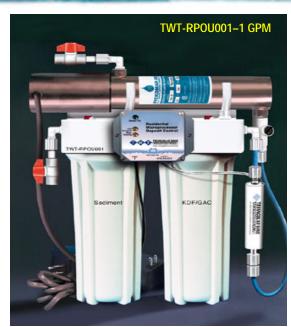
# ARE YOU PREPARED? DO YOU HAVE AN EFFECTIVE WATER TREATMENT SYSTEM? Hard Water Problems Solved Easily!



TWT® the Ultimate in Water Treatment & Conditioning—Chemical-Free

The All-In-One Technologically Advanced Fluid Treatment Method for Point-of-Use Applications

Multi-Staged Filtration Electro-Magnetic Fluid Conditioning Disinfection & Purification

**TWT® Your Simple and Safe Solution** 

CLEANER WATER IS HEALTHIER WATER!



COMBINED FOR MAXIMUM EFFECTIVENESS—
THE COMPETITIVE EDGE!





### TWT® technologically advanced method for water management. Triangular Wave Technologies, Inc. All-In-One fluid management systems, the ultimate in water treatment & conditioning

TWT® systems are factory assembled, applying all of the needed elements for maximum fluid protection, management, and peace of mind in one simple packaged solution. TWT® Filtration, Microprocessor 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.

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

## How the TWT All-In-One systems work! 1.Filtration Systems:

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 or streams that have high exposure to contamination from airborne pollutants, surface run-off, 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.

The filtration units utilized in TWT systems are comprised of several filter types and media that remove harmful chemicals, metals, and toxins from the water as it passes through these layers. Filters used in staged filter housings are configured as illustrated on system trade ads. Upon request if needed other filter mediums and filters used in system can be determined by a water quality analysis. If fluid conditions require additional micronic particle trapping for enhanced results, filters are available in various micronic sizes providing flexibility & adaptability to meet the needs of all fluid conditions & applications.

## 2.Deposit Control

#### TWT® Patented Deposit Control Technology

The basic component in the TWT systems is the deposit controller. It is comprised of a microprocessor, solenoid coil wrap and/or a reaction chamber. The microprocessor is a patented controller that functions like a computer to relay a continuous electrical power supply to the solenoid coil and/or reaction chamber. The reaction

chamber is plumbed into the main water in-take line and/or just before each piece of vital processing equipment, and provides a factory wrapped wire coil forming a solenoid. The solenoid conveys the triangular wave signal at the appropriate power level (as allowed by the model chosen) to the water passing through the chamber. This signal constantly changes the polarity, frequency, and amplitude of the current entering the water.

This triangular wave treatment produces several benefits. It increases the capability of water to hydrate scale ions and other colloidal particles. In effect, the surface charge of the hydrogen molecules is enhanced and the water is made "wetter". This "hydrated" water can dissolve unwanted particles, suspend them in solution, and allow them to be easily filtered out or flushed from the system. Accordingly, the mineral and biological particles that cause scale, deposits, and corrosion are dissolved and washed away.

This means that the breeding environments for bacteria, such as bio-film and corrosion, are eliminated. The agitation created in the reaction chamber also disrupts the conditions essential for the normal reproduction of bacteria and they die, thus allowing them to be harmlessly flushed out of the system. If left untreated, scale build-up inside the reaction chamber and on the quartz sleeve containing the UV lamps may rapidly diminish the UV disinfection effectiveness by reducing the amount of UV light which is absorbed into the water stream. The TWT Deposit Control System will further condition the filtered water stream so as to prevent this scale-build-up inside the UV reaction chamber, helping to maintain maximum UV life cycle and penetration into the water stream.

#### 3. Disinfection / Purification:

#### **Ultra-Violet:**

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 contaminats with a 99.9% kill rate" The output water is thus disinfected and offers exceptionally high quality for human consumption.

#### TWT® All-In-One Fluid Treatment Systems:

TWT water treatment systems are constructed for exceptional performance. These systems are ideally suited for Homes, Offices, Factories, Farms, Medical/ Dental & Laboratory Environments, Hospitals, Restaurants, Schools, Coffee & Tea Dispensers, Ice Making Machines, Spas, Beverage Dispensing Machines, Bottleless Water Coolers, Tavern Draft Taps, Aquariums, Espresso Machines, and anywhere the need for cleaner water to use and drink is required. The self-contained design of these systems ensure that the system will enjoy a long and reliable lifecycle when properly cared for.

Visit Triangular Wave Technologies, Inc.'s comprehensive website, the valuable technical resource for all involved in water and fluid management...

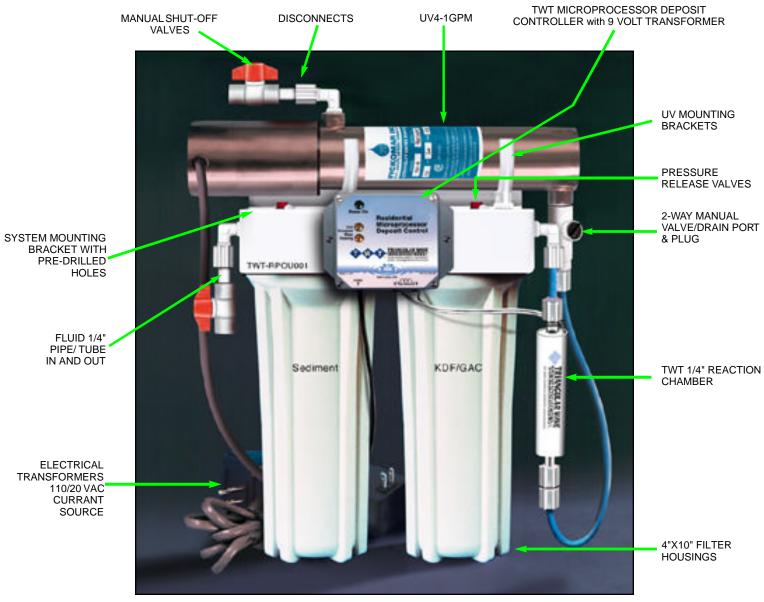
WWW.TRIANGULARWAVE.COM



# **TWT® RPOU001 Point-of-Use Potable Water Treatment & Conditioning System**

Control Scale Deposits/Bacteria Corrosion Algae/Colloids In Your Water-Fed System.

Eliminate the biofilm that serves as a breeding ground for disease – causing bacteria, collecting in your pipes, tubing and equipment.



#### Specifications:

Factory assembled as pictured above. Size:Approx 12.75"W X 16"H X 5.5"D • Weight:Approx 11 lbs.

#### Please Note

System engineering design, weight, size and system component assembly may vary based on TWT engineering review, application, industry and/or customer specific needs

Pumps, piping, fittings, valves, and other material needed to and from system owners responsibility

#### UV lamp replacement:

To ensure adequate disinfection/ purification of water line contamination, replace UV lamps every 10 to 12 months (or sooner depending on water use, quality and conditions).

#### Filter Cartridge Replacement:

Generally twice a year, depending on water use, quality, & conditions.

#### Note

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.

#### Installation:

Licensed plumber and/or contractor is recommended

Must have enough room on all sides for filter and UV replacement & maintenance

Other voltage sources available upon request (must specify)

#### Upgrades:

Upgraded systems to meet your GPM requirements available upon request

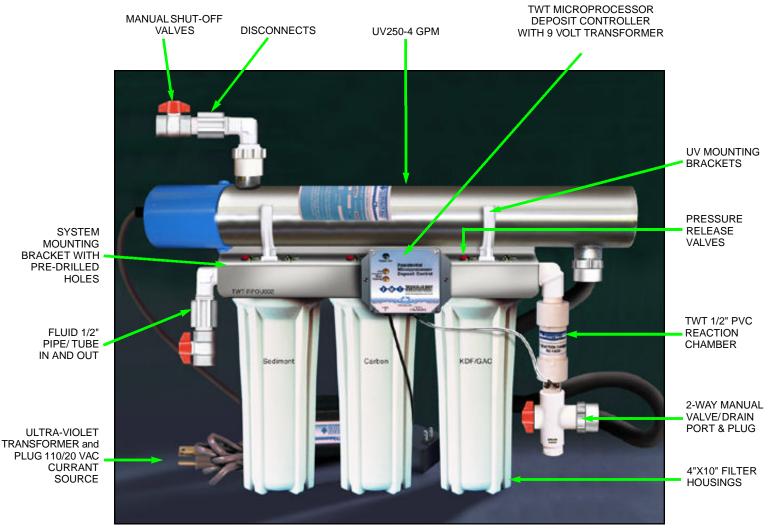
CLEANER WATER
IS HEALTHIER WATER!

**CHEMICAL-FREE** 

## **TWT® RPOU002 Point-of-Use Potable Water Treatment & Conditioning System**

Control Scale Deposits/Bacteria Corrosion Algae/Colloids In Your Water-Fed System.

Eliminate the biofilm that serves as a breeding ground for disease – causing bacteria, collecting in your pipes, tubing and equipment.



#### Specifications:

Factory assembled as pictured above. Size:Approx 23"W X 17.5"H X 5.5"D • Weight:Approx 18 lbs.

#### Please Note

System engineering design, weight, size and system component assembly may vary based on TWT engineering review, application, industry and/or customer specific needs

Pumps, piping, fittings, valves, and other material needed to and from system owners responsibility

#### UV lamp replacement:

To ensure adequate disinfection/ purification of water line contamination, replace UV lamps every 10 to 12 months (or sooner depending on water use, quality and conditions).

#### Filter Cartridge Replacement:

Generally twice a year, depending on water use, quality, & conditions.

#### Note

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.

#### Installation:

Licensed plumber and/or contractor is recommended

Must have enough room on all sides for filter and UV replacement & maintenance

Other voltage sources available upon request (must specify)

#### Upgrades:

Upgraded systems to meet your GPM requirements available upon request

#### **CHEMICAL-FREE**



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