

# WHAT IS IN OUR WATER?

## IS YOUR WATER SAFE ENOUGH TO DRINK?



AT OFFICE  
& FACTORY



IN RESTAURANTS



ON THE FARM



IN LABORATORY, MEDICAL  
& DENTAL ENVIRONMENTS



AT HOME



**NEW! The All-In-One Potable Water  
Protection TWT-MD-1001/1002/1003**

## ARE YOU PREPARED?

**Do You Have An Effective Water Treatment System?**

**DEPOSIT CONTROL • FILTRATION • DISINFECTION • PURIFICATION**

**TRIANGULAR WAVE TECHNOLOGIES FLUID MANAGEMENT SYSTEMS**

**YOUR VERSATILE FLUID MANAGEMENT SYSTEMS TO EFFECTIVELY MEET THE NEEDS OF  
ANY APPLICATION RESIDENTIAL, COMMERCIAL & INDUSTRIAL. CONTROL SCALE  
DEPOSITS • BACTERIA • CORROSION • ALGAE • COLLOIDS IN A VARIETY OF FLUID SYSTEMS**

**YOUR CHEMICAL-FREE, SIMPLE AND SAFE SOLUTION**



**TRIANGULAR WAVE  
TECHNOLOGIES, INC.**  
FLUID MANAGEMENT SOLUTIONS  
[www.triangularwave.com](http://www.triangularwave.com)

# Triangular Wave Technologies Home, Office, and Factory All-In-One Deposit Control & Purification System

The Triangular Wave Fluid Management System uses state-of-the-art filtration, advanced electronic deposit control, and ultraviolet disinfection technology to treat water in home, office, and factory environments.

The Triangular Wave System represents a significant breakthrough in electro-magnetic technology. The triangular wave has made possible the use of electromagnetic technology in home and office applications of all sizes.

## Factory Assembled & Mounted Fluid Management Systems

Applies all the needed elements for maximum fluid protection, management, and peace of mind in one simple packaged solution. State-of-the-art 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. TWT solutions are scalable to fit the volume you need - ask us to specify the system that works best for you!

## TWT Filtration

Filters are designed to trap various kinds of debris, dirt and organic particles that will otherwise enter your plumbing system, restrict your water flow and create a breeding ground for bacteria. Filtration is the first line of defense for residential and light commercial facilities located in and around rural areas, 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.

## TWT Microprocessor Deposit Control

The TWT Deposit Control System is an advanced method for controlling scale and bio-fouling in fluid based systems. The electronic deposit control technology uses a signal coil that is wrapped around a pipe in the plumbing system being treated. The signal coil produces an extremely small time-varying magnetic field inside the pipe. The resulting induced, oscillating electric field provides the necessary molecular agitation for chemical-free scale prevention and removal. Controls mineral and biological deposits, as well as corrosion in all fluid based systems. Once plumbed into the water system, the Triangular Wave System provides continuous and reliable water treatment.

## TWT PVC Reaction Chamber

Reaction Chambers are factory wrapped PVC pipe solenoids used in conjunction with the TWT Deposit Control System. The TWT Reaction Chambers are fully sealed, protecting their two layers of factory-wrapped coil. The PVC Reaction Chambers are designed and manufactured to meet the highest quality specifications.

## TWT-UV-250 Ultraviolet Disinfection System

The TWT-UV-250 sterilizer is ideally sized to provide safe, disease and pathogen-free water at point-of-entry. The effective kill rate of microorganisms, including bacteria and viruses is 99.9%. No chemicals are added and the pH balance of the water is unchanged. TWT sterilizers operate continuously, automatically, and are inexpensive to run. Source water does not require heating or cooling prior to sterilization. TWT sterilizers are easy to install and only require lamp replacement every 10 to 12 months. This is a simple ten minute procedure. **Rated Flow: 16 Liters per minute / 4 Gallons per minute**

## Pre 20 Micron Filtration Sediment Filter

A TWT sediment filtration device effectively removes *sediment and water-borne pollutants ranging from herbicides and pesticides to iron and manganese.*

## Pre Dual Media KDF / GAC Filter

Features dual media KDF-55 and Granular Activated Carbon. Designed to remove *chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulphur, herbicides, pesticides and trihalomethanes.*

## Post Sediment Filter

Final stage filtration for complete end-to-end protection.

***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.***



System components may change for specific models

## Components

1. TWT Reaction Chamber 2. TWT Deposit Controller 3. TWT Filters 4. TWT Ultraviolet Unit

## Optional Upgrades\*

5. TWT UV Monitor 6. TWT UV Hour Meter 7. TWT-MV-Filter Meter 8. TWT UV Alarm  
9. TWT Solenoid Shut-off Valve

## Easy Maintenance

## UV Replacement Lamps

Lamps should generally be replaced every 10 to 12 months, depending upon water quality and conditions.

## TWT Replacement Filters Cartridges

Replace filters when needed, generally twice a year, depending upon water quality and conditions.

## TWT-MD-1001 Triangular Wave Technologies Fluid Management System System includes one each of...

- TWT 10-inch Pre 20 Micron Filtration System
- TWT Deposit Controller
- TWT PVC Reaction Chamber
- UV-4 Disinfection System Rated Flow: 3.75 Liters per minute / 1 Gallon per minute

## Specifications:

Factory assembled and mounted; to be used with pipes up to one-inch

Dimensions 24" H X 24" L X 8" D • Weight approx. 25 lbs.

**In general, installation of the TWT Home/Office/Factory Water Treatment System should follow 3 steps:**

- Mount the system on appropriate support structure
- Plumb the system to piping up to 1" or less
- Connection of the system to electrical power

## Outdoor installation:

The Home/Office/Factory Water Treatment System is assembled on a mounting board. Select a suitable location; the system should be installed in an enclosure to shelter it from direct sunlight and direct precipitation. Temperature and humidity changes will not affect the operation of the system.

**\*Shut off valves owner/plumber installation**

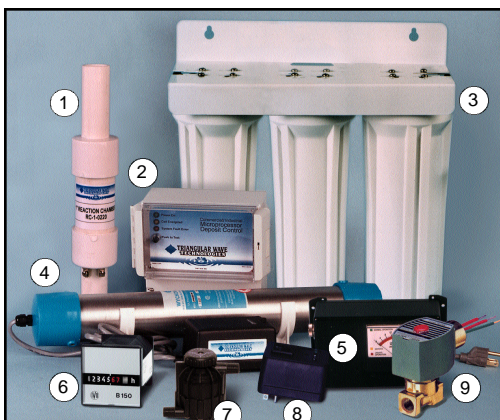
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FLUID MANAGEMENT SOLUTIONS  
www.triangularwave.com



**This fluid management system is a compact, self-contained, wall-mounted unit for the treatment of water in the medical / dental / laboratory / pharmaceutical environment.**

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#### Components\*

1. TWT Reaction Chamber
  2. TWT Deposit Controller
  3. TWT Filters
  4. Ultraviolet
- #### Optional Upgrades
5. UV Monitor
  6. UV Hour Meter
  7. TWT-MV-Filter Meter
  8. UV Alarm
  9. Solenoid Shut-off Valve

\*System components may change for specific models

### Specifications

#### Model TWT-5C8-Series Deposit Controllers

Residential/Commercial Deposit Control System with Reaction Chamber

#### TWT-RC-1-0221 Reaction Chamber

Factory wrapped 1 inch PVC pipe Solenoid Reaction Chamber for use with Microprocessor Deposit Control System.

#### TWT-MUC-102

Double Unit Water Filter System • Filtering capacity: 7,500 gal.

#### TWT-MUC-103

Triple Unit Water Filter System • Filtering capacity: 7,500 gal.



#### TWT-MD-1003 12 and above operatories

Rendering of Triangular Wave Technologies Fluid Management System. System consists of a Deposit Controller TWT-5C8-401 • TWT Reaction Chamber • UV-700 Disinfection System • TWT-MUC Filtration System

#### TWT-UV-700

Rated Flow: 30 Liters per minute / 8 Gallons per minute • U.V. Dose @ Maximum Flow: 21,400 mw/sec/cm2  
Electrical Supply: 120V/60Hz/3 Amp/240V/50Hz/2 Amp / Power Consumption: 36 Watt / Maximum Operating Temperature: 37C (98.6F) / Maximum Operating Pressure: 125 psi - 8 Bar / Plumbing: 3/4" N.P.T. In-Out / Size: 38" x 6" x 3" (97 cm x 15cm x 7.5cm) Weight: 8 lbs (3.5 kg) / Body: 316 Stainless Steel

**Specifications:** Factory assembled and mounted 42" H x 36" W x 8" D • Weight: approx. 40 lbs.

### Optional Upgrades upon request for units TWT-MD-1001 / 1002 / 1003\*\*\*

#### TWT-MV Meter Valve – factory only upgrade\*\*\*

Provides an automatic signal and shut off when it is time to reset and/or change the filters.

#### TWT-UV-Monitor lamp Output / TWT-UV-AA Alarm / TWT-UV-Hour Meter\*\*\*

Monitoring system "heads up" warning that the UV lamp is due for replacement.

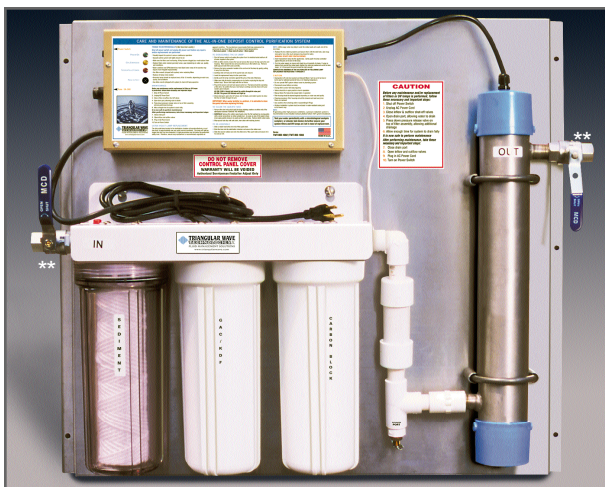
#### TWT-SV Solenoid Shut-Off Valve\*\*\*

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

\*\*\*Factory only upgrade - specify at time of purchase only

**Triangular Wave Technologies, Inc. is dedicated to complete fluid management solutions, utilizing state-of-the-art technology and products. All components of our systems are selected and assembled to conform with universally recognized design standards for electrical, plumbing and environmental needs. Long term performance is ensured by our strict Quality Control methods.**

For additional information visit our Web Site at [www.triangularwave.com](http://www.triangularwave.com)



#### TWT-MD-1002 Up to 12 operatories

Triangular Wave Technologies Fluid Management System. System consists of a Deposit Controller TWT-5C8-472 • TWT Reaction Chamber • UV-250 Disinfection System and TWT-MUC Filtration System

#### TWT-UV-250

Rated Flow: 16 Liters per minute / 4 Gallons per minute • U.V. Dose @ Rated Flow: 31,500 mw/sec/cm2  
Maximum Flow: 22 liters per minute / 5 Gallons per minute • U.V. Dose @ Maximum Flow: 22,500 mw/sec/cm2  
• Power Consumption: 72 Watt • Maximum Operating Temperature: 37C (98.6F) • Maximum Operating Pressure: 100psi - 7 Bar • Plumbing: N.P.T. • Body: 316 Stainless Steel

**Specifications:** Factory assembled and mounted 24" H x 26.5" W x 8" D • Weight: approx. 30 lbs.



#### TWT-MD-1001 Point of use

Triangular Wave Technologies Water Fluid Management System. System consists of a Deposit Controller TWT-5C8-471 • TWT Reaction Chamber • UV-4 Disinfection System and TWT-MUC Filtration System

#### TWT-UV-4

Rated Flow: 3.75 Liters per minute/1 Gallon per minute • U.V. Dose @ Rated Flow: 29,500 mw/sec/cm2  
Maximum Flow: 5.8 Liters per minute • U.V. Dose @ Maximum Flow: 18,500 mw/sec/cm2  
• Power Consumption: 12 Watt • Maximum Operating Temperature: 37C Maximum Operating Pressure: 100 psi - 7 Bar • Plumbing: 1/4" N.P.T. In-Out • Body: 316 Stainless Steel

**Specifications:** Factory assembled and mounted 24" H x 22" W x 8" D • Weight: approx. 25 lbs.

**Note:** Above systems are fully integrated and factory assembled and mounted, offering end to end fluid management and treatment solutions, systems are designed for installation on pipes 1-inch or less

System engineering design, weight and system component assembly may vary based on application and industry specific needs

**\*\*Shut off valves owner/plumber installation**

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