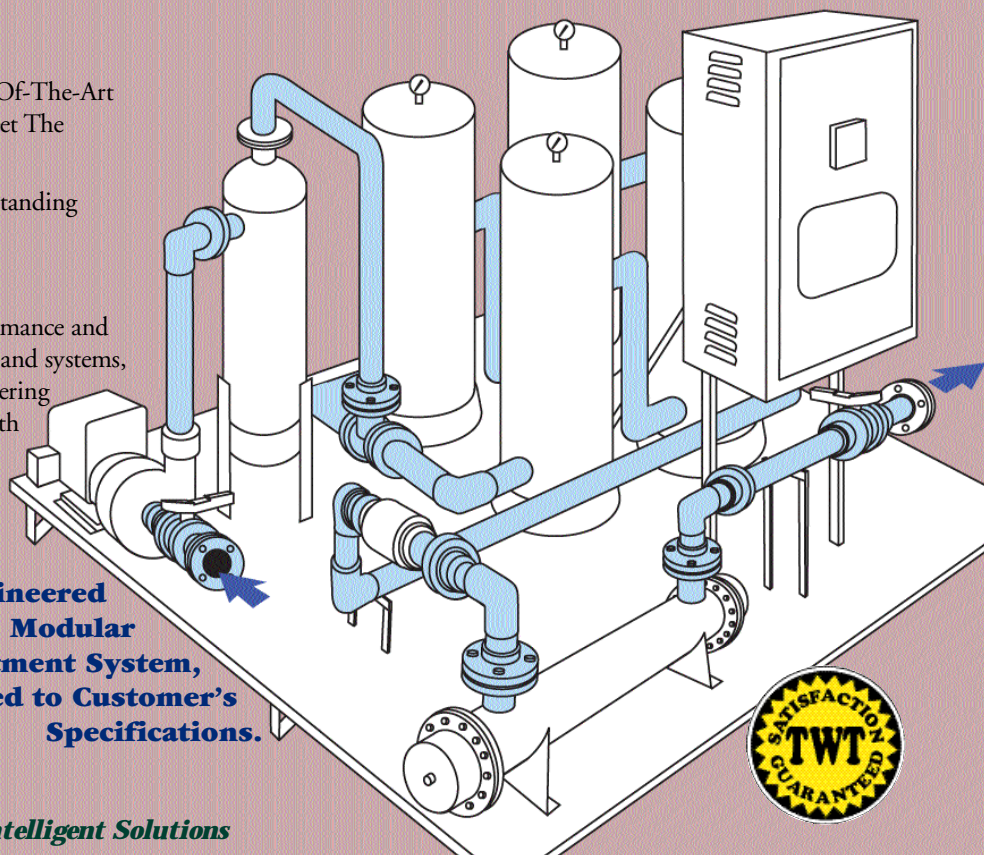
TWT has extensive design, engineering, manufacturing, consulting and training ability to work with customers worldwide, and to use its products and/or systems in whole or component form, as a component assembly, or as an accessory to their primary product. Take advantage of our outstanding manufacturing and marketing expertise — let TWT custom design a product and/or system to meet your specific application, system integration, and/or retro-fit program needs.

Our unique capabilities and custom design expertise have and continue to successfully solve a wide variety of problems for a wide variety of customers (Commercial • Industrial • Residential).



- From Ideas to Final Production
- Efficient Engineering Design Team State -Of-The-Art Production Equipment And Facility 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 in your work 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 installation for your industry specific needs.

**Custom Engineered
Multi-Process Modular
Water Treatment System,
Designed to Customer's
Specifications.**



Thank you for your time, interest in our products, systems and technology. We at TWT, Inc. look forward to being a valued part of your operation.

Notes:

- Systems and/or subsystems of larger sizes/capacities or alternate materials available by special order.
- Accessories, spare parts and consumables for all products and systems available upon request
- Worldwide distribution

To learn more about TWT® products, systems and technologies visit Triangularwave Technologies, Inc. comprehensive websites. The valuable technical resource for all involved in water and fluid management.

• www.Triangularwave.com • www.twtwatertreatment.com

Sensing Environmental Needs with Intelligent Solutions

TWT® The Ultimate in Water Treatment & Conditioning

Go Green - \$ave Green!



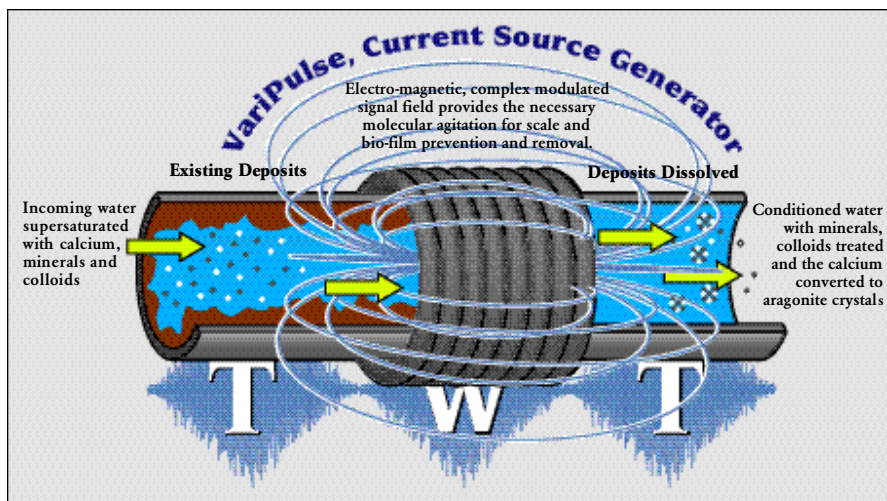
TWT CHEMICAL-FREE DEPOSIT CONTROL SYSTEMS: – Hard Water Conditioning & Treatment Technology

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Control Lime Scale and Bio-fouling throughout all of the plumbing in your / office / facility without the use of SALT or CHEMICALS

How are the scale deposits removed?

The patented, chemical-free TWT Deposit Controller takes this negative and turns it into a positive (no pun intended!). The induced molecular agitation generated by the TWT Deposit Controller causes the unstable mineral ions to collide with each other and precipitate out of solution. Impurities in the water such as alumina or silica provide initial nucleation sites for further precipitation of adjacent mineral ions. A “snowball effect” starts, resulting in the growth of many crystals, each consisting of numerous mineral ions. The resulting insoluble crystal salts become large in size and float; they do not stick to the metal surfaces, since the crystals do not have charges at the surface anymore. Essentially, the mineral ions become attracted to each other rather than to the metal surfaces.



ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-5C8-472

Residential/Light Commercial Deposit Control System for Pipes up to 1" or less

Voltage: 9 vdc

Amperage: Draws less than 1 Amp

Coil length: 4"

Solenoid Coil Included, Pipe Wrapping Required.

6.5"W x 3.75"H x 1.375"D

2 lbs.



TWT-5C8-473

Residential/Commercial Deposit Control System for Pipes up to 1" or less

Voltage: 120 vac

Amperage: Draws less than 1 Amp

Coil length: 4"

Solenoid Coil Included, Pipe Wrapping Required.

5.5"W x 5.5"H x 2.5"D

3 lbs.



TWT-5C8-401

Commercial/ Industrial Deposit Control System for Pipes up to 1.5" or less

Voltage: 120 vac

Amperage: Draws less than 1 Amp

Coil length: 4"

Solenoid Coil Included, Pipe Wrapping Required.

6.5"W x 7.75"H x 4.75"D

3 lbs.



Factory wrapped wire coil (solenoid) Reaction Chambers recommended (See Reaction Chambers pages 18 to 21)

TWT CHEMICAL-FREE DEPOSIT CONTROL SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-5C8-402

7.75"W x 6.5"H x 3.75"D

3 lbs.

Commercial/ Industrial Deposit Control
System for Pipes up to 2" or less
Voltage: 120 vac
Amperage: Draws less than 2 Amp
Coil length: 7"
Solenoid Coil Included, Pipe Wrapping Required
Factory wrapped wire coil (solenoid) Reaction
Chambers recommended (See Reaction Chambers pages 18 to 21)



TWT-5C8-403

10"W x 7.5"H x 4.5"D

5 lbs.

Commercial/ Industrial Deposit Control
System for Pipes up to 3" or less
Voltage: 120 vac
Amperage: Draws less than 2 Amps
Coil length: 7"
Solenoid Coil Included, Pipe Wrapping Required.
Factory wrapped wire coil (solenoid) Reaction
Chambers recommended (See Reaction Chambers pages 18 to 21)
Other voltage source available upon request



TWT-5C8-404

10"W x 7.5"H x 4.5"D

5 lbs.

Commercial/ Industrial Deposit Control
System for Pipes up to 4" or less
Voltage: 120 vac
Amperage: Draws less than 2 Amps
Coil length: 7"
Solenoid Coil Included, Pipe Wrapping Required.
Factory wrapped wire coil (solenoid) Reaction
Chambers recommended (See Reaction Chambers pages 18 to 21)
Other voltage source available upon request



TWT-5C8-406

11.5"W x 8.5"H x 6"D

6 lbs.

Commercial/ Industrial Deposit Control
System for Pipes up to 6" or less
Voltage: 120 vac
Amperage: Draws less than 3 Amps
Coil length: 4.5"
Solenoid Coil Included, Pipe Wrapping Required.
Factory wrapped wire coil (solenoid) Reaction
Chambers recommended (See Reaction Chambers pages 18 to 21)
Other voltage source available upon request



On copper pipe applications a Copper Pipe Signal
Enhancer is Recommended (See page 18)

TWT CHEMICAL-FREE DEPOSIT CONTROL SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-5C8-408

10"W x 7"H x 8"D

7 lbs.

Commercial/ Industrial Deposit Control

System for Pipes up to 8" or less

Voltage: 120 vac

Amperage: Draws less than 3 Amps

Coil length: Contact TWT directly for solenoid winding instructions

Solenoid Coil Included, Pipe Wrapping Required.

Factory wrapped wire coil (solenoid) Reaction

Chambers recommended (See Reaction Chambers pages 18 to 21)

Other voltage source available upon request



TWT-5C8-410

14.5"W x 13"H x 6.5 "D

10 lbs.

Industrial Deposit Control (Pipes up to 10" or less)

Voltage: 120 vac

Amperage: Draws less than 3 Amps

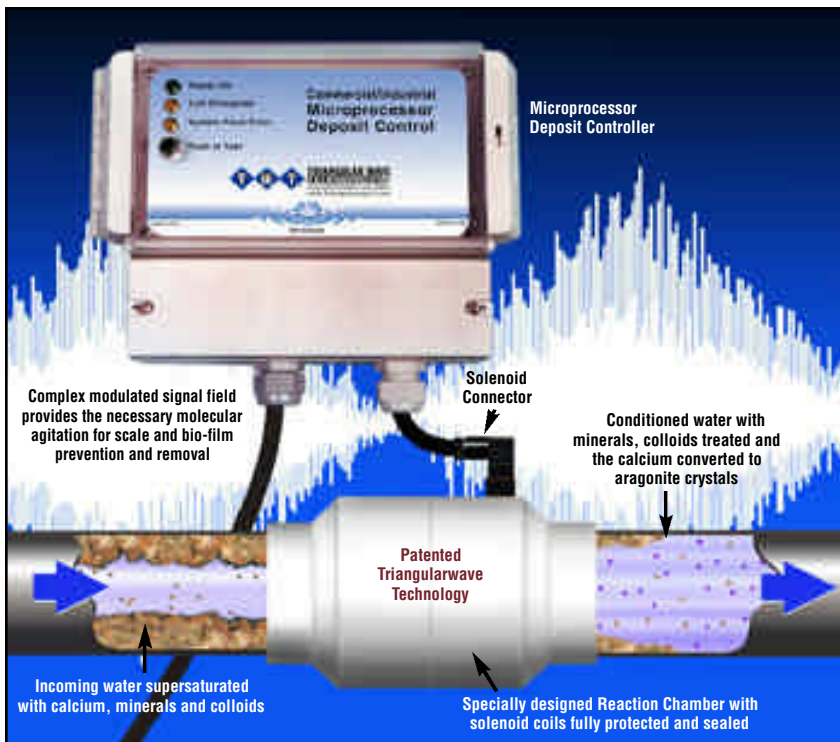
Coil length: Contact TWT directly for solenoid winding instructions

Solenoid Coil Included, Pipe Wrapping Required.

Factory wrapped wire coil (solenoid) Reaction

Chambers recommended (See Reaction Chambers pages 18 to 21)

Other voltage source available upon request



TWT® System Packaging Contents

- A. TWT Microprocessor Deposit Control Unit
- B. Wire for onsite wiring & solenoid coil hookup
- C. Hardware kit: Screws, wire ties
- D. Controller mounting kit: Mounting brackets & wire ties
- E. System registration card
- F. Owners Manual

Not included, sold separately:

Contact your dealer and/or TWT, Inc. before installation of system if application requires a—
TWT Copper Pipe Signal Enhancer
TWT factory wrapped Reaction Chamber
Teflon coated wire

Custom Orders: Larger pipe size 12" and above are available upon request

TWT CHEMICAL-FREE DEPOSIT CONTROL SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Residential/Light Commercial Hard Water Conditioning & Treatment System Fully Assembled Plumb Plug & Play Units

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT5C8-472PVCPP

Applications for pipes up to 1" or less in diameter

PACKAGING CONTENTS

- A. TWT-5C8-472 DC plate mounted unit with pipe mounting clamps & wire connectors
- B. Factory wrapped 1"X 10" PVC (IRC) industrial reaction chamber
- C. Electrical transformer
- D. Owners manual
- E. System registration card
- Optional: 110/20V or 220/30V
- (Custom built to order only)

18.5" X 6"

TBD



Product # TWT5C8-472CSECPP

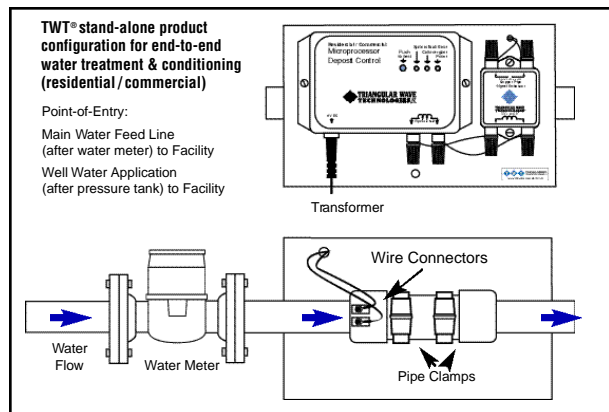
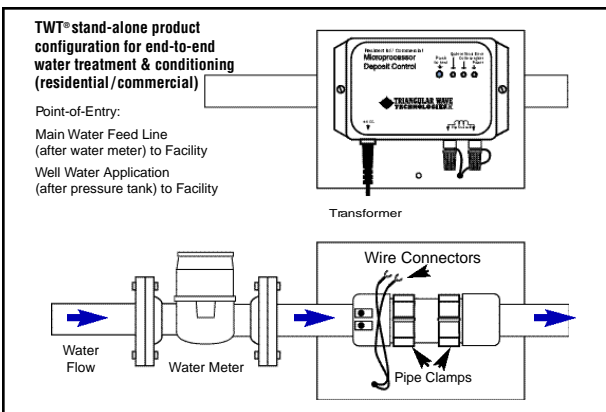
Applications for pipes up to 1" or less in diameter

PACKAGING CONTENTS

- A. TWT-5C8-472 DC plate mounted unit with pipe mounting clamps & wire connectors
- B. Factory wrapped 1" X 11" (ICRC) industrial copper pipe reaction chamber
- C. Electrical transformer
- D. Owners manual
- E. System registration card
- Optional: 110/20V or 220/30V
- (Custom built to order only)

10.5" X 6"

TBD



Products not scale for reference only

Installation: Licensed plumber and/or contractor suggested for application and installation of equipment.

Four Simple Steps:

1. Plumb the reaction chamber into water feed line.
2. Run and connect the provided wire to the reaction chamber as illustrated.

3. Clamp the TWT plate mounted controller onto pipe installed reaction chamber
4. Plug the unit in to electrical outlet.

Optional: St/St industrial reaction chambers available upon request

No maintenance required as long as current is provided to unit at all times. Deposit controllers are designed be self tested (see owners manual).

BATTERY POWERED DEPOSIT CONTROL SYSTEMS

Triangularwave Technologies Battery Powered Microprocessor Deposit Control

Control Scale and Biological Deposits in Homes, Mobile Homes, RV's, Boats, Trucks, Off Road Equipment & more. Plumbing Systems • Coolant Systems & Fuel Systems

TWT-163-12VDC

3.375"W x 6.5"H x 1.375"D 2 lbs.

Battery Powered Microprocessor
Deposit Control (Pipes up to 1" or less)
Voltage: 12VDC
Amperage: Draws less than 1 Amps
Coil length: 3.5"
Solenoid Coil Included, Pipe Wrapping
Required Residential/Commercial
High Temperature Applications for
Triangularwave Technologies Deposit
Control Systems 176°F and above
(Teflon Wire Required)

Optional: Battery back-up system for all treatment kits

12 volt or 24 volt DC to AC inverter converts DC current into conventional AC electricity. Connect one of these units directly to a battery to operate. Connect treatment kit to near by power source or inverter for battery power operation



DEPOSIT CONTROL with Copper Pipe Signal Enhancer (for copper pipe applications only)

ITEM NUMBER & PRODUCT DESCRIPTION:

APPROX SHIP WEIGHT

TWT-5C8-472-CSE

2 lbs.

TWT Deposit Controller and Copper Pipe
Signal Enhancer
for pipes up to 1" or less
Amperage: Draws less than 1 Amp
Coil length: 4"
Solenoid Coil Included, Pipe Wrapping Required.

(9V Transformer)



TWT-5C8-473-CSE

3 lbs

TWT Deposit Controller and Copper Pipe
Signal Enhancer
for pipes up to 1" or less
Voltage: 120 vac
Amperage: Draws less than 1 Amp
Coil length: 4"
Solenoid Coil Included, Pipe Wrapping Required.

Current Source: Universal Power Supply



TWT® Copper Pipe Signal Enhancer

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 (for copper pipe applications only).

DEPOSIT CONTROLLER SYSTEM with REACTION CHAMBER – For Water Fed Appliances

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS & APPROX SHIP WEIGHT

TWT-5C8-460-FGRC

Residential/ Light Commercial Deposit Control System with food grade PVC Reaction Chamber for Water-Fed Appliances (For pipes .5" or less)
Reaction Chamber Installation Required

(See Deposit Control pages 10 to 15 & Reaction Chambers pages 18 to 21)



TWT-5C8-472-FGRC

Residential/ Light Commercial Deposit Control System with food grade PVC Reaction Chamber for Water-Fed Appliances (For pipes .75" or less)

Current Source: 110/20 VAC 9V Transformer

Reaction Chamber Installation Required

(See Deposit Control pages 10 to 15 & Reaction Chambers pages 18 to 21)



TWT-5C8-472RC75

Residential/ Light Commercial Deposit Control System, with 3/4" PVC Reaction Chamber for Water-Fed Appliances (For pipes 1" or less)

Current Source: 110/20 VAC 9V Transformer

Reaction Chamber Installation Required

(See Deposit Control pages 10 to 15 & Reaction Chambers pages 18 to 21)



TWT-5C8-472RC1

Residential/Commercial Deposit Controller with 1" PVC Reaction Chamber for water feed appliances (For pipes 1" or less)

Current Source: 110/20 VAC 9V Transformer

Reaction Chamber Installation Required

(See Deposit Control pages 10 to 15 & Reaction Chambers pages 18 to 21)



TWT-5C8-472SRC75

Residential/Commercial Deposit Controller with .75" St/St Reaction Chamber for water feed appliances (For pipes 1" or less)

Current Source: 110/20 VAC 9V Transformer

Reaction Chamber Installation Required

(See Deposit Control pages 10 to 15 & Reaction Chambers pages 18 to 21)



TWT® Reaction Chambers

To use in conjunction with the TWT Deposit Control Systems when required, Triangularwave Technologies, Inc. has developed a line of factory-wrapped wire Reaction Chambers to address magnetic pipe environments. Typically, wire coil cannot be installed on any magnetic pipe, such as steel, galvanized steel, ductile iron, or cast iron. The TWT

Reaction Chambers solve this problem by providing an easily installed section of non-magnetic pipe to provide the proper pipe material for the Deposit Control System to work as designed. The TWT Reaction Chambers are fully sealed, protecting their two layers of factory-wrapped coil. The PVC, Stainless Steel and the Industrial Reaction Chamber systems are designed and manufactured to meet the highest quality specification

DEPOSIT CONTROLLER SYSTEM with REACTION CHAMBER – For Water Fed Appliances

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS & APPROX SHIP WEIGHT

(See Deposit Control pages 10 to 15 & Reaction Chambers pages 18 to 21)

TWT-5C8-472SRC1

Residential/ Commercial Deposit
Controller with 1" St/St Reaction Chamber
for Water-Fed Appliances
(For pipes 3/4" / 1" or less)
Reaction Chamber Installation Required



TWT-5C8-473-APVC

Residential/ Light Commercial Deposit
Control System with 1" PVC Reaction
Chamber for Water-Fed Appliances
(For pipes 1" or less)
Reaction Chamber Installation Required

(See Deposit Control pages 10 to 15 & Reaction Chambers pages 18 to 21)



TWT-5C8-473-ST

Residential/ Light Commercial Deposit
Control System with 1" Stainless Steel
Reaction Chamber for Water-Fed
Appliances (For pipes 1" or less)
Reaction Chamber Installation Required

(See Deposit Control pages 10 to 15 & Reaction Chambers pages 18 to 21)



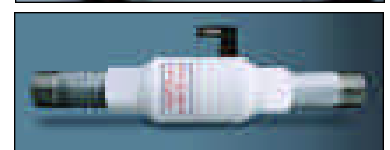
Current Source: Universal Power Supply

TWT-5C8-401-IRC

Commercial/Industrial Deposit Control System for Pipes
up to 1.5" or less with **TWT-IRC-1.5** Factory Wrapped
Industrial **PVC** Reaction Chamber

TWT-5C8-401-ISRC

Commercial/Industrial Deposit Control System for Pipes
up to 1.5" or less with **TWT-ISRC-1.5** Factory Wrapped
Industrial **St/St** Reaction Chamber



Reaction Chamber Installation Required

TWT-5C8-402-IRC

Commercial/Industrial Deposit Control System for Pipes
up to 2" or less with **TWT-IRC-2"** Factory Wrapped
Industrial **PVC** Reaction Chamber

TWT-5C8-402-ISRC

Commercial/Industrial Deposit Control System for Pipes
up to 2" or less with **TWT-ISRC-2"** Factory Wrapped
Industrial **St/St** Reaction Chamber



Reaction Chamber Installation Required

ACCESSORIES for DEPOSIT CONTROL SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

CASE/ PACK

APPROX SHIP WEIGHT

TWT-HTK Hardness Test Kit

1

BOV

TWT-TDSHH1 Pocket Size Hand Held **TDS Meter**

2

BOV

TWT-TDSMIL2 In Line **TDS Meter**

1

BOV

High temperature Applications for Triangularwave Technologies (TWT®) Deposit Control Systems 176°F and above (Teflon Wire)

TWT-WS-55 55 feet Wire Spool (18-20 awg)

6

BOV

TWT-WS-125 125 feet Wire Spool (18-20 awg)

6

BOV

TWT-WST100 100 ft. Wire spool-(Teflon)

6

BOV

TWT-WST200 200 ft. Wire spool-(Teflon)

6

BOV

TWT-WST300 300 ft. Wire spool-(Teflon)

6

BOV

TWT-PT-10 Set of 10 Plastic Ties

6

BOV

TWT-8449-25 Flex Tubing–25 ft

1

BOV

TWT-8449-50 Flex Tubing–50 ft.

1

BOV

TWT-8449-100 Flex Tubing–100 ft.

1

BOV

TWT-LP-70F CSE Black Box
(to mount & enclose a CSE unit)

6

BOV

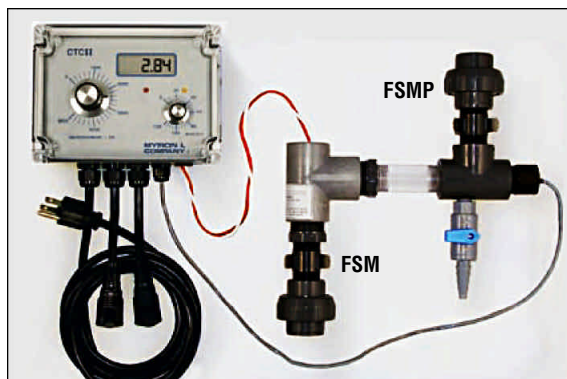
TWT-8398 (2 pk) Connectors for Flex Tubing/Black Box
(above) Qty 2 for each CSE unit

6

BOV

DESIGNED SPECIFICALLY for TREATED WATER - EXCELLENT for COOLING TOWERS

TWT-CTDSCM-02 Conductivity / TDS Controller / Meter Kit



In-Line Conductivity/TDS Controller/Meter Kit –
Five (5) unit kit

CTCIIID-Controller

FSM – Flow switch & manifold

FSMP – Mounting panel
(horizontal or vertical mounting)

MBV – Mini ball valve (sample port)

SQCO – Quick-Connect, sensor cable

Other kits available upon request

SPECIFICATIONS:

- IP65/NEMA 4X water resistant & corrosion proof enclosure
- Clear, screw down lid allows great visibility while discouraging unauthorized adjustment
- Comes complete with an easily installed CSAR sensor, or for those more demanding jobs, the optional CS51R sensor.
- Single set point/alarm
- Easy knob adjustment of set point
- Led shows "above/below" Alarm/Control status
- Adjustable set point hysteresis
- Includes power cords: One (1) input cord, Two (2) output plugs
- **Ranges:** 0-5000 μ S (μ M) / ppm 442™

- **Display:** Models CTC II & CTC IT: NONE Models CTC II D & CTC II TD: 1/2 in./13 mm 3 1/2 Digit LCD; opt. 3 1/2 or 4 1/2 Digit Backlit
- **Accuracy:** +1% of full scale
- **Sensitivity:** 0.05% of full scale
- **Stability:** 0.05% of full scale
- **Repeatability:** 0.1% of full scale
- **Calibration Check:** Built in
- **Voltage Output:** 0-10 VDC @ 5 mA max. (linear); standard all models
- **Sensor Inputs:** 1

- **Control Function:** Single Alarm / Controller fully adjustable 0 -100 % of full scale. Hysteresis: Adjustable from 0.3-6% of full scale. Indicators: Above (red) and below (green) set point LED. Contact Rating: SPDT 10 amp @ 125 VAC, 30 VDC Relay operates increasing reading. Fuse Output: 5 amp x 2
- **Power:** 115 /230 VAC, 50 /60 Hz, \pm 15% (user selectable)
- **Max Power Consumption:** @ 115V: 100 milliamps
- **Dimensions:** 4.7" H x 6.3" W x 4.7" D 120Hx160Wx120 D mm
- **Construction:** Full gasket heavy-duty ABS case; water resistant and corrosion proof IP65 /NEMA 4X rated
- **Ambient Temperature Range:** 32° to 140° F/0 °C to 60 °C
- **Weight:** 2 lbs./ 0,9 kg

Accessories for Deposit Control Systems: Water Quality Test Kits

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

CASE/ PACK

APPROX SHIP WEIGHT

TWT-TK10 Water Quality Test Kits

12

BOV

We carry a wide range of water testing kits that are easy to use, fast and accurate.
Great for use in the field and popular with retail customers

| Text Name | Description | Range |
|---------------------------|------------------------|---|
| Arsenic | Quick Check 2 test | 0-500 ppb |
| Bacteria Test | 2 Test | 1 cfu Coliform |
| Bromine | Bottle of 50 | 0-5 ppm |
| Chloride Check | Bottle of 50 | 0-5 ppm |
| Chloride-Free | Bottle of 50 | 0-500 ppm |
| Chlorine - Total | Bottle of 50 | 0-10 ppm |
| Copper | Cu+1 / Cu+2 | 0-5 ppm |
| Chromium (Chromate) | Bottle of 50 | 0-50 mg/L |
| Hardness - Total | Bottle of 50 | 0-58 gpg |
| Hydrogen Sulfide | Bottle of 50 | 0-80 ppm |
| Iron Check (Fe+2) | Bottle of 25 | 0-5 ppm |
| Lead Water Test | 2 Tests | 15 ppb |
| Manganese | 30 ptk of 1 | 0-1 mg / L |
| Mercury Check | Bottle of 50 | 50-1000 ppb |
| Nitrate/ Nitrate Nitrogen | Bottle of 50 | 0-10 ppm |
| Ozone Check | Bottle of 50 | 0-0.5 ppm |
| Peroxide (H2O2) | Bottle of 50 | 0.5-100 ppm |
| PH Check | Bottle of 50 | 2-12 |
| Phosphate | Bottle of 50 Strips | 0-2500 ppb |
| Salt Water Check | Bottle of 50 Tests | 0-150% |
| Silver Check | Bottle 50 Tests | 50-1000 ppb |
| Sulfate | 30 pkts of 1 | 0-500 ppm |
| Total Hardness | Bottle of 50 | 0-1000 & 0-58 Grains/Gallon |
| Zinc | Bottle 50 Tests | 0-100 mg / L |
| 4-in-1 City Water Check | Bottle 25 | PH, Alkalinity, Hardness |
| Tap Check Test Kit | 2 Tests of each | PH, TA, Iron, hardness, Chlorine |
| Well Water Check | 2 Tests of Each | PH, Alkalinity, hardness, Nitrate, Nitrite |
| Complete Home Water | 2 of each & 1 Bacteria | Iron, Copper, Chloride, Nitrate/Nitrite Nitrogen, Chlorine, Hardness, Free Chlorine, Sulfate, PH, Alkalinity, Hydrogen, Sulfide & Bacteria |
| Cyanide Emergency Kit | | Kit Includes: (2) 2 ml Vials, (2) Cyanide Strip #1 Cyanide Strip #2, & (1) Instruction card in bag |
| Cyanide - SFK50 | | 0:01-25 ppm (mg / L) - Visually |
| Aquaria Test 4 | Fresh Bottle of 50 | Nitrate, Alkalinity, PH, hardness |



TWT-BTK-12

Bacteria Test Kit—On Site Water Testing
Simple and Easy-to-Use



BOV: Based on volume and/or related products orders at time of purchase

BACTERIA TEST KIT

Accessories for Deposit Control Systems: Copper Pipe Signal Enhancer

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

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

ITEM NUMBER & PRODUCT DESCRIPTION:

TWT-CSE-0227

Designed for Copper Pipes 2" or Less in Diameter
To be used with Deposit Controller
TWT-5C8-470 / 471 / 472 / 401

PRODUCT DIMENSIONS

2"W x 2"H x 1.5"D

APPROX SHIP WEIGHT

1 lbs.



TWT-CSE-0229

Designed for Copper Pipes 4" or Less in Diameter
To be used with Deposit Controller
TWT-5C8-402 / 403 / 404 / 406

2.75"W x 2.75"H x 2"D

2 lbs.



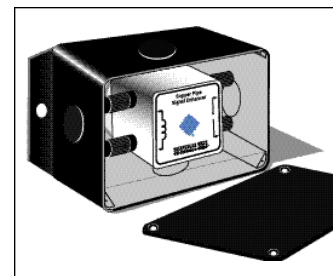
WT-CSE-0227K

KIT DESCRIPTION & COMPONENTS

BOV

For installation of copper pipes up to 2" only

- 1- 1 CSE black housing box with pre-mounted CSE unit, and 4 pre-drilled 1/2" holes for easy assembly and installation. CSE kit may be mounted vertically or horizontally. Box dimensions: 6.25"W x 4.25"H x 1.75"D
- 2- 4 connectors for CSE housing box, controller and solenoid connections
- 3- 2 plastic hole plugs (cover remaining holes)
- 4- 1 15' length of flex tubing for connection from housing box to deposit controller
- 5- 1 10' length of flex tubing from housing box to onsite solenoid connection
- 6- 1 extra 55' extra spool of wire



TWT-CSE-0229K

KIT DESCRIPTION & COMPONENTS

For installation of copper pipes up to 4" only

See TWT-CSE-0227K above for specifications:
Box dimensions: 5.5"W x 4.625"H x 2.375"D

Approx ship weight BOV

TWT-CSE-27LP70M

Copper Pipe Signal Enhancer Housing & Unit
Components #1 and #3 above only—
Designed for Copper Pipes 2" or Less in Diameter

TWT-CSE-29LP70M

Copper Pipe Signal Enhancer Housing & Unit
Components #1 and #3 above only—
Designed for Copper Pipes 4" or Less in Diameter

TWT® St/St Factory Wrapped Reaction Chambers with Dielectric Union (Couplings) for Copper Pipe Applications

Stainless Steel Reaction Chamber with Dielectric Unions (Couplings)

TWT-SRC-DU-.5

.5" Factory Wrapped **St/St** Reaction Chamber .5" X 6" +DU* 2.75 lbs

TWT-SRC-DU-.75

.5" Factory Wrapped **St/St** Reaction Chamber .75" X 6" +DU* 4.75 lbs

TWT-SRC-DU-1

1" Factory Wrapped **St/St** Reaction Chamber 1" X 12" +DU* 5.25 lbs

TWT-SRC-DU-1.5

1.5" Factory Wrapped **St/St** Reaction Chamber 1.5" X 12"+DU* 8 lbs

TWT-SRC-DU-2

2" Factory Wrapped **St/St** Reaction Chamber 2" X 12"+DU* 12 lbs

Industrial Stainless Steel Reaction Chamber with Dielectric Union (Couplings)

TWT-ISRC-DU-.75

.75" Factory Wrapped Industrial **St/St** Reaction Chamber .75" X 6"+DU* 4.75 lbs

TWT-ISRC-DU-1

1" Factory Wrapped Industrial **St/St** Reaction Chamber 1" X 12" +DU* 5.25 lbs

TWT-ISRC-DU-1.5

1.5" Factory Wrapped Industrial **St/St** Reaction Chamber 1.5" X 12"+DU* 8 lbs

TWT-ISRC-DU-2

2" Factory Wrapped Industrial **St/St** Reaction Chamber 2" X 12"+DU* 12 lbs



*Dielectric Union

BOV: Based on volume and/or related products orders at time of purchase

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

The TWT Reaction Chamber is part of the patented TWT Deposit Control Technology, the function of which is to control scale and bio-film in the plumbing infrastructure, fixtures, and water-fed appliances found in the facility being treated. The Reaction Chamber provides a chamber through which the water flows and is exposed to the Triangularwave signal that lies at the heart of the deposit control technology. As the fluid passes through, it is treated and then carries that treatment downstream, to condition the rest of the plumbing system, non-chemically and reliably. To use in conjunction with the TWT Deposit Control Systems when required, Triangularwave Technologies, Inc. has developed a line of factory-wrapped wire coil Reaction

Chambers to address magnetic pipe environments. –Typically, wire coil cannot be installed on any magnetic pipe, such as steel, galvanized steel, ductile iron, or cast iron. If a coil is applied to such a pipe, the pipe becomes a shield and prevents the wave energy from entering the fluid path. The TWT Reaction Chambers solve this problem by providing an easily installed section of non-magnetic pipe to provide the proper pipe material for the Deposit Control System to work as designed. The TWT Reaction Chambers are fully sealed, protecting their layers of factory-wrapped coil. The PVC, Stainless Steel and the Industrial Reaction Chamber systems are designed and manufactured to meet the highest quality specifications.

| ITEM NUMBER & PRODUCT DESCRIPTION: | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---|-------------------------------|-------------------------------|
| TWT-RC-05 .5" Factory Wrapped PVC Reaction Chamber | .5" x 6" | 1 lbs |
| TWT-RC-75 .75" Factory Wrapped PVC Reaction Chamber | .75" x 6" | 1 lbs |
| TWT-RC-1 1" Factory Wrapped PVC Reaction Chamber | 1" x 6" | 1 lbs |
| TWT-RC-1.5 1.5" Factory Wrapped PVC Reaction Chamber | 1.5" x 12" | 2 lbs |
| TWT-RC-2 2" Factory Wrapped PVC Reaction Chamber | 2" x 12" | 3 lbs |
| TWT-RC-3 3" Factory Wrapped PVC Reaction Chamber | 3" x 15" | 6 lbs |
| TWT-RC-4 4" Factory Wrapped PVC Reaction Chamber | 4" x 15" | 8 lbs |
| TWT-RC-6 6" Factory Wrapped PVC Reaction Chamber | 6" x 18" | 10 lbs |
| TWT-RC-8 8" Factory Wrapped PVC Reaction Chamber PVC indicates Schedule 40 Construction Material | 8" x 18" | 12 lbs |
| TWT-RC-05-80 .5" Factory Wrapped PVC Reaction Chamber | .5" x 6" | 1 lbs |
| TWT-RC-75-80 .75" Factory Wrapped PVC Reaction Chamber | .75" x 6" | 1 lbs |
| TWT-RC-1-80 1" Factory Wrapped PVC Reaction Chamber | 1" x 6" | 1 lbs |
| TWT-RC-1.5-80 1 1/2" Factory Wrapped PVC Reaction Chamber | 1.5" x 12" | 2 lbs |
| TWT-RC-2-80 2" Factory Wrapped PVC Reaction Chamber | 2" x 12" | 3 lbs |
| TWT-RC-3-80 3" Factory Wrapped PVC Reaction Chamber | 3" x 15" | 6 lbs |
| TWT-RC-4-80 4" Factory Wrapped PVC Reaction Chamber | 4" x 15" | 8 lbs |
| TWT-RC-6-80 6" Factory Wrapped PVC Reaction Chamber | 6" x 18" | 10 lbs |
| TWT-RC-8-80 8" Factory Wrapped PVC Reaction Chamber PVC indicates Schedule 80 Construction Material | 8" x 18" | 12 lbs |



PVC indicates Schedule 80 Construction Material Note: Larger size reaction chambers and material available upon request

INDUSTRIAL PVC REACTION CHAMBERS with Solenoid Connectors*

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----------------------|-----------------------|
|---------------------------------------|-----------------------|-----------------------|

TWT-IRC-75

| | | |
|---|-----------|-------|
| .75" Factory Wrapped Industrial PVC Reaction Chamber | .75" x 6" | 1 lbs |
|---|-----------|-------|

TWT-IRC-01

| | | |
|---|----------|-------|
| 1" Factory Wrapped Industrial PVC Reaction Chamber | 1" x 62" | 1 lbs |
|---|----------|-------|

TWT-IRC-1.5

| | | |
|---|------------|-------|
| 1.5" Factory Wrapped Industrial PVC Reaction Chamber | 1.5" x 12" | 2 lbs |
|---|------------|-------|

TWT-IRC-02

| | | |
|---|----------|-------|
| 2" Factory Wrapped Industrial PVC Reaction Chamber | 2" x 12" | 3 lbs |
|---|----------|-------|

TWT-IRC-03

| | | |
|---|----------|-------|
| 3" Factory Wrapped Industrial PVC Reaction Chamber | 3" x 15" | 6 lbs |
|---|----------|-------|

TWT-IRC-04

| | | |
|---|----------|-------|
| 4" Factory Wrapped industrial PVC Reaction Chamber | 4" x 15" | 8 lbs |
|---|----------|-------|

TWT-IRC-06

| | | |
|---|----------|--------|
| 6" Factory Wrapped Industrial PVC Reaction Chamber | 6" x 18" | 10 lbs |
|---|----------|--------|

TWT-IRC-08

| | | |
|---|----------|--------|
| 8" Factory Wrapped Industrial PVC Reaction Chamber | 8" x 18" | 12 lbs |
|---|----------|--------|

PVC indicates Schedule 40 Construction Material



INDUSTRIAL PVC REACTION CHAMBERS with Solenoid Connectors*

TWT-IRC-75-80

| | | |
|---|-----------|-------|
| .75" Factory Wrapped Industrial PVC Reaction Chamber | .75" x 6" | 2 lbs |
|---|-----------|-------|

TWT-IRC-1-80

| | | |
|---|---------|-------|
| 1" Factory Wrapped Industrial PVC Reaction Chamber | 1" x 6" | 2 lbs |
|---|---------|-------|

TWT-IRC-1.5-80

| | | |
|---|-----------|-------|
| 1.5" Factory Wrapped Industrial PVC Reaction Chamber | 1.5" x 12 | 3 lbs |
|---|-----------|-------|

TWT-IRC-2-80

| | | |
|---|----------|-------|
| 2" Factory Wrapped Industrial PVC Reaction Chamber | 2" x 12" | 4 lbs |
|---|----------|-------|

TWT-IRC-3-80

| | | |
|---|----------|-------|
| 3" Factory Wrapped Industrial PVC Reaction Chamber | 3" x 15" | 7 lbs |
|---|----------|-------|

TWT-IRC-4-80

| | | |
|---|----------|--------|
| 4" Factory Wrapped Industrial PVC Reaction Chamber | 4" x 15" | 10 lbs |
|---|----------|--------|

TWT-IRC-6-80

| | | |
|---|----------|--------|
| 6" Factory Wrapped Industrial PVC Reaction Chamber | 6" x 18" | 12 lbs |
|---|----------|--------|

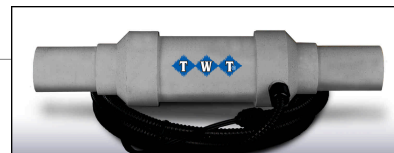
TWT-IRC-8-80

| | | |
|---|----------|--------|
| 8" Factory Wrapped Industrial PVC Reaction Chamber | 8" x 18" | 14 lbs |
|---|----------|--------|

PVC indicates Schedule 80 Construction Material

Note: Larger size reaction chambers and material available upon request

*Factory wrapped and assembled with two head connectors, conduit and wire ready for each installation.



STAINLESS STEEL REACTION CHAMBERS with Solenoid Connectors*

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-SRC-05

.5" Factory Wrapped **St/St** Reaction Chamber

.5" x 6"

2 lbs

TWT-SRC-75

.75" Factory Wrapped **St/St** Reaction Chamber

.75" x 6"

4 lbs

TWT-SRC-1

1" Factory Wrapped **St/St** Reaction Chamber

1" x 6"

4 lbs

TWT-SRC-1.5

1.5" Factory Wrapped **St/St** Reaction Chamber

1.5" x 12"

5 lbs

TWT-SRC-2

2" Factory Wrapped **St/St** Reaction Chamber

2" x 12"

8 lbs

TWT-SRC-3

3" Factory Wrapped **St/St** Reaction Chamber

3" x 15"

20 lbs

TWT-SRC-4

4" Factory Wrapped **St/St** Reaction Chamber

4" x 15"

35 lbs

TWT-SRC-6

6" Factory Wrapped **St/St** Reaction Chamber

6" x 18"

40 lbs

TWT-SRC-8

8" Factory Wrapped **St/St** Reaction Chamber

8" x 18"

50 lbs



INDUSTRIAL STAINLESS STEEL REACTION CHAMBERS with Solenoid Connectors*

TWT-ISRC-75

.75" Factory Wrapped Industrial **St/St** Reaction Chamber

.75" x 6"

2 lbs

TWT-ISRC-1

1" Factory Wrapped Industrial **St/St** Reaction Chamber

1" x 6"

4 lbs

TWT-ISRC-1.5

1.5" Factory Wrapped Industrial **St/St** Reaction Chamber

1.5" X 12"

5 lbs

TWT-ISRC-2

2" Factory Wrapped Industrial **St/St** Reaction Chamber

2" x 12"

8 lbs

TWT-ISRC-3

3" Factory Wrapped Industrial **St/St** Reaction Chamber

3" x 15"

20 lbs

TWT-ISRC-4

4" Factory Wrapped Industrial **St/St** Reaction Chamber

4" x 15"

35 lbs

TWT-ISRC-6

6" Factory Wrapped Industrial **St/St** Reaction Chamber

6" x 18"

40 lbs

TWT-ISRC-8

8" Factory Wrapped Industrial **St/St** Reaction Chamber

8" x 18"

50 lbs



St/ St indicates Stainless Steel Construction Material

Note: Larger size reaction chambers and material available upon request

*Factory wrapped and assembled with two head connectors, conduit and wire ready for each installation.



TWT-ISRC-2
Reaction Chamber

CHEMICAL-FREE ALL-IN-ONE WATER TREATMENT KITS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com



#TWT-AIOKIT: 4 GPM – Designed for pipes up to 3/4" in diameter

Kits Include:

One (1) 10" Double Filter Set – Sediment & Carbon

One (1) Triangularwave Chemical-Free Deposit Controller with a Copper pipe signal Enhancer for copper pipe application only. #TWT-5C8-472CSE

One (1) 4-GPM Ultraviolet Purifier. #TWT-UV-250

Kits include double filtration with and extras set of replacement filters, filter wrench, chemical-free deposit control (hard water treatment) and ultra-violet purification technology.

Note: All products are shipped with easy to follow application, installation and maintenance materials. Handy man and/or licensed plumbing contractor application and installation suggested. Note: If water feed lines at the facility are PVC / Pex or Non-magnetic material, you will not need the Copper pipe signal enhancer. Copper pipe signal enhancer optional, must specify if not required when placing purchase order.

(All pumps, pipes, fittings and other related plumbing equipment needed, owners responsibility).



#TWT-AIOKIT: 8 GPM – Designed for pipes up to 1" in diameter

Kits Include:

One (1) 20" Slim-line Double Filter Set – Sediment & Carbon

One (1) Triangularwave Chemical-Free Deposit Controller with a Copper pipe signal Enhancer for copper pipe application only. #TWT-5C8-472CSE

One (1) 8-GPM Ultraviolet Purifier. #TWT-UV-700

Kits include double filtration with and extras set of replacement filters, filter wrench, chemical-free deposit control (hard water treatment) and ultra-violet purification technology.

Note: (A) All products are shipped with easy to follow application, installation and maintenance materials. Handy man and/or licensed plumbing contractor application and installation suggested. **Note:** If water feed lines at the Z facility are PVC / Pex or Non-magnetic material, you will not need the Copper pipe signal enhancer. Copper pipe signal enhancer optional, must specify if not required when placing purchase order.

(All pumps, pipes, fittings and other related plumbing equipment needed, owners responsibility).



Optional: Battery back-up system for all treatment kits

12 volt or 24 volt DC to AC inverter converts DC current into conventional AC electricity. Connect one of these units directly to a battery to operate. Connect treatment kit to near by power source or inverter for battery power operation (Batteries not included)



#TWT-AIOKIT: 12 GPM – Designed for pipes up to 1" in diameter

Kits Include:

One (1) 20" Big Blue Double Filter Set – Sediment & Carbon

One (1) Triangularwave Chemical-Free Deposit Controller with a Copper pipe signal Enhancer for copper pipe application only. #TWT-5C8-472CSE

One (1) 12-GPM Ultraviolet Purifier. #TWT-UV-1200

Kits include double filtration with and extras set of replacement filters, filter wrench, chemical-free deposit control (hard water treatment) and ultra-violet purification technology.

Note: (A) All products are shipped with easy to follow application, installation and maintenance materials. Handy man and/or licensed plumbing contractor application and installation suggested. Note: If water feed lines at the facility are PVC / Pex or Non-magnetic material, you will not need the Copper pipe signal enhancer. Copper pipe signal enhancer optional, must specify if not required when placing purchase order.

(All pumps, pipes, fittings and other related plumbing equipment needed, owners responsibility).

TWT All-In-One Kits are available for larger pipe applications, GPM requirements and process technologies made be up-graded, changed to meet your specific water treatment requirements upon request.

Note: Kits are available in 110/20-V or 220/30-V Must specify with Purchase Order.

TWT MULTI-STAGED BRS–BACTERIAL REDUCTION SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Custom Engineered System Built to Order Only.

Technologically Advanced Fluid Treatment Methods for the Meat, Poultry and Related Processing Industries –
For any Industry Requiring High Volume Bacterial Reduction

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-BRS-73

TWT-BRS73 Central System for Multiple Injector Lines • Four Stage Filtration • Two Stage Deposit Control Technology • Triple Quattra 100 UV Disinfection & Purification (System Treatment Up To 1500 GPH)

110"W x 75"H x 40"D

Approx
1500 lbs.



Four stage filtration configured to remove particulate matter that may inhibit the effectiveness of the UV system.



Triple Quattra 100 UV system configured to provide more exposure to the UV light, ensuring a higher kill rate of the bacteria.



Post filtration

Though similar in appearance the system component configuration is assembled according to treatment and application requirements

TWT-BRS-2

TWT-BRS/2 Central System for Multiple Injector Lines • Two Stage Filtration • Deposit Control Technology • Dual Quattra 50 UV Disinfection & Purification (System Treatment Up To 1500 GPH)

90"W x 72"H x 40"D

TBD



Two stage filtration configured to remove particulate matter that may inhibit the effectiveness of the UV system.



Dual Quattra 50 UV system configured to provide more exposure to the UV light, ensuring a higher kill rate of the bacteria.



WIRE MESH FILTER BASKETS (not included, available upon request)

TWT-14HHPZ0T50M • TWT-14HHPZ0T100M • TWT-14HHPZ0T250M

- Stainless Steel wire mesh, wire cloth, brass wire mesh, and galvanized square wire mesh.
- Other micron sizes available upon request

Custom engineered system built to order only. Price to be determined and based on component assembly and materials cost at time of purchase.

Note: Above systems are fully integrated and factory assembled and mounted, offering end to end fluid management and treatment solutions

TBD: To be determined, based on final system configuration at time of purchase.

TWT MULTI-STAGED BRS–BACTERIAL REDUCTION SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Custom Engineered System Built to Order Only.

Technologically Advanced Fluid Treatment Methods for the Meat, Poultry and Related Processing Industries – For any Industry Requiring High Volume Bacterial Reduction

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-BRS-1

Though similar in exterior design to the BRS3 component configuration is different

TWT-BRS/1 Central System for Multiple Injector Applications
(Refrigerated) Filtration • Deposit Control Technology
• Ozone & UV Disinfection/Purification
(System Treatment Up To 3000 GPH)

144"L x 76"H x 85"D

2600 lbs.



Though similar in appearance the system component configuration is assembled according to treatment and application requirements

TWT-BRS-3

TWT-BRS/3 Central System for Multiple Injector Applications
(Refrigerated) Filtration • Deposit Control Technology
UV Disinfection & Purification
(System Treatment Up To 3000 GPH)

TWT-BRS-4

TWT-BRS/4 Point-Of-Use Single Injection Application

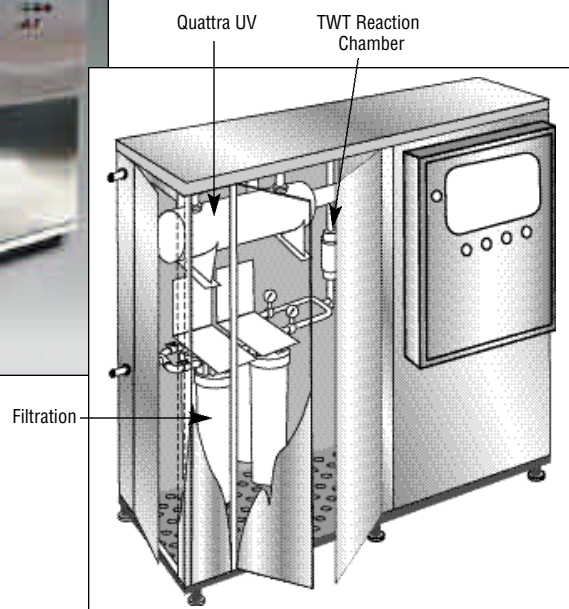
- Filtration • Deposit Control Technology
- UV Disinfection & Purification

(System Treatment Up To 1000 GPM)

64"W x 50"H x 20"D

TBD

Industry specific engineered & priced
TWT, Inc. review only



Custom engineered system built to order only. Price to be determined and based on component assembly and materials cost at time of purchase.

Note: Above systems are fully integrated and factory assembled and mounted, offering end to end fluid management and treatment solutions.

TBD: To be determined, based on final system configuration at time of purchase.

TWT MULTI-STAGED BRS–BACTERIAL REDUCTION SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Custom Engineered System Built to Order Only.

Technologically Advanced Fluid Treatment Methods for the Meat, Poultry and Related Processing Industries – For any Industry Requiring High Volume Bacterial Reduction

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

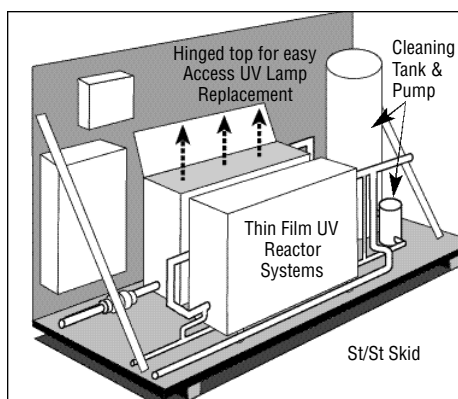
TWT-BRS-9

TWT-BRS/9 Point-Of-Use Fluid Treatment & Conditioning • Deposit Control Technology
• UV Disinfection & Purification
50 GPM System

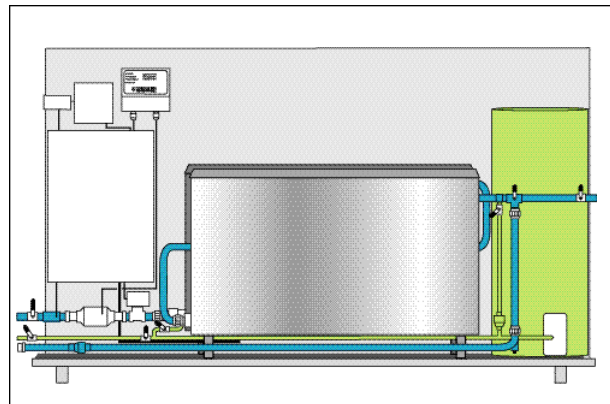
Custom Built and Assembled According to Treatment and Application Requirements

*

TBD



Factory Assembled Skid Mounted, Fork Lift/ Fluid Management Treatment System

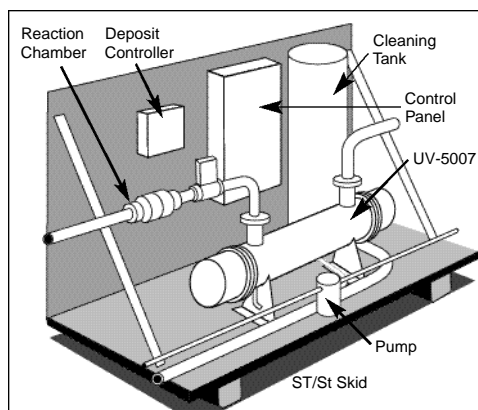


TWT-BRS-10

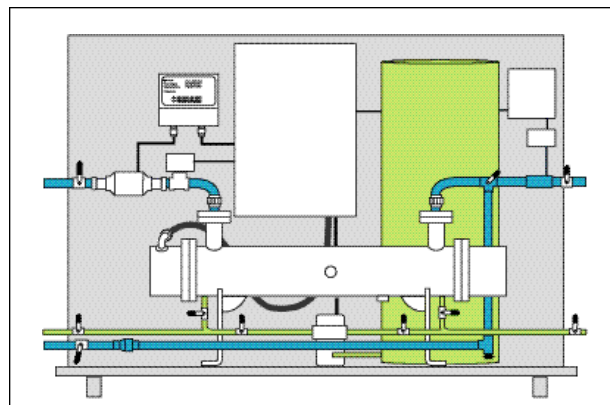
TWT-BRS/10 Point-Of-Use Fluid Treatment & Conditioning • Deposit Control Technology
• UV Disinfection & Purification
220 GPM System

*

TBD



Factory Assembled Skid Mounted, Fork Lift/ Fluid Management Treatment System



Custom engineered system built to order only. Price to be determined and based on component assembly and materials cost at time of purchase.

Note: Above systems are fully integrated and factory assembled and mounted, offering end to end fluid management and treatment solutions

TBD: To be determined, based on final system configuration at time of purchase.

ALL-IN-ONE MULTI-PROCESS P.O.U. / P.O.E. WATER TREATMENT & CONDITIONING SYSTEM

Filtration • TWT Deposit Control Technology • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

| | | | |
|---|---------|--------------------|---------|
| TWT-POUS-300 3 Stage Filtration: Sediment, Resin, Carbon For pipe size applications .75" or less | 1-2 GPM | 26"W x 20"H x 10"D | *40 lbs |
|---|---------|--------------------|---------|

| | | | |
|--|---------|--------------------|---------|
| TWT-POUE-400 3 Stage Filtration: Sediment, Carbon, GAC/KDF or pipe size applications .75" or less | 1-2 GPM | 26"W x 20"H x 10"D | *40 lbs |
|--|---------|--------------------|---------|

TWT®the Ultimate in Water Treatment & Conditioning Technologically Advanced Fluid Treatment Method for P.O.U./P.O.E. Applications. Multi-Staged Filtration, Electro-Magnetic Fluid Conditioning and Flow Meter Combined for Maximum Effectiveness.

*Will vary based on filters used



ALL-IN-ONE MULTI-PROCESS P.O.U. / P.O.E. WATER TREATMENT & CONDITIONING SYSTEM

Filtration • Optional Water Softening Filter • Deposit Control • UV Disinfection Purification System

| | | | |
|--|---------|---------------------|--------|
| TWT-POEPOUV-600 Control Scale Deposits/Bacteria Corrosion, Algae, Colloids in your Water-Fed System | 1-2 GPM | 26"W x 24" H x 10"D | 50 lbs |
|--|---------|---------------------|--------|

For pipe size applications .75" or less

Filters are interchangeable allowing you to meet your specific water treatment needs at all times.

Must specify filters preference upon placement of purchase order

1. Sediment 5-10 Micron: Pleated Washable and reusable for sediment reduction/removal
2. Resin Filter: Water softening resin filter
3. GAC: Granulated activated carbon for taste, odor, organic chemicals and chlorine reduction/removal.
4. GAC/KDF-55: Granulated activated carbon with KDF-55, specially formulated copper/zinc alloy media designed to remove chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulfur, herbicides, pesticides, chemical fertilizer residues and trihalomethanes



ALL-IN-ONE MULTI-PROCESS P.O.U. / P.O.E. WATER TREATMENT & CONDITIONING SYSTEM

Multi-Stage Filtration • Electro-Magnetic Fluid Conditioning • Ultra Violet Disinfection Purification System

| | | | |
|--|-------|--------------------|--------|
| TWT-POEPOUV-604SC2 3 Stage Filtration: Sediment, Carbon, GAC/KDF or pipe size applications .5" or less | 2 GPM | 42"W x 28"H x 10"D | 64 lbs |
|--|-------|--------------------|--------|

Filter mediums used in staged filter housings for the 2 and 4 GPM systems are configured as illustrated. Other filter mediums and micronic sizes are available upon request. Mediums to be determined and based upon input water quality and customer and/or industry specific treatment requirements.



| | | | |
|--|-------|--------------------|--------|
| TWT-POEPOUV-604SC 3 Stage Filtration: Sediment, Carbon, GAC/KDF or pipe size applications .75" or less | 4 GPM | 44"W x 31"H x 10"D | 67 lbs |
|--|-------|--------------------|--------|

Self-Cleaning Sediment Filter

The first step in achieving clean water is a filtration system. 15 micron filter with a built-in manual flush valve to purge built-up sediments in the bottom of the filter. Flow rates up to 10 GPM. Filter will initially clean the water so the replacement sediment and other media cartridges will have a much longer service and life cycle.



ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E./P.O.U.

Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

| | | | |
|---|-------|-------------------|---------|
| TWT-MD-1003 Whole House/Office Treatment System Provides 5 Stages of Cleaning | 8 GPM | 37"W x 45"H x 8"D | 170 lbs |
|---|-------|-------------------|---------|

- Wall Mounted Water Treatment System • 3-Stage Filtration
- TWT® Deposit Control Technology • Ultra Violet Disinfection & Purification

Piping: .75" In/Out of system



| | | | |
|---------------------|-------|-------------------|---------|
| TWT-MD1003SC | 8 GPM | 49"W x 31"H x 8"D | 175 lbs |
|---------------------|-------|-------------------|---------|

- Wall Mounted Water Treatment System • 3-Stage Filtration
- TWT® Deposit Control Technology • Ultra Violet Disinfection & Purification
- Sediment Filter • Carbon Filter • GAC Filter—

Self-Cleaning Sediment Filter

The first step in achieving clean water is a filtration system. 15 micron filter with a built-in manual flush valve to purge built-up sediments in the bottom of the filter. Flow rates up to 10 GPM. Filter will initially clean the water so the replacement sediment and other media cartridges will have a much longer service and life cycle. Filter mediums used in staged filter housings are configured as illustrated. Other filter mediums and micronic sizes are available upon request. Mediums to be determined and based upon input water quality and customer and/or industry specific treatment requirements.

Piping: .75" In/Out of system



| | | | |
|---|--------|-------------------|---------|
| TWT-MD-1004 Whole House/Office treatment System Provides 5 Stages of Cleaning | 12 GPM | 40"W x 43"H x 8"D | 235 lbs |
|---|--------|-------------------|---------|

- Wall Mounted Water Treatment System • 3-Stage Filtration
- TWT® Deposit Control Technology • Ultra Violet Disinfection & Purification

Piping: 1" In/Out of system



| | | | |
|---|--------|-------------------|----------|
| TWT-MD-1004SC Whole House/Office treatment System Provides 5 Stages of Cleaning | 12 GPM | 40"W X 43"H X 8"D | 240 lbs. |
|---|--------|-------------------|----------|

- Wall Mounted Water Treatment System • 3-Stage Filtration
- TWT® Deposit Control Technology • Ultra Violet Disinfection & Purification

Self-Cleaning Sediment Filter (as described in system MD1003SC above)

Piping: 1" In/Out of system

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment.

Review product list for replacement filters and ultra-violet lamps.

Upgrades: Customized TWT® systems to meet your treatment applications available upon request



ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E./P.O.U.

Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

| | | | |
|---|--------|-------------------|---------|
| TWT-MD-1005 Whole House/Office Treatment System Provides 5 Stages of Cleaning <ul style="list-style-type: none"> • Wall Mounted Water Treatment System • 3-Stage Filtration • TWT® Deposit Control Technology • Ultra Violet Disinfection & Purification Piping: 1" In/Out of system | 15 GPM | 58"W x 49"H x 8"D | 240 lbs |
|---|--------|-------------------|---------|



| | | | |
|---|--------|-------------------|---------|
| TWT-MD-1006 Whole House/Office Treatment System Provides 5 Stages of Cleaning <ul style="list-style-type: none"> • Wall Mounted Water Treatment System • 3-Stage Filtration • TWT® Deposit Control Technology • Ultra Violet Disinfection & Purification Piping: 1.5" In/Out of system | 30 GPM | 58"W x 49"H x 8"D | 246 lbs |
|---|--------|-------------------|---------|



MULTI-PROCESS CHEMICAL-FREE FRESH WATER & RAIN WATER TREATMENT SYSTEMS

Modular systems, custom integrated and combined for maximum effectiveness

Nature's way of conserving water worldwide. Rainwater capture systems for homes, offices, schools, commercial, industrial facilities and anywhere the need for clean water is required!



Approximate Dimensions: 28" H X 25" Wide

#TWT-RWH-4: 4 GPM **TWT-RWH-2: 2 GPM** (available upon request- not illustrated)

Modular Unit Includes:

- One (1) Self-cleaning sediment filter • One (1) 10" Double Filter Set – Sediment & Carbon
- One (1) 4-GPM Ultraviolet Purifier • Filter wrench • PVC / flexible tubing in/ out of system

Units available in 110/20V / 220/30V

- **Optional:** One (1) inverter for battery powered operation (battery not included)
- **Optional:** Pressure gauges

Treatment units are shipped to customers ready to put in place, connect & operate

Note: All products are shipped with easy to follow application, installation and maintenance materials. Handy man and/or licensed plumbing contractor application and installation suggested.

Battery, pumps, pipes, hose connections, fittings and other related plumbing equipment needed, owners responsibility.

Built to order only. Custom engineered, component assembled based on customer/industry specific requirements.



Optional: Battery back-up system for all treatment kits

12 volt or 24 volt DC to AC inverter converts DC current into conventional AC electricity. Connect one of these units directly to a battery to operate. Connect treatment kit to near by power source or inverter for battery power operation (Batteries not included)

ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E/P.O.U.

Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com



TWT-RWH-8: 8 GPM

Modular Unit Includes:

- One (1) Self-cleaning sediment filter • One (1) 20" Slim-line Double Filter Set – Sediment & Carbon
- One (1) 8-GPM Ultraviolet Purifier • Filter wrench • PVC / flexible tubing in/ out of system
- Units available in 110/20V / 220/30V
- Optional: One (1) inverter for battery powered operation (battery not included)
- Optional: Pressure gauges pictured on unit not included

Treatment units are shipped to customers ready to put in place, connect & operate..

Note: All products are shipped with easy to follow application, installation and maintenance materials. Handy man and/or licensed plumbing contractor application and installation suggested.

Battery, pumps, pipes, hose connections, fittings and other related plumbing equipment needed, owners responsibility.

Built to order only. Custom engineered, component assembled based on customer/industry specific requirements.

Approximate Dimensions: 28" W X 38" H



Optional: Battery back-up system for all treatment kits

12 volt or 24 volt DC to AC inverter converts DC current into conventional AC electricity. Connect one of these units directly to a battery to operate. Connect treatment kit to near by power source or inverter for battery power operation (Batteries not included)



TWT-RWH-12: 12 GPM

Modular Unit Includes:

- One (1) Self-cleaning sediment filter • One (1) 20" Big Blue Double Filter Set – Sediment & Carbon
- One (1) 12-GPM Ultraviolet Purifier. • Filter wrench • PVC / flexible tubing in/ out of system
- Units available in 110/20V / 220/30V
- Optional: One (1) inverter for battery powered operation (battery not included)
- Optional: Pressure gauges pictured on unit not included

Treatment units are shipped to customers ready to put in place, connect & operate

Note: All products are shipped with easy to follow application, installation and maintenance materials. Handy man and/or licensed plumbing contractor application and installation suggested.

Battery, pumps, pipes, hose connections, fittings and other related plumbing equipment needed, owners responsibility.

Built to order only. Custom engineered, component assembled based on customer/industry specific requirements.

Approximate Dimensions: 37" W X 38" H



TWT-RWH-15: 15 GPM

Modular Unit Includes:

- One (1) Self-cleaning sediment filter • One (1) 20" Big Blue Double Filter Set – Sediment & Carbon
- One (1) 15-GPM Ultraviolet Purifier. • Filter wrench • Filter wrench
- PVC / flexible tubing in/ out of system
- Units available in 110/20V / 220/30V
- Optional: One (1) inverter for battery powered operation (battery not included)
- Optional: Pressure gauges pictured on unit not included

Treatment units are shipped to customers ready to put in place, connect & operate

Note: All products are shipped with easy to follow application, installation and maintenance materials. Handy man and/or licensed plumbing contractor application and installation suggested.

Battery, pumps, pipes, hose connections, fittings and other related plumbing equipment needed, owners responsibility.

Built to order only. Custom engineered, component assembled based on customer/industry specific requirements.

Approximate Dimensions: 54" W X 50" H

Unit warranty will be effected if system is not protected from the elements

Optional for units listed above: enclosure and/or weather proof cover recommended for year round protection from the elements if installed outdoors or in an unprotected area

MULTI-PROCESS CHEMICAL-FREE FRESH WATER & RAIN WATER TREATMENT SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com



Approximate Dimensions: 54" W X 50" H

TWT-RWH-30: 30 GPM

Modular Unit Includes:

- One (1) Self-cleaning sediment filter • One (1) 20" Big Blue Double Filter Set – Sediment & Carbon
- One (1) 30-GPM Ultraviolet Purifier. • Filter wrench • PVC / flexible tubing in / out of system

• Units available in 110/20V / 220/30V

- **Optional:** One (1) inverter for battery powered operation (battery not included)

- **Optional:** Pressure gauges pictured on unit not included

Treatment units are shipped to customers ready to put in place, connect & operate

Note: All products are shipped with easy to follow application, installation and maintenance materials. Handy man and/or licensed plumbing contractor application and installation suggested.

Battery, pumps, pipes, hose connections, fittings and other related plumbing equipment needed, owners responsibility.

Built to order only. Custom engineered, component assembled based on customer/industry specific requirements.



12 volt or 24 volt DC to AC inverter converts DC current into conventional AC electricity. Connect one of these units directly to a battery to operate.

ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E/P.O.U.

Filtration • Deposit Control • UV Disinfection/Purification

TWT-SMD-1007* 50 GPM 80" W x 60"H x 32"D ** lbs

Compact, Self-Contained, Skid-Mounted Fluid Management System

- 2-Stage Filtration • TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification

Two UV Lamps Required

Piping: 2" In/Out of system

Custom Engineered System Built to Order Only.



TWT-SMD-1007+1* 50 GPM 68" W x 52"H x 30"D ** lbs

Compact, Self-Contained, Skid-Mounted Fluid Management System

- 3-Stage Filtration • TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification

Two UV Lamps Required

Piping: 2" In/Out of system

Custom Engineered System Built to Order Only.

*TWT-SMD-series upgrades for larger GPM requirements are available upon request

**TBD: To be determined, based on final system configuration at time of purchase.

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service an treatment. Review product list for replacement filters and ultra-violet lamps.



Optional for units listed above: enclosure and/or weather proof cover recommended for year round protection from the elements if installed outdoors or in an unprotected area

ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E/P.O.U.

Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

| | | | |
|---|--------|---------------------|--------|
| TWT-SMD-1007+2* Compact, Self-Contained, Skid-Mounted Fluid Management System • 4-Stage Filtration • TWT® Deposit Control Technology • Ultra Violet Disinfection & Purification Two UV Lamps Required <i>Piping:</i> 2" In/Out of system | 50 GPM | 80" W x 52"H x 32"D | ** lbs |
|---|--------|---------------------|--------|



Custom Engineered System Built to Order Only.

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|---|--------|---------------------|--------|
| TWT-SMD-50-JCH90 All-In-One Water Treatment: Filtration and UV Disinfection • 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 Two UV Lamps Required <i>Piping:</i> 2" In/Out of system Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment) | 50 GPM | 48" W x 52"H x 63"D | 270lbs |
|---|--------|---------------------|--------|



Custom Engineered System Built to Order Only.

| | | | |
|---|--------|---------------------|--|
| TWT-SMD50P-JCH90: UV Disinfection for Food Processing – Single Stage Filtration • Single Staged Filtration • UV Disinfection • On Board Pump • NEMA IV Control Panel • Sanitary Fittings and Pipes • Manual Shut-Off Valves • Mounted on 304 SS Skid Two UV Lamps Required <i>Piping:</i> 2" In/Out of system Optional: TWT® Deposit Control Technology (Hard water conditioning & treatment) | 50 GPM | 48" W x 55"H x 63"D | |
|---|--------|---------------------|--|

Custom Engineered System Built to Order Only.

*TWT-SMD-series upgrades for larger GPM requirements are available upon request

**TBD: To be determined, based on final system configuration at time of purchase.

Custom Orders: Larger pipe size (GPM) applications available upon request
TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment. Review product list for replacement filters and ultra-violet lamps.



ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E/P.O.U.
 Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---|------------|-------------------------------|-------------------------------|
|---|------------|-------------------------------|-------------------------------|

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|---|--------|-----|--------|
| TWT-SMD50P-JCH902: UV Disinfection for Food Processing – Dual Staged Filtration | 50 GPM | TBD | ** lbs |
|---|--------|-----|--------|

- 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

Two UV Lamps Required

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

Piping: 2" In/Out of system



Custom Engineered System Built to Order Only.

| | | | |
|--|--------|---------------------|--------|
| TWT-SMD50-BBBX1 All-In-One Water Treatment: Micro Filtration and UV Disinfection | 50 GPM | 52" W x 52"H x 65"D | 250lbs |
|--|--------|---------------------|--------|

- 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

Two UV Lamps Required

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

Piping: 2" In/Out of system



Custom Engineered System Built to Order Only.

| | | | |
|--|--------|---------------------|--------|
| TWT-SMD50-BBBX2 All-In-One Water Treatment: Micro Filtration and UV Disinfection | 50 GPM | 42" W x 42"H x 62"D | 270lbs |
|--|--------|---------------------|--------|

- 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

two UV Lamps Required

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

Piping: 2" In/Out of system

Custom Engineered System Built to Order Only.



TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment. Review product list for replacement filters and ultra-violet lamps.

TBD: To be determined based on industry specific treatment requirements

ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E./P.O.U.

Filtration • Deposit Control • UV Disinfection/Purification

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| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
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|--------------------------|--------|---------------------|---------|
| TWT-SMD-50P-JCHX1 | 50 GPM | 48" W x 52"H x 63"D | 270 lbs |
|--------------------------|--------|---------------------|---------|

All-In-One Water Treatment: Single Filtration and UV Disinfection

- Single 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.
- UV Monitor
- Solenoid Valves

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

Custom Engineered System Built to Order Only.



| | | | |
|--------------------------|--------|---------------------|---------|
| TWT-SMD-50P-JCHX2 | 50 GPM | 48" W x 52"H x 63"D | 270 lbs |
|--------------------------|--------|---------------------|---------|

All-In-One Water Treatment: Dual Filtration and UV Disinfection

- Dual 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
- UV Monitor • Solenoid Valves

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

Custom Engineered System Built to Order Only.



| | | | |
|----------------------|---------|---------------------|--------|
| TWT-SMD-1008* | 100 GPM | 72" W x 52"H x 34"D | ** lbs |
|----------------------|---------|---------------------|--------|

Compact, Self-Contained, Skid-Mounted Fluid Management System

- 2-Stage Filtration • TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification
- Four UV Lamps Required

Piping: 2" In/Out of system

Custom Engineered System Built to Order Only.



*TWT-SMD-series upgrades for larger GPM requirements are available upon request

**TBD: To be determined, based on final system configuration at time of purchase.

Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment. Review product list for replacement filters and ultra-violet lamps.

ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E./P.O.U.
Filtration • Deposit Control • UV Disinfection/Purification

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---|------------|---------------------------|---------------------------|
|---|------------|---------------------------|---------------------------|

| | | | |
|------------------------|---------|---------------------|--------|
| TWT-SMD-1008+1* | 100 GPM | 80" W x 60"H x 34"D | ** lbs |
|------------------------|---------|---------------------|--------|

Compact, Self-Contained, Skid-Mounted Fluid Management System

- 3-Stage Filtration • TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification
- Four UV Lamps Required

Piping: 2" In/Out of system

Custom Engineered System Built to Order Only.



| | | | |
|------------------------|---------|---------------------|----------|
| TWT-SMD-1008+2* | 100 GPM | 80" W x 52"H x 34"D | *800 lbs |
|------------------------|---------|---------------------|----------|

Compact, Self-Contained, Skid-Mounted Fluid Management System

- 4-Stage Filtration • TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification
- Four UV Lamps Required

Piping: 2" In/Out of system

Custom Engineered System Built to Order Only.



| | | | |
|---------------------------|---------|---------------------|---------|
| TWT-SMD-100P-BBBX3 | 100 GPM | 36" W x 50"H x 53"D | 590 lbs |
|---------------------------|---------|---------------------|---------|

All-In-One Water Treatment: Filtration and UV Disinfection Management System

- 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
- Four UV Lamps Required

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

Piping: 2" In/Out of system

Custom Engineered System Built to Order Only.

Factory assembled and skid mounted on stainless steel skid.
3" line in/out of system. 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

*TWT-SMD-series upgrades for larger GPM requirements are available upon request

**TBD: To be determined, based on final system configuration at time of purchase.

Custom Orders: Larger pipe size (GPM) applications available upon request



ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E/P.O.U.
 Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---|------------|-------------------------------|-------------------------------|
|---|------------|-------------------------------|-------------------------------|

| | | | |
|--------------------------|---------|---------------------|---------|
| TWT-SMD-100-JCHX1 | 100 GPM | 52" W x 52"H x 65"D | 270 lbs |
|--------------------------|---------|---------------------|---------|

All-In-One Water Treatment: Filtration and UV Disinfection

- 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
- Four UV Lamps Required

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

Piping: 2" In/Out of system

Custom Engineered System Built to Order Only.



| | | | |
|------------------------|---------|---------------------|---------|
| TWT-SMD-150-UV3 | 150 GPM | 52" W x 52"H x 65"D | 270 lbs |
|------------------------|---------|---------------------|---------|

UV Disinfection

- Triple UV-5000 Sterilizer 316 SS in Parallel Manifold
- Power Bar w/Surge Protector • MNPT In/Out Ports, Flange Optional
- Rack Mounted
- Six UV Lamps Required

Piping: 2" In/Out of system

Custom Orders: Larger pipe size (GPM) applications available upon request

Custom Engineered System Built to Order Only.



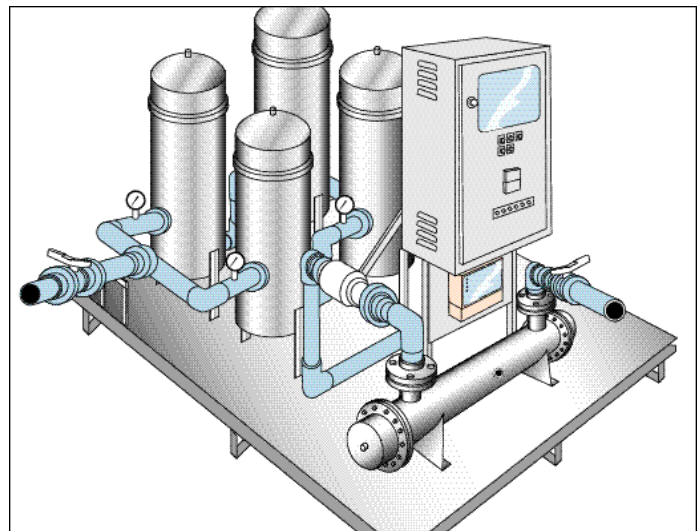
| | | |
|-----------------------|---------|--------------------|
| TWT-SMD-1009/4 | 200 GPM | 84"W X 72"H X 60"D |
|-----------------------|---------|--------------------|

Compact, Self-Contained, Skid-Mounted Fluid Management System

- 4-Filter Housings • Stage Filtration
- TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification
- Seven UV Lamps Required

Piping: 3" In/Out of system

Custom Engineered System Built to Order Only.



*TBD: To be determined, based on final system configuration at time of purchase.

Concept rendering not to scale, for reference only.

ALL-IN-ONE MD INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.E./P.O.U.
Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Custom Engineered System Built to Order Only.

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---|------------|-------------------------------|-------------------------------|
|---|------------|-------------------------------|-------------------------------|

| | | | |
|--|---------|--------------------|----------|
| TWT-SMD-200+4 Compact, Self-Contained, Skid-Mounted Fluid Management System | 200 GPM | 84"W X 72"H X 60"D | *800 lbs |
|--|---------|--------------------|----------|

- Staged Filtration
- TWT® Deposit Control Technology
- 7 Lamp Ultra Violet Disinfection & Purification
- Stainless Steel skid

Piping: 3" In/Out of system

Applies all the needed elements for maximum fluid protection, management, and peace of mind in one simple packaged solution. Technologically advanced method for water & fluid management, Staged Filtration, TWT® Microprocessor Deposit Controller, Reaction Chamber, and UV Disinfection/Purification units are combined to provide a start-to-finish answer to simplified prevention, treatment and management of water line contamination dangers.

Specifications:

Factory assembled and skid mounted on stainless steel skid (Size & weight may vary according to custom design). Filter medium and micronic sizes used in staged filter housings are configured as illustrated. Other filter medium and micronic 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.

Please Note: System engineering design, weight, size and system component assembly can vary based on TWT engineering review.

Pumps, piping, fittings, valves, and other material needed to and from system owners responsibility. The rugged self-contained design of this system ensures that the system will enjoy a long and reliable lifecycle when properly cared for.

Installation: Licensed plumber and/or contractor is recommended. Must have enough room on all sides for filter and UV replacement & maintenance.

Point-Of-Entry/Point-Of-Use Treatment System



Request TWT file #ATS98 for additional system information.

*TWT-SMD-series upgrades for larger GPM requirements are available upon request

Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment. Review product list for replacement filters and ultra-violet lamps.

All-In-One Multi-Process Ultra Treatment Systems

Filtration • Ultra-Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Ultra-Filtration removes impurities as small as .015 microns from the source water. Now, you can have continuous, crystal

clear safe water. It uses very little water during the flush cycle and does not add chemicals to the water.

Custom Engineered System Built to Order Only.

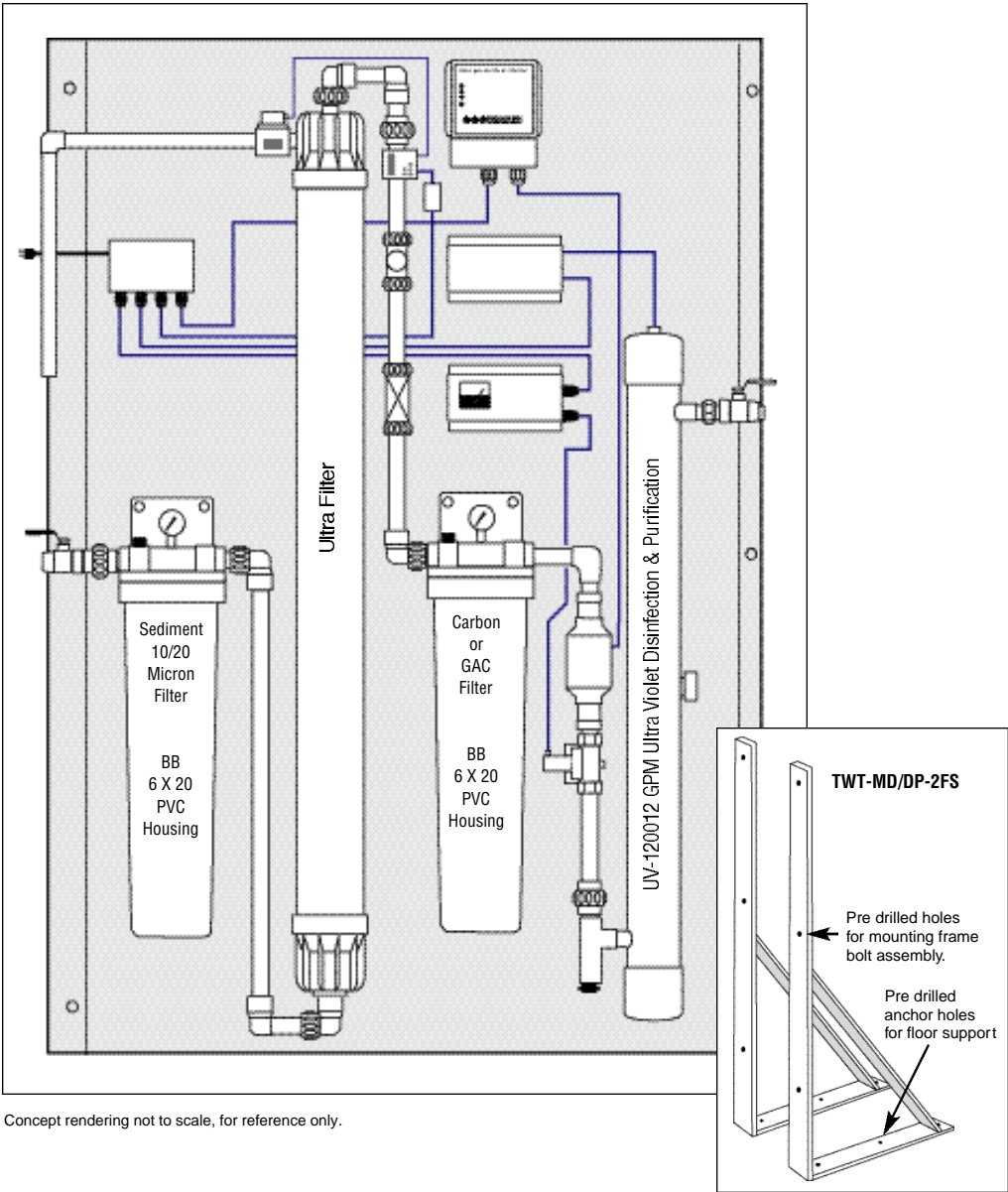
| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|------------------------------------|-----|--------------------|--------------------|
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TWT-MD-1004UF

Compact, Self-Contained,
 Wall Mounted Fluid Management
 System

- 2-Filter Housings
- Stage Filtration
- Ultra-Filtration
- TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification
- 1 UV Lamp Required

Piping: 1" In/Out of system



Concept rendering not to scale, for reference only.

TBD: To be determined, based on final system configuration at time of purchase.

Custom Orders: Larger pipe size (GPM) applications available upon request
TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment.
Review product list for replacement filters and ultra-violet lamps.

Optional: Stainless steel frame supports for free standing floor installation. Two needed per system.

All-In-One Multi-Process Ultra Treatment Systems

Filtration • Ultra-Filtration • Deposit Control • UV Disinfection/Purification • Ozone Oxidation

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Ultra-Filtration removes impurities as small as .015 microns from the source water. Now, you can have continuous, crystal clear

safe water. It uses very little water during the flush cycle and does not add chemicals to the water.

Custom Engineered System Built to Order Only.

ITEM NUMBER & PRODUCT DESCRIPTION:

GPM

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-MD-1004/UFOZ

12 GPM

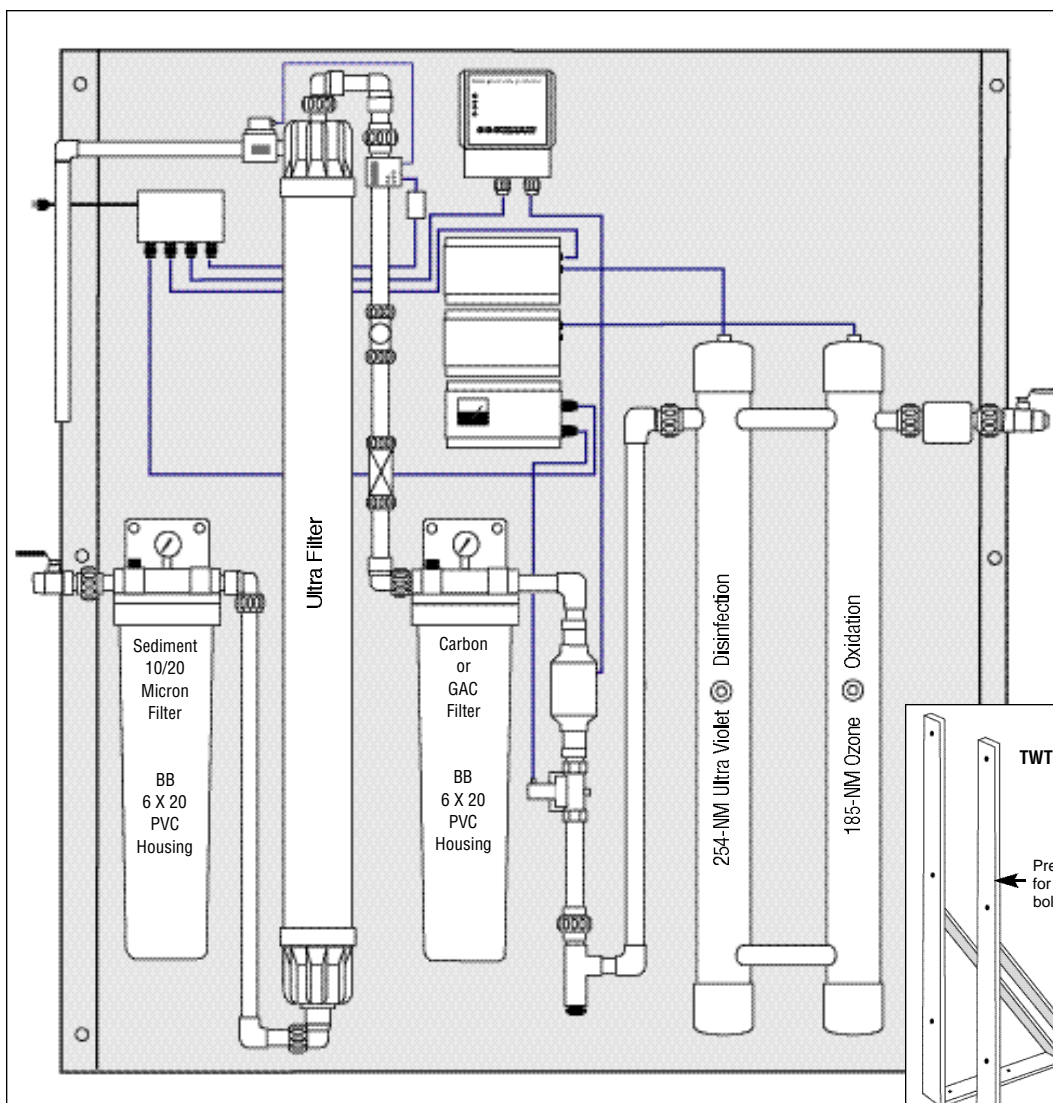
56"W X 60"H X 8"D

TBD

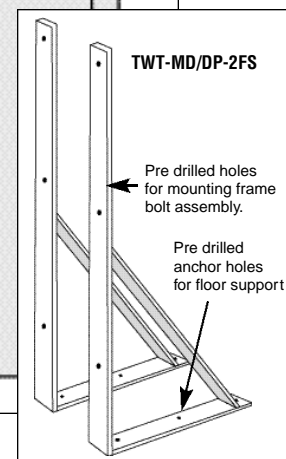
Compact, Self-Contained, Wall Mounted Fluid Management System

- 2-Filter Housings
- Stage Filtration
- Ultra-Filtration
- TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification
- Ozone Oxidation
- 1 UV Lamp Required

Piping: 1" In/Out of system



Concept rendering not to scale, for reference only.



Optional: Stainless steel frame supports for free standing floor installation. Two needed per system.

*TWT-system upgrades for larger GPM requirements are available upon request

TBD: To be determined, based on final system configuration at time of purchase.

Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment.

Review product list for replacement filters and ultra-violet lamps.

All-In-One Multi-Process Ultra Treatment Systems

Filtration • Ultra-Filtration • Deposit Control • UV Disinfection/Purification for HVAC, Cooling Tower/Condensers, Chillers

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Ultra-Filtration removes impurities as small as .015 microns from the source water. Now, you can have continuous, crystal clear safe

water. It uses very little water during the flush cycle and does not add chemicals to the water.

Custom Engineered System Built to Order Only.

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

| | | | |
|---|---------|--------------------|-----|
| TWT-MD-1006/UF Compact, Self-Contained, Skid-Mounted Fluid Management System | 30 GPM* | 65"W X 66"H X 31"D | TBD |
|---|---------|--------------------|-----|

- 2-Filter Housings • Stage Filtration
- Quad Ultra-Filtration
- TWT® Deposit Control Technology
- Ultra Violet Disinfection & Purification
- 1 UV Lamp Required

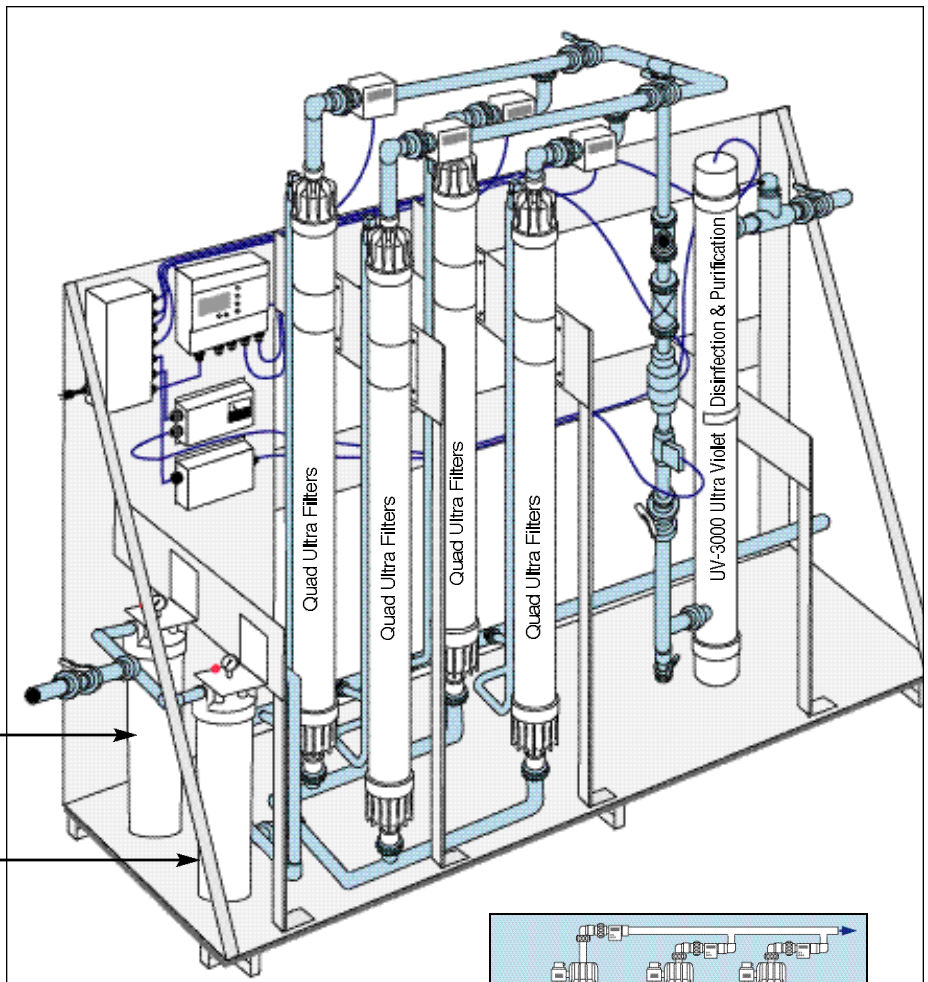
Piping: 1.5" In/Out of system

HVAC, Cooling Tower/Condenser, Chillers

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.

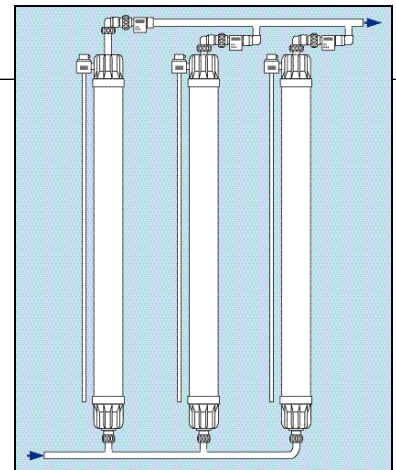
Sediment
10/20 Micron
Filter
BB 6 X 20
PVC Housing

Carbon or
GAC Filter
BB 6 X 20
PVC
Housing



Concept rendering not to scale, for reference only.

Ultra filtration units may be configured to meet various application and flow requirements. See page 59 for technical information.



*TWT-system upgrades for larger GPM requirements are available upon request

TBD: To be determined, based on final system configuration at time of purchase.

Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment.

Review product list for replacement filters and ultra-violet lamps.

TWT ALL-IN-ONE DP INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.U. / P.O.E.

Deposit Control • UV Disinfection Purification System–If Water Conditions Do Not Require Filtration

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS |
|---------------------------------------|-----|-----------------------|
|---------------------------------------|-----|-----------------------|

| | | |
|--|-------|--------------------|
| TWT-DP-01 Integrated Fluid Treatment System with High Intensity UV Light Kills 99.9% of all Bacteria Features TWT® Deposit Control Technology with Ultra Violet Disinfection & Purification <i>Piping: .5" In/Out of system</i> | 2 GPM | 30"W x 30"H x 10"D |
|--|-------|--------------------|

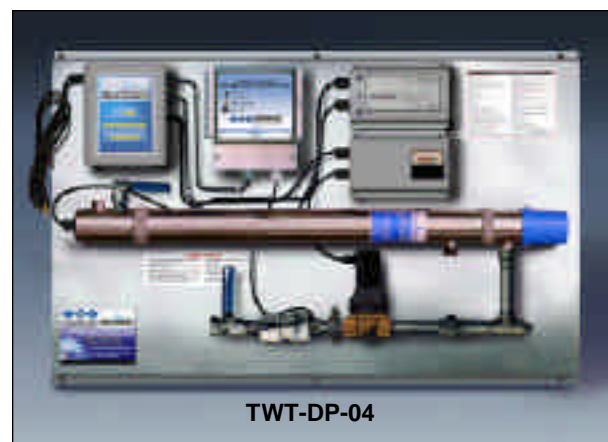
| | | |
|---|-------|--------------------|
| TWT-DP-02 Integrated Fluid Treatment System with High Intensity UV Light Kills 99.9% of all Bacteria Features TWT® Deposit Control Technology with Ultra Violet Disinfection & Purification <i>Piping: .75" In/Out of system</i> | 4 GPM | 34"W x 30"H x 10"D |
|---|-------|--------------------|

| | | |
|---|-------|--------------------|
| TWT-DP-03 Integrated Fluid Treatment System with High Intensity UV Light Kills 99.9% of all Bacteria Features TWT® Deposit Control Technology with Ultra Violet Disinfection & Purification <i>Piping: .75" In/Out of system</i> | 8 GPM | 49"W x 42"H x 15"D |
|---|-------|--------------------|



The TWT-DP-03 and DP-04 series product line is similar in design and appearance. Weight, size and component assembly will differ based on GPM treatment requirements.

| | | |
|---|--------|--------------------|
| TWT-DP-04 System with High Intensity UV Light Kills 99.9% of all Bacteria. Features TWT® Deposit Control Technology with Ultra Violet Disinfection & Purification. <i>Piping: 1" In/Out of system</i> | 12 GPM | 49"W x 42"H x 15"D |
|---|--------|--------------------|



Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment. Review product list for filters and ultra-violet lamps.

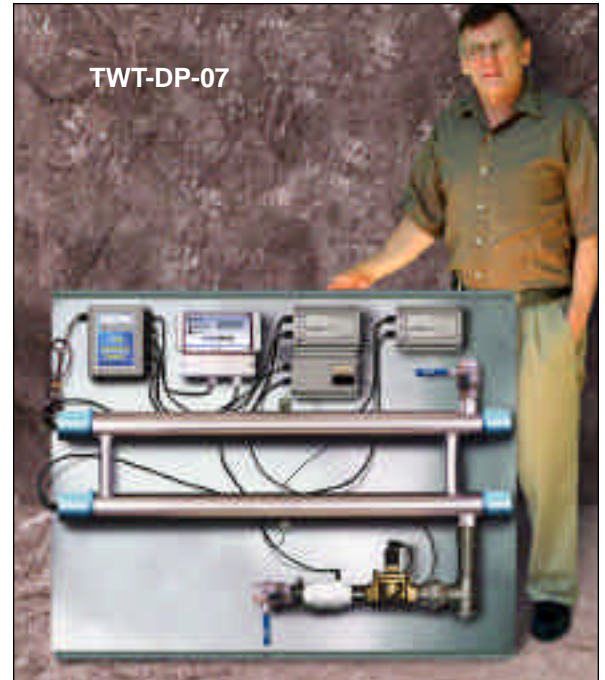
Upgrades: Customized TWT® systems to meet your treatment applications available upon request

TWT ALL-IN-ONE DP INTEGRATED WATER TREATMENT & CONDITIONING SYSTEMS P.O.U./ P.O.E.

Deposit Control • UV Disinfection Purification System

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM DIMENSIONS | PRODUCT WEIGHT | APPROX SHIP |
|---|-------------------------------|-------------------|-------------|
| TWT-DP-05 Integrated Fluid treatment System with High Intensity UV Light Kills 99.9° of all Bacteria <i>Piping:</i> 1" In/Out of system Features TWT® Deposit Control Technology with Ultra Violet Disinfection & Purification. | 15 GPM 49"W x 42"H x 15"D | 180 lbs | |
| TWT-DP-06 Integrated Fluid treatment System with High Intensity UV Light Kills 99.9° of all Bacteria <i>Piping:</i> 1.5" In/Out of system Features TWT® Deposit Control Technology with Ultra Violet Disinfection & Purification. | 30 GPM 52"W x 57"H x 15"D | 185 lbs | |
| TWT-DP-07 Integrated Fluid treatment System with High Intensity UV Light Kills 99.9° of all Bacteria <i>Piping:</i> 2" In/Out of system Features TWT® Deposit Control Technology with Ultra Violet Disinfection & Purification. Two UV Lamps Required | 50 GPM 44"W x 58"H x 14"D | 229 lbs | |
| TWT-DP-08 Integrated Fluid treatment System with High Intensity UV Light Kills 99.9° of all Bacteria <i>Piping:</i> 2" In/Out of system Features TWT® Deposit Control Technology with Ultra Violet Disinfection & Purification. Two UV Lamps Required | 100 GPM 44"W x 58"H x 14"D | 235 lbs | |



The TWT-DP series product line is similar in design and appearance. Weight, size and component assembly will differ based on GPM treatment requirements.

ACCESSORIES for INTEGRATED MD/DP TREATMENT SYSTEMS P.O.U. / P.O.E.

Stainless Steel Frame Supports for Free Standing Installation – Two Per Unit Required

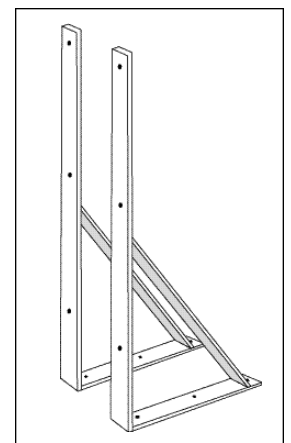
| | | |
|---|---------------------------|-----|
| TWT-MD/ DP-2FS | Sized according to system | TBD |
| To use with the MD & DP floor mounted water treatment systems | | |

Quote: Order based on price of material at time of purchase

TBD: To be determined, based on final system configuration at time of purchase.
Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment. Review product list for replacement filters and ultra-violet lamps.

Upgrades: Customized TWT® systems to meet your treatment applications available upon request



TWT- SOLAR POWERED TRANSPORTABLE WATER TREATMENT SYSTEM

Filtration • Deposit Control • UV Disinfection/Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

TWT-SP-250-4 (4-GPM)

Our Transportable Solar System combines High-Quality Pre-Filtration with our Hi-Power Ultra violet Purification Technology to Produce a Complete Water Quality System

- Size: 32" x 30" X 55"
- Weight: 200 lbs
- Heavy duty water treatment system
- Solar powered panels (maintenance free)
- System battery pack (maintenance free)
- Staged filtration: Sediment, carbon and other filter cartridge replacements
- Ultra violet disinfection & purification
- DC water pump (for deep well applications)
- Rated flow: 4 GPM
- 3.0 hours sun powered run time=approx. 720 gallon output
- 8.0 hours charged battery pack, solar power run time= approx. 1920 gallons per day
- Initial UV dose at rated flow: 38 mj/cm² (38,000 uwsec/cm²)
- Electrical: 12 volt solar power pack/panel-solar panel-55W



H2ALL (1 panel) 285 W/h (588 W/h battery bank)

| CATEGORY: | # PIECES | Units/ Desc.. | Data US |
|-------------------------|----------|-----------------|---------------------|
| Ext. Dimensions: LxWxH | | (OPEN) | 60" x 43" x 92" |
| Ext. Dimensions: LxWxH | | (CLOSED) | same as above |
| Weight: | | (DRY) | 388 LBS |
| Construction: | | (MATERIALS) | Steel, Aluminum |
| Solar Panels: | 1 | (TOTAL WATTAGE) | 588 W/h |
| Batteries: | 2 | (CAPACITY) | 1.2 KwH |
| Inverter: | | (VDC, WATTS) | Optional, 300 watts |
| Charge Controller: | 1 | (TYPE, CURRENT) | MPPT, 15A |
| Wind Turbine (Optional) | 1 | (TOTAL WATTAGE) | N/A |



MP-TRK (6 panel) 2.5 KW (15 KwH battery bank) DUAL-AXIS tracking

| CATEGORY: | # PIECES | Units/ Desc.. | Data US |
|-------------------------|----------|-----------------|-------------------------------|
| Ext. Dimensions: LxWxH | | (OPEN) | 168" x 83" x 96" |
| Ext. Dimensions: LxWxH | | (CLOSED) | same as above |
| Weight: | | (DRY) | 3,400 LBS |
| Construction: | | (MATERIALS) | Steel, Aluminum |
| Solar Panels: | 6 | (TOTAL WATTAGE) | 660 W/h, W dual axis tracking |
| Batteries: | 8 | (CAPACITY) | 15 KwH |
| Inverter: | 1 | (VDC, WATTS) | 24VDC, 2.5KW, 120 V |
| Charge Controller: | 1 | (TYPE, CURRENT) | MPPT, 60A |
| Wind Turbine (Optional) | 1 | (TOTAL WATTAGE) | 400 W/h |



MOBILE SOLAR POWER UNITS

Renewable Energy Systems on Wheels

Renewable Energy Systems on Wheels™

• ZERO Fumes • ZERO Emissions • ZERO Noise • ZERO Fumes • Worldwide Mobility

Sprint 6 (6 panel): 2.5 KW (7.3 Kwh battery bank)

| CATEGORY: | # PIECES | Units/ Desc.. | Data US |
|-------------------------|----------|-----------------|--------------------------------|
| Ext. Dimensions: LxWxH | | (OPEN) | 106" x 83" x 96" |
| Ext. Dimensions: LxWxH | | (CLOSED) | same as above |
| Weight: | | (DRY) | 2,800 LBS |
| Construction: | | (MATERIALS) | Steel, Aluminum |
| Solar Panels: | 6 | (TOTAL WATTAGE) | 1050 W/h, W/dual axis tracking |
| Batteries: | 8 | (CAPACITY) | 7.3 Kwh |
| Inverter: | 1 | (VDC, WATTS) | 24VDC, 2.5KW, 120vac, 60 Hz |
| Charge Controller: | 1 | (TYPE, CURRENT) | MPPT, 60A |
| Wind Turbine (Optional) | 1 | TOTAL WATTAGE) | 400 W/h |



Sprint 9 (9 panel): 2.5 KW (15 Kwh battery bank)

| CATEGORY: | # PIECES | Units/ Desc.. | Data US |
|-------------------------|----------|-----------------|--------------------------------|
| Ext. Dimensions: LxWxH | | (OPEN) | 168" x 83" x 96" |
| Ext. Dimensions: LxWxH | | (CLOSED) | same as above |
| Weight: | | (DRY) | 2,900 LBS |
| Construction: | | (MATERIALS) | Steel, Aluminum |
| Solar Panels: | 9 | (TOTAL WATTAGE) | 1575 W/h, W/dual axis tracking |
| Batteries: | 8 | (CAPACITY) | 15 Kwh |
| Inverter: | 1 | (VDC, WATTS) | 24VDC, 2.5KW, 120vac, 60 Hz |
| Charge Controller: | 1 | (TYPE, CURRENT) | MPPT, 60A |
| Wind Turbine (Optional) | 1 | TOTAL WATTAGE) | 400 W/h |



Sprint 12 (12 panel) 3 KW (15 Kwh battery bank)

| CATEGORY: | # PIECES | Units/ Desc.. | Data US |
|-----------------------|----------|-----------------|-----------------|
| Ext. Dimensions:LxWxH | | OPEN) | 230"x88"x106" |
| Ext. Dimensions:LxWxH | | (CLOSED) | same as above |
| Weight: | | (DRY) | 3,000 LBS |
| Construction: | | (MATERIALS) | Steel, Aluminum |
| Solar Panels: | 12 | (TOTAL WATTAGE) | 2,100 W/h |
| Batteries: | 12 | (CAPACITY) | 15 Kwh |
| Inverter: | 1 | (VDC, WATTS) | 24VDC, 2.5KW |
| Charge Controller: | 1 | (TYPE, CURRENT) | MPPT, 60A |



MOBILE SOLAR POWER UNITS

Renewable Energy Systems on Wheels

Custom Engineered System Built to Order Only.

MP-3K (18 panel) 3 KW (30 Kwh battery bank)

| CATEGORY: | # PIECES | Units/ Desc.. | Data US |
|-------------------------|----------|-----------------|----------------------------|
| Ext. Dimensions: LxWxH | | OPEN) | 224"x190"x159" |
| Ext. Dimensions: LxWxH | | (CLOSED) | 224"x88"x98" |
| Weight: | | (DRY) | 6,200 LBS |
| Construction: | | (MATERIALS) | Steel, Aluminum |
| Solar Panels: | 18 | (TOTAL WATTAGE) | 3,150 W/h |
| Batteries: | 16 | (CAPACITY) | 30 Kwh |
| Inverter: | 1 | (VDC, WATTS) | 48VDC, 3KW, 230 Vac, 50 Hz |
| Charge Controller: | 1 | (TYPE, CURRENT) | MPPT, 80A |
| Wind Turbine (Optional) | 1 | (TOTAL WATTAGE) | 400 W/h |



TWT has extensive design, engineering, and manufacturing ability to work with customers to use our products 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 system to meet your specific application needs.

TWT® offers a bold series of chemical-free products & systems designed to meet the demanding challenge in fluid management. Technologically advanced methods for water, fluid treatment providing comprehensive end-to-end solutions.

Combined with solar energy, meeting the needs of any industry and application

“The Competitive Edge”

Specializing in: Chemical-Free Deposit Control Technology:

- Ultraviolet and/or Ozone Disinfection Ionization Purification • Pre & Post Filtration
- Custom System Design & Integration
- To Create Solutions For Your Own Industry-Specific Situation
- Improving Operating Efficiency & Life Cycle of Equipment
- Economical & Cost Effective • Energy & Water Savings

Explore New Innovative Ideas Using Mobile Solar Power with TWT® Chemical-Free Water Treatment Technology. The Most Economical and Effective Way To Produce Safe Drinking Water Anywhere... AnyTime!

Mobile solar powered, water treatment systems are portable and well suited for various applications. Disaster Relief, Emergency Preparedness, remote Construction Sites, Small Villages, Areas With No power And Poor Water Quality.

Note: Mobile solar powered systems can be custom designed and integrated to meet your specific application requirements. Contact TWT, Inc. for additional information.



TOTAL WATER CONTROL SYSTEMS (TWCS) For Industrial, Cooling Towers, and Process Water (HVAC) Cooling Towers, Chillers, Condensers, (Chemical-Free) All-In-One: Water Conditioning and Treatment Systems. End-To-End Treatment Process Package Units.

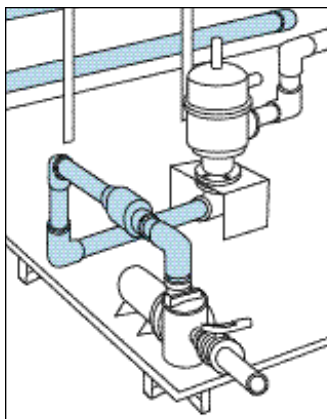
For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Custom Engineered System Built to Order Only.

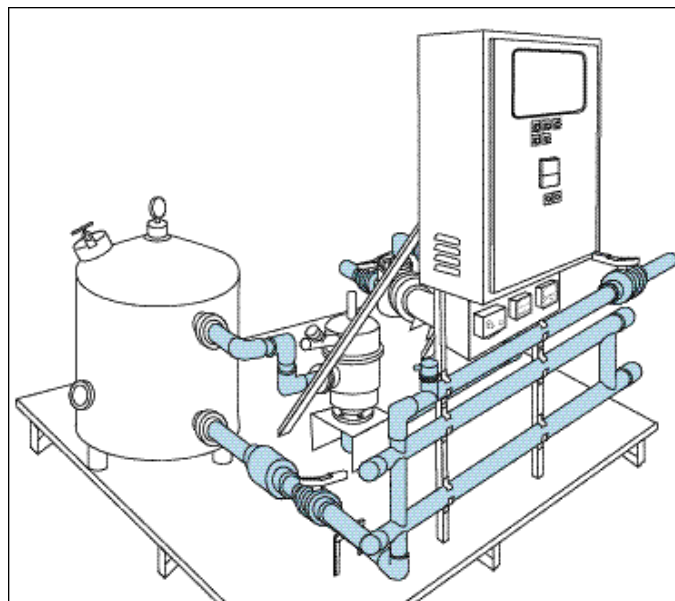
TWCS are custom built according to customer system application, treatment and GPM requirements.
Component assembly, size and system weight to be determined at time of purchase based on completed proposal

| MODEL NUMBER | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------|-----|--------------------|--------------------|
| TWT-TWCS-500 | 30 | TBD | TBD |

Designed to treat 30 GPM/ 2 inch In/Out of System (TWT-UV5000) TWCS Approximate Dimensions: Size, Height, Width & Depth (TBD)
Approx sump volume in gallons 0-4000
Approx tonnage capacity (To Be Determined)
Electrical power: 110/20 VAC / 220/30 VAC



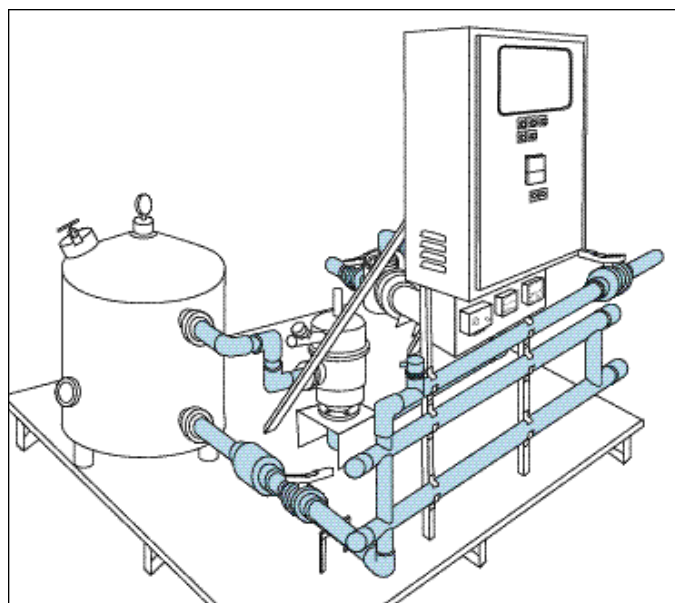
Rear View: System Components



These two units are all similar in appearance, but have different capacities.

| | | | |
|----------------------|----|-----|-----|
| TWT-TWCS-1000 | 50 | TBD | TBD |
|----------------------|----|-----|-----|

TWT-TWCS-1000—Designed to treat 50 GPM/3 inch In/Out of System (TWT-UV6000) TWCS Approximate Dimensions: Size, Height, Width & Depth (TBD)
Approx sump volume in gallons 4000-6000
Approx tonnage capacity (To Be Determined)
Electrical power: 110/20 VAC / 220/30 VAC



Optional Components:

- TDS meter • PH meter • Conductivity meter
- Blow Down Control Valve
- Diagnostics (Off-Site Remote Monitoring)
- System cover for outdoor installation
- Replaceable cartridge filtration system in place of media filtration when and if required

Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc.recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc.be stored at owners facility at all times, that will insure uninterrupted service and treatment.Review product list for replacement filters and ultra-violet lamps.

TBD: To be determined, based on final system configuration at time of purchase.

TOTAL WATER CONTROL SYSTEMS (TWCS) For Industrial, Cooling Towers, and Process Water

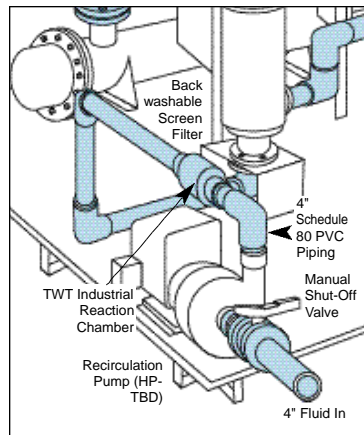
Computerized Control of Filtration, Deposit Control Technology and Ultra Violet Disinfection & Purification

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

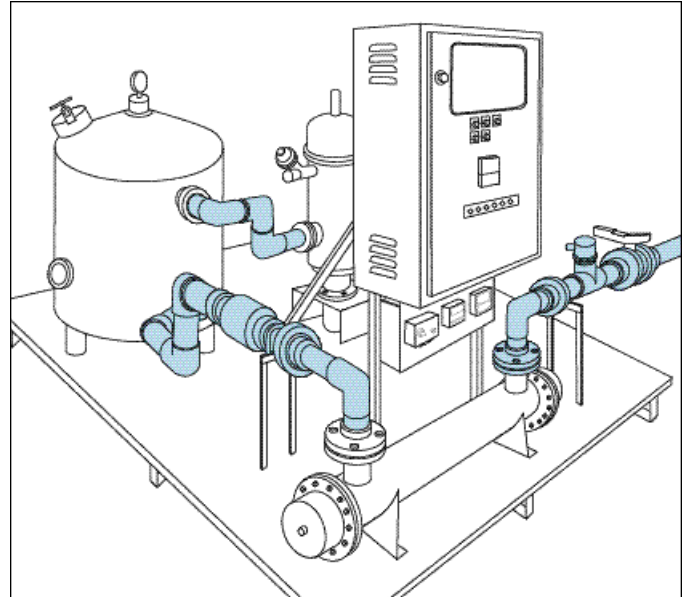
Custom Engineered System Built to Order Only.

| MODEL NUMBER | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|----------------------|-----|--------------------|--------------------|
| TWT-TWCS-2500 | 80 | TBD | TBD |

TWT-TWCS-2500—Designed to treat 80 GPM/4 inch In/Out of System (TWT-UV100-6) TWCS Approximate Dimensions: Size, Height, Width & Depth (TBD)
 Approx sump volume in gallons 6000-10,000
 Approx tonnage capacity (To Be Determined)
 Electrical power: 110/20 VAC / 220/30 VAC



Rear View: System Components

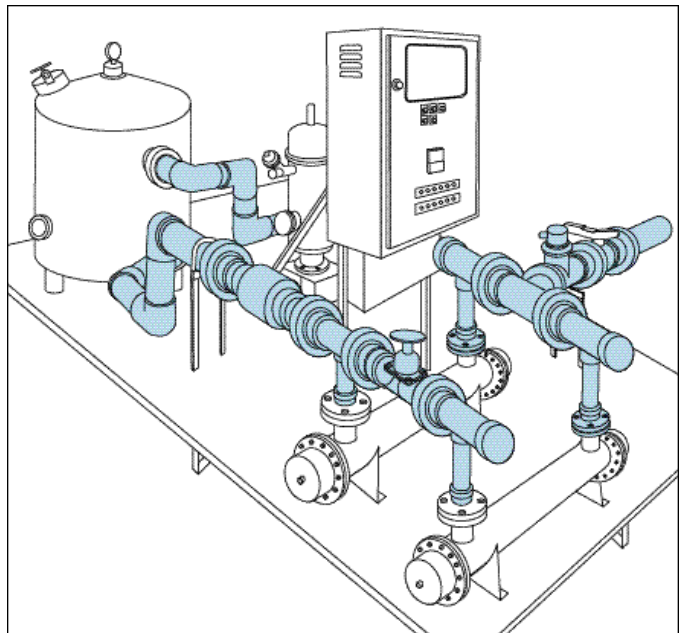


| | | | |
|----------------------|-----|-----|-----|
| TWT-TWCS-5000 | 120 | TBD | TBD |
|----------------------|-----|-----|-----|

TWT-TWCS-5000—Designed to treat 120 GPM/6 inch In/Out of System (2-TWT-UV100-6) TWCS
 Approximate Dimensions: Size, Height, Width & Depth (TBD)
 Approx sump volume in gallons 10,000-15,000
 Approx tonnage capacity (To Be Determined)
 Electrical power: 110/20 VAC / 220/30 VAC

Optional Components:

- TDS meter • PH meter • Conductivity meter
- Blow Down Control Valve
- Diagnostics (Off-Site Remote Monitoring)
- System cover for outdoor installation
- Replaceable cartridge filtration system in place of media filtration when and if required



Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc. recommends that an initial supply of replacement products e.g., replacement filters, UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment. Review product list for replacement filters and ultra-violet lamps.

TBD: To be determined, based on final system configuration at time of purchase.

TRANSPORTABLE WATER TREATMENT SYSTEMS WITH MULTI-STAGE MICRO-FILTRATION, DEPOSIT CONTROL AND ULTRA-VIOLET DISINFECTION

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Custom Engineered System Built to Order Only.

Safe drinking water anywhere...any time!

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX WEIGHT |
|--|-----|-----------------------|------------------|
| TWT-UV-20 Disinfection System | 20 | TBD | TBD |
| TWT-UV-40 Complete Disinfection System | 40 | TBD | TBD |
| TWT-UV-60 Complete Disinfection System | 60 | TBD | TBD |
| Rated flow: 226 liters per minute (60 GPM), 13,560 liters/hour, 325,440 liters per day (3600 gallons/hour, 86400 gallons day) Initial UV dose at rated flow: 25 mJ/cm ² (25,000 uwsec/cm ²) @95% T Electrical: 100-130V / 50-60 Hz / 192 VA • 220-240V / 50-60 Hz / 154 VA Maximum operating temp: 37°C (98.6F) Maximum operating pressure: 125 psi - 8.6 bar (tested to 500 psi) Plumbing: 3" Flange In/Out Chamber material: 304L stainless steel (316L available) Filtration (in SS housings): Sediment 50, 20 and 1 micron absolute, carbon block 5 micron Additional features: CIDII rated enclosure | | | |

TWT-UV-60 Transportable Systems



| | | | |
|--|----|-----|-----|
| TWT-UV-75 Complete Disinfection System | 75 | TBD | TBD |
|--|----|-----|-----|

TWT-UV 20/40/60 Range 30 M to 50 M larger GPM systems

| | | | |
|---|-----|-----|-----|
| TWT-UV-200 Complete Disinfection System | 200 | TBD | TBD |
|---|-----|-----|-----|

| | |
|--|--|
| Rated flow: 946 liters per minute (250 GPM), 56,760 liters/hour, 1,36 mil liters per day (15,000 gallons/hour, 360,000 gallons day) Initial UV dose at rated flow: 35 mJ/cm ² (35,000 uwsec/cm ²) @95% T Electrical: 100-130V / 50-60 Hz • 220-240V / 50-60 Hz Approx. power usage: 700 W Maximum operating temp: 37°C (98.6F) Maximum operating pressure: 125 psi - 8.6 bar (tested to 500 psi) Plumbing: 3" Flange In/Out Chamber material: 304L stainless steel Filtration (in SS housings): 50, 20 and 1A micron sediment filter, carbon filter considerations available Additional features (optional): Real time monitoring of UV, TDS, ORP pressure gauges, test ports, solenoid valve | |
|--|--|



TWT-UV-200

Component List

Skid Size

| | |
|---|--|
| <ol style="list-style-type: none"> 1. Stainless Steel Base Skid 2. One 10 H.P. pump with a 50 ft.Head, self-priming 3. One strainer basket 4. Two 10 micron bag filters 5. One stainless steel 30"carbon filter or One 40" stainless steel carbon filter for UV 40/60 6. One #90 Hurricane 5 micron filter 7. One #90 Hurricane 1 micron filter 8. One UV-5000 disinfection subsystem 9. One chlorine injector (optional) 10. TWT deposit control subsystem | <p>Skid size is approximately 48" x 66", crated, and ready to hook onto inlet and outlet with quick connect couplings. Unit is crated to fit into airplane cargo compartment.</p> <p>The TWT-UV-40 [40 gallons per minute] and the TWT-UV-60 (60 gallons per minute) are the same in operation, just proportionally larger. It takes just 14 hours for the UV-60 to fill a 50,000 gallon (190 cubic meters) storage bladder.</p> <p>Preparation and setup instructions, as well as maintenance and operating manuals are supplied with each unit.</p> |
|---|--|

TBD: To be determined, based on final system configuration at time of purchase.

Chemical-Free Conditioning & Treatment for the HVAC (Cooling) Industry.

TWT® Ionization, Disinfection, Purification, Deposit Control Technology–

Filtration, deposit control, side-stream for (HVAC) cooling tower application. The TWT Bypass Fluid Treatment System is a fully integrated, factory-assembled and mounted treatment system combining patented TWT Deposit Control and IonGuard purification

technologies. Designed to provide a practical answer to large pipe diameter and recirculating fluid treatment problems. The Bypass System offers a much sought after solution at an economical price.

- Provides new equipment with the ability to enhance it's features and benefits.
- Retrofit existing equipment to improve its operating efficiency and life cycle.
- Enter new markets and broaden customer satisfaction.

PRODUCT DESCRIPTION:

ITEM NUMBER & DIMENSIONS

PRODUCT WEIGHT

APPROX SHIP

TWT-BP-RC-1A

Factory assembled 2-inch pipe solenoid with Deposit/Ionization Control Unit and recirculating pump for use with recirculating water systems. Designed to treat up to 1,650 gallons per hour

This unit Wall Mounts [w/Ionization]

*

TBD

TBD

*Custom System Quote: Industry specific fluid treatment needs and up grades

Custom Installation:Pricing to be established based upon proposal submitted at time of sale based on materials cost at time of purchase

Note: Above systems are fully integrated and factory assembled and mounted, offering end to end fluid management and treatment solutions

TBD: To be determined, based on final system configuration at time of purchase.

Larger volume treatment systems available upon request



*Custom built only according to customer system application and ByPass GPM requirements.

Size and weight to be determined at time of purchase

TWT IonGuard Disinfection, Purification with TWT Deposit Control Technology

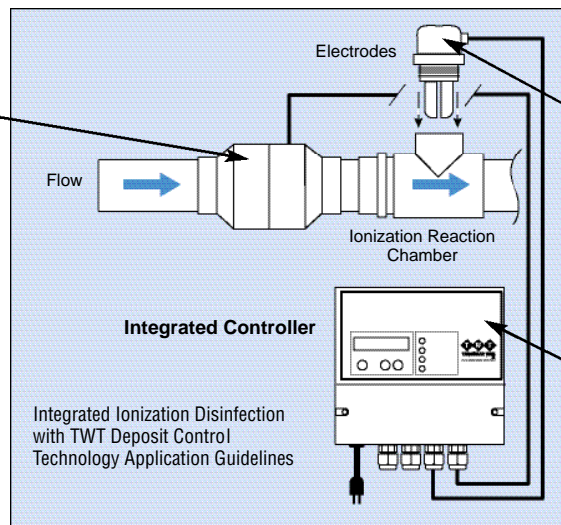
IonGuard Purification System:

The IonGuard Purification System is an electrolytic copper /silver ion generator. The system units contain specially cast copper/silver alloy electrodes. These electrodes are mounted in a housing designed for easy access. The IonGuard Purification System

purifies water through a process called ionization. This process utilizes a low voltage direct current [DC] to place precise and minute amounts of copper and silver ions into water systems. Copper ions kill algae and silver ions kill bacteria (integrate with TWT deposit control technology for enhanced results).



TWT Commercial Industrial PVC (schedule 40)
Reaction Chamber For All-In-One Controllers



Three (3) Unit Application & Installation



Electrode Installation Kit



Replacement
Electrodes



Deposit & IonGuard All-In-One
Controller

IONGUARD IONIZATION & PURIFICATION SYSTEM for POOLS, SPAS & HVAC APPLICATIONS
System Consists of: TWT Control Units & TWT ID Electrode Installation Kits & Replacement Electrodes

Triangularwave Technologies Advanced Method for Fluid/Water Management and Control

The TWT® IonGuard Purification System purifies water through a process called ionization. This process utilizes a low voltage direct current [DC] to place precise and minute amounts of copper and silver ions into water systems.

The TWT® IonGuard Purification System releases controlled amounts of copper/silver ions into the water to kill algae, biofilm, fungi and other microorganisms.



TWT Commercial Industrial PVC (schedule 40)
Reaction Chamber For All-In-One Controllers



Electrode Installation Kit



Deposit & IonGuard All-In-One
Controller

**ITEM NUMBER &
PRODUCT DESCRIPTION:**

**PRODUCT
DIMENSIONS**

TWT-5C8-277

Ionization/ Purification System for the control of Algae & Bacteria. 0.5 Amp control unit (for pipes up to 2" or less) Designed to treat water volume up to 30,000 gallons

10"W x 7.5"H x 4.5"D

TWT-5C8-278

Ionization/ Purification System for the control of Algae & Bacteria. 1.25 Amp control unit (for pipes up to 4" or less) Designed to treat water volume up to 80,000 gallons

10"W x 7.5"H x 4.5"D

TWT-5C8-279

Ionization/ Purification System for the control of Algae & Bacteria. 2 Amp control unit Designed to treat water volume up to 160,000 gallons

10"W x 7.5"H x 4.5"D

Larger volume and pipe size application: Contact TWT, Inc. for recommendation
Multiple units may be used for larger volume applications



These units are all similar in size and appearance, but have different capacities.
Universal power supply

IonGuard Disinfection, Purification and TWT® Deposit Control Technology All-In-One Package Unit

TWTDCI-5C8-377

Integrated Ionization & Deposit Control System— 0.5 Amp Control Unit (for pipes up to 1 1/2" or less) Designed to treat water volume up to 30,000 gallons

10"W x 7.5"H x 4.5"D

TWTDCI-5C8-378

Integrated Ionization & Deposit Control System— 1.25 Amp Control Unit (for pipes up to 2" or less) Designed to treat water volume up to 80,000 gallons

10"W x 7.5"H x 4.5"D

TWTDCI-5C8-379

Integrated Ionization & Deposit Control System— 2 Amp Control Unit (for pipes up to 3" or less) Designed to treat water volume up to 160,000 gallons

10"W x 7.5"H x 4.5"D

Larger volume and pipe size application: Contact TWT, Inc. for recommendation



These units are all similar in size and appearance, but have different capacities.
Universal power supply

REPLACEMENT PARTS for IONIZATION, CONDITIONING & TREATMENT SYSTEM

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:



TWT-RE-0245

1.5" Replacement
Electrodes
1.5" W x 3.5"H



TWT-RE-0255

3" Replacement
Electrodes
2.5" W x 4.5"H



TWT-RE-0262

6" Replacement
Electrodes
2.5"W x 7.5"H



TWT-RE-0264P

6" – 4 Prong
Replacement
Electrodes
2.5"W x 7.5"H

TWT-ID-0251

T-Cap and Conduit
for TWT-RE-0245 Replacement Electrodes BOV

TWT-ID-0257

T-Cap and Conduit
for TWT-RE-0255 Replacement Electrodes BOV

TWT-ID-0263

T-Cap and Conduit
for TWT-RE-0262 Replacement Electrodes BOV



TWT-ID-0351

1 1/2" Tee PVC (Schedule 40) BOV

TWT-ID-0357

2" Tee PVC (Schedule 40) BOV

TWT-ID-0363

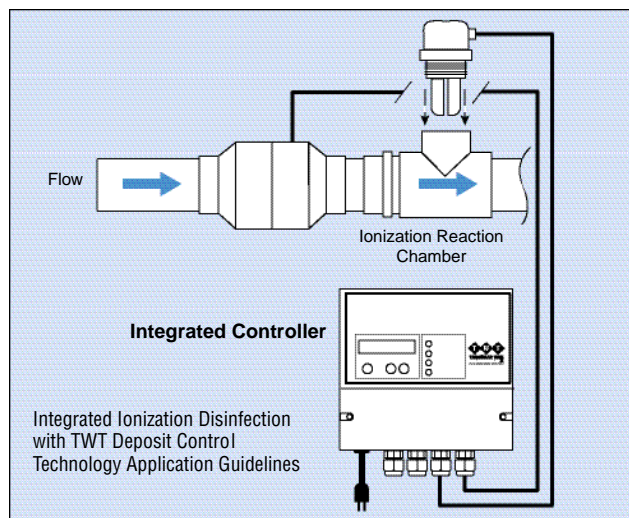
3" Tee PVC (Schedule 40) BOV

TWT-ID-0369

4" Tee PVC (Schedule 40) BOV

TWT-ID-0375

6" Tee PVC (Schedule 40) BOV



Three (3) Unit Application & Installation

Schedule 40 PVC (Schedule 80 available upon request)

Suggested System Integration / TWT Reaction Chamber & Deposit Control Units

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 specific needs.

BOV: Based on volume and/or related products ordered at time of purchase

REPLACEMENT PARTS FOR IONGUARD ELECTRODE INSTALLATION KITS

ITEM NUMBER & PRODUCT DESCRIPTION:

APPROX SHIP WEIGHT

TWT-IDK-0265115

ID Electrode Installation Kit: TWT-RE-0245
3" Electrode / 1 1/2" PVC Tee/ T-Cap and Conduit

3 lbs



Electrode included
not to scale for
reference only

TWT-IDK-0265122

ID Electrode Installation Kit: TWT-RE-0255 3"
Electrode / 2" PVC Tee/ T-Cap and Conduit

5 lbs



Electrode included
not to scale for
reference only

TWT-IDK-0265123

ID Electrode Installation Kit: TWT-RE-0262
6" Electrode / 3" PVC Tee/ T-Cap and Conduit

8 lbs



Electrode included
not to scale for
reference only

TWT-IDK-0265124

ID Electrode Installation Kit: TWT-RE-0262
6" Electrode / 4" PVC Tee/ T-Cap and Conduit

9 lbs



Electrode included
not to scale for
reference only

TWT-IDK-0265126

ID Electrode Installation Kit: TWT-RE-0262
6" Electrode / 6" PVC Tee/ T-Cap and Conduit

10 lbs



Electrode included
not to scale for
reference only

TWT-IDK-02651264P

ID Electrode Installation Kit: TWT-RE-0264P
6" Electrode / 6" PVC Tee/ T-Cap and Conduit

10 lbs

Larger volume and pipe size application: Contact TWT, Inc. for recommendation



Electrode included
not to scale for
reference only

IONGUARD DISINFECTION, PURIFICATION AND TWT® DEPOSIT CONTROL TECHNOLOGY— ALL IN ONE PACKAGE (KIT) TREATMENT FOR POOLS & SPAS

TWT-SPK01-1 / Four (4) Unit Kit for Spas



TWT-SPK01-1 / Four (4) Unit Kit

IonGuard Disinfection, Purification and TWT® Deposit Control Technology All-In-One package Unit. Designed to condition & treat water feed lines 1" or less in diameter.

Universal power supply

Kit includes:

- TWTDCI-5C8-377 – Integrated Ionization & Deposit Control System—0.5 amp control unit
- TWT-IDK-0265115 – ID Electrode Installation Kit: 3" Electrode, 1 1/2" PVC Tee, Tee-Cap and Conduit
- TWT-IRC-01—1" Schedule 40 PVC Industrial Reaction Chamber
- TWT-RE-0245—1 1/2" Replacement Electrodes

Alternate and clean electrodes periodically or enhanced life cycle and operating efficiency

TWT-SPK02-1.5 / Four (4) Unit Kit for Pools up to 30,000 gallons



TWT-SPK02-1.5 / Four (4) Unit Kit

IonGuard Disinfection, Purification and TWT® Deposit Control Technology All-In-One package Unit. Designed to condition & treat water feed lines 1 1/2" or less in diameter.

Universal power supply

Kit includes:

- TWTDCI-5C8-377—Integrated Ionization & Deposit Control System—0.5 amp control unit
- TWT-IDK-0265122—ID Electrode Installation Kit: 3" Electrode, 2" PVC Tee, Tee-Cap and Conduit
- TWT-IRC-1.5—1 1/2" Schedule 40 PVC Industrial Reaction Chamber
- TWT-RE-0255—3" Replacement Electrodes

Alternate and clean electrodes periodically for enhanced life cycle and operating efficiency

TWT-SPK03-2/ Four (4) Unit Kit Pricing for Pools 40,000 / 80,000 gallons



TWT-SPK03-2 / Four (4) Unit Kit

IonGuard Disinfection, Purification and TWT® Deposit Control Technology All-In-One package Unit. Designed to condition & treat water feed lines 2" or less in diameter.

Universal power supply

Kit includes:

- TWTDCI-5C8-378—Integrated Ionization & Deposit Control System—1.25 amp control unit
- TWT-IDK-0265123—ID Electrode Installation Kit: 6" Electrode, 3" PVC Tee, Tee-Cap and Conduit
- TWT-IRC-02—2" Schedule 40 PVC Industrial Reaction Chamber
- TWT-RE-0262—6" Replacement Electrodes

Alternate and clean electrodes periodically for enhanced life cycle and operating efficiency

IONGUARD DISINFECTION, PURIFICATION AND TWT® DEPOSIT CONTROL TECHNOLOGY– ALL IN ONE PACKAGE (KIT) TREATMENT FOR POOLS & SPAS



TWT-SPK04-3/ Four (4) Unit Kit Pricing for Pools 90,000 / 120,000

TWT-SPK04-3 / Four (4) Unit Kit–Designed to treat water for Pools 90,000 / 120,000 gallons

IonGuard Disinfection, Purification and TWT® Deposit Control Technology All-In-One package Unit. Designed to condition & treat water feed lines 3" or less in diameter. Universal power supply

Kit includes:

- **TWTDCl-5C8-379**–Integrated Ionization & Deposit Control System–2 amp control unit for pipes up to 3" or less
- **TWT-IDK-0265124P**–ID Electrode Installation Kit: Two 6" Electrode, 3" PVC Tee, Tee-Cap and Conduit
- **TWT-IRC-03**–3" Schedule 40 PVC Industrial Reaction Chamber
- **TWT-RE-0264P**–6" Replacement Electrodes

Alternate and clean electrodes periodically for enhanced life cycle and operating efficiency



TWT-SPK05-4/ Five (5) Unit Kit Pricing for Pools 130,000 / 160,000 gallons

TWT-SPK05-4/ Five (5) Unit Kit

IonGuard Disinfection, Purification and TWT® Deposit Control Technology All-In-One package Unit. Designed to condition & treat water feed lines 4" or less in diameter. Universal power supply

Kit includes:

- **TWT-5C8-279**–IonGuard Ionization/Purification System for the Control of Algae & Bacteria - 2 amp control unit (for pipes up to 6" or less)
- **TWT-5C8-404**–Commercial/Industrial Microprocessor Deposit Controller 2 amp control unit (for pipes up to 4" or less)–Controls mineral deposits and corrosion in all fluid based systems
- **TWT-IDK-0265124P**–ID Electrode Installation Kit: 6" 4 Prong Electrode, 4" PVC Tee, Tee-Cap and Conduit
- **TWT-IRC-04**–4" Schedule 40 PVC Industrial Reaction Chamber
- **TWT-RE-0264P**–6" Replacement Electrodes

Current source 110/20 VAC • Other current source available upon request

Alternate and clean electrodes periodically for enhanced life cycle and operating efficiency



TWT-SPK06-6/ Eight (8) Unit Kit Pricing for Pools 160,000 / 240,000 gallons

TWT-SPK06-6/ Eight (8) Unit Kit

IonGuard Disinfection, Purification and TWT® Deposit Control Technology All-In-One package Unit. Designed to condition & treat water feed lines 6" or less in diameter.

Universal power supply

Kit includes:

- **TWT-5C8-278**–broad Ionization/Purification System for the Control of Algae & Bacteria -1.25 amp control unit (for pipes up to 6" or less)
- **TWT-5C8-279**–IonGuard Ionization/Purification System for the Control of Algae & Bacteria - 2 amp control unit(for pipes up to 6" or less)
- **TWT-5C8-406**–Commercial/Industrial Microprocessor Deposit Controller -3 amp control unit (for pipes up to 6" or less)–Controls mineral deposits and corrosion in all fluid based systems
- **TWT-IDK-0265126**–ID Electrode Installation Kit: 6" Electrode, 6" PVC Tee, Tee-Cap and Conduit
- **TWT-IDK-02651264P**–ID Electrode Installation Kit: 6" 4 Prong Electrode, 6" PVC Tee, Tee-Cap and Conduit
- **TWT-IRC-06**–6" Schedule 40 PVC Industrial Reaction Chamber
- **TWT-RE-0262**–6" Replacement Electrodes
- **TWT-RE-0264P**–6" Replacement Electrodes

Alternate and clean electrodes periodically for enhanced life cycle and operating efficiency

Current source 110/20 VAC / Other current source available upon request

TWT ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Ultra Violet water purification technology seeks to use the same process as nature to provide drinking water that is completely safe, clean and fresh. In nature, the sun produces UV rays which have a germicidal effect on disease causing pathogens in water. When these contaminants are exposed to UV light, they are rendered harmless and the output water is considered disinfected.

TWT UV water purifier products use the same technique. By exposing contaminated water to high-intensity UV light, disease-causing micro-organisms are rendered harmless. The water produced is safe, clean and fresh. The UV purifier does not add or remove anything from the water and is extremely cost effective by volume. Our UV units are installed in more than 20 countries around the globe, and

our purifiers enjoy reputation for high quality and high effectiveness. UV purification affects waterborne contaminant's and disease-causing pathogens with a 99.9% kill rate or better.

The result is high quality water exceeding all health department standards. Employ UV purification anywhere there is a requirement for high quality, safe, clean drinking or process water at an exceptionally low cost per liter. Our purifiers are used in a wide variety of applications around the world including: Residential water supply, cottage water supply, municipal water treatment, relief agency camps, emergency preparedness, food processing, laboratories, international travel and bottling plants.

ITEM NUMBER & PRODUCT DESCRIPTION:

GPM

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

UV-1/QS4M-1

120V / 60 Hz Point of Use Ultraviolet Purifier 1-2 12.5" x 2.75" x 2.5" 4 lbs

UV-1/QS4M-2

230V / 50 Hz Point of Use Ultraviolet Purifier 1-2 12.5" x 2.75" x 2.5" 4 lbs

UV-1/QS4E-12

12V Point of Use Ultraviolet Purifier 1-2 12.5" x 2.75" x 2.5" 4 lbs

UV-1/QS4E-24

24V Point of Use Ultraviolet Purifier 1-2 12.5" x 2.75" x 2.5" 4 lbs

- Rated Flow: 4 Liters per minute / 1 Gallon per minute • U.V. Dose @ Rated Flow: 42,000 mw/sec or 42 mJ/cm² at 1 GPM
- Maximum Flow: 5.8 Liters per minute • Electrical Supply: 120 VAC/60Hz* .2 Amp • Power Consumption: 12 Watt
- Maximum Operating Temperature: 37C • Maximum Operating Pressure: 125 psi - 8.6 Bar • Plumbing: 1/4" N.P.T. In-Out
- Body: 304 or 316 Stainless Steel



UV-250/QD4M

Residential/Commercial UV Disinfection System

120V / 60 Hz Residential UV Purifier with Alarm 4 23"L x 5.5"W x 2.5"H 8 lbs

UV-250/QD4M-2

230V / 50 Hz Residential UV Purifier with Alarm 4 23"L x 5.5"W x 2.5"H 8 lb

- Rated Flow: 15 Liters per minute / 4 Gallons per minute
- Rated Flow UV Dose: 38,000 mw/sec or 38 mJ/cm² at 4 GPM
- Electrical Supply: 120 VAC/60Hz* .36 • Maximum Operating Temperature: 37C (98.6F)
- Maximum Operating Pressure: 125 psi - 8.6 Bar • Plumbing: N.P.T. In-Out 3/4
- Body: 304 or 316 Stainless Steel



Custom Orders:

Prices quoted upon request for larger systems.

Case Pack:

All units packed individually

Replacement Lamps:

Generally lamps should be replaced every 10 to 12 months, depending on water use quality and conditions

*Other voltage sources available upon request: 100V / 120V / 220/240V

Alarm System

The UV-1 and UV-250 systems above comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

TWT ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

GPM PRODUCT DIMENSIONS APPROX SHIP WEIGHT

The TWT-UV-700 sterilizer is best suited for large households. Both the UV-700 and UV-1200 are efficient for small commercial and restaurant applications too. As water passes through the ultra-violet chamber, the powerful UV rays kill disease causing microorganisms, including bacteria and viruses with a 99.9% kill rate. No chemicals are added

and the PH of the water remains unchanged. TWT sterilizers operate continuously and automatically with no need to heat or cool the source water. They are inexpensive to operate, simple to install and practically maintenance free. Lamp replacement is necessary every 12 months and is a simple ten minute procedure.

UV-700/QD4E-1

Residential/Commercial UV Disinfection System

120V / 60 Hz Residential UV Purifier with Alarm 8 41"L x 4.75"W x 3.5"H 8 lbs

UV-700/QD4E-2

230V / 50 Hz Residential UV Purifier with Alarm 8 41"L x 4.75"W x 3.5"H 8 lbs

- Rated Flow: 30 Liters per minute • 8 Gallons per minute • Rated Flow UV Dose: 62 mJ/cm² (62,000 uwsec/cm²) @ 95% T
- Electrical Supply: 120VAC/60Hz, .55 Amp • Approx. Power Usage: 40.8 Watt • Maximum Operating Temperature: 37°C (98.6°F) • Maximum Operating Pressure: 125 psi - 8.6 Bar (tested to 500 psi) • Plumbing: 3/4" N.P.T. In-Out
- Body: 316 Stainless Steel



These two units are all similar in appearance, but have different capacities. The need for different flow rates will depend on the application and the nature of the installation. These TWT sterilizers provide clean, safe water to large operations for manufacturing processes or human consumption. All of our units are expertly constructed of # 316 stain

less steel to high quality control standards. The units operate continuously, automatically and inexpensively. Installation is easy and there is no need to heat or cool the water prior to sterilization. The germicidal lamp is effective for approximately 8,000 hours which means extremely cost effective water sterilization over the long term.

UV-1200/QD4E-1

12

41"L x 6"W x 3.25"H

8 lb

Residential/Commercial UV Disinfection System

120V/60 Hz Commercial UV Purifier with Alarm

UV-1200/QD4E-2

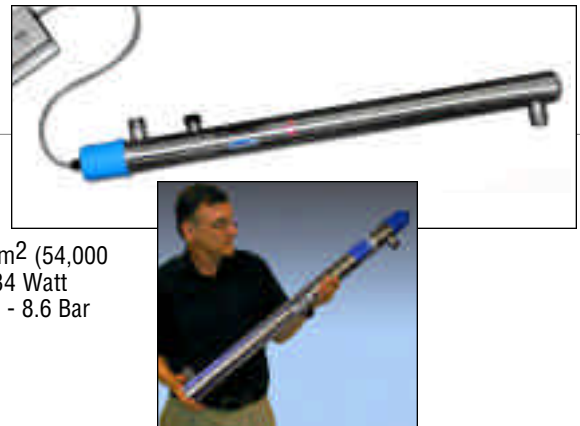
12

41"L x 6"W x 3.25"H

8 lbs

230V/50 Hz Commercial UV Purifier with Alarm

- Rated Flow: 45 Liters per minute / 12 Gallons per minute • Rated Flow UV Dose: 54 mJ/cm² (54,000 uwsec/cm²) @ 95% T • Electrical Supply: 120V/60Hz .68 Amp • Approx. Power Usage 84 Watt
- Maximum Operating Temperature: 37°C (98.6°F) • Maximum Operating Pressure: 125 psi - 8.6 Bar (tested to 500 psi) • Plumbing: 1" N.P.T. In-Out • Body: 304 or 316 Stainless Steel



UV-1500/QS4E-1

15

50"L x 6"W x 8"H

21 lbs

Commercial UV Disinfection System 120V / 60 Hz

Commercial UV Purifier with Alarm

UV-1500/QS4E-2

15

50"L x 6"W x 8"H

21 lbs

230V / 50 Hz Commercial UV Purifier with Alarm

- Rated Flow: 57 Liters per minute • 15 Gallons per minute • Rated Flow UV Dose: 42 mJ/cm² (42,000 uwsec/cm²) @ 95% T • Maximum Flow: 80 Liters per minute / 21 Gallons per minute
- Electrical Supply: 120VAC/60Hz, 2 Amp • Approx. Power Usage 110 Watt • Maximum Operating Temperature: 37°C (98.6°F) • Maximum Operating Pressure: 125 psi - 8.6 Bar (tested to 500 psi)
- Plumbing: 1" N.P.T. In-Out • Body: 316 Stainless Steel

*Other voltage sources available upon request: 100V / 120V / 220/240V



The UV1200 & UV1500 are all similar in appearance, but have different capacities.

Alarm System

The UV-700, UV-1200 and UV-1500 systems above comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

TWT ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM P.O.E. / P.O.U.

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|----------------------|
|---------------------------------------|-----|-----------------------|----------------------|

| | | | |
|--|----|------------------|--------|
| UV-2000/QD4E-1 120V / 60 Hz Commercial UV Purifier with Alarm | 21 | 50"L x 6"W x 8"H | 21 lbs |
|--|----|------------------|--------|

| | | | |
|--|----|------------------|--------|
| UV-2000/QD4E-2 230V / 50 Hz Commercial UV Purifier with Alarm | 21 | 50"L x 6"W x 8"H | 21 lbs |
|--|----|------------------|--------|

- Rated Flow: 80 Liters per minute 21 Gallons per minute
- Rated Flow UV Dose: 31,000 mw/sec or 31 mJ/cm² at 21 GPM
- Maximum Flow: 108 Liters per minute / 29 Gallons per minute
- Electrical Supply: 120V/60Hz, 2 Amp 240V/50Hz, 2 Amp
- Maximum Operating Temperature: 37°C (98.6°F)
- Maximum Operating Pressure: 125 psi - 8.6 Bar (tested to 500 psi)
- Plumbing: 1.5" N.P.T. In-Out
- Body: 316 Stainless Steel



These two units are all similar in appearance, but have different capacities.

| | | | |
|---|----|------------------|--------|
| UV-3000/QS4E-1 Commercial UV Disinfection System | 30 | 52"L x 8"W x 8"H | 44 lbs |
|---|----|------------------|--------|

120V / 60 Hz Commercial
UV Purifier with Alarm

| | | | |
|--|----|------------------|--------|
| UV-3000/QS4E-2 230V / 50 Hz Commercial UV Purifier with Alarm | 30 | 52"L x 8"W x 8"H | 44 lbs |
|--|----|------------------|--------|

- Rated Flow: 117 Liters per minute, 30 Gallons per minute
- Rated Flow UV Dose: 49 mJ/cm² 49,000 uwsec/cm² @ 95% T
- Electrical Supply: 120V/60Hz, 2.1 Amp
- Approx. Power Usage 100 Watt
- Maximum Operating Temperature: 37°C (98.6°F)
- Maximum Operating Pressure: 125 psi - 8.6 Bar (tested to 500 psi)
- Plumbing: 1.5" N.P.T. In-Out
- Body: 316 Stainless Steel



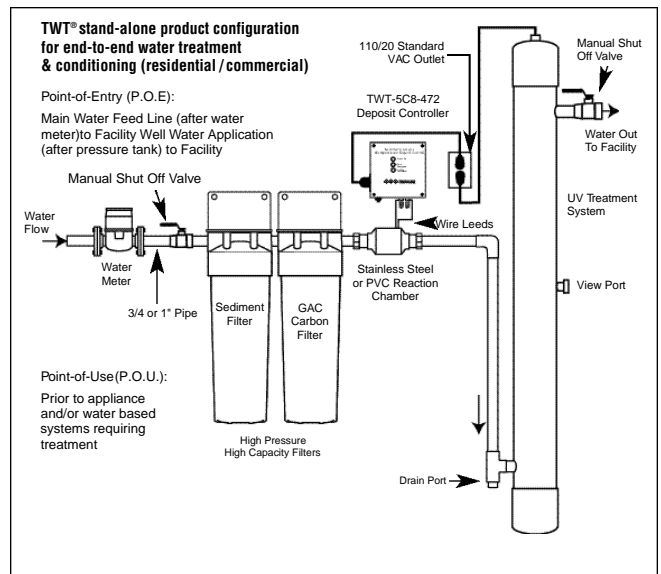
Filtration • Patented Deposit Control Technology UV Disinfection & Purification

Custom Orders: Prices quoted upon request for larger systems.
Case Pack: All units packed individually.
Replacement Lamps: Generally lamps should be replaced every 10 to 12 months, depending on water use quality and conditions

*Other voltage sources available upon request: 100V / 120V / 220/240V

Alarm System

The UV-2000, and UV-3000 systems above comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.



TWT stand-alone products will vary in size, capacity and gpm treatment requirements (above schematic rendering not to scale, for reference only).

TWT ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM P.O.E. / P.O.U.

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

UV-5000/QS4E-1

Commercial UV Disinfection System
120V / 60 Hz Commercial UV Purifier
with Alarm

50 50"L x 13"W x 8"H 46 lbs

UV-5000/QS4E-2

230V / 50 Hz Commercial UV Purifier
with Alarm

50 50"L x 13"W x 8"H 46 lbs

- Rated Flow: 189 Liters per minute 50 Gallons per minute
- Rated Flow UV Dose: 61 mJ/cm² (61,000 uwsec/cm²) @ 95% T
- Maximum Flow: 290 Liters per minute 77 Gallons per minute
- Number of lamps: 2
- Electrical Supply: 120V/60 Hz, 3 Amp
- Approx. Power Usage 2 X 110 Watt
- Maximum Operating Temperature: 37°C (98.6°F)
- Maximum Operating Pressure: 125 psi - 8.6 Bar (tested to 500 psi)
- Plumbing: 2" N.P.T. In-Out
- Body: 316 Stainless Steel



These two units are all similar in appearance, but have different capacities.

UV-6000/QS4E-1

Commercial UV Disinfection System
120V / 60 Hz Commercial UV Purifier
with Alarm

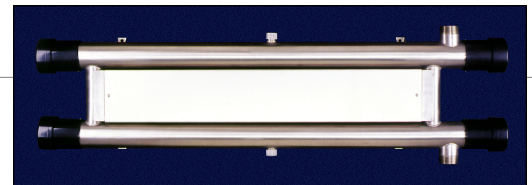
100 50"L x 16.5"W x 8"H 50 lbs

UV-6000/QS4E-2

230V / 50 Hz Commercial UV Purifier
with Alarm

100 50"L x 16.5"W x 8"H 50 lbs

- Rated Flow: 375 Liters per minute 100 Gallons per minute
- Rated Flow UV Dose: 25,000 mw/sec or 25 mJ/cm² at 100 GPM
- Number of lamps: 2
- Lamp wattage: 79 Watts
- Electrical Supply: 120V / 60Hz, 1.5 Amp
- Maximum Operating Temperature: 37°C (98.6°F)
- Maximum Operating Pressure: 125 psi - 8.6 Bar (tested to 500 psi)
- Plumbing: 2 1/2" flange In-Out
- Body: 316 Stainless Steel



TWT-SYS-5100M

Rack-Mounted Commercial UV Purifier

100 32"W x 48"D x 63"H 210 lbs

- Rated Flow: 378 liters per minute (100 GPM) 22710 liters/hour, 545,040 liters/day (6000 gallons/hour, 144,000 gallons/day)
- UV Dose 61mJ/cm² (61,000 uwsec/cm²) @95%T
- Electrical: 110-20V / 60 Hz or 220-30V / 50 Hz includes surge protector power packs
- Approx Power Usage: 440 W
- Maximum Operating Temp: 37° C (98.6° F)
- Maximum Operating Pressure: 125 psi – 8.6 bar (tested to 500 psi)
- Plumbing: 3" MNPT in/out (Flanges optional)
- Chamber Material: 304L Stainless Steel (316L available)
- Additional Features (optional) UV-Monitor, Solenoid Valve, Filtration and/or Deposit Control Technology

*Other voltage sources available upon request: 100V / 120V / 220/240V

Alarm System

The UV-5000, and UV-6000 systems above comes equipped with an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.



TWT ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM P.O.E. / P.O.U.

ITEM NUMBER & PRODUCT DESCRIPTION:

GPM PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

These systems are ideally suited for commercial/industrial and marine effluent applications. The Quattra UV has an automatic integrated pneumatic wiper system (external air supply required) to maintain lamp

efficiency and a proprietary UV reaction chamber, designed to increase the dwell time inside the chamber. Engineered and designed to provide a very high UV dose, extended dwell time at rated flow of 50 / 100 GPM .

UV-50 Quattra-1 (120V / 60 Hz)

50 **32"L x 8"W x 11"H

150 lbs

UV-50 Quattra-2 (230V / 50 Hz)

50 **32"L x 8"W x 11"H

150 lbs

Compact Commercial / Industrial / Marine
Industries Effluent Waste Water Treatment
System

- High-Efficiency Ultra-Violet System for the Treatment of Effluents • Integrated Pneumatic Automatic Lamp Wiper System
- Rated Flow 189 liters per minute (50 GPM) 11,340 liters/hour, 272,160 liters/day (3,000 gallons/hour, 72,000 gallons/day) • Initial UV Dose at Rated Flow: 40 mJ/cm² (40,000 uwsec/cm²) @ 95% T
- Electrical: 110-130V / 50-60 Hz – 220-240V / 50-60Hz • Number of Lamps: 4 (at 44 watts each)
- Compact Size • High-Power 4 Lamp Array • Efficient • Cost Effective • 4 Lamp Array Inside Cylindrical Reaction Chamber
- Maximum Operating Temp: 40°C (104°F) • Maximum Operating Pressure: 125 psi -8.6 bar (tested to 500 psi)
- Plumbing: 1 1/4" MNPT In/Out • Chamber Material: 304L Stainless Steel (316L available)
- Control Panel: Integrated UV- Monitor • Additional Features (optional) Solenoid Valve, Electrical Deposit Control
- 1.5" In-Out Piping–Other Sizes Available Upon Request • NEMA 4X Control Panel Available Upon Request



Fail-Safe Operation

The Quattra UV50 treatment system is equipped with a control panel that has an integrated UV Monitor to monitor the UV light intensity in real time. A solenoid valve (optional) can be driven by the monitor to shut off the flow of water if an inadequate UV power is detected.

This industrial water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.



UV-100 Quattra-1 (120V / 60 Hz)

100 **41"L x 8"W x 10.5"H

75 lbs

UV-100 Quattra-2 (230V / 50 Hz)

100 **41"L x 8"W x 10.5"H

75 lbs

Compact Commercial / Industrial / Marine
Industries Effluent Waste Water Treatment
System

Case Pack: All units packed individually.

Replacement Lamps: 4 UV lamps required. Generally lamps should be replaced every 10 to 12 months, depending on water use quality and conditions

* Custom System Quote: Industry specific fluid treatment needs and up grades Custom Installation: Pricing to be established based upon proposal submitted at time of sale based on materials cost a time of purchase

** Without Controller, Controller size 33.5"W x 25.5"H x 12"D



TWT ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM P.O.E. / P.O.U.

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

GPM

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-UV100-6

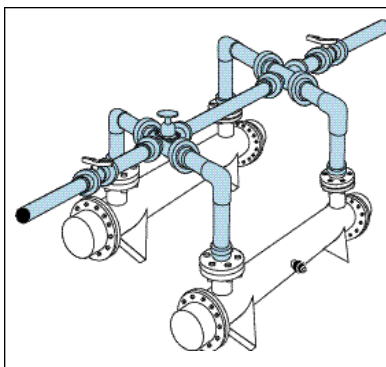
100

46"L x 8"W x 10.5"H

90 lbs

Commercial UV Disinfection System 100-240VAC / 50-60 Hz Commercial UV Purifier with Alarm

- Alarm System – Fail Safe • Rated Flow: 379 liters per minute (100 GPM) • Rated Flow UV Dose: 37 mJ/cm² (37,000 uwsec/cm²) @ 70% T
- Electrical: 100-240V / 50-60 Hz (Universal)
- Other voltage sources available upon request (must specify) • Lamp Power: 65 W
- Number of Lamps: 6
- Maximum Operating Temp: 37°C (98.6°F)
- Maximum Operating Pressure: 125 psi – 8.6 bar (tested to 500 psi)
- Plumbing: 2" MNPT (3" optional)
- Size: 46" L x 8" W in x 10.5" H
- Weight: 41 kg (90 lbs) with controller
- Chamber Material: 316L SS



Dual UV system application for redundant or higher flow rate requirements—200/400 GPM



The industrial size TWT-UV-5007 sterilizer can assure a ready supply of safe, pathogen-free water for manufacturing processes or human consumption. Applications include water bottling plants, breweries or any other type of liquid processing. With the capacity to remove disease-causing microorganisms effective to a 99.9% kill rate at 200 G.P.M. (820

L.P.M.), you can eliminate the need for chemicals and reduce high overhead costs. TWT has the technical expertise to assess your water problems and when needed, pre-filtration systems may be added to the TWT-UV-5007 sterilizer. Environmental safety is our priority, therefore no chemicals are added and the PH balance of the water is unaffected by UV sterilization.

UV-5007/QS4E-1*

200

**56"L x 12.5"W x 19.5"H

130 lbs

Compact Commercial / High Volume Effluent Waste Water Treatment System

120V / 60 Hz Commercial UV Purifier with Alarm

UV-5007/QS4E-2*

200

**56"L x 12.5"W x 19.5"H

130 lbs

230V / 50 Hz Commercial UV Purifier with Alarm

- Rated Flow: 833 Liters per minute 200 Gallons per minute • Rated Flow UV Dose: 40 mJ/cm² (40,000 uwsec/cm²) @ 95% T
- Number of lamps: 7 (110 Watts each)
- Electrical Supply: 120V/60Hz, 3 Amp
- Maximum Operating Temperature: 37°C (98.6°F)
- Maximum Operating Pressure: 125 psi - 8.6 Bar (tested to 500 psi)
- Plumbing: 3" flange In-Out
- Unit Dimensions: 56" L x 12.5" W x 20" H
- Controller Dimensions: 33.6" x 25.2" x 12"
- Unit Weight: 130 lbs (59 kg)
- Controller Weight: 60 lbs (27 kg)
- Body: 316 Stainless Steel

* Custom System Quote: Industry specific fluid treatment needs and up grades Custom Installation:

** Without Controller, Controller size 33.6"W x 25.2"H x 12"D



7 UV Lamp System

UV units can be custom integrated to meet the GPM/flow rate for most industry specific sites and applications

CUSTOM ENGINEERED & INTEGRATED (Fork Lift Skid-Mounted) HIGH VOLUME UV FLUID TREATMENT SYSTEMS (For potable, process and/or waste water applications)

TWT® Patented Deposit Control Technology • Stainless Steel Reaction Chamber • UV Disinfection/Purification

Custom Engineered System Built to Order Only. See Pages 55/56 for Additional Application Information

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-CSMS-G1T-403-5007 220 GPM Treatment System

72" W x 36" D x 58" H

TBD

#1 Transportable Fork Lift St/St Skid-Mounted System

220 (GPM) UV Disinfection/Purification Treatment System

- One (1) TWT-5C8-403 Deposit Control System
- One (1) TWT-UV-5007 Disinfection/Purification Systems

Efficiency:

Expected 3 Log Reduction (99.9) for processing & drinking water
Expected 1-2 Log Reduction for wastewater applications



TWT-CSMS-G2T-404-5007 400/500 GPM Treatment System

48" W x 65" D x 55" H

270 lbs.

#2 Transportable Fork Lift St/St Skid-Mounted System

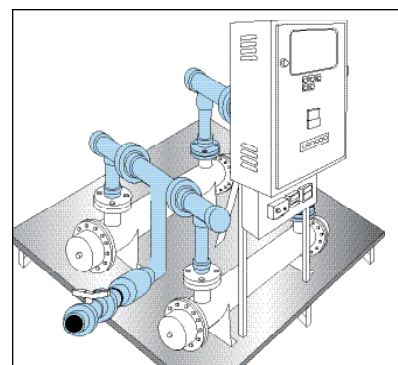
400/600 (GPM) UV Disinfection/Purification Treatment System

- One (1) TWT-5C8-404 Deposit Control System
- Two (2) TWT-UV-5007 Disinfection/Purification Systems

Efficiency:

Expected 3 Log Reduction (99.9) for processing & drinking water
Expected 1-2 Log Reduction for wastewater applications

Custom built according to customer system application and GPM requirements. Size and weight to be determined at at time of purchase



TWT-CSMS-G3T-406-5007 600/800 GPM Treatment System

#3 Transportable Fork Lift St/St Skid-Mounted System

600/800 (GPM) UV Disinfection/Purification Treatment System

56"L x 12.5"W x 19.5"H

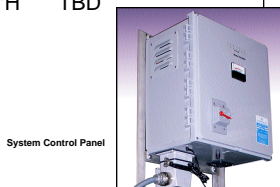
TBD

- One (1) TWT-5C8-406 Deposit Control System
- Three (3) TWT-UV-5007 Disinfection/Purification Systems
- Controller Dimensions: 33.6" x 25.2" x 12"

Efficiency:

Expected 3 Log Reduction (99.9) for processing & drinking water
Expected 1-2 Log Reduction for wastewater applications

Custom built according to customer system application and GPM requirements. Size and weight to be determined at at time of purchase



TWT-CSMS-G4T-406-5007 800/1200 GPM Treatment System

#4 Transportable Fork Lift St/St Skid-Mounted System

700/1200 (GPM) UV Disinfection/Purification Treatment System

48" W x 65" D x 55" H

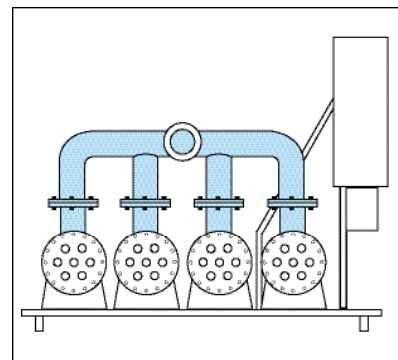
TBD

- One (1) TWT-5C8-406 Deposit Control System
- Four (4) TWT-UV-5007 Disinfection/Purification Systems

Efficiency:

Expected 3 Log Reduction (99.9) for processing & drinking water
Expected 1-2 Log Reduction for wastewater applications

Custom built according to customer system application and GPM requirements. Size and weight to be determined at at time of purchase



Note: Above systems are fully integrated and factory assembled.

Custom Orders: Larger pipe size (GPM) applications available upon request

TWT Inc. recommends that an initial supply of replacement products e.g., UV lamps etc. be stored at owners facility at all times, that will insure uninterrupted service and treatment. Review product list for replacement filters and ultra-violet lamps. Upgrades: Customized TWT® systems to meet your treatment applications available upon request.

TBD: To be determined, based on final system configuration at time of purchase.

Components for High Volume Fluid Treatment System. Not to scale for reference only

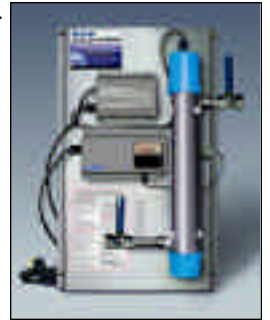
These systems can be custom component assembled and integrated in various ways to meet your pipe size application, GPM, foot-print and process requirements.

TWT ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM P.O.E. / P.O.U.

The UVC series systems provides simplified prevention, treatment and management of water line contamination dangers. The TWT water disin-

fection/purification systems are unique, compact, self-contained units for the Purification of water.

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---|------------|-------------------------------|-------------------------------|
| UVC-250 Integrated UVC Ultra Violet Disinfection System Kills 99.9% of all Bacteria 120V / 60 Hz Ultraviolet System with Manual Shut-Off Valves, Alarm & UV Monitor | 4 | 26"W x 18"H x 6"D | 30 lbs |
| UVC-250-2 230V / 50 Hz Ultraviolet System with Manual Shut-Off Valves, Alarm & UV Monitor Available 120V/60 Hz or 230V/50 Hz | 4 | 26"W x 18"H x 6"D | 30 lbs |
| UVC-700 Integrated UVC Ultra Violet Disinfection System Kills 99.9% of all Bacteria 120V / 60 Hz Ultraviolet System with Manual Shut-Off Valves, Alarm & UV Monitor | 8 | 44"W x 20"H x 10"D | 56 lbs |
| UVC-700-2 230V / 50 Hz Ultraviolet System with Manual Shut-Off Valves, Alarm & UV Monitor | 8 | 44"W x 20"H x 10"D | 56 lbs |
| UVC-1200 Integrated UVC Ultra Violet Disinfection System Kills 99.9% of all Bacteria 120V / 60 Hz Ultraviolet System with Manual Shut-Off Valves, Alarm, UV Monitor and Automated Solenoid Valve | 12 | 44"W x 20"H x 10"D | 60 lbs |
| UVC-1200-2 230V / 50 Hz Ultraviolet System with Manual Shut-Off Valves, Alarm, UV Monitor and Automated Solenoid Valve | 12 | 44"W x 20"H x 10"D | 60 lbs |
| UVC-1500 Integrated UVC Ultra Violet Disinfection System Kills 99.9% of all Bacteria 120V / 60 Hz Ultraviolet System with Manual Shut-Off Valves, Alarm, UV Monitor and Automatic Solenoid Valve | 15 | 55"W x 20"H x 10"D | 75 lbs |
| UVC-1500-2 230V / 50 Hz Ultraviolet System with Manual Shut-Off Valves, Alarm, UV Monitor and Automatic Solenoid Valve | 15 | 55"W x 20"H x 10"D | 75 lbs |



TWT ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM P.O.E. / P.O.U.

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

| | | | |
|-----------------|----|--------------------|--------|
| UVC-3000 | 30 | 55"W x 20"H x 10"D | 92 lbs |
|-----------------|----|--------------------|--------|

Integrated UVC Ultra Violet Disinfection
System Kills 99.9% of all Bacteria

120V / 60 Hz Ultraviolet System with Manual Shut-Off Valves,
Alarm, UV Monitor and Automatic Solenoid Valve

| | | | |
|-------------------|----|--------------------|--------|
| UVC-3000-2 | 30 | 55"W x 20"H x 10"D | 92 lbs |
|-------------------|----|--------------------|--------|

Integrated UVC Ultra Violet Disinfection
System Kills 99.9% of all Bacteria

230V / 50 Hz Ultraviolet System with Manual Shut-Off Valves,
Alarm, UV Monitor and Automatic Solenoid Valve



| | | | |
|-----------------|----|--------------------|---------|
| UVC-5000 | 50 | 55"W x 25"H x 10"D | 105 lbs |
|-----------------|----|--------------------|---------|

Integrated UVC Ultra Violet Disinfection
System Kills 99.9% of all Bacteria

120V / 60 Hz Ultraviolet System with Manual Shut-Off
Valves, Alarm, UV Monitor and Automatic Solenoid Valve

| | | | |
|-------------------|----|--------------------|---------|
| UVC-5000-2 | 50 | 55"W x 25"H x 10"D | 105 lbs |
|-------------------|----|--------------------|---------|

Integrated UVC Ultra Violet Disinfection
System Kills 99.9% of all Bacteria

230V / 50 Hz Ultraviolet System with Manual Shut-Off
Valves, Alarm, UV Monitor and Automatic Solenoid Valve



| | | | |
|-----------------|-----|--------------------|---------|
| UVC-6000 | 100 | 55"W x 25"H x 10"D | 115 lbs |
|-----------------|-----|--------------------|---------|

Integrated UVC Ultra Violet Disinfection
System Kills 99.9% of all Bacteria

120V / 60 Hz Ultraviolet System with Manual Shut-Off
Valves, Alarm, UV Monitor and Automatic Solenoid Valve

| | | | |
|-------------------|-----|--------------------|---------|
| UVC-6000-2 | 100 | 55"W x 25"H x 10"D | 115 lbs |
|-------------------|-----|--------------------|---------|

Integrated UVC Ultra Violet Disinfection
System Kills 99.9% of all Bacteria

230V / 50 Hz Ultraviolet System with Manual Shut-Off
Valves, Alarm, UV Monitor and Automatic Solenoid Valve



GPM: Gallons per minute.

Voltage: All products are 110/120V 60 Hz
For higher voltage sources contact TWT for pricing.

Case Pack: All units packed individually.

Replacement Lamps: Two UV lamps required. Generally lamps should be replaced every
10 to 12 months, depending on water use quality and conditions

Case Pack: All units packed individually.

ULTRA-VIOLET DISINFECTION/PURIFICATION REPLACEMENT LAMPS & QUARTZ DOMES

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

**ITEM NUMBER &
PRODUCT DESCRIPTION:**

**APPROX SHIP
WEIGHT**

| | | |
|--------------------------|---|-----|
| UV-RL-MZ/CELL | Replacement Lamp Cell – Mini-zap | BOV |
| UV-RL-1/T5 | UV Lamp with Quartz Sleeve for UV-1 Purifier | BOV |
| UV-RL-250/T5 | UV Lamp 1 ended without Quartz Sleeve for UV-250 Purifier | BOV |
| UV-RL-250/T8 | UV Lamp 2 ended without Quartz Sleeve for UV-250 Purifier | BOV |
| UV-RQS-250 | Quartz Sleeve for 1 ended Lamp–UV-250 Purifier | BOV |
| UV-RQD-250 | Quartz dome for UV-250 Purifier | BOV |
| UV-RL-700/T5 | UV Lamp 1 ended without Quartz Sleeve for UV-700 Purifier | BOV |
| UV-RL-700/T8 | UV Lamp 2 ended without Quartz Sleeve for UV-700 Purifier | BOV |
| UV-RQS-700 | Quartz Sleeve for 1 ended UV Lamp–UV-700 Purifier | BOV |
| UV-RQD-700 | Quartz Dome for UV-700 Purifier | BOV |
| UV-RL-1200/T5 | UV Lamp 1 ended without Quartz Sleeve for UV-1200 Purifier | BOV |
| UV-RL-1200/T8 | UV Lamp 2 ended without Quartz Sleeve for UV-1200 Purifier | BOV |
| UV-RQS-1200 | Quartz Sleeve for 1 ended UV Lamp for UV-1200 Purifier | BOV |
| UV-RQD-1200 | Quartz Dome for UV-1200 Purifier | BOV |
| UV-RL-15/20/50/T5 | UV Lamp 1 ended without Quartz Sleeve for UV-1500, UV-2000 & UV-5000 | BOV |
| UV-RL-15/20/50/T8 | UV Lamp 2 ended without Quartz Sleeve for UV-1500, UV-2000 & UV-5000 | BOV |
| UV-RQS-15/20/50 | Quartz Sleeve for 1 ended UV Lamp – UV-1500, UV-2000 & UV-5000 | BOV |
| UV-RL-30/60/T6 | UV Lamp 1 ended without Quartz Sleeve for UV-3000 & UV-6000 | BOV |
| UV-RL-30/60/T12 | UV Lamp 2 ended without Quartz Sleeve for UV-3000 & UV-6000 | BOV |
| UV-RQS-30/60 | Quartz Sleeve for 1 ended UV Lamp – UV-3000 & UV-6000 | BOV |
| UV-RL-5007/T5 | UV Lamp 1 ended without Quartz Sleeve for UV-5007 Purifier (7 required-Price is for single lamp) | BOV |
| UV-RQS-5007 | Quartz Sleeve for 2 ended UV Lamp – UV-5007 Purifier | BOV |
| UV-50-RL | Quattra replacement lamps – CASE/PACK 4 (4 required-Price is for single lamp) | BOV |
| UV-100-RL | Quattra replacement lamps – CASE/PACK 4 (4 required-Price is for single lamp) | BOV |

Generally lamps should be replaced every 10 to 12 months,
depending on water use quality and conditions

BOV: Based on volume, shipping weight, and other related products ordered to be
packed at time of purchase



ULTRA-VIOLET DISINFECTION/PURIFICATION SYSTEM ACCESSORIES–TWT®MD/DP Systems

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

| | |
|------------------------|---|
| TWT-4-UV/MS-1 | Ultraviolet Monitoring System 120 / 60 Hz |
| TWT-4-UV/MS-2 | Ultraviolet Monitoring System 230 / 50 Hz |
| TWT-4-UV/LD-12 | Lite Detective 12 Volt |
| TWT-4-UV/MS-12E | Lite Detective 12 Volt (Euro Adapter) |



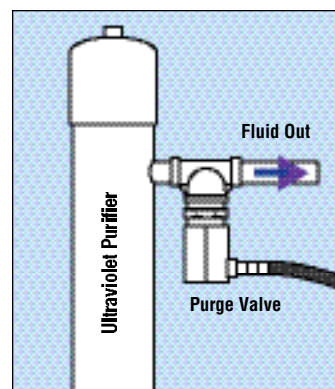
SOLENOID VALVE - STOPS the WATER FLOW in the EVENT of a SYSTEM FAILURE–TWT®MD/DP Systems

| | |
|-----------------------|------------------------------------|
| TWT-4-SV500-1 | .5" Solenoid Valve 120 V / 60 Hz |
| TWT-4-SV500-2 | .5" Solenoid Valve 230 V / 50 H |
| TWT-4-SV750-1 | .75" Solenoid Valve 120 V / 60 Hz |
| TWT-4-SV750-2 | .75" Solenoid Valve 230 V / 50 Hz |
| TWT-4-SV1000-1 | 1" Solenoid Valve 120 V / 60 Hz |
| TWT-4-SV1000-2 | 1" Solenoid Valve 230 V / 50 Hz |
| TWT-4-SV1250-1 | 1.25" Solenoid Valve 120 V / 60 Hz |
| TWT-4-SV1250-2 | 1.25" Solenoid Valve 230 V / 50 Hz |
| TWT-4-SV1500-1 | 1.25" Solenoid Valve 120 V / 60 Hz |
| TWT-4-SV1500-2 | 1.25" Solenoid Valve 230 V / 50 Hz |
| TWT-4-SV2000-1 | 2" Solenoid Valve 120 V / 60 Hz |
| TWT-4-SV2000-2 | 2" Solenoid Valve 230 V / 50 Hz |



PURGE VALVE for ULTRAVIOLET (UV) PURIFIER SYSTEMS

- TWT-UVPV-75** UV-Temperature Sensitive Automatic Purge Valve—Control water temperature in UV systems for enhanced results
- *No electrical power required*
 - *Purges water from chamber at 104F*
 - *Temperature sensitive alloy provides the trigger*
 - *Keeps system cool—no overheating and alarms*
 - *3/4" valve—fits into plumbing as pictured (T-fitting not included: available upon request)*
 - *One TWT-UVPV-75 unit needed for most UV system applications*
 - *10' of tubing and barb fitting included (run to drain, sump or back to well)*
 - *Longer length tubing available upon request*
 - *Brass construction*



BALLAST UNITS FOR TWT® ULTRA VIOLET SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | | APPROX SHIP WEIGHT | CASE PACK |
|---------------------------------------|---|-----------------------|--------------|
| TWT-4-BM/MZ-1 | Ballast for Mini-Zap 120 V / 60 Hz | BOV | 1 |
| TWT-4-BM/MZ-2 | Ballast for Mini-Zap 230 V / 50 Hz | BOV | 1 |
| TWT-4-BM/4-1 | Ballast for UV-4 Purifier 120 V / 60 Hz | BOV | 1 |
| TWT-4-BM/4-2 | Ballast for UV-4 Purifier 200 V / 50 Hz | BOV | 1 |
| TWT-4-12V | Ballast for UV-4 Purifier 12 Volt and Mini-zap 12 Volt | BOV | 1 |
| TWT-4-24V | Ballast for UV-4 Purifier 24 Volt | BOV | 1 |
| TWT-4-BM-250-1IL | Ballast In-Line with Alarm for UV-250 Purifier 120V / 60 Hz | BOV | 1 |
| TWT-4-BM-250-2IL | Ballast In-Line with Alarm for UV-250 Purifier 230V / 50 Hz | BOV | 1 |
| TWT-4-BE-700-1 | Ballast cap & Harness with Alarm for UV-700 Purifier 120V / 60 Hz | BOV | 1 |
| TWT-4-BE-700-2 | Ballast cap & Harness with Alarm for UV-700 Purifier 230V / 50 Hz | BOV | 1 |
| TWT-4-BE-12/15/50-1 | Ballast cap & Harness with Alarm for UV-1200/ 1500/ 2000/5000 120V-60 Hz | BOV | 1 |
| TWT-4-BE-12/15/50-2 | Ballast cap & Harness with Alarm for UV-1200/ 1500/ 2000/5000 230V-50 Hz | BOV | 1 |
| TWT-4-BE-30/60-1 | Ballast cap & Harness with Alarm for UV-3000, UV-6000 120V-60 Hz | BOV | 1 |
| TWT-4-BE-30/60-2 | Ballast cap & Harness with Alarm for UV-3000, UV-6000 230V-50 Hz | BOV | 1 |
| TWT-BE-5007-1 | Ballast for UV-5007 Purifier 120V / 60 Hz | BOV | 1 |
| TWT-BE-5007-2 | Ballast for UV-5007 Purifier 230V / 50 Hz | BOV | 1 |
| TWT-BE-509 | Ballast for Quattrra UV-50 Purifier | BOV | 1 |

BOV: Based on volume, shipping weight, and other related products ordered to be packed at time of purchase



UV BALLAST

ULTRA-VIOLET DISINFECTION/PURIFICATION REPLACEMENT PARTS

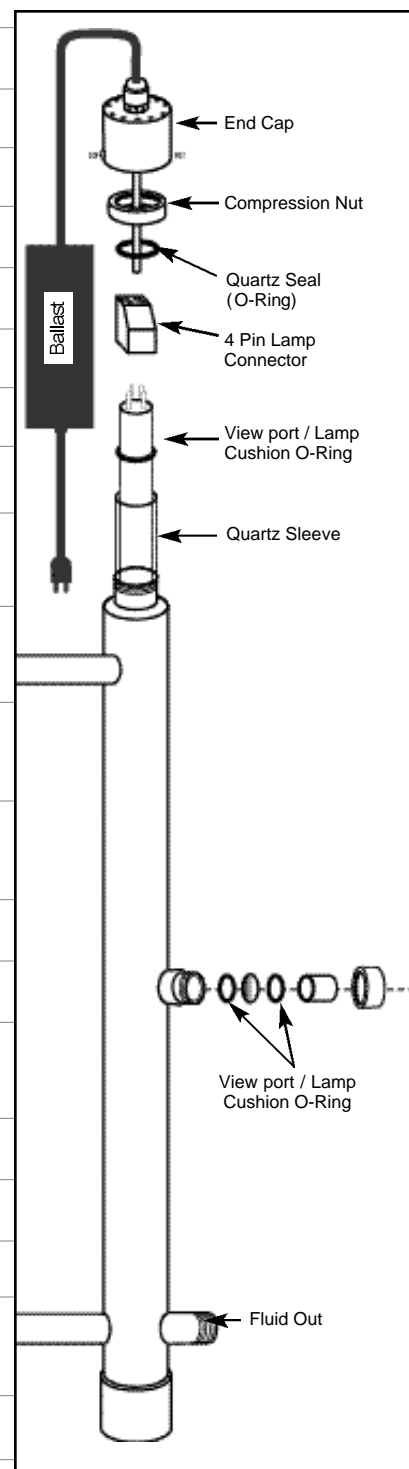
For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

**ITEM NUMBER &
PRODUCT DESCRIPTION:**

UV REPLACEMENT PARTS

**CASE
PACK**

| | | |
|-----------------------|---|--------|
| TWT-10-WDF-103 | Faucet assembly kit | 4 |
| TWT-10-SV-6 | Saddle valve assembly | 4 |
| TWT-10-39 | Diverter Valve for Mini-Zap | 4 |
| TWT-7-15 | Quartz view port disc | 4 |
| TWT-10-VPA | View port assembly kit | 4 |
| TWT-4-2 | 4 Pin lamp connector | 4 |
| TWT-4-S-2 | Starter for the Old Style UV4 / UV250-T8 | 4 |
| TWT-4-S-10 | Starter for the Old Style UV700-TB | 4 |
| TWT-8-34 | Lamp retaining nut for Mini-Zap | 4 |
| TWT-8-17 | Lamp / Quartz compression nut for UV4 | 4 |
| TWT-8-51 | Lamp / Quartz compression nut for UV250 / UV700 / UV1200 | 4 |
| TWT-8-53 | Lamp / Quartz compression nut for UV1500 UV2000 / UV5000 | 4 |
| TWT-8-301 | Lamp / Quartz compression nut for UV3000 UV6000 | 4 |
| TWT-8-9 | View port compression nut for UV700 / 1200 / 1500 / 2000 / 3000/ 5000 | 4 |
| TWT-11-220 | Hub seal for Mini-Zap | 4 |
| TWT-11-9 | Housing seal for the Old Style Mini-Zap | 4 |
| TWT-11-3 | Quartz sleeve seal for MZ / UV4 / 250 / 700 /1200 / 1500 / 2000 / 3000/ 5000 | 4 |
| TWT-11-10 | Lamp O-ring for UV3000 / UV6000 | 4 |
| TWT-11-324 | Quartz sleeve seal for UV3000 / Uv6000 | 4 |
| TWT-11-7 | Outer Flange Seal for UV5007 | 4 |
| TWT-11-6 | View port seal & lamp O-ring for UV250 / 700 / 1200 / 1500 / 2000/ 5000 | 4 4 |
| TWT-8-144142 | Double bracket for 10" filter housings | 4 |
| TWT-13-20 | Mounting Bracket for UV4 System | 4 |



OZONE SYSTEMS and COMPONENTS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---|-------------------------------|-------------------------------|
|---|-------------------------------|-------------------------------|

Ozone is a natural purifier, meaning no harmful chemical or by-products are created during purification

TWT-15-SW-400

| | | |
|---|------------------|-------|
| Ozone Generator 0.4 grams/hr. 120V / 60Hz | 13" x 13" x 4.5" | 8 lbs |
|---|------------------|-------|

TWT-15-SW-400-2

| | | |
|---|------------------|-------|
| Ozone Generator 0.4 grams/hr. 230V / 50Hz | 13" x 13" x 4.5" | 8 lbs |
|---|------------------|-------|

TWT-15-SW-800-1

| | | |
|---|----------------|--------|
| Ozone Generator 0.8 grams/hr. 120V / 60Hz | 15" x 15" x 6" | 10 lbs |
|---|----------------|--------|

TWT-15-SW-800-2

| | | |
|---|----------------|--------|
| Ozone Generator 0.8 grams/hr. 230V / 50Hz | 15" x 15" x 6" | 10 lbs |
|---|----------------|--------|

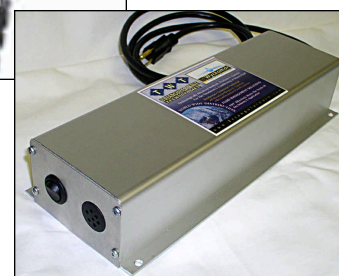


TWT-OZ-SB038 Ozone & Venturi

Ozone Generator 0.38 grams/ hr.
Ozone Generated by: 185 Nm UV lamp
110/20 VAC or 230 VAC

Venturi—Must Specify Size With P.O.
1/2" Venturi Injector or 1" Venturi Injector

2.375" x 4.75" x 12.25"



TWT-15-SVD1-1

Vacuum Drier – One-Tube 120V / 60Hz
(for SW-400)

| | |
|-----------------|-------|
| 6" x 14" x 4.5" | 4 lbs |
|-----------------|-------|

TWT-15-SVD1-2

Vacuum Drier – One-Tube 230V / 50Hz
(for SW-400)

| | |
|-----------------|-------|
| 6" x 14" x 4.5" | 4 lbs |
|-----------------|-------|

TWT-15-SVD2-1

Vacuum Drier – Two-Tube 120V / 60Hz
(for SW-800)

| | |
|----------------|--------|
| 13" x 6" x 15" | 10 lbs |
|----------------|--------|

TWT-15-SVD2-2

Vacuum Drier – Two-Tube 230V / 50Hz
(for SW-800)

| | |
|----------------|--------|
| 13" x 6" x 15" | 10 lbs |
|----------------|--------|



TWT-VI-50

Venturi Injector .5"

TWT-VI-100

Venturi Injector 1"

Higher capacity systems available upon request



OZONE SYSTEMS and COMPONENTS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Custom Engineered System Built to Order Only.

ITEM NUMBER & PRODUCT DESCRIPTION:

TWT-CD3-4 4 GPM

Portable Chiller: Custom Engineered and Assembled Side-Stream Multi-Process Treatment System (Mounted on Portable Skid/ Cart)

Multi-Staged • Ozone • Filtration • Electro-Magnetic Fluid Conditioning Ultra Violet Disinfection & Purification



TWT-WOZ-800/3 3 GPM

This model can operate at up to 3 GPM.
Larger systems (6, 8, 10 GPM) are available on request

Applications Include:

Drinking Water • Process Water • Wastewater • Dairy & Farm Use
Aquariums • Aquaculture • Cooling Towers and More

Now You Can Offer your customers a compact and efficient ozone water purification system for home or small commercial business.

Ozone is a natural chemical-free method of purifying drinking and process water. Besides killing common water borne contaminants such as bacteria and viruses, this system can reduce odor and coloration in the water supply, providing high quality processed water for the end user.



OZONE SYSTEMS and COMPONENTS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

Custom Engineered System Built to Order Only.

ITEM NUMBER & PRODUCT DESCRIPTION:

TWT-COS-3 Custom Ozone System

System's may be sized to accommodate customers flow rates and purification requirements.

This model can operate at up to 3 GPM.

Larger systems (4, 6, 8 GPM) are available on request



TWT-CMWT–Custom Integrated Treatment System (15 GPM)

Cabinet Mount Water Treatment System
Combines Iron Removal with UV Disinfection and
Multi-level Filtration in a secure cabinet.

900 gallons per hour / 21,000 gallons per day

- Rated Flow: 57 liters per minute (15 GPM) 3420 liters/hour, 82,080 liters/day (900 gallons/hour, 21,600 g/day)
- Initial UV Dose at Rated Flow: 27mj/cm² (27,000 uwsec/cm²)
@95%T100-130V / 50-60 Hz 220-240V / 50-60 Hz
- Maximum Operating Temp. 37°C (98.6°F)
- Maximum Operating Pressure: 125 psi – 8.6 bar (tested to 500 psi)
- Plumbing: 1" MNPT In/Out
- Chamber Material: 304L Stainless Steel (316L available)
- Filtration: Backwashable Carbon Filter (2 cf of media)
- Ozone Injection: Air Dryer, Ozone Generator, Contact tank, Venturi Injector
- Polish Filtration: 20 and 5 Micron sediment, 10 M Carbon
- Optional: On Board Pump



REVERSE OSMOSIS (RO) SYSTEMS-RESIDENTIAL

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

TWT-5S-RO50 GPD



Features:

- Metal Storage Tank • Filmtec RO Membrane
- Long Reach Chrome Faucet • Quick Connect Fittings

TWT-6S-RO50 GPD



Features:

- Metal Storage Tank • Filmtec RO Membrane
- Long Reach Chrome Faucet • Quick Connect Fittings
- Powerful UV Disinfection

Bacteria and viruses and other microorganisms are killed by a powerful UV disinfection that will inactivate the pathogens at 99.99% inactivation rate.

Description:

This residential Reverse Osmosis System is installed at the point of use (e.g. under the sink) and produces up to 50 gallons of purified water per day. It removes substantial amounts of most inorganic chemicals (such as salts, minerals, metals) and most (but not all) organic chemicals. The high quality membrane rejects successfully salts, sugars, proteins, particles, dyes, heavy metals, chlorine and related by-products as well as other contaminants that have a molecular weight greater than 150-250 daltons. Dissolved ions that carry a charge, such as salts, are more likely to be rejected than uncharged ions, such as organics.

The system comes with 3 levels of pre-filtration, a 50 GPD Filmtec membrane, a post-carbon filter and a metal holding tank. Mounting hardware, a long reach faucet and saddle valves for easy installation are supplied with the system.

Optional stages are also available, such as UV-Disinfection, calcite filter for re-mineralization, or electronic de-scaling.

Specifications:

Capacity 50 GPD, Tank Capacity 4 gal. Recovery 20-25%, Rejections 90% min Filtration:

- 5 M Sediment (Part # 14-WFS10-5SP)
- GAC Carbon (Part # 14-WFC10-GAC)
- Carbon Block (Part # 14-WFC10-5CB)
- Post Carbon (Part # 14-WROPC-GAC-1)
- Membrane Filmtec (Part # 14-WROM-50GPD)

Source Water Requirements:

Hardness < 1 gpg Free chlorine 0 ppm TDS < 1,000 ppm
pH 3 - 11 Iron < 0.01 ppm Manganese < 0.05 ppm
Turbidity < 1 NTU Temperature 4 °C (40 °F) - 27 °C
(80 °F) Pressure 40 - 100 psi (2.8 - 5.6 bar)

RO systems listed above are shipped to customers with easy to follow application, installation and maintenance manuals.

TWT, Inc. recommends that an extra set of replacement membrane and cartridge filters be purchased with each system to ensure uninterrupted service and treatment.

REVERSE OSMOSIS (RO) SYSTEMS—COMMERCIAL/INDUSTRIAL

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

Ship Weight

Reverse Osmosis (RO) is a modern process technology to purify water for a wide range of applications, including semiconductors, food processing, biotechnology, pharmaceuticals, power generation, seawater desalting, and municipal drinking water.

TWT-RO300G-FL

300 GPD, .75" FNPT, 2.5" X 21" membrane

*

TWT-RO500G-FL

500 GPD, .75" FNPT, 2.5" X 21" membrane

*

TWT-RO1000G-FL

1,000 GPD, .75" FNPT, 4" X 21" membrane

*

TWT-RO300G-FL

These systems are similar in appearance but have different capacities



R-13 Compact Wall Mount RO

26" X 36" X 9"

50 - 75 lbs

Three models for flow rates to 1200 GPD

Standard features

- Powder coated steel frames
- Inlet solenoid valve
- Pre-filter
- 1/2 HP motor
- Brass pump
- Liquid filled pre-filter pressure gauge
- 2 1/2" liquid filled pump pressure gauge
- Product water & reject water flow meters
- High pressure, non-metallic membrane housings
- SS needle valves for concentrate and recycle lines
- Stainless steel product water check valve
- On / off toggle switch
- Low-pressure shut-off with auto restart
- Feed water and product water TDS mon

Specifications

- Feed water connection 3/4" NPTF
- Product water connection 3/8" Tubing OD
- Reject water connection 3/8" Tubing OD
- Feed water required (max.) 2.4 GPM
- Feed water pressure (min.) 10 PSI
- Drain required (max.) 2.4 GPM
- Electrical requirements 120 VAC 60 Hz
- Amp 8
- Pump (H.P.) 1/2

Applications

- Whole house • Ice makers • Labs • Beverages
- Coffee shops • Restaurants

Options

| Part Number | Description |
|-------------|----------------------|
| R2868 | Leg Kit |
| R2353-SD | Product float switch |
| R2288 | Whole house option* |



TWT-R13-0250 – 250 GPD Compact Wall Mounted System

Reverse Osmosis Higher Volume Systems

| Models | R13-0250 | R13-0600 | R13-1200 |
|---|----------------|----------------|----------------|
| Maximum production (gallons per day) | 250 | 600 | 1200 |
| Average membrane rejection rate | 98 % | 98 % | 98 % |
| Recovery (adjustable) | 8 - 75 % | 17 -75% | 34 - 75 % |
| Membrane size | 3" x 10" | 3" x 20" | 3" x 20" |
| Number of membranes | 1 (P/N R96310) | 1 (P/N R96320) | 2 (P/N R96320) |
| Pre-filter (system ships with one 5 micron cartridge) | 10" | 20" | 20" |
| Dimensions, approximate (W x H x D) | 26" x 26" x 9" | 26" x 36" x 9" | 26" x 36" x 9" |
| Shipping Weight, estimated (lbs.) | 50 | 60 | 75 |

Performance specifications are based on 77° feed water, SDI < 3, TDS below 1000 ppm and pH of 8. Individual membrane productivity and rejection rates are based on manufacturers specifications. Please see water temperature conversion charts for production factor. Chlorine reduction and other pretreatment may be required. Systems are designed for use with municipal and well water. *Includes 300 gal tank, product float switch and repressurization pump with built in controls.

TWT recommends that filters be purchased in sets of two in order to ensure uninterrupted fluid treatment Reverse Osmosis: Removes the entire spectrum of drinking water contaminants

Note: Larger size reaction chambers and material available upon request

Custom engineered system built to order only. Price to be determined and based on component assembly and materials cost at time of purchase.

REVERSE OSMOSIS (RO) SYSTEMS—COMMERCIAL/INDUSTRIAL

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

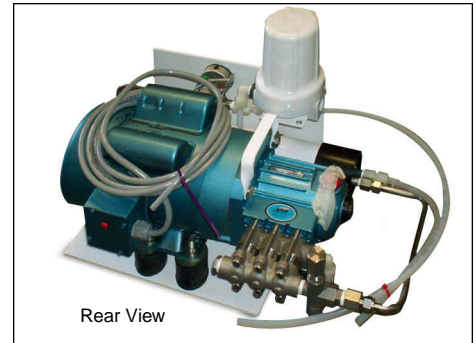
TWT-SWRO-100 – Drinking Water from Sea Water

The RO filtration system is ideal for use on board boats, yachts and vessels of all types. Compact and dependable, this sea water desalination system is able to provide up to 100 GPD (400 LPD) of drinking water from sea water source.

Specifications

- Output max. 100 gallons per day
- For Feed Water Containing up to 36,000 mg/L TDS (36,000 ppm) at 25 C, SDI < 3
- 316L Stainless Steel Pump
- 24 Volt DC Motor (1 HP), Running at 1800 RPM
- High Rejection Sea Water Membrane
- Flow Meter Installed on the Permeate Line
- 5 Micron Sediment Pre-Filter
- Frame: Bent aluminum panel, with anti-vibration support
- Motor: 120 or 220V 50/60 Hz, 1Ph, 1.0 HP, 1470 RPM (60 Hz) or 1450 RPM (50 Hz)
- Pump: Cat 2SF15 (brass) or 2SF15Sell (316SS-optional)
- Membrane: FILMTEC or SIMILAR 2.5"D x 14"L
- Pressure Vessel: Own Manufacturing (OSMO-2514-1000)
- Flowmeter: 0 to .25 GPM (or 0 to 15 GPH), Acrylic Block (optional)

RO systems are shipped with easy to follow application, installation and maintenance manual.



TWT-12 (RO) Wall Mounted System

22" X 32" X 12" 50 lbs

with Four models for flow rates to 1200 GPD

Features

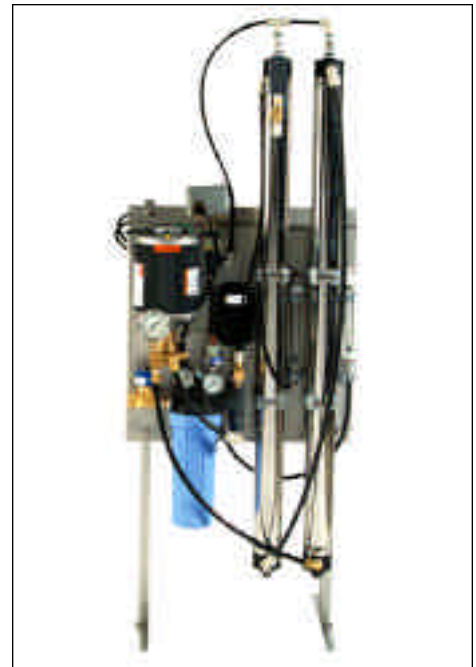
- Stainless steel frame
- Automatic inlet valve
- Pre-filter housing and cartridge, 10"
- Procon pump (brass)
- 1/2 HP motor
- Liquid filled pump pressure gauge (2-1/2")
- Stainless steel pressure vessels
- Needle valve for concentrate line
- Needle valve for recycle line
- Check valve for product water (stainless steel)
- Product pressure switch with Auto/Off
- Low-pressure shut-off with automatic restart

Specifications

- Product water & reject water connection (tubing) 3/8"
- Feed water requirement (maximum) 2.4 GPM
- Feed water pressure requirement (minimum) 10 PSIG
- Drain requirement (maximum) 2.4 GPM
- Electrical requirement 120v/60hz
- Amps 8
- Pump 1/2 HP

Options

| Part Number | Description |
|-------------|----------------------------|
| R2864 | Stainless steel leg kit |
| R2353-SD | Product water float switch |
| R2288 | Whole house option* |



Reverse Osmosis Higher Volume Systems

| Model Number | Package | GPD | Recovery (Adjustable) | Membrane Size | Number Of Membranes | Feed Water Connection | Typical Rejection | Dimensions | Ship Wt. |
|--------------|---------|------|-----------------------|---------------|---------------------|-----------------------|-------------------|-------------|----------|
| R12-0150-1 | 1 | 150 | 15%-75% | 2-1/2"x14" | 1 | 1/2" NPT | 98% | 22"x32"x12" | 50 |
| R12-0150-2 | 2 | 150 | 15%-75% | 2-1/2"x14" | 1 | 1/2" NPT | 98% | 22"x32"x12" | 50 |
| R12-0150-3 | 3 | 150 | 15%-75% | 2-1/2"x14" | 1 | 1/2" NPT | 98% | 22"x32"x12" | 50 |
| R12-0250-1 | 1 | 250 | 15%-75% | 2-1/2"x21" | 1 | 1/2" NPT | 98% | 22"x32"x12" | 50 |
| R12-0250-2 | 2 | 250 | 15%-75% | 2-1/2"x21" | 1 | 1/2" NPT | 98% | 22"x32"x12" | 50 |
| R12-0250-3 | 3 | 250 | 15%-75% | 2-1/2"x21" | 1 | 1/2" NPT | 98% | 22"x32"x12" | 50 |
| R12-0600-1 | 1 | 600 | 15%-75% | 2-1/2"x40" | 1 | 1/2" NPT | 98% | 22"x52"x12" | 60 |
| R12-0600-2 | 2 | 600 | 15%-75% | 2-1/2"x40" | 1 | 1/2" NPT | 98% | 22"x52"x12" | 60 |
| R12-0600-3 | 3 | 600 | 15%-75% | 2-1/2"x40" | 1 | 1/2" NPT | 98% | 22"x52"x12" | 60 |
| R12-1200-1 | 1 | 1200 | 25%-75% | 2-1/2"x40" | 2 | 1/2" NPT | 98% | 22"x52"x12" | 70 |
| R12-1200-2 | 2 | 1200 | 25%-75% | 2-1/2"x40" | 2 | 1/2" NPT | 98% | 22"x52"x12" | 70 |
| R12-1200-3 | 3 | 1200 | 25%-75% | 2-1/2"x40" | 2 | 1/2" NPT | 98% | 22"x52"x12" | 70 |

TWT-R12-0150 –150 GPD Wall Mounted System with Optional Legs Sea water membranes available

REVERSE OSMOSIS (RO) SYSTEMS–COMMERCIAL/INDUSTRIAL

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

SHIP WEIGHT

R4X40 RO System

20" X 26" X 50"

120 -180 lbs

Model for flow rate to 2200 GPD

Standard Features

- Powder coated steel frame
- Inlet solenoid valve
- 20" prefilter
- Prefilter pressure gauge
- Multistage centrifugal pump
- Low-pressure protection with microprocessor auto reset
- 2.5" liquid filled pump pressure gauge
- Stainless steel pressure vessel(s)
- Product flow meter
- Reject flow meter
- Concentrate needle valve
- Non metallic recycle needle valve
- On / off toggle switch
- Feed water and product water TDS monitor

Applications

- Whole house • Boiler feed water
- Humidifiers • Greenhouses • Process water
- Electronics

Specifications

- Membrane Size 4" x 40"
- Average membrane rejection 98 %
- Feed Water Connection 3/4" NPTF
- Prefilter 20"
- Product Water Connection 5/8" tubing OD
- Reject Water Connection 5/8" tubing OD
- Feed Water Pressure (minimum) 10 psi
- Electrical Requirement 120 VAC 60 Hz*

Options

| Part Number | Description |
|-------------|---------------------|
| R2288 | Whole House Option* |
| R4X40 | RO Series |



TWT-RX40-1 – 2200 GPD RO System

Reverse Osmosis Higher Volume Systems

| Models | R4X40-1 | R4X40-2 | R4X40-3 |
|--|-----------------|-----------------|-----------------|
| Maximum Productivity (gallons per day) | 2200 | 4400 | 6600 |
| Recovery (user adjustable) | 15 - 75 % | 25 – 75% | 32 - 75 % |
| Number Of Membranes | 1 | 2 | 3 |
| Feed Water Required (maximum) | 10gpm | 12 gpm | 14 gpm |
| Drain Required (maximum) | 10gpm | 12 gpm | 14 gpm |
| Motor Horse Power | 3/4 | 1 | 1 1/2 |
| Electrical Requirement | 15 amps | 20 amps | 25 amps |
| Dimensions W x D x H | 20" x 20" x 50" | 20" x 20" x 50" | 20" x 26" x 50" |
| Shipping Weight (estimated lbs) | 120 | 150 | 180 |

Maximum production based on a feed water of 77°F, SDI < 1, 1000 ppm TDS, and pH 7. Individual membrane productivity may vary (± 15%). May be operated on other feed waters with reduced capacity. Percent Rejection is based on membrane manufactures specifications; overall system percent rejection may be less.

*Also available in 230 volts single phase.

**Includes 300 gal tank, product float switch, and pressure pump with built in controls

TWT recommends that filters be purchased in sets of two in order to ensure uninterrupted fluid treatment

Reverse Osmosis: Removes the entire spectrum of drinking water contaminants

Note: Larger size reaction chambers and material available upon request

Custom engineered system built to order only. Price to be determined and based on component assembly and materials cost at time of purchase.

REVERSE OSMOSIS (RO) SYSTEMS—COMMERCIAL/INDUSTRIAL

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

SHIP WEIGHT

R-14 Wall-Mounted Systems

41" X 51" X 18"

250 lbs

Models for flow rate to 5400 GPD, Stainless steel fittings, fully assembled and ready for installation.

Standard features

- Stainless steel frame
- Stainless steel pressure vessels
- Pre-filter housing and cartridge, 10" Full-Flow
- Webtrol® multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with automatic restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Pre-filter pressure gauges
- Pump discharge pressure gauge (liquid filled)
- Flow meter for product water
- Flow meter for reject water
- Check valve for product water
- Sample valve for product water
- On / off switch

Specifications

- Feed water connection 1" FNPT
- Product water connection (1800 & 3600 GPD) 1/2" tube
- Product water connection (5400 GPD) 5/8" tube
- Reject water connection (all R14 models) 1/2" tube
- Feed water pressure requirement (minimum) 10 PSIG
- Drain requirement (maximum) 10 GPM
- Electrical requirement 230v/60hz
- Amps (1800 & 3600 GPD) 6
- Amps (5400 GPD) 9

Options

| Part Number | Description |
|-------------|----------------------------|
| R2353-SD | Product water float switch |
| R2288 | Whole house option* |



TWT-R14-02-1WM – 3600 GPD Wall Mounted System
Sea water membrane available

Reverse Osmosis Higher Volume Systems

| Model Number | Fittings & Valves | GPD | Pump (H.P.) | Recovery (Adjustable) | Membrane Size | Membranes | Feed Water Required** (GPM) | Typical Rejection | Dimensions | Ship Wt. (Lbs.) |
|--------------|-------------------|------|-------------|-----------------------|---------------|-----------|-----------------------------|-------------------|-------------|-----------------|
| R14-02-1WM | SS | 3600 | 1 | 25%-75% | 4" x 40" | 2 | 5 | 98% | 41"x51"x18" | 250 |

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is FPMB-BB5-10 melt blown cartridge. Systems are designed for use with municipal and well water.

*Includes 300 gallon tank, product water float switch and repressurization pump with built-in controls. **At 50% recovery.

TWT recommends that filters be purchased in sets of two in order to ensure uninterrupted fluid treatment

Reverse Osmosis: Removes the entire spectrum of drinking water contaminants

Note: Larger size reaction chambers and material available upon request

Custom engineered system built to order only. Price to be determined and based on component assembly and materials cost at time of purchase.

REVERSE OSMOSIS (RO) SYSTEMS—COMMERCIAL/INDUSTRIAL

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ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

SHIP WEIGHT

R-14 floor-mounted systems 20" X 26" X 50" 700 lbs

Two models for flow rates 7200 to 9000 GPD

Standard features

- Powder coated steel frame
- Stainless steel pressure vessels
- Pre-filter housing and cartridge (20" Full-Flow)
- Webtrol® heavy-duty multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with automatic restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Pre-filter pressure gauges
- Pump discharge pressure gauge (liquid filled)
- Flow meter for product water

- Flow meter for reject water
- Flow meter for recycle water
- Check valve for product water
- On / off switch

Specifications

| | |
|--|-------------|
| Feed water connection | 1" FNPT |
| Product water connection | 3/4" FNPT |
| Reject water connection | 3/4" FNPT |
| Feed water pressure requirement (min.) | 10 PSIG |
| Drain requirement (maximum) | 15 GPM |
| Electrical requirement | 230VAC/60hz |
| Phase | 3 |
| Amps | 15 |



TWT-R14-04-1111000 – 7200 & 9000 GPD Floors Mounted Systems Sea water membrane available

Reverse Osmosis Higher Volume Systems

| Model Number | Package | GPD | Pump (H.P.) | Recovery (Adjustable) | Membrane Size | Membranes | Feed Water Required* (GPM) | Typical Rejection | Dimensions | Ship Wt. (Lbs.) |
|----------------|---------|------|-------------|-----------------------|---------------|-----------|----------------------------|-------------------|-------------|-----------------|
| R14-04-1111000 | 1 | 7200 | 5 | 42%-75% | 4" x 40" | 4 | 10 | 98% | 60"x18"x56" | 600 |
| R14-05-1111000 | 1 | 9000 | 5 | 46%-75% | 4" x 40" | 5 | 12.5 | 98% | 60"x18"x56" | 700 |

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is FPMB-BB5-20 melt blown cartridge. Systems are designed for use with municipal and well water.

*At 50% recovery.

TWT recommends that filters be purchased in sets of two in order to ensure uninterrupted fluid treatment

Reverse Osmosis: Removes the entire spectrum of drinking water contaminants

Note: Larger size reaction chambers and material available upon request

Custom engineered system built to order only. Price to be determined and based on component assembly and materials cost at time of purchase.

REVERSE OSMOSIS (RO) SYSTEMS–COMMERCIAL/INDUSTRIAL

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ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

SHIP WEIGHT

R-24 Model for flow rate 10 GPM

96" X 24" X 72"

800 lbs

Standard Features

- Powder coated steel frame
- FRP multi-port pressure vessels
- Pre-filter housing and cartridge (20" B-B)
- Webtrol® multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with auto restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Pre-filter pressure gauges
- Pump discharge pressure gauge
- Flow meter for product water
- Flow meter for reject water
- Flow meter for recycle water
- Check valve for product water
- Sample valves for product water
- On / off switch

Specifications

| | |
|--|----------------|
| Feed water connection | 1" FNPT |
| Product water connection | 1" FNPT |
| Reject water connection | 3/4" FNPT |
| Feed water pressure requirement (min.) | 10 PSIG |
| Drain requirement (maximum) | 17, 21, 25 GPM |
| Electrical requirement | 230VAC/60hz |
| Phase | 3 |
| Amps | 20 |



TWT-R24-08-1111000 – 10 GPM RO System
Sea water membrane available

Consumables and replacement parts list for RO system will be provided at time of purchase.

RO systems are shipped with easy to follow application, installation and maintenance manual.

Please Note:

System engineering design, weight, size and system component assembly may vary based on TWT engineering review, water conditions, application, industry and/or customer specific needs. Pumps, piping, fittings, valves, and other material needed to and from system owners responsibility.

Reverse Osmosis Higher Volume Systems

| Model Number | GPM | Pump (H.P.) | Recovery Adjustable | Membrane Size | Membranes Array | Feed Water Required* | Typical Rejection (GPM) | Dimensions | Ship Wt. (Lbs.) |
|----------------|-----|-------------|---------------------|---------------|-----------------|----------------------|-------------------------|-------------|-----------------|
| R24-08-1111000 | 10 | 7.5/TEFC | 60%-75% | 4" x 40" | 2:1:1 | 17 | 98% | 96"x24"x72" | 800 |

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is 20" Full-Flow plastic housing and FPMB-BB5-20 melt blown filter cartridge. Systems are designed for use with municipal and well water. *At 65% recovery.

TWT recommends that filters be purchased in sets of two in order to ensure uninterrupted fluid treatment

Reverse Osmosis: Removes the entire spectrum of drinking water contaminants

Note: Larger size reaction chambers and material available upon request

Custom engineered system built to order only. Price to be determined and based on component assembly and materials cost at time of purchase.

Sea Water RO

On-Board Desalination Systems



Description

Sea Water Reverse Osmosis Systems are designed to produce potable permeate water from sea water with up to 35,000 ppm TDS content. Designed for use on recreational yachts and light commercial vessels of all types, these systems will provide a daily production of 190-580 GPD (30 liters/hour-300 liters/hour). They have a very small footprint and silent operation which means these units can be installed in almost any area. The systems can be fully automated with the addition of select optional equipment.

Systems include select pre-filtration and optional UV disinfection to provide the highest quality drinking water possible. All systems come with high rejection rate RO membranes and feature high/low pressure gauges and safety devices. Additional optional features are available, such as automatic flushing, extended pre-filtration or remote control. Three models for recreational and commercial uses are available in various voltage configurations and flow rates.

Features

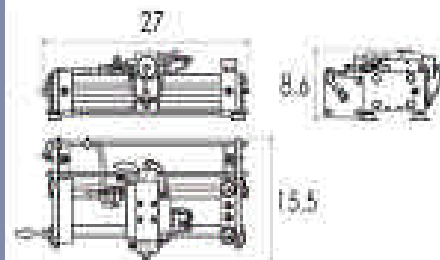
- Compact Design
- High Pressure Feed & CAT Pump
- Automatic Operation, Simple and Silent.
- Salinometer, Auto Waste Valve.
- Very Low Power Consumption

Options

- Auto Flushing
- Remote Control
- UV Disinfection
- Wide Range of Other Options

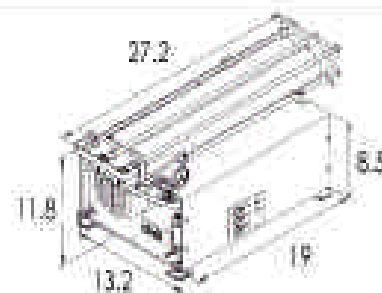
Model Eco

30-90 l/h
12 or 24 VDC



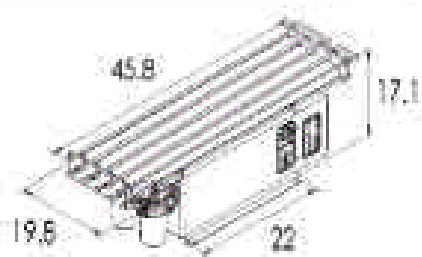
Model X

30-90 l/h
12 or 24 VDC
115 or 230 V single ph.



Model Y

60-300 l/h
115 or 230 V
220 or 400 V three ph.



Sea Water Ro Systems



Design Assumptions

- Feed Water of 35,000 mg/l TDS
- SDI 3
- Turbidity 1NTU for UC Disinfection

Standard Features

- High Rejection Rate Sea Water RO membranes
- 5 Micron Sediment Pre-Filter
- High and Low Pressure Gauges and safety Devices
- Stainless Steel Frame

Optional Features

- Automatic Flushing
- Advanced PLC Control for
 - Remote Signaling and Control
 - Permeate and Concentrate Flowmeters
- Separation Kit
- Maintenance Kit
- Additional Sand Filter

Additional Considerations

- Holding Tank
- Pressure System

| Specifications | | | | | | | |
|----------------|--------|-------------|-------------------|--|----------------------------|---------------------|----------------------|
| | Part # | Prod* (GPD) | Prod* (Litres/Hr) | Voltage | Power Consumption | Size L x W x H (cm) | Weight (kg) |
| Model Eco | Eco30 | 190 | 30 | 12V 24V | 12A 6A | 67x38x2048 | 48 |
| | Eco60 | 380 | 60 | 12V | 25A | 67x38x20 | 56 |
| | | | | 24V | 12.5A | | 56 |
| | Eco90 | 570 | 90 | 12V 24V | 24A 17A | 67x50x20 | 68 68 |
| Model X | X-30 | 190 | 30 | 12V 24V 115V 230V | 31A 25A 1 kw 1 kw | 69x33x30 | 34 36 38 38 |
| | X-50 | 320 | 50 | 12V | 31A | 69x33x30 | 40 |
| | X-60 | 380 | 60 | 24V 115V 230V | 25A 1 kw 1 kw | 69x33x30 | 42 44 44X |
| | X90 | 570 | 90 | 115V 230V | 1 kw 1 kw | 69x33x30 | 50 50 |
| Model Y | Part # | Prod* (GPD) | Prod* (Litres/Hr) | Voltage <small>s=single ph. t=three ph.</small> | Power Consumption | Size L x W x H | Weight (kg) |
| | Y-60 | 380 | 60 | 115Vs 230Vs 220Vt 400Vt | 1.5 kw | 117x45x37 | 61 |
| | Y-120 | 760 | 120 | 115Vs 230Vs 220Vt 400Vt | 1.5 kw | 117 x 45 x 37 | 69 |
| | Y-180 | 1140 | 180 | 115Vs 230Vs 220Vt 400V | 2 kw | 117 x 45 x 41 | 67 |
| | Y-240 | 1520 | 240 | 115Vs 230Vs 220Vt 400Vt | 2 kw | 117 x 50 x 41 | 85 |
| | Y-300 | 1900 | 300 | 115Vs 230Vs 220Vt 400Vt | 3 kw | 117 x 50 x 46 | 95 |

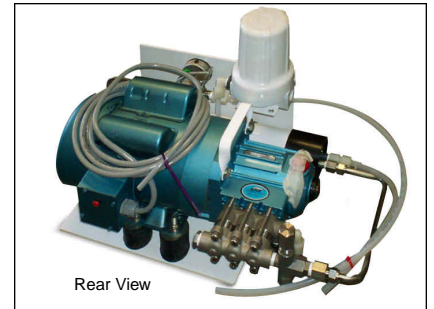
* Rated performance +/- 10% using standard sea water, with 35 g/l salinity, at 25° C

TWT-SWRO-100 – Drinking Water from Sea Water

The RO filtration system is ideal for use on board boats, yachts and vessels of all types. Compact and dependable, this sea water desalination system is able to provide up to 100 GPD (400 LPD) of drinking water from sea water source.

Specifications

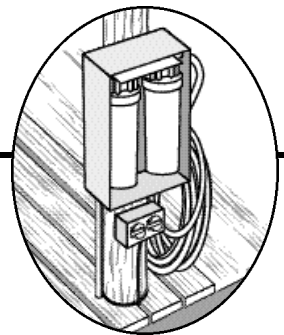
- Output max. 100 gallons per day
 - For Feed Water Containing up to 36,000 mg/L TDS (36,000 ppm) at 25 C, SDI < 3
 - 316L Stainless Steel Pump
 - 24 Volt DC Motor (1 HP), Running at 1800 RPM
 - High Rejection Sea Water Membrane
 - Flow Meter Installed on the Permeate Line
 - 5 Micron Sediment Pre-Filter
 - Frame: Bent aluminum panel, with anti-vibration support
 - Motor: 120 or 220V 50/60 Hz, 1Ph, 1.0 HP, 1470 RPM (60 Hz) or 1450 RPM (50 Hz)
 - Pump: Cat 2SF15 (brass) or 2SF15Sell (316SS-optional)
 - Membrane: FILMTEC or SIMILAR 2.5"D x 14"L
 - Pressure Vessel: Own Manufacturing (OSMO-2514-1000)
 - Flowmeter: 0 to .25 GPM (or 0 to 15 GPH), Acrylic Block (optional)
- RO systems are shipped with easy to follow application, installation and maintenance manual.



| | | | |
|--|---------------------|---------------------|--------|
| TWT-SYS4/QS4M-1 (GPM 1-2) Ultra Violet Dual Media Under Counter Water Filtration System 120V / 60 Hz Point-of-Use Ultraviolet 10" Sediment Purifier Filter – 10" carbon Block | Sed-5M Carb-0.5M | 13"W x 15" H x 6.5" | 10 lbs |
| TWT-SYS4/QS4M-2 (GPM 1-2) 230V / 60 Hz Point-of-Use Ultraviolet Purifier –10" Sediment Filter 10" carbon Block | Sed-5M Carb-0.5M | 13"W x 15" H x 6.5" | 10 lbs |
| TWT-SYS4/QS4E-12 (GPM 1-2) 12V Point-of-Use Ultraviolet Purifier 10" Sediment Filter 10" Carbon Block | Sed-5M Carb-0.5M | 13"W x 15" H x 6.5" | 10 lbs |
| TWT-SYS4/QS4E-24 (GPM 1-2) 24V Point-of-Use Ultraviolet Purifier 10" Sediment Filter 10" Carbon Block | Sed-5M Carb-0.5M | 13"W x 15" H x 6.5" | 10 lbs |



Ultra Violet with Dual Media Water Filtration System. Under Counter or Dock Side Application



| | | | |
|---|----------------------------|----------------------------|--------|
| TWT-SYS43/QS43M-1 (GPM 1-2) Ultra Violet Triple Media Under Counter Water Filtration System 120V / 60 Hz Point-of-Use Ultraviolet Purifier/10" Sediment Filter 10" Carbon Block/ 10" GAC | Sed-5M Carb-0.5M GAC | 15.75"L x 14.5"H x 5.375"D | 14 lbs |
| TWT-SYS43/QS43M-2 230V / 60 Hz Point-of-Use Ultraviolet Purifier 10" Sediment Filter 10" Carbon Block / 10" GAC | Sed-5M Carb-0.5M GAC | 15.75"L x 14.5"H x 5.375"D | 14 lbs |
| TWT-SYS43/QS43E-12 12V Point-of-Use Ultraviolet Purifier 10" Sediment Filter / 10" Carbon Block 10" GAC | Sed-5M Carb-0.5M GAC | 15.75"L x 14.5"H x 5.375"D | 14 lbs |
| TWT-SYS43/QS43E-24 24V Point-of-Use Ultraviolet Purifier 10" Sediment Filter Carbon Block 10" GAC | Sed-5M Carb-0.5M GAC | 15.75"L x 14.5"H x 5.375"D | 14 lbs |



ULTRA FILTRATION SYSTEM

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPH | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

Inside ultra-filters pressure vessel is a network of hollow fibers that reduce microbiological contaminants in the water. Removes impurities as small as .015 microns from source water.

| | | | |
|-------------------|---------|------------|---------|
| TWT-UFAC11 | 600 GPH | 52"H X 5"D | 34 lbs. |
|-------------------|---------|------------|---------|

Power Supply: 120 VAC
Ultra Meter/Controller • 1 inch NPT

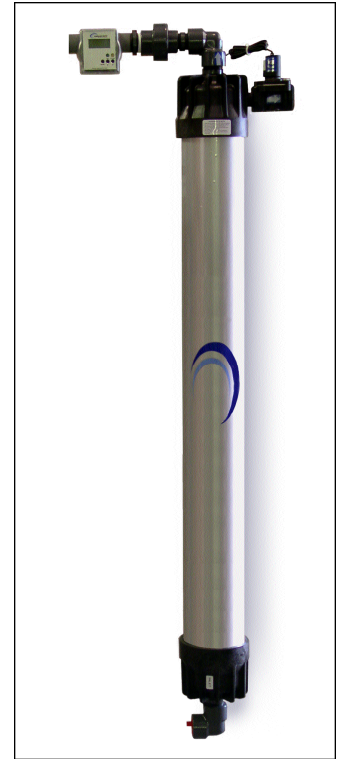
Meter Controller Specifications

| | |
|-------------------|-------------------------------|
| Power Supply | 110 VAC/12 VDC (50/60 Cycles) |
| Flush Volume: | |
| Range | 20-1000 Gallons |
| Increment | 20 Gallons |
| Flush Duration: | |
| Range | 10-100 Seconds |
| Increment | 1 Second |
| Maximum Flow Rate | 10 Gallons per Minute |

System Specifications

| | |
|------------------------------|----------------------------|
| Maximum Operating Pressure | 72 psi (5 Bar) |
| Maximum Operating Temp. | 40 Degree C (104 Degree F) |
| Max. Trans Membrane Pressure | 45 psi (3 Bar) |

| | |
|-------------------------------------|------------------|
| pH Range | 3-10 |
| MWCO | 100kD |
| Membrane Material | Polyethersulfone |
| Inlet and Outlet Fitting Size | 1 inch NPT |
| Flush Valve Fitting Size | 3/4 inch NPT |
| Shipping Weight | 34 lbs. |
| Operating Weight | 51 lbs. |
| Average Flow Rate at 50 psi: | |
| Gallons per Hour | 540 |
| Gallons per Minute | 9 |
| Liters per Hour | 2045 |
| Liters per Minute | 34 |



BIG BUBBA NON-METALLIC FILTERS HOUSINGS

Big-Bubba® filters are bigger and better than other non-metallic filter housings because pricing is based on their economical plastic construction, while the pressure rating is nearly equal to stainless steel.

| | | | |
|--------------------|-----|--------------|---------|
| TWT-BBH-100 | 100 | 34"H X 12"OD | 37 lbs. |
|--------------------|-----|--------------|---------|

Power Supply: 120 VAC

Piping: 2 inch FNPT

| | | | |
|--------------------|-----|--------------|---------|
| TWT-BBH-150 | 150 | 40"H X 12"OD | 43 lbs. |
|--------------------|-----|--------------|---------|

Power Supply: 110 VAC/12 VDC (50/60 Cycles)

Piping: 2 inch FNPT

BIG BUBBA REPLACEMENT FILTER CARTRIDGES

| | |
|------------------|-------------------------------|
| TWT-BBH-S | One Sediment Filter Cartridge |
|------------------|-------------------------------|

| | |
|-----------------|-----------------------------|
| TWT-BBHC | One Carbon Filter Cartridge |
|-----------------|-----------------------------|

Features

- Made of glass-reinforced polypropylene for greater strength and chemical resistance.
- Will not dent, rust, chip or corrode.
- Filters accept single cartridge for convenience.
- Swing-bolt lid closure is easy, safe & secure.
- Pressure release handle for safety. (Lid will not open until pressure has been released.)
- Cartridge "lock" adapter for convenience.
- Double o-rings on cartridges for superior sealing.

- Two inlets to allow piping from the same direction.
- Pre-set pressure release valve included.

Applications

- Whole house filtration for sediment
- Whole house filtration for taste & odor reduction
- Whole house filtration for chlorine reduction
- Sea water filtration for chemical resistance
- Commercial use when low cost filters are needed



CENTRIFUGAL SEPARATORS

How they work

High velocity influent passes through the separator, which is designed to produce a circular flow pattern. Using gravitational force, sand, debris and sludge migrate to the separator's side walls and downward, into a solids holding chamber. Cleansed effluent rises up, through the vortex and is returned back to the system. Subsequently, the separated solids are purged from the holding chamber, continuously, manually or automatically, depending on what type equipment is utilized.

Features & benefits

- Removes 98% of all solids with a 1.8 specific gravity or more, and all particles greater than 40 micron in size
- Rated for pressures to 150 PSID
- Rated for temperatures to 200°F
- Epoxy coated, carbon steel construction
- No routine maintenance required
- Minimum 4 PSI pressure drop
- Compact design to save space

| ITEM NUMBER & PRODUCT DESCRIPTION: | GPM | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----|-----------------------|-----------------------|
|---------------------------------------|-----|-----------------------|-----------------------|

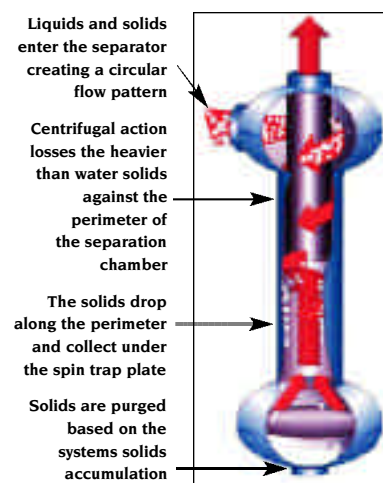
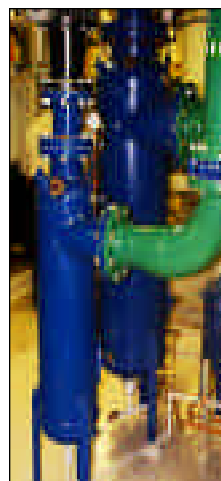
Removes dense solids without replaceable filter elements.

In-line centrifugal separators (no legs)

| | | | |
|-------------|-------------|-----------------|---------|
| FP-CS-C-75 | 14-25 GPM | 22.437"H X 6"D | 16 lbs. |
| FP-CS-C-100 | 28-49 GPM | 22.437"H X 6"D | 18 lbs |
| FP-CS-C-150 | 67-115 GPM | 30"H X 6"D | 22 lbs |
| FP-CS-C-200 | 90-157 GPM | 34"H X 10"D | 42 lbs |
| FP-CS-C-300 | 205-355 GPM | 33.875"H X 10"D | 46 lbs |

High flow centrifugal separators (models with legs)

| | | | |
|--------------|-----------------|--------------|-----------|
| FP-CS-C-400 | 352-610 GPM | 53"H X 12"D | 165 lbs. |
| FP-CS-C-600 | 800-1385 GPM | 60"H X 14"D | 232 lbs. |
| FP-CS-C-800 | 1385-2398 GPM | 70"H X 18"D | 365 lbs. |
| FP-CS-C-1000 | 2183-3780 GPM | 86"H X 22"D | 575 lbs. |
| FP-CS-C-1200 | 2915-5049 GPM | 100"H X 24"D | 852 lbs. |
| FP-CS-C-1400 | 3817-6610 GPM | 111"H X 30"D | 1382 lbs. |
| FP-CS-C-1800 | 6469-11,204 GPM | 132"H X 36"D | 2140 lbs. |



Features & Benefits

- Removes 98% of all solids with a 1.8 specific gravity or more, and all particles greater than 40 micron in size
- Rated for pressures to 150 PSID
- Rated for temperatures to 200°F
- Epoxy coated, carbon steel construction
- No routine maintenance required
- Minimum 4 PSI pressure drop
- Compact design to save space

| Manual purge kits for centrifugal separators | | |
|--|------------------|--|
| Part Number | Separator Outlet | Description |
| MPK-75 | 3/4" | Manual purge kit with valve and fittings |
| MPK-150 | 1-1/2" | Manual purge kit with valve and fittings |
| MPK-200 | 2" | Manual purge kit with valve and fittings |

| Timer purge kits for centrifugal separators (on/off timer models) | | |
|---|------------------|---|
| Part Number | Separator Outlet | Description |
| APT-75 | 3/4" | 3/4" motorized valve with on / off timer, panel mounted |
| APT-150 | 1-1/2" | 1-1/2" motorized valve with on / off timer, panel mounted |
| APT-200 2" | 2" | Motorized valve with on / off timer, panel mounted |

| Automatic purge kits for centrifugal separators (with deluxe multi-set timers) | | |
|--|------------------|--|
| Part Number | Separator Outlet | Description |
| APMST-75 | 3/4" | 3/4" motorized valve with multi-set timer, panel mounted |
| APMST-150 | 1-1/2" | 1-1/2" motorized valve with multi-set timer, panel mounted |
| APMST-200 | 2" | 2" motorized valve with multi-set timer, panel mounted |

SELF CLEANING SEDIMENT FILTRATION SYSTEMS

Spin-down sediment filters - Self-cleaning design, designed for large particle removal with manual purge valve

Micron filter with a built-in manual flush valve to purge built-up sediments in the bottom of the filter. The self-cleaning sediment filter are 3/4"1" / 1 1/2" / 2" in/out.

Filter will initially clean the water so the staged replacement cartridges will have a much longer service life.



Spin Down Filter System

Reusable sediment filter for fine sediment or particulates that can be flushed periodically



Sediment Trapper Filter System

Reusable sediment filter for medium sediment or particulates that can be flushed periodically

Spin Down™ Cold Water Feed Line Polyester Screen

3/4" RSF1000L
3/4" RSF500L
3/4" RSF250L
3/4" RSF100L

1" RSF1000L
1" RSF500L
1" RSF250L
1" RSF100L

1.5" RSF1000M
1.5" RSF500M
1.5" RSF250M
1.5" RSF100M

2" RSF1000H
2" RSF500H
2" RSF250H
2" RSF100H

Sediment Trapper™ Cold Water Feed Line Polyester Screen

3/4" RSF1000LST
3/4" RSF500LST
3/4" RSF250LST
3/4" RSF100LST

1" RSF1000LST
1" RSF500LST
1" RSF250LST
1" RSF100LST

1.5" RSF1000MST
1.5" RSF500MST
1.5" RSF250MST
1.5" RSF100MST

2" RSF1000HST
2" RSF500HST
2" RSF250MST
2" RSF100HST



Hot Water Spin-Down Sediment Trapper Filters

Hot water sediment filters for water up to 200°F can be utilized after the water heater to capture scale

Available Upon Request

- Replacement Intake Filters
- Spin-Down Filter Elements
- Sediment Trapper Filter Elements
- Optional Equipment List
- TWT Deposit Control Technology (hard water treatment & Conditioning)

Spin Down™ Hot Water Feed Line Stainless Steel Mesh Screen

3/4" RSFSS200LHT
3/4" RSFSS140LHT
3/4" RSFSS100LHT
3/4" RSFSS600LHT

N/A
N/A
N/A
N/A

1.5" RSFSS2000MHT
1.5" RSFSS140MHT
1.5" RSFSS100MHT
1.5" RSFV60MSMHT

2" RSFSS200HHT
2" RSFSS140HHT
2" RSFSS100HHT
2" RSFSS60HHT

Sediment Trapper™ Hot Water Feed Line Stainless Steel Screen

3/4" RSFSS200LSTHT
3/4" RSFSS140LSTHT
3/4" RSFSS100LSTHT
3/4" RSFSS600LSTHT

N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A

FILTER SETS WITH UV PURIFIERS P.O.E.

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

FILTER SPECS

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-SYS250-WFS15SC-Filter Set

Self-cleaning filter combined with
TWT-SYS250-FS filter set as seen

22"W x 27"H x 7"D

8 lbs



TWT-SYS250-FS -Filter Set

Filter Specs: Sed-5M/Carb -10M complete
with filter housings, mounting bracket,
wrench and 10" sediment filter and 10"
carbon filter-3/4" in-out-pressure tested

Sed-5M
Carb-10M

11"W x 14"H x 5.75"

9 lbs



TWT-SYS250-FSUV (4 GPM)

Residential/ Commercial P.O.E.
UV Disinfection/Filtration System Purifier
Combined as a Unit for 1/2" or 3/4" Pipes

Sed-5M
Carb-10M

17"W x 26"H x 6.5"D

16 lbs



TWT-SYS700-FS -Filter Set

Filter Specs: Sed-5M/Carb -10M complete
with filter housings, mounting bracket,wrench
and 20" sediment filter and 20" carbon filter-
3/4" in-out-pressure tested

Sed-5M
Carb-10M

11"W x 25"H x 5.75"

13 lbs



TWT-SYS700-FSUV (8 GPM) Filter Set with UV Purifier

Residential/ Commercial P.O.E. UV
Disinfection/Filtration System Purifier
Combined as a Unit for 3/4" or 1" Pipes

Sed-5M
Carb-10M

17"W x 26"H x 6.5"D

18 lbs



120V / 60 Hz other current source available upon request

FILTER SETS WITH UV PURIFIERS P.O.E.

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

FILTER SPECS

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

TWT-SYS1200-FSUV (12 GPM) Filter Set with UV Purifier

Residential/ Commercial P.O.E.
UV Disinfection/Filtration System
Purifier Combined as a Unit
for 1" to 1½" Pipes

Sed-5M
Carb-10M

20"W x 52"H x 8"D

33 lbs



TWT-SYS1200-FS –Filter Set

Filter Specs: Sed-5M/Carb -10M
Filter Set - complete with filter housings,
mounting bracket, wrench and 20"
sediment filter and 20" carbon filter-1"
in-out–pressure tested

Sed-5M
Carb-10M

14.5W" x 29"H x 8"D

22 lbs



TWT-SYS1500-FSUV (GPM 15) Filter Set with UV Purifier

Residential/ Commercial P.O.E.
UV Disinfection/Filtration System
Purifier Combined as a Unit
for 1" to 1½" Pipes

Sed-5M
Carb-10M

20"W x 52"H x 8"D

33 lbs

120V / 60 Hz other current
source available upon request



TWT-SYS1500-FS–Filter Set Only

Filter Specs: Sed-5M/Carb -10M Filter Set -
complete with filter housings, mounting
bracket, wrench and 20" sediment filter
and 20" carbon filter-1½" BB in-out–
pressure tested

Sed-5M
Carb-10M

14.5W" x 29"H x 8"D

22 lbs



Filter sets and UV Purifiers P.O.E.

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | FILTER SPECS | PRODUCT DIMENSIONS | APPROX SHIP WEIGHT |
|---------------------------------------|-----------------|-----------------------|-----------------------|
|---------------------------------------|-----------------|-----------------------|-----------------------|

TWT-SYS3000-FSUV (GPM 30) Filter Set with UV Purifier

Residential/ Commercial P.O.E
UV Disinfection/Filtration System
Purifier Combined as a Unit
for 1 1/2" Pipes

120V / 60 Hz other current
source available upon request

Sed-5M
Carb-10M

21"W x 52"H x 8"D

33 lbs.



TWT-SYS3000-FS-Filter Set Only

Filter Specs: Sed-5M/Carb -10M Filter Set -
complete with filter housings, mounting
bracket, wrench and 20" sediment filter
and 20" carbon filter- 1-1/2" BB in-out-
pressure tested

Sed-5M
Carb-10M

14.5"W x 29"H x 8"D

22 lbs



TWT-SYS5000-50 GPM

Custom System Quote
120V / 60 Hz other current
source available upon request

TBD*

21"W x 52"H x 8"D

38 lbs



TWT-SYS6000-100 GPM

Custom System Quote
Filtration and UV system integrated based on
application requirements at time of purchase

TBD*

21"W x 52"H x 8"D

42 lbs



The SYS5000 & SYS6000 are all similar in
appearance, but have different capacities.

*Based on price of material at time of purchase, are meant to ensure proper use, application and installation

FILTRATION PRODUCTS/FILTER HOUSINGS for REPLACEMENT CARTRIDGES

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

| ITEM NUMBER & PRODUCT DESCRIPTION: | PRODUCT DIMENSIONS | CASE PACK | APPROX SHIP WEIGHT |
|---------------------------------------|---|-----------|-----------------------|
| TWT-FH4200WW14 | 10" White Filter Housing for 1/4" pipe size | 6 | BOV |
| TWT-FH4200WW38 | 10" White Filter Housing for 3/8" pipe size | 6 | BOV |
| TWT-FH4200WW12 | 10" White Filter Housing for 1/2" pipe size | 6 | BOV |
| TWT-FH4200WW34 | 10" White Filter Housing for 3/4" pipe size | 6 | BOV |
| TWT-FH5000BL34PR | 10" Blue Filter Housing for 3/4" pipe size with Pressure Release Valve | 6 | BOV |
| TWT-FH5000BL1PR | 10" Blue Filter Housing for 1" pipe size with Pressure Release Valve | 6 | BOV |
| TWT-FH5000BL15PR | 10" Blue Filter Housing for 1-1/2" pipe size with Pressure Release Valve | 6 | BOV |



FILTRATION PRODUCTS/20" FILTER HOUSINGS for 20" X 4-1/2" OD CARTRIDGES

| | | | |
|--------------------------|---|---|-----|
| TWT-FH10000BL34PR | 20" Blue Filter Housing for 3/4" pipe size with Pressure Release Valve | 6 | BOV |
| TWT-FH5000BL1PR | 20" Blue Filter Housing for 1" pipe size with Pressure Release Valve | 6 | BOV |
| TWT-FH5000BL15PR | 20" Blue Filter Housing for 1-1/2" pipe size with Pressure Release Valve | 6 | BOV |



FILTRATION PRODUCTS/JUMBO FILTER HOUSINGS

| | | CASE PACK | |
|---------------------|--|--------------|--------|
| TWT-FMJCH40 | 50 GPM single cartridge, jumbo filter housings in 316 stainless steel | 1 | 31 lbs |
| TWT-FMJCH90 | 100 GPM single cartridge, jumbo filter housings in 316 stainless steel | 1 | 56 lbs |
| TWT-FMJCH170 | 150 GPM single cartridge, jumbo filter housings in 316 stainless steel | 1 | 62 lbs |



FILTRATION PRODUCTS/JUMBO FILTER & HURRICANE HOUSINGS REPLACEMENTS

| | | | |
|-----------------------|---|---|--------|
| TWT-FMHC-40-5 | 5 micron pleated cartridges for FMJC40 Carton Size 10" x 10" x 12" | 1 | 3 lbs |
| TWT-FMHC-90-5 | 5 micron pleated cartridges for FMJCH90 Carton Size 8" x 8" x 20" | 1 | 5 lbs |
| TWT-FMHC-170-5 | 5 micron pleated cartridges for FMJCH170 Carton Size 8" x 8" x 31" | 1 | 14 lbs |



Pleated: Washable and reusable for sediment reduction/removal

FILTRATION PRODUCTS/REPLACEMENT BAG FILTERS

| | | | |
|--------------------|------------------------|----|-----|
| TWT-RBF-05 | 5 Micron bag filters | 20 | BOV |
| TWT-RBF-10 | 10 Micron bag filters | 20 | BOV |
| TWT-RBF-20 | 20 Micron bag filters | 20 | BOV |
| TWT-RBF-50 | 50 Micron bag filters | 20 | BOV |
| TWT-RBF-100 | 100 Micron bag filters | 20 | BOV |

Other Micronic sizes available upon request

BOV: Based on volume, shipping weight, and other related products
ordered to be packed at time of purchase

FILTRATION PRODUCTS/REPLACEMENT FILTER CARTRIDGES

The below listed filters are used in our All-In-One integrated systems, under counter systems are other related systems in catalog

| ITEM# NUMBER | PRODUCT DESCRIPTION | MICRON | HOUSING |
|-------------------|------------------------|--------|---------------|
| TWT-155169 | Solid Block | 0.5 | 10" |
| TWT-155634 | Solid Block | 10 | 10" |
| TWT-155783 | Solid Block | 10 | 20" Big Blue |
| TWT-155635 | Solid Block | 10 | 20" Slim Line |

Solid Block: Activated carbon for taste, lead, odor, chlorine and organic chemical reduction/removal

| | | | |
|-------------------|------------------|----|---------------|
| TWT-155182 | Pleated Sediment | 5 | 10" |
| TWT-155103 | Pleated Sediment | 10 | 10" |
| TWT-155420 | Pleated Sediment | 5 | 20" Big Blue |
| TWT-155305 | Pleated Sediment | 20 | 20" Big Blue |
| TWT-155414 | Pleated Sediment | 5 | 20" Slim Line |
| TWT-155303 | Pleated Sediment | 20 | 20" Slim Line |

Pleated: Washable and reusable for sediment reduction/removal

| | | | |
|-------------------|----------------|----|--------------|
| TWT-155382 | Pleated Carbon | 10 | 20" Big Blue |
|-------------------|----------------|----|--------------|

Pleated Carbon: Taste, odor, chlorine and organic chemical reduction/removal

| | | | |
|-------------------|-----|-----|---------------|
| TWT-155109 | GAC | N/A | 10" |
| TWT-155249 | GAC | N/A | 20" Big Blue |
| TWT-155111 | GAC | N/A | 20" Slim Line |

GAC: Granulated activated carbon for taste, odor, organic chemicals and chlorine reduction/removal

| | | | |
|-----------------------|---------|-----|-----|
| TWT-GAC10M/KDF | GAC/KDF | N/A | 10" |
|-----------------------|---------|-----|-----|

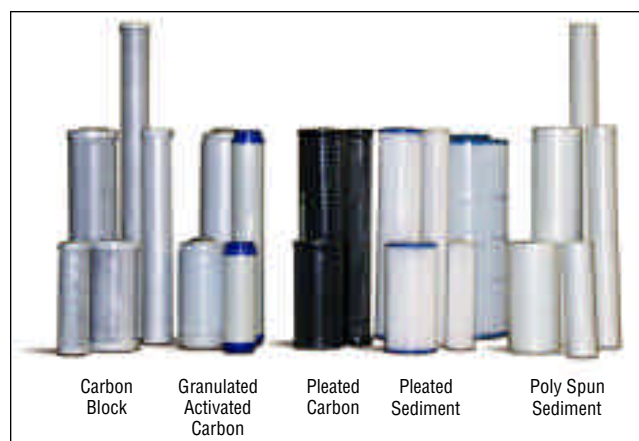
GAC/KDF-55: Granulated activated carbon with KDF-55, specially formulated copper/zinc alloy media designed to remove chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulfur, herbicides, pesticides, chemical fertilizer residues and trihalomethanes

TWT-MZRFC Mini-Zap Replacement Filter Cartridge

The above replacement filter cartridges are used in TWT Counter Top, UnderCounter, P.O.E., P.O.U. and Integrated All-In-One Treatment Systems. Refer to Specific product sheet (catalog or website) for correct replacement filter cartridges needed.

If fluid conditions require different media and/or additional micronic particle trapping for enhanced results, filters are available in various capacities providing flexibility & adaptability to meet the needs of all fluid conditions & applications. Contact your dealer or TWT, Inc. for additional information. Product numbers may change, micron size, filter medium must be indicated on purchase order

Note: Filter Housing, Filter Replacement Cartridges, and In-Line Filters if not listed, are available upon request



METER VALVES/AUTOMATIC SHUT-OFF FOR FILTER SYSTEMS

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT



TWT-UCVCM-01

P.O.E./P.O.U. filter system with battery powered indicator lights to alert you when filters/batteries need to be replaced

See page 59 replacement filters

13" X 11" X 4.5"

See page 75 for
filter replacement

FILTER SYSTEM ACCESSORIES

METER VALVES/AUTOMATIC SHUT-OFF BASED ON GALLONS FILTERED

| | | |
|------------------|---|-----|
| WM2000B | Black 1800 gal, Jaco fitting, 1/4" MNPT | BOV |
| WM2000W | White 1800 gal, Jaco fitting, 1/4" MNPT | BOV |
| WM3000B | Black 3800 gal, Jaco fitting, 1/4" MNPT | BOV |
| WM3000W | White 3800 gal, Jaco fitting, 1/4" MNPT | BOV |
| WM3001B | Black 15,000 L, Jaco fitting, 1/4" MNPT | BOV |
| WM2001B | Black 7,000 L, Jaco fitting, 1/4" MNPT | BOV |
| WM2000HCW | White 1800 gal, John Guest connectors, 1/4" | BOV |
| WM2000HCB | Black 1800 gal, John Guest connectors, 1/4" | BOV |



DIGITAL FLOW METER VALVES

| | | |
|---------------------|--|-----|
| TWT-FPDM-100 | With Audible Alarm to indicate cartridge replacement | BOV |
| TWT-FPDM-200 | With Audible Alarm to indicate cartridge replacement | BOV |
| TWT-FPDM-210 | With Audible Alarm to indicate cartridge replacement | BOV |

MOUNTING BRACKETS

| | | |
|-----------------|--|-----|
| TWT-FM20 | Mounting bracket for single filter housing | BOV |
| TWT-FM30 | Mounting bracket for double filter housing | BOV |
| TWT-FM50 | Mounting bracket for triple filter housing | BOV |

Larger sizes available upon request

HOUSING WRENCHES

| | | |
|-------------------|---------------------------|-----|
| TWT-FHR-10 | 10" Filter Housing Wrench | BOV |
| TWT-FHR-20 | 20" Filter Housing Wrench | BOV |

FEED WATER SADDLE VALVE

| | | |
|-----------------|--|-----|
| TWT-SV-1 | 1/2" MNPT x 1/2" FNPT x 1/4" compression | BOV |
| TWT-SV-2 | 3/8" MNPT x 3/8" FNPT x 1/4" compression | BOV |

Larger sizes available upon request

BOV: Based on volume, shipping weight, and other related products ordered to be packed at time of purchase

FILTRATION PRODUCTS/RUST ERASE IRON FILTER (Brim Iron Removal Filter Systems)

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

PRODUCT DIMENSIONS

APPROX SHIP WEIGHT

Designed to Effectively Eliminate Rust and Iron from your Water Supply Thoroughly and Economically

TWT-RE-12

63"H x 10"D

100 lbs

Rust-Erase Iron Filter

Flow rate: 30 Liters per minute

Maximum Iron Removal Capacity:

12 p.p.m.

Filter Medium: Fine birm

Electrical Supply: 120V 60 Hz 1 Amp

or: 240V 50Hz 1 Amp

Plumbing: 1" and 1" N.P.T. In-Out

Back-wash Connection: 3/4" N.P.T.

Note: Other voltage source available upon request.



Chemical-Free Iron Removal Systems (no chemical injection required)

TWT-RE-30

Maximum Iron Removal Capacity: 30 p.p.m.

Flow rate: 30 Liters per minute

Maximum Iron Removal Capacity: 30 p.p.m.

Filter Medium: Fine birm

Plumbing: 1" and 1" N.P.T. In-Out

Back-wash Connection: 3/4" N.P.T.

52"H x 12"D

80 lbs

TWT-RE-50

Maximum Iron Removal Capacity: 50 p.p.m.

Flow rate: 48 Liters per minute

Filter Medium: Fine birm

Plumbing: 1" and 1" N.P.T. In-Out

Back-wash Connection: 3/4" N.P.T.

52"H x 12"D

100 lbs



TWT-RE-30 / TWT-RE-50– These systems are similar in appearance but have different capacities

Systems Include:

- Clack 1" air injection system • Off air control tank (10x47)
- 163 valve • Brim Media • Bypass valve • Electronic timer control valve (backwash)

TWT-RE-30C*

47"H x 10"D

90 lbs

The chrome jacketed system is complete with upgraded valves (chrome jacket is only available on the 30 ppm iron system).

Flow rate: 30 Liters per minute

Maximum Iron Removal Capacity: 30 p.p.m.

Filter Medium: Fine birm

Plumbing: 1" and 1" N.P.T. In-Out

Back-wash Connection: 3/4" N.P.T.

Electrical Supply: 120V 60 Hz 1 Amp or: 240V 50Hz 1 Amp

*Indicates Chrome Jacket



Note: Water- Ph should be 7.0 or higher for effective use and operation

FILTRATION PRODUCTS/FILOX IRON REMOVAL SYSTEM C/W

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

TWT-Filox-IRFS Filox media iron removal system. C/W 1 CF media. Single tank unit, service flow 6-7 GPM backwash flow required 5.5-GPM.

Whole House Filters For Iron, Hydrogen Sulfide And Manganese.

Iron, Manganese and Hydrogen Sulfide are common elements found in your water and can be a nuisance causing stains in sinks, bathtubs, toilets, driveways and even the side of your house. In addition Iron, Manganese and Hydrogen Sulfide release unpleasant odors and tastes to your water supply. FILOXTM, a non-chemical oxidizing media is the answer to these water problems.

System Advantages

- Highest flow rate of any Iron removal media.
- No oxidizing chemicals needed for regeneration.
- High efficiency with minimum of 80% Manganese dioxide for enhanced performance and capacity.
- Effective, from 5.0 to 9.0 pH.
- System is easy to program, with 10 pre-programmed regeneration cycles to optimize water treatment. • May require additional oxidizing agents depending on water conditions.
- 10 year warranty on tank.
- 5 year warranty on valve.
- Made in USA.

NOTE: The use of chemicals and oxidizers, such as chlorine potassium permanganate and oxygen may be required to provide the optimal treatment for Iron, Hydrogen Sulfide and Manganese.



| Model No. | Value | Mineral Tank Size | Media Cubic Ft. | Gravel (Lbs.) | Service Flow (GPM) | Drop (PSI) | Back Wash (GPM) | Floor Space L x W x H |
|------------|------------|-------------------|-----------------|---------------|--------------------|------------|-----------------|-----------------------|
| NF09-W110F | Time Clock | 9X48 | 1 | None | 6 | < 15 | 5.3 | 16X10X55 |
| NF10-W110F | Time Clock | 10X54 | 1.5 | None | 9 | < 15 | 7.5 | 16X11X62 |
| NF12-W110F | Time Clock | 12X52 | 2 | None | 12 | < 15 | 10 | 17X13X60 |
| NF14-W110F | Time Clock | 14X65 | 3 | None | 18 | < 15 | 15 | 18X15X74 |
| NF16-W110F | Time Clock | 16X65 | 4 | None | 24 | < 20 | 20 | 20X17X74 |

Iron, Hydrogen Sulfide, and Manganese Removal

Filox-RTM Media

Filox-RTM media is an economical Iron and Hydrogen Sulfide filtration media that outperforms traditional Greensand and Birm.

Features & Benefits

- Superior high efficiency media for filtration and removal capabilities
- No oxidizing chemicals needed for regeneration.
- High efficiency with 80% manganese dioxide for enhanced performance and capacity.
- Effective, from 5.0 pH to 9.0 pH
- Highest flow rate of any standard iron removal media.

Operating Conditions

| | |
|-------------------|--------------------------|
| Active Ingredient | 75-85% Manganese Dioxide |
| Service Flow | 6 gpm/cu.ft. |
| Freeboard | 30-50% |
| Backwash rate | 12-15 gpm/sq.ft @ 60F |
| Bed depth | 20 inch Minimum |
| pH Range | 5.0 – 9.0 |
| Screen size | 12 x 40 |
| Bulk density | 114 lbs/cu.ft. |
| Removal Capacity | |
| Iron | 15.0 ppm |
| Hydrogen Sulfide | 7.0 ppm |
| Manganese | 3.0 ppm |



WHOLE HOME/OFFICE BACK WASHABLE FILTRATION SYSTEM

For additional information: visit www.triangularwave.com • E-mail: info@triangularwave.com • triwaveinc@aol.com

ITEM NUMBER & PRODUCT DESCRIPTION:

Interchangeable mixed media bed

TWT-TP-001M (municipal water)

TWT-TP-001W (well water)

Pre-Filter MicroZ filter media, KDF,

Activated Carbon

Power Supply: 120 VAC/60 Hz 1amp

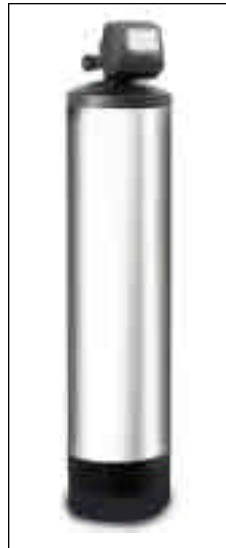
or 240v 50 Hz 1amp

Piping: 1" inch NPT

GPM 8-10 GPM

PRODUCT DIMENSIONS 60"H X 12"D

APPROX SHIP WEIGHT 100 lbs.
Depending media chosen



OPTION #1

TWT-TP-001M
(municipal water)
TWT-TP-001W
(well water)
Filtration System

Flow rate: 8-10 GPM

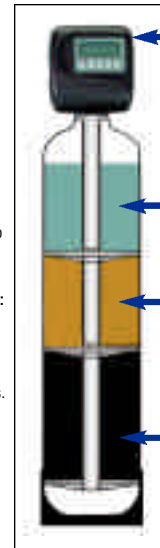
Electrical Supply:
120V 60 Hz 1 Amp
or: 240V 50Hz 1 Amp

Plumbing:
1" and 1" N.P.T. In-Out

Back-wash Connection:
3/4" N.P.T.

Size: 60" high X 12" diameter

Approx Weight: 100 lbs.
(depending media chosen)



Metered Control Valve

Pre-Filter

MicroZ™ filter media is used for pre-filtration to remove particles, five micron and up. MicroZ out performs sand and multimedia to provide increased particulate removal.

KDF

KDF is added here to enhance performance of activated carbon and to aid in the removal of iron and hydrogen sulfide.

Activated Carbon

Activated carbon is used for pre-treatment to remove chlorine taste, odors.

TWT-TP-002M (municipal water)

TWT-TP-002W (well water)

Pre-Filter MicroZ filter media, KDF,

Activated Carbon, High Efficiency Ion

Exchange Resin

Power Supply: 120 VAC/60 Hz 1amp

or 240v 50 Hz 1amp

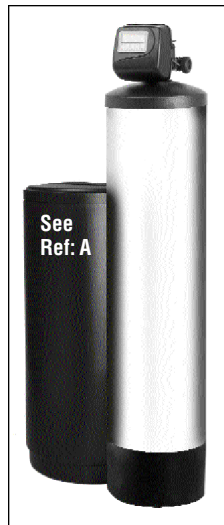
Ref A: This system backwashed using standard softening salt

Piping: 1" inch NPT

GPM 8-10 GPM

PRODUCT DIMENSIONS 60"H X 12"D

APPROX SHIP WEIGHT 100 lbs.
Depending media chosen



OPTION #2

TWT-TP-002M
(municipal water)
TWT-TP-002W
(well water)
Filtration System

Flow rate: 8-10 GPM

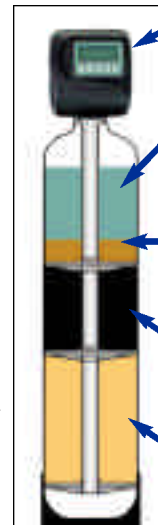
Electrical Supply:
120V 60 Hz 1 Amp
or: 240V 50Hz 1 Amp

Plumbing:
1" and 1" N.P.T. In-Out

Back-wash Connection:
3/4" N.P.T.

Size: 60" high X 12" diameter

Approx Weight: 100 lbs.
(depending media chosen)



Metered Control Valve

Pre-Filter

MicroZ™ filter media is used for pre-filtration to remove particles, five micron and up. MicroZ out performs sand and multimedia to provide increased particulate removal.

KDF

KDF is added here to enhance performance of activated carbon (below) and to aid in the removal of iron and hydrogen sulfide

Activated Carbon

Activated carbon is used for pre-treatment to remove chlorine taste, odors and to extend life of the ion exchange resin

High Efficiency Ion Exchange Resin

Fine mesh resin is used for increased efficiency and to enhance performance with high iron content water

Specifications: Based on TWT model # & media chosen

| Capacity (Grains) | Footprint (Min) | Safety Float Valve | Connection Size | Removes Hardness | Removes Chlorine | Removes Taste & Odor | Removes Particulate | Removes Iron |
|-------------------|-----------------|--------------------|-----------------|------------------|------------------|----------------------|---------------------|--------------|
| 30,000 | 30" X 19" | Yes | 1" | YES | YES | YES | YES | YES |

| TWT Use Only | Water Source | Pre Filter | Carbon Type | KDF Type | Resin Type | Valve | Valve Type | Mineral Tank | Pipe Size | Brine Tank | Bypass Valve | Safety Float Valve |
|------------------|--------------|------------|-------------------|----------|------------|---------------|------------|--------------|-----------|------------|--------------|--------------------|
| M3011-W100SM 5CZ | Municipal | Micro Z | Low Fines Coconut | 55 | Fine Mesh | Watts Metered | Up Flow | 10" X 60" | 1" | 18" X 36" | Yes | Yes |
| M3011-W100SM 8CR | Well | Micro Z | Low Fines Coconut | 85 | Fine Mesh | Watts Metered | Up Flow | 10" X 60" | 1" | 18" X 36" | Yes | Yes |

TWT® OFFERS A BOLD SERIES OF CHEMICAL-FREE PRODUCTS & SYSTEMS DESIGNED TO MEET THE DEMANDING CHALLENGE IN FLUID MANAGEMENT

Let TWT Help You Make Your Success Our Priority

We pledge to provide you with:

- Unique products and services that directly and reliably address your needs
- The highest level of customer satisfaction before, during and after the sale
- Timely delivery of your order
- More ways to keep your fluid system running right
- More specialized services from one specialized source
- Guaranteed satisfaction

Our teams broad expertise includes...

- Knowledge of industry-specific needs
- Personnel with research and development capabilities and know-how
- Manufacturing and quality control specialists
- Marketing, Sales
- Domestic and international sales specialists

Protection For New Equipment

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

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



All products & systems are:

- Properly packaged, skidded and /or crated to ensure safe delivery
- Shipped complete with all components ready for easy installation*
- Provided with easy to follow installation & application guidelines
 - Clearly numbered for easy inventory and stockroom control



Skidded



Crated



Packaged



Residential • Commercial • Industrial

Chemical-Free Water Treatment:

GO GREEN SAVE GREEN

- **Filtration:** Removes dirt & particulate matter
- **Deposit Control Technology:** Hard water conditioning & treatment
- **Disinfection & Purification Technology:** Kills bacteria and other harmful pathogens. Potable Water, Process and Waste Water Treatment & Conditioning.

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Lots of Companies Provide Products and Systems...TWT Senses Environmental Needs with Intelligent Solutions! The Difference in Technology Matters! TWT makes sense from an operational, economical and safety point-of-view

NO MATTER HOW TOUGH THE JOB... TWT IS THE SOLUTION

In effect, a clean, corrosion-free delivery system is restored and maintained in an environmentally safe and chemical-free manner. The result is clean pipes and tubing with no biofilm and reduced bacterial

contamination. TWT systems make sense from operational, economic, and safety points of view.

Ownership of the TWT System 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.

TS85

SATISFACTION GUARANTEED

Don't Wait...Contact us today for a free consultation!! (Info@triangularwave.com) A luxury you *CAN* afford. And/or for information on what TWT treatment products or systems will meet your industry specific needs.

Join our team, (recurring revenue product line) start a program that works best for your operations.

Looking forward to working with you, The Team at TWT, Inc.

