

TWT HEALTHY HOME CLEAN WATER SOLUTION...

Protect your family with Triangular Wave Technologies Patented Water Treatment, Purification and Filtration Systems. Your simple and safe solution for all your cooking, drinking and bathing needs.

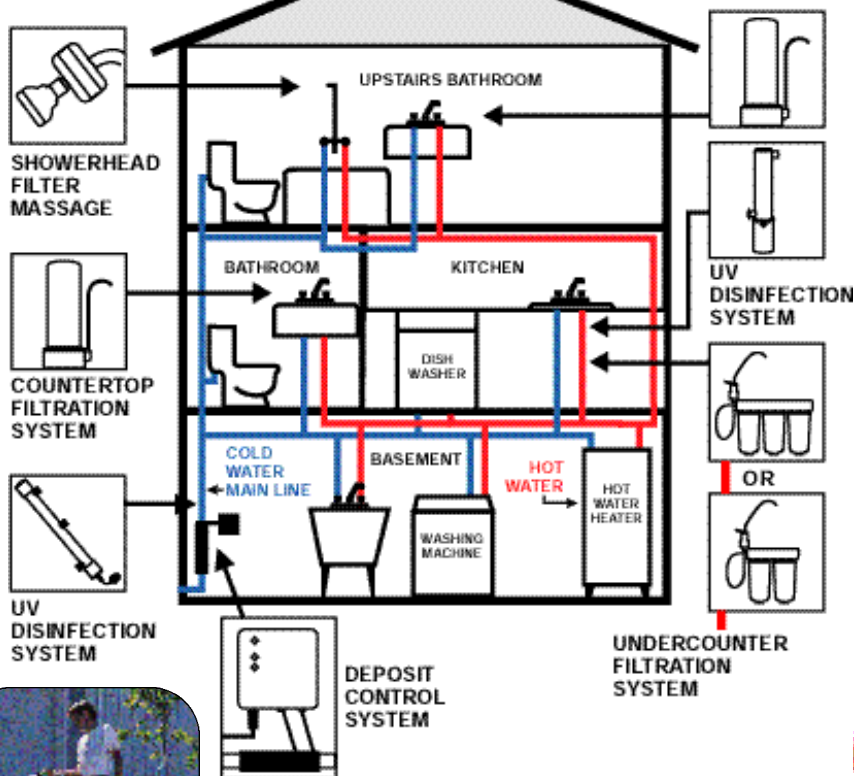
TWT Suggested Water Treatment Applications

Restore Quality, Taste And Clarity

No need to lift, carry, buy or store heavy water bottles

Do It Yourself

Easy To Install



OUTSIDE
Reduced spotting on cars



LAWNS & GARDENS
Lawns & gardens grow better with less water



Improve the quality and taste of water at home and office
Why spend hundreds of dollars for bottled water?
Do you really want to carry, lift and store bottled water?



Water is one of the most precious and yet potentially most abused or dangerous substances. Clean water is absolutely essential to human health. There are three basic causes of water/fluid related problems...

- Scale:**
- Loss of heat transfer efficiency
 - Flow restriction in pipes and frozen valves
 - Back pressure increases energy needed to pump
 - Reduced reaction vessel capacity
 - Localized corrosion
 - Visible surface scale objectionable

- Biofilm:**
- Loss of heat transfer efficiency
 - General corrosion
 - Biocorrosion (both general and local)
 - Sludge
 - Disease and odors
 - Bacteria, Algae, Fungus, etc.

Adverse Water Chemistry: • General corrosion

The End Results of Water Problems

- Wasted water • Ruined equipment • High energy costs
- Productivity losses • Product contamination or quality problems
- Disease and odor in the water environment

TREATMENT

The bottom line is that if the problem causing materials are controlled, then 85% to 90% of the problems are eliminated. Treatment options include removal and control. The most effective systems utilize a variety of both removal and control methods depending upon the specific nature of the water being treated and its intended use. These combinations of various techniques can be arranged to effectively solve your specific problems and designed to function together in a way that will enhance the effectiveness of each component in achieving the desired results.

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. They are the first line of defense for residential / 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 primary filtration device, that effectively removes particulate matter and similar debris. A TWT Sediment Filter effectively removes sediment and water-borne pollutants ranging from herbicides and pesticides to iron and manganese.

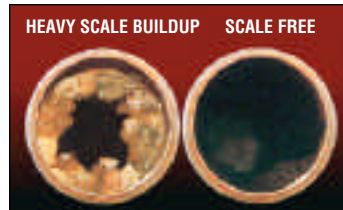
Other TWT filter systems employ patented KDF technology. The filters provide a bacteriostatic environment and are designed to remove chlorine, lead, volatile organic chemicals, hydrogen sulfide and sulfur, herbicides, pesticides, chemical fertilizer residues, Trihalomethanes, MTBE, and many other pollutants.

The filters remove odors and restore clarity to municipally treated drinking water. The filters use KDF process media, which is a specially formulated copper/zinc alloy media. The KDF is used in conjunction with carbon block filters, granular activated carbon filters, and sediment filters. They all combine to provide highly effective protection.

DEPOSIT CONTROL SYSTEM

A means to control the substances in your water supply that will result in deposit buildup in your pipes and in your water-fed appliances. The TWT Deposit Control system, comprised of a microprocessor unit and a solenoid coil (either an on-site wrap or a factory wrapped reaction chamber), provides an array of benefits:

- Removes and prevents scale build-up and bio-film deposits (descalses entire plumbing system over time).
- Improves efficiency of all water-fed appliances and extends their useful life (saves 5% to 30% on water heating bills).
- Provides the effects of softened water with out the harsh chemicals by neutralizing calcium hardness effects in water, and leaving in the beneficial minerals.
- Non-invasive, safe and maintenance-free.
- Pays for itself quickly and provides continuous savings throughout its life.
- Controls algae and bacteria (they are dispersed in the water and prevented from attaching to surfaces where they feed and reproduce), thus eliminating damage to vessel surfaces from bio-growth.
- In effect, a clean, bio-film, corrosion-free plumbing system is restored and maintained in a environmentally safe, responsible, and chemical-free manner.
- Neutralizes hardness effects in the water without using chemicals-provides the positives of softened water without the negative effects.
- Improved ability of soap to lather and rinse in all process bathing, laundering, dishwashing, etc.; the soap formula can "complete" and rinse out properly, where it could not before.
- Pennies per day to operate.
- Easy to install.
- Moves when you do
- Uses NO salts or other CHEMICALS.



Eliminates deposits in pipes, fixtures and equipment.



PURIFICATION AND/OR DISINFECTION SYSTEMS

As an important health measure, all households or facilities should include on-site purification and/or disinfection components as part of their treatment systems. In residential locations that lack adequate purification methods for treating water-borne microorganisms (bacteria, viruses, etc.), or when existing systems are poorly managed, ultraviolet disinfection produces water that effectively kills 99.9% of these health-threatening microorganisms.

RESIDENTIAL APPLICATIONS for HOMES, APARTMENTS and CONDOMINIUMS

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Typical problems and/or concerns in household water systems resulting from contaminated (hard) water.

- Unpleasant taste of drinking water (chlorine, fishy, stale, etc.).
- Spotting on dishes or glassware.
- Clothes and linens are stiff, do not come clean.
- High cost of heating water due to corrosion and buildup in elements.
- Clogging of lines and inadequate performance of appliances such as dishwashers, washing machines, and showers, and excessive use of soaps, detergents.
- Inadequate performance of heating, ventilation or air conditioning.
- Lawn and garden watering does not produce desired root growth nor satisfactory plant production.
- Pools and spas, decorative water features and aquariums require excessive chemical treatment and maintenance.

The Triangular Wave Technologies systems improve virtually all these conditions and produce high quality water for the entire household. A complete Triangular Wave Technologies system may utilize all or only some of the following items, depending upon the nature of the problems.

Solutions:

A. Filtration

For residences located in rural areas where the source of household 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 primary filtration device, that effectively removes particulate matter and similar debris.

- **The ultimate method is via the Whole House Water Filtration System (a dual tank system that provides extraordinary performance and longevity of service).**
- **The second method is via point-of-use filtration units at water taps in the kitchen and bathroom, and showerhead filters in the bath.**

All of these filtration methods employ the patented KDF technology. They provide a bacteriostatic environment and are designed to remove chlorine, lead, volatile organic chemicals, hydrogen sulfide and sulfur, herbicides, pesticides, chemical fertilizer residues, trihalomethanes and many other pollutants. These filters remove odor and restore the taste and clarity of municipally treated water. They are comprised of KDF, a specially formulated copper/zinc alloy media, and GAC, granular activated carbon, which combine to provide a highly effective filtration system. In comparison, some filtration systems eliminate only a portion of these pollutants. In addition, some of these systems contain filters that must be changed frequently (every few months). The Triangular Wave Technologies point-of-use filters effectively treat 7,500 gallons or more (nearly a 2 year supply of water for the average household), and the Whole House Unit filters in excess of two million gallons. Removing the chlorine is a particularly strong health advantage. These treatment steps provide a safe system for household water. However, all steps may not be required depending upon the specific conditions. A buyer may only wish to employ point-of-use filtration. Or if the user is confident that his water supply comes from a well-managed municipal system, he may eliminate the sediment filter and the ultraviolet treatment. All households can benefit from installation of the Triangular Wave Technologies Deposit Control System as a basic of protection.

B. Deposit Control

The TWT Deposit Control System, comprised of a microprocessor unit and a solenoid coil (either an on-site wrap or a factory wrapped reaction chamber), provides an array of benefits:

- **Removes and prevents scale build-up and bio-film deposits (descales entire plumbing system over time).**
- **Improves efficiency of all water-fed appliances and extends their useful life (saves 5% to 30% on water heating bills).**
- **Provides the effects of softened water without harsh chemicals while neutralizing calcium hardness effects in water, and leaving in the beneficial minerals.**
- **Less scum formed on the bathtub and an improved soap lather.**
- **Eliminates septic bed toxic salt poisoning.**
- **Requires minimum space.**
- **Requires only \$10-\$14 per year of electricity.**
- **Non-invasive, safe and maintenance-free.**
- **Pays for itself quickly and provides continuous savings throughout its life.**
- **Controls algae and bacteria (they are dispersed in the water and prevented from attaching to surfaces where they feed and reproduce), thus eliminating damage to vessel surfaces from bio-growth.**
- **In effect, a clean, bio-film, corrosion-free plumbing system is restored and maintained in an environmentally safe, responsible, and chemical-free manner.**

C. Purification

In residential locations lacking adequate treatment systems with effective purification methods for treating water-borne microorganisms (bacteria, viruses, etc.) that threaten health, or when existing systems are inadequate or poorly managed, the ultraviolet method of purification produces water that is disease and pathogen-free. It effectively kills 99.9% of microorganisms including bacteria and viruses. The UV lamp requires replacement every 10 to 12 months (a simple 10 minute procedure).

TWT Advanced, Chemical-Free Comprehensive Water Treatment Systems for Your Whole House... Your Safe and Simple Solution!

TWT Healthy Home Configurations



Basic Filtration Protection

TWT Point of Use Filtration Products

- Protect Your Drinking Water
- Guard Against Lead and Chlorine
- Reduce By-Product Damage to Clothes and Skin

Comprehensive Filtration Protection

TWT Whole House Filtration System offers complete filtration treatment of your entire interior plumbing system, when installed at the point of entry



Enhanced Appliance and Pipe Protection

TWT Deposit Control Products

- Reduce scale and lime deposits that cause corrosion & bio-film in pipes and fixtures
- Reduce visible spotting
- Reduce habitats for bacteria development
- Keep your water-fed appliances, boilers, and water heaters working efficiently and increase their functional life
- Reduce your energy, water, and sewer costs



Enhanced Ultraviolet Bacteria Control

- Kill 99.9% of bacteria and viruses
- Immediate treatment process
- Environmentally friendly, no chemicals are added
- No handling of toxic chemicals
- Extremely economical - treat 100s of gallons for pennies of operating cost
- Low power consumption • Easy installation
- More effective against viruses than chlorine



Comprehensive Whole House Protection

TWT Whole House Treatment Systems

- Combine the TWT Whole House Filtration System with TWT Deposit Control for thorough protection of your drinking and household use water, as well as your pipes and appliances
- Add TWT Ultraviolet Disinfection for the ultimate in comprehensive water treatment protection



With Our Versatile Fluid Management Systems You Can Effectively Meet The Needs Of Any Application...Protect Your Investments! Your Family And Your Home!

TWT is the leader in chemical-free water treatment technology, based on its patented Triangular Wave deposit control technology

Deposit Control • Filtration • Purification • Disinfection

Deposit Control System



TWT-5C8-470 Patented Microprocessor Deposit Control System

Controls scale deposits, biofilm, corrosion, algae and colloids in all fluid-based systems. Once installed on the pipe, the Triangular Wave System provides continuous and reliable water treatment. Our microprocessor uses no salts or other chemicals. Extends the life span of water appliances and eliminates septic bed toxic salt poisoning. For pipes upto 3/4"



TWT-5C8-471 Patented Microprocessor Deposit Control System Controls scale deposits, biofilm, corrosion, algae and colloids in all fluid-based systems. Once installed on the pipe, the Triangular Wave System provides continuous and reliable water treatment. Our microprocessor uses no salts or other chemicals. Extends the life span of water appliances and eliminates septic bed toxic salt poisoning. For pipes upto 1"

Copper Pipe Signal Enhancer



TWT-CSE-0227 (For copper pipes up to two inches in diameter) This unit is placed between the controller and the copper pipe solenoid to provide a proper impedance match and to ensure maximum energy transfer between the controller and the solenoid, which ensures enhanced treatment of the fluid. The Copper Pipe Signal

Enhancer must be used in all copper pipe applications to maximize the performance, and provide a boost to your application. The copper signal enhancer is a passive signal / impedance matching circuit. This device provides a power boost to the conditioning signal in copper pipes.

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

TWT-5C8-470 Deposit Controller & Onsite Wrap for Tube and Pipe 3/4" or Less

TWT-CSE-0227 Copper Pipe Signal Enhancer for Tube & Pipe 2" or Less



Ultraviolet Disinfection



TWT-UV-4 Ultraviolet Disinfection System

Triangular Wave Technologies TWT-UV-4 Ultraviolet Disinfection System is ideal for protecting drinking water from the threat of bacterial contamination. This Ultraviolet sterilizer destroys bacteria and viruses with an effective kill rate of 99.9%. Installed in conjunction with the Deposit Control Treatment System.

Rated Flow: 3.75 Liters per minute
1 Gallon per minute



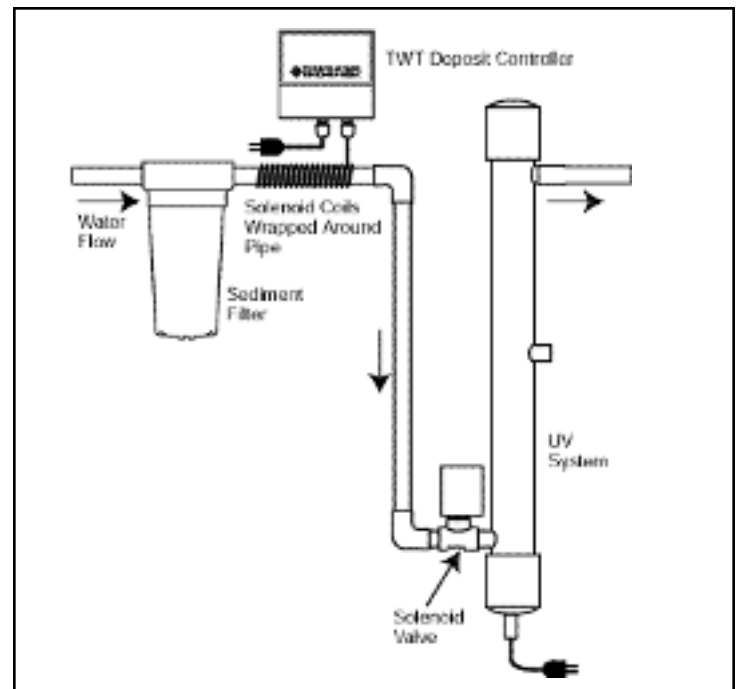
TWT-UV-250 Ultraviolet Disinfection System

Triangular Wave Technologies TWT-UV-4 Ultraviolet Disinfection System is ideal for protecting drinking water from the threat of bacterial contamination. This Ultraviolet sterilizer destroys bacteria and viruses with an effective kill rate of 99.9%. Installed in conjunction with the Deposit Control Treatment System.

Rated Flow: 16 Liters per minute
4 Gallons per minute

Recommended configuration for combined use of TWT Filtration, Ultraviolet Disinfection and Deposit Control Systems

All the needed elements for maximum fluid protection, management, and peace of mind in one simple packaged solution. State-of-the-art Microprocessor Deposit Controller, Solenoid Coil 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!

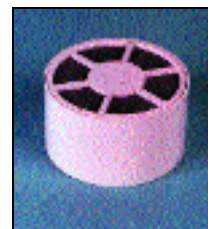


Filtration Products



TWT-SLM Shower Head Filter System

The patented slim-line Pulsating /Massaging showerhead for a more refreshing shower. Designed especially for filtering chlorine, chlorine byproducts, dirt, and odors from your shower water. For softer skin and more manageable hair.



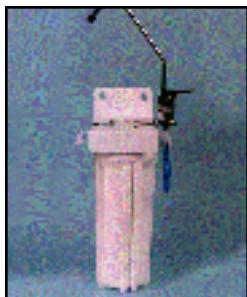
TWT-SLM -RC
Shower Head Replacement cartridge



TWT-MCT-101

(Slim-Line Design, Conserves Counter Space)

The Counter Top Water Filter System restores taste and clarity to municipally treated water and removes foul, odors. With its dual filter media, is designed to remove lead, mercury, iron, and other heavy metals. The KDF-55 and granulated carbon removes 98% of...**Chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulphur, herbicides, pesticides and trihalomethanes.**



TWT-MUC-101 (Ideal for Kitchens, Bath Rooms)

The Triangular Wave Technologies 1 Under Counter Filter System features dual media KDF-55 and Granular Activated Carbon. Designed to remove **chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulphur, herbicides, pesticides and trihalomethanes.** Optional meter valves to provide automatic shut off and signals when to change filters are available.



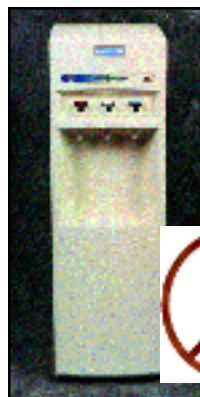
TWT-MUC-102 (Ideal for Kitchens, Bath Rooms)

The Triangular Wave Technologies 2 Under Counter Filter System features dual media KDF-55/Granular Activated Carbon Filter and extruded Carbon Activated Block Filter. Designed to remove **chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulphur, herbicides, pesticides and trihalomethanes.**



TWT-MUC-103 (Ideal for Bars, Kitchens, Offices & Break Rooms)

The Triangular Wave Technologies 3 Under Counter Filter System features sediment filter, dual media KDF-55/Granular Activated Carbon filter and extruded Carbon Activated Block Filter. It is designed to remove **chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulphur, herbicides, pesticides and trihalomethanes.**



BOTTLELESS WATER COOLER

TWT-WCH (Cold & Room Temperature/Hot Water)

TWT-WC (Cold & Room Temperature)

No need to lift, carry, buy or store heavy water bottles. Our patented filter system removes **chlorine, lead and volatile organic chemicals, removes foul odors and restores taste and clarity.**

All in one unit. Requires a standard water line and electrical outlet. Ideal for kitchens, dens, offices, wet bars, etc.



TWT-FH4200SF20
Sediment Filter and Housing Unit



REPLACEMENT FILTERS:

Replacement Filters are available upon request for all systems illustrated.

**TWT manufactures and supplies
treatment products and processes that allow you to
design a comprehensive treatment program for your
home or facility. We are committed to helping you
maintain the highest levels of satisfaction and safety.**

**Bringing You the Best
in Fluid Management Solutions**

To find out even more about us, and how we can help you, contact us at:
Email: info@triangularwave.com or write to: Triangular Wave Technologies, Inc.
85 Chestnut Ridge Road • Montvale, NJ 07645 USA • Fax: 201-573-8710

The patented slim-line massage showerhead with our easy replacement filter. Designed especially for filtering chlorine, chlorine byproducts, dirt, and odors from your shower water.



Shower Head Filter System

TWT-SLM

White Finish Shower Head Filter System

TWT-SLMC

Chrome Finish Shower Head Filter System

TWT-SLMG

Gold Finish Shower Head Filter System

Size: 4" X 4" X 7"

Weight: 15 oz.

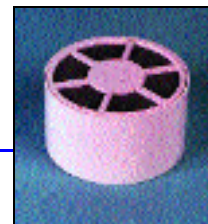
Operating Pressure: 60 to 100 PSI



TWT-SLM-RC

Shower Head Replacement cartridge

2 3/4" X 1 5/8"



TWT-ILF-100

In-line 1/4" quick connect both ends.

Includes mounting clip • Filter media GAC/KDF

Size: 12" X 2"

Operating Pressure: 60 to 100 PSI



TWT-MCT-101

The Counter Top Water Filter System with its dual filter media, is designed to remove lead, mercury, iron, and other heavy metals. The KDF-55 and granulated carbon removes 98% of...

Chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulphur, herbicides, pesticides and trihalomethanes

TWT-MCTC-101

Chrome Finish Counter Top Filter System

Size: 5 1/2" X 5 1/2" X 12"

Weight: 3.5 lbs.

Operating Pressure: 60 to 100 PSI



TWT-101-RC

Counter Top Replacement Filter Cartridge Features the dual filter media of patented KDF-55 and extruded activated carbon block.

Size: 2 1/2" X 9 7/8"

Weight : 2 lbs.



Bottleless Water Cooler with cold, hot and room temperature dispensing. Our patented filter system removes chlorine, lead and volatile organic chemicals, all in one unit. Requires a standard water line and electrical outlet.

TWT-WC

Water Cooler • Cold & Room Temperature Water

TWT-WCH

Water Cooler • Cold/Room Temperature/Hot Water

Size: 12"W X 13" D X 39" H • Weight: 55 lbs.

Operating Pressure: 60 to 100 PSI



TWT-102-RC

20 Micron Replacement Filter Cartridges. Features a sediment filter, the dual filter media of patented KDF-55 and granulated activated carbon.

Weight: 15 lbs.

The Triangular Wave Technologies Under Counter filter system is designed to remove *chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulphur, herbicides, pesticides and trihalomethanes.*

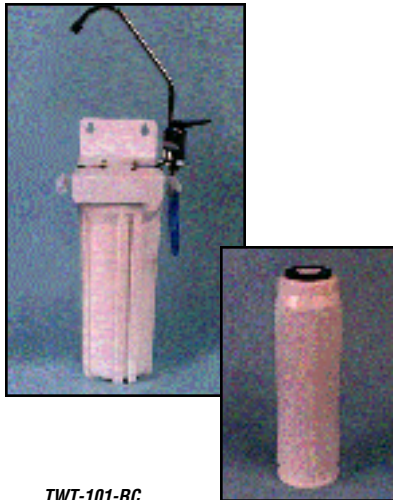
TWT-MUC-101

Single Unit Under Counter Water Filter System

Size: 8" X 15" X 6" • Weight: 5 lbs.

Filtering capacity: 7500 gal.

Operating Pressure: 60 to 100 PSI

**TWT-101-RC**

Single Unit Under Counter Replacement Filter Cartridge
Features the dual filter media of patented KDF-55 and granular activated carbon.

Size: 2 1/2" X 9 7/8"

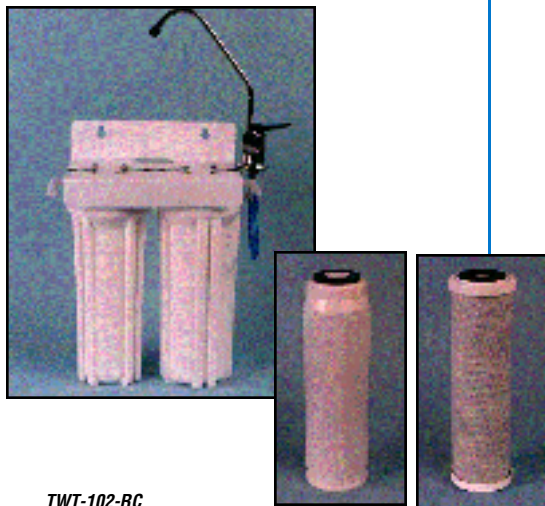
TWT-MUC-102

Double Unit Under Counter Water Filter System

Size: 15" X 15" X 6" • Weight: 9 lbs.

Filtering capacity: 7500 gal.

Operating Pressure: 60 to 100 PSI

**TWT-102-RC**

Double Unit Under Counter Replacement Filter Cartridge
Features the dual filter media of patented KDF-55 and extruded activated carbon block.

Size: 2 1/2" X 9 7/8"

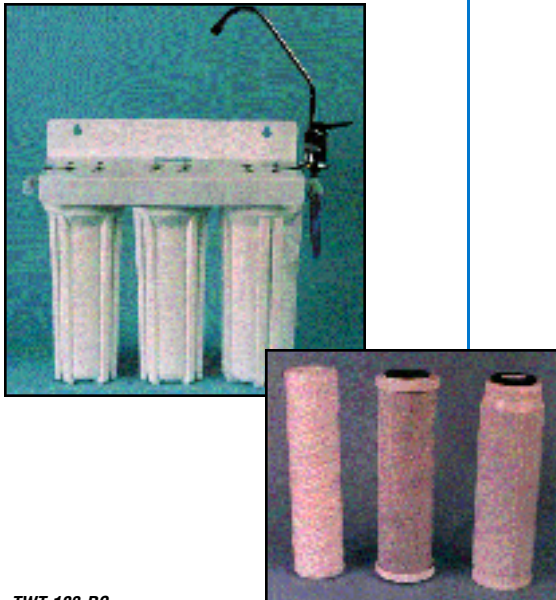
TWT-MUC-103

Triple Unit Under Counter Water Filter System

Size: 20" X 15" X 6" • Weight: 12 lbs.

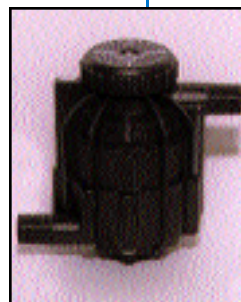
Filtering capacity: 7500 gal.

Operating Pressure: 60 to 100 PSI

**TWT-103-RC**

Triple Unit Under Counter Replacement Filter Cartridge
Features a sediment filter, the dual filter media of patented KDF-55 and granular activated carbon, and a final extruded activated carbon block filter.

Size: 2 1/2" X 9 7/8"

**TWT-MV**

Meter Valve

The optional patented meter valve, located on the top right side of the Under Counter Water Filter System. Provides automatic shut off and signals when to change filters.

Size: 3" X 3" X 4"

Weight: 1 lb.

Large capacity filters available upon request.

HARD WATER PROBLEMS SOLVED EASILY!

Triangular Wave Technologies Advanced, Chemical-Free Comprehensive Whole House Water Filtration System... Your Simple And Safe Solution!

- Salt and Chemical-Free Water Conditioning
- Pennies Per Day to Operate
- Controls Algae and Bacteria
- Reduces Soap Scum and Improves Lather of Soap
- Reduces Detergent and Soap Use
- Reduces Effects of Hard Water on Skin and Clothes
- Removes Existing Scale on Heat Exchangers Over Time, Which Improves Heat Transfer for Greater Efficiency
- No Moving Parts
- Cost Effective
- Performance and Durability Guaranteed
- Eliminates Deposits in Pipes, and Fixtures
- Controls Scale and Bio-fouling in Water Fed Appliances
- Cleaner Water is Healthier Water



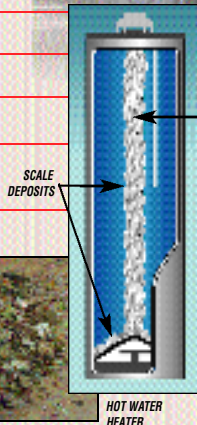
ELIMINATE DEPOSITS IN PIPES, FIXTURES & EQUIPMENT

CLEANER, FRESHER & TASTIER WATER FOR DRINKING AND COOKING

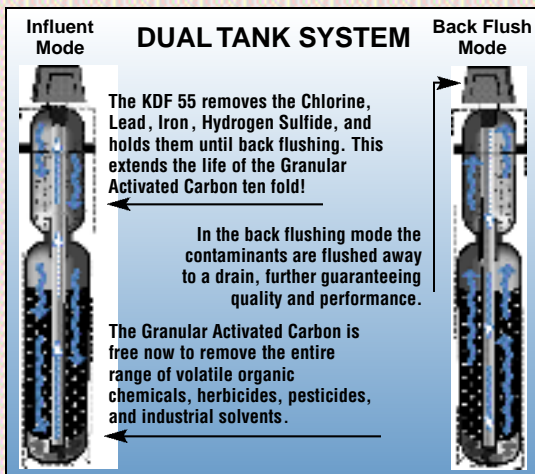
REDUCES SPOTTING ON CARS

LAWNS AND GARDENS GROW BETTER WITH LESS WATER

Pounds of scale removed from a 40 gallon hot water heater



- The Whole House Water Filtration System Is Designed To Remove Chlorine, Lead, Volatile Chemicals, Hydrogen Sulfide, Sulfur, Herbicides, Pesticides and Trihalomethanes



The unique and patented Dual Tank Distributor System, enables TWT Whole House Filter System to offer extraordinary performance and longevity!

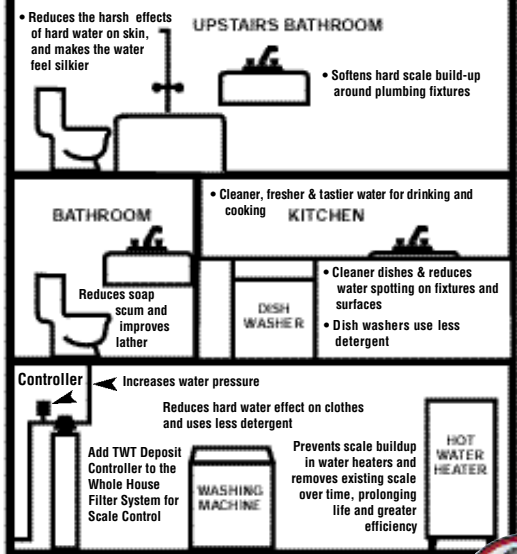
- Dechlorinates in excess of Two Million Gallons of Water.
- Patented KDF Media removes chlorine and heavy metals and extends the life of the Granular Activated Carbon ten fold.
- Granular Activated Carbon removes pesticides, herbicides, trihalomethanes, asbestos, and turbidity.
- Restores the taste, odor, and clarity of municipally treated water.
- Rechargeable by back flushing. Carbon only should be inexpensively recharged every three or four years.
- Provides a bacteriostatic environment.



FIELD TESTED AND PROVEN EFFECTIVE

TRIANGULAR WAVE TECHNOLOGIES, INC. **HEALTHY HOME**

FLUID MANAGEMENT SYSTEMS
Versatile Fluid Management Systems To Effectively Meet The Needs Of Any Application...Protect Your Investments! Family, Home and Equipment!
For the complete line of products visit www.triangularwave.com



State-of-the-art electronic deposit controller provides continuous scale and bio-film control in fluid systems.



The Triangular Wave Technologies Whole House filter system is designed to remove **chlorine, lead, volatile organic chemicals, hydrogen sulfide, sulphur, herbicides, pesticides and trihalomethanes.**



TWT-WF
Whole House Water Filter

Size: 63" H X 12" Round
Weight: 100 lbs.
Operating Pressure: 60 to 100 PSI

Whole House Filtration Solutions

The ultimate method of protection for your home and family, the Whole House Water Filtration System is a dual tank system that provides extraordinary performance and longevity of service.

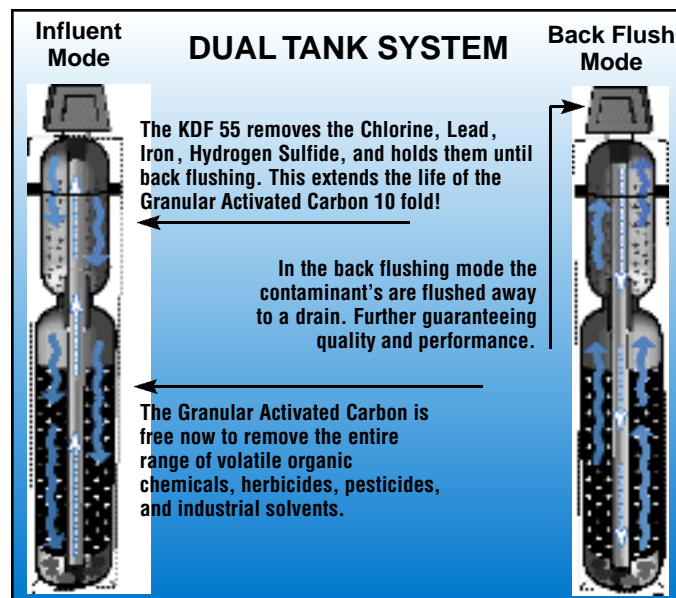
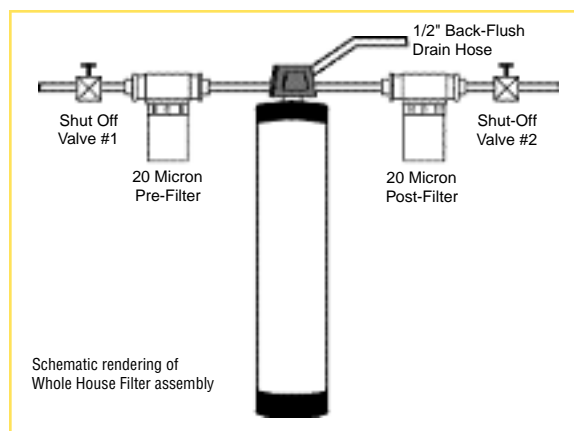
Like the other TWT filtration methods, the TWT Whole House Water Treatment System employs patented KDF technology. The system and media provide a bacteriostatic environment designed to remove chlorine, lead, volatile organic chemicals, hydrogen sulfide and sulphur, herbicides, pesticides, chemical fertilizer residues, trihalomethanes, and many other pollutants. These filters remove odor and restore the taste and clarity of municipally treated water.

Where hard water conditions exist, the system...

- Improves water quality and taste
- Reduces electricity usage, allows more efficient heating operation
- Reduces detergent and soap consumption



Included in the Whole House Unit
TWT-FH4200SF20
Clear Filter Housing and 20 Micron Sediment Cartridge Unit



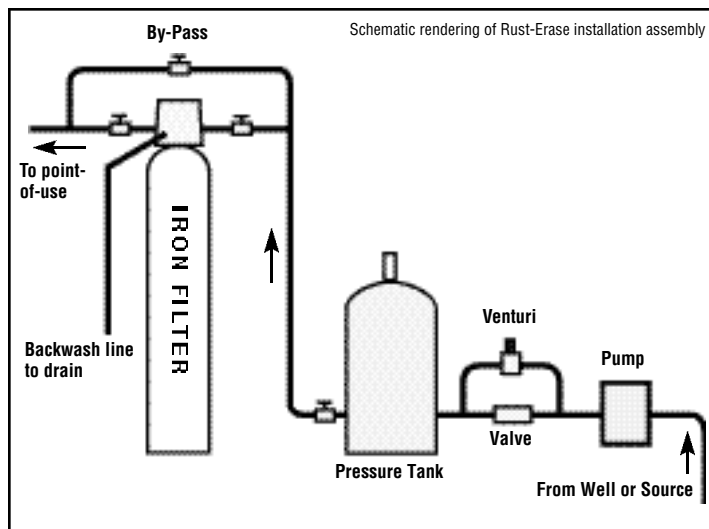
RUST-ERASE IRON FILTRATION SYSTEM



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.

TWT-RE
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: 3/4" and 1" N.P.T. In-Out
Back-wash Connection: 1/2" N.P.T.
Size: 63" high X 10" diameter (157 .5cm X25cm)
Weight: 100 lbs.

Note: Other voltage source available upon request.

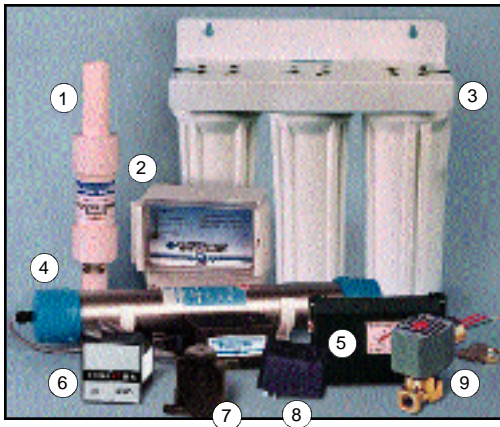


TWT Chemical-Free Home/Office All-In-One Deposit Control & Purification System

This unique fluid management system is a compact, self-contained, wall-mounted unit for the safe, chemical-free treatment of water in home and office environments.

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!



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

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-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

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

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

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.

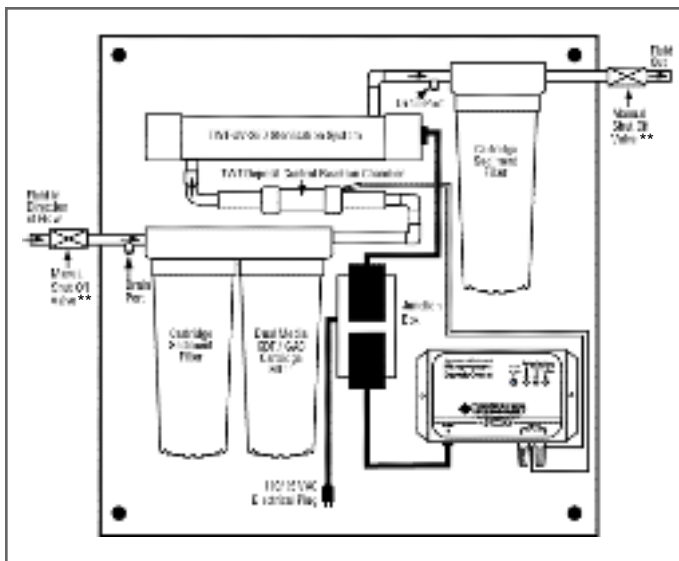
TWT-SV Solenoid Shut-Off Valve*

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

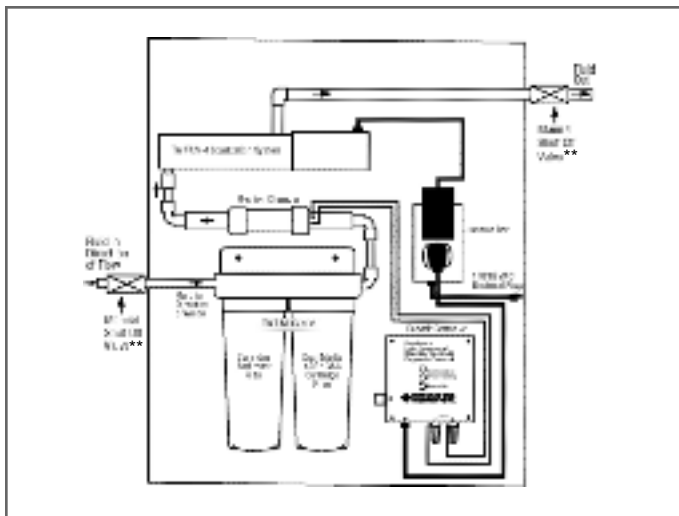


TWT-MD-1002

Triangular Wave Technologies Fluid Management System. System consists of a ...

TWT Deposit Controller • TWT Reaction Chamber • UV Disinfection System and TWT-MUC Filtration System

Specifications: Factory assembled and mounted 24" H X 24" L X 8" D • Weight 30 lbs.



TWT-MD-1001

Triangular Wave Technologies Water Fluid Management System. System consists of a ...

• TWT Deposit Controller • TWT Reaction Chamber • UV Disinfection System

• TWT-MUC Filtration System

Specifications: Factory assembled and mounted 24" H X 18" L X 8" D • Weight 25 lbs.

*****Not included, owner/plumber responsibility***

SPARKLING CLEAR ALGAE-FREE WATER

The Triangular Wave Technologies Enhanced Control Pool Management System



Easy on the Eyes

Gain peace of mind with TWT Enhanced Control Pool Management Systems, the chemical-free, safe and easy way to enjoy your pool and spa season! Your backyard pool is a place for relaxation. Everyone wants to avoid problems with his or her pool, and also with the effects of handling, storing, and swimming in harsh chemicals and treated water. TWT has the solution for both!

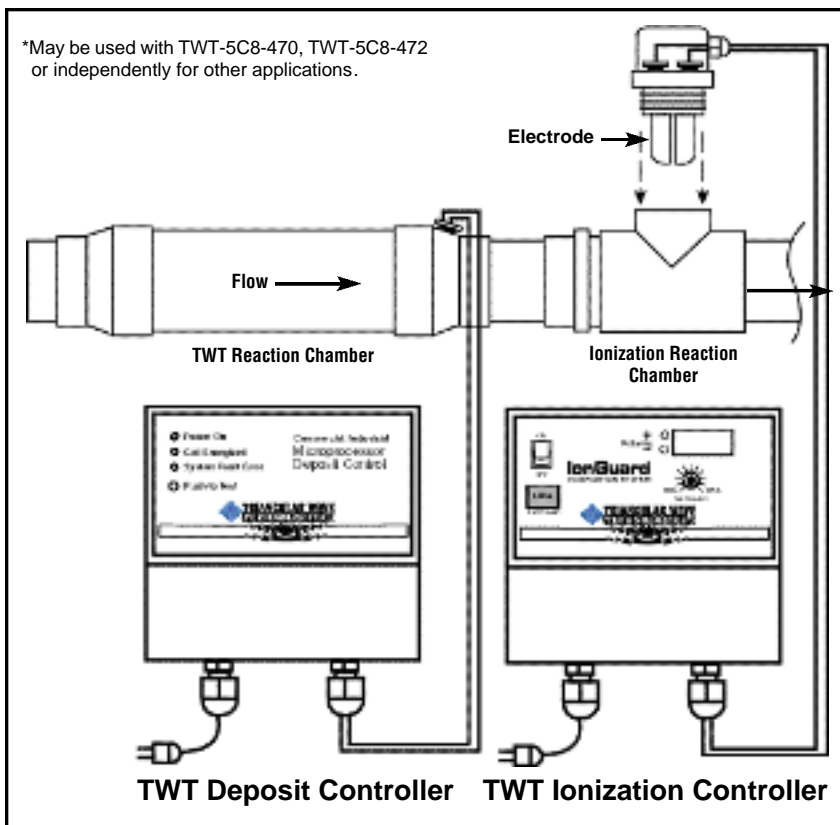
Super Sparkling Water

The Enhanced Control Pool Management System works with your existing pool filter and pump systems to control deposits and purify the water, killing and removing harmful bacteria and algae, and preventing corrosion

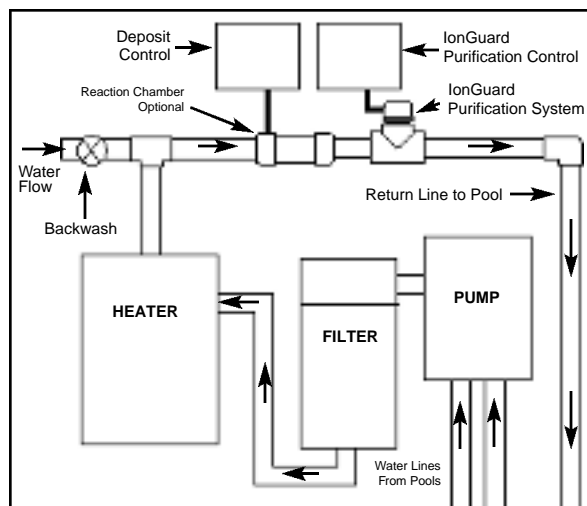
and deterioration of your pipes and equipment. Reduce your chemical treatments and maintenance efforts by 80% or more, and make your swimming experience safe, fun, and environmentally friendly.

- *Protect your water lines and equipment from algae, bacteria, and corrosion*
- *Protect your pool investment from the harsh effects of chemicals*
- *Lower your electric bills*





TWT Deposit Control/Ionization Purification System 2-inch Ionization Unit with Integrated* TWT-5C8-402



Typical installation overview of equipment room



Triangular Wave Technologies Microprocessor Deposit Control Unit TWT-402, IonGuard Ionization Disinfection System TWT-ID-02 and a Factory Wrapped 2" Industrial PVC Reaction Chamber TWT-IRC-02

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. Copper ions kill algae and silver ions kill bacteria. An ion is merely an electronically charged atom or group of atoms. An atom acquires this charge by gaining or losing electrons. Negatively charged electrons are one of the three major subatomic particles, the others being protons, which have a positive charge, and neutrons, which have no charge.

Ions in the Triangular Wave System are positively charged; algae, bacteria and other particles in the water are negatively charged. The positive to negative attraction allows the ions to attach to the organisms, penetrate their cell walls, and kill them. 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 PVC housing designed for easy access.

When the system is used in conjunction with a filter, the dead bacteria with the silver ion attached will be large enough for the filter

to remove. Normal filter backwashing will then remove the dead particles. The criteria for copper and silver in water are as follows: The EPA standard for drinking water is 1.0 ppm (parts per million) maximum for copper and 50 ppb (parts per billion) maximum for silver. The system is programmed so that a water test showing 0.25 ppm to 0.35 ppm copper automatically provides the proper ratio of silver. This will produce drinking water quality in any water system treated. The TWT treatment requires no chemicals in its function of controlling algae and bacteria.

A "current source" generator powers the IonGuard Purification System. Other manufacturers use "voltage source" generators to power their ionization units. In all ionization units, copper and silver ions plate off of the electrodes and enter the water. Over time, the electrodes will become smaller, and the gap between the electrodes will become larger. TWT's current source generator will automatically compensate for the change in gap size, while voltage source generators must be manually inspected and adjusted. The current source generators in the TWT IonGuard Systems offer trouble free operation. We recommend that the IonGuard Purification System be installed down-

stream of a TWT Deposit Control System. The Deposit Controller will keep the IonGuard System electrodes free of scale and other deposits for more effective results. At the same time, the Deposit Control System will help eliminate scale and biofilm deposits throughout the entire water system.

Without the TWT Deposit Control System in place, ionization electrodes may develop either a layer of scale or oxidation. In either case, it is necessary to periodically clean the electrodes with an acid solution. The Deposit Control System eliminates the need for such periodic cleaning. TWT can specially design industry-specific systems using our Deposit Control Microprocessors, Reaction Chambers, UltraViolet Disinfection, and IonGuard Purification System to effectively solve any need in residential, commercial and heavy industrial fluid-based applications.

* Drinking of any pool water, treated or not, is not recommended.

TRIANGULAR WAVE TECHNOLOGIES IONGUARD IONIZATION AND PURIFICATION SYSTEMS

9

System Consists of: TWT Control Unit & TWT ID Electrode Installation Kit

Treat your algae, bacteria, scaling, deposit, corrosion and oxidation problems with efficient, environmentally-friendly **Triangular Wave Technologies Chemical-Free Pool Management Systems**. Reduce your chemical treatment and maintenance efforts by 80% or more, and make your swimming experience safe, fun, and environmentally responsible.



TWT-5C8-277

0.5 AMP control unit (standard application)
Ionization/Disinfection System for the control
of Algae/Bacteria.

*Designed for pool sizes up to 40,000 gallons

TWT-5C8-278

1.0 AMP control unit (high volume application)
Ionization/Disinfection System for the control
of Algae/Bacteria.

*Designed for pool sizes up to 80,000 gallons



TWT-IDK-0258457

ID Electrode Installation Kit
3" Electrode / 2" PVC Tee / 2" Tee-Cap and Conduit
Normal Conductivity-TDS

TWT-IDK-0264123

ID Electrode Installation Kit
6" Electrode / 3" PVC Tee / 3" T-Cap and Conduit
Low Conductivity-TDS

TWT-IDK-026532

ID Electrode Installation Kit
6" Electrode / 4" PVC Tee / 4" T-Cap and Conduit



TWT-RE-0255

3" Replacement Electrodes

TWT-IRE-0262

6" Replacement Electrodes



TWT-ID-0257

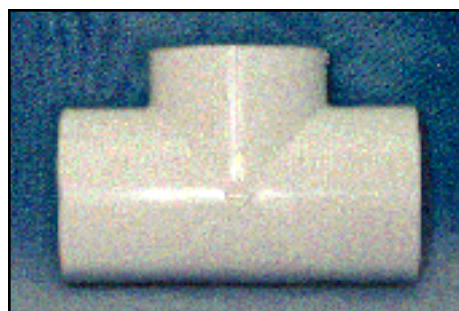
2" Tee-Cap and Conduit

TWT-ID-0263

3" Tee-Cap and Conduit

TWT-ID-023634

4" Tee-Cap and Conduit



TWT-ID-0254

2" Tee PVC (Schedule 40)

TWT-ID-0261

3" Tee PVC (Schedule 40)

TWT-ID-0265

4" Tee PVC (Schedule 40)



Pools & Spa Applications

For a complete Pool Management System: IonGuard Purification System for Pools & Spas Microprocessor TWT Deposit Control / TWT-RC Industrial Reaction Chamber/ TWT IonGuard Control Unit Electrodes Tee-Housing and Electrode Assembly. All components needed for the proper application.

Custom Orders: Multiple units may be used for larger pools. All systems may be customized.

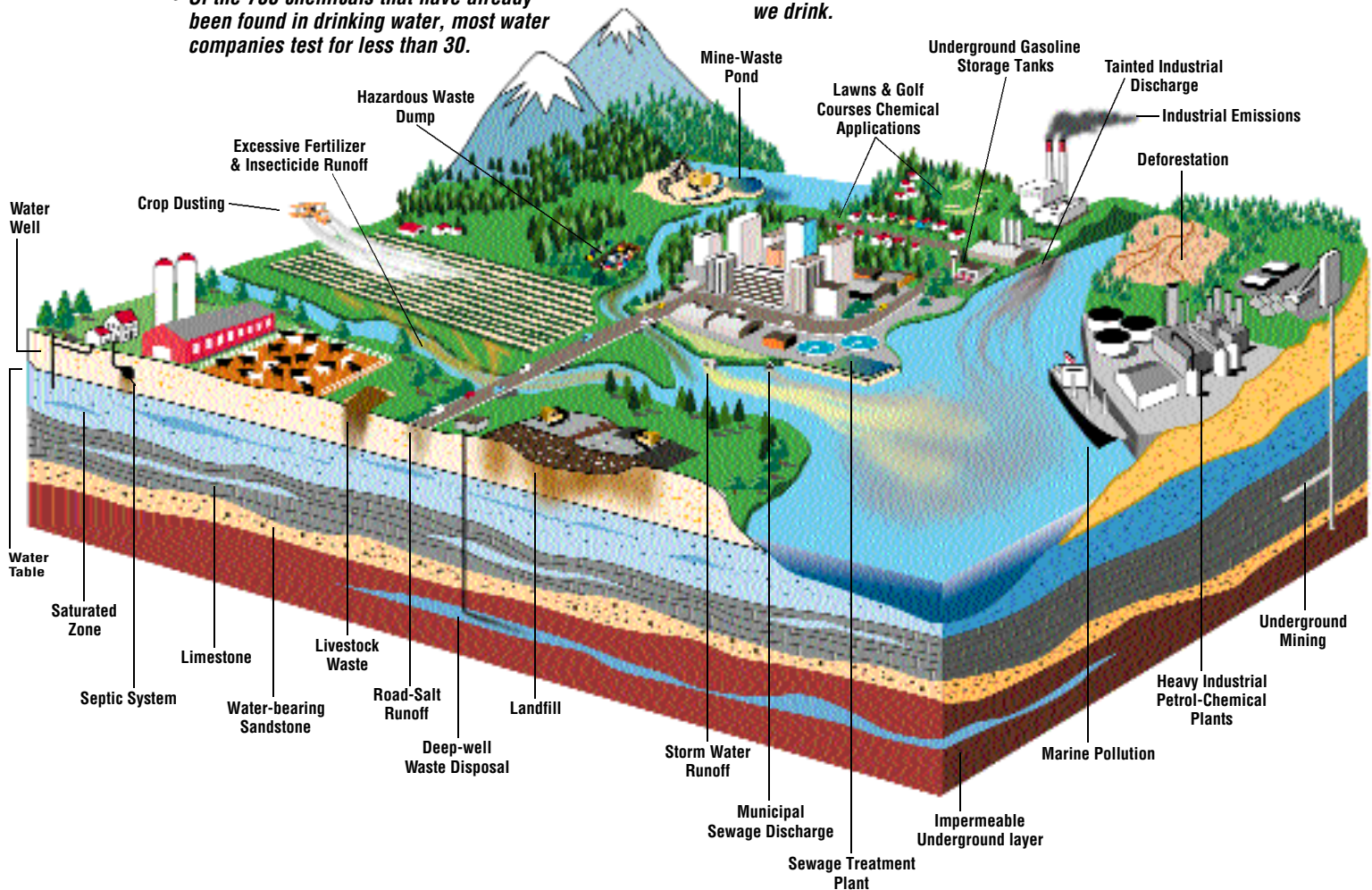
Triangular Wave Technologies, Inc. • 85 Chestnut Ridge Road • Montvale, NJ 07645 USA • 201-573-0030 Fax 201-573-8710 • Email: info@triangularwave.com

Visit our web site to learn more about us: www.triangularwave.com

WHAT IS IN OUR WATER?

Over 500 billion pounds of hazardous chemical waste are improperly disposed of every year.

- Every day, 50 billion gallons of liquid hazardous waste are disposed at 26,000 disposal sites, 85% are located above aquifer. Some chemicals, such as TCE are too toxic, a single gallon can contaminate a years worth of drinking water for 3800 people.
- Every year, 100 billion gallons of liquid hazardous waste are absorbed into groundwater supplies.
- Of the 1,000 EPA Priority waste sites in the U.S., less than 20 have been cleaned up since the EPA's inception.
- Of the 700 chemicals that have already been found in drinking water, most water companies test for less than 30.
- This much we know... If we put toxic chemicals into or on the ground, they will eventually end up in the groundwater we drink.



Federal, State, and Local authorities will do their best to bring us the best water possible. But, they cannot undo all damage to our water sources that has taken decades of ignorance and abuse to inflict

At our manufacturing facility, we have pioneered the advanced design of fluid management products to meet the needs of residential, commercial, and industrial applications. Triangular Wave manufacturing expertise is reflected in our efficient engineering design team. Our technical test department is meeting the ever changing requirements of the fluid manage-

ment environment. Our unique capabilities and design expertise have successfully solved a wide variety of problems for a wide variety of customers. The TWT fluid management systems and filtration media provide a bacteriostatic environment, and are designed to remove chlorine, lead, volatile organic chemicals, hydrogen sulfide and sulphur, herbicides, pesticides, chemical fertilizer residues, trihalomethane, and many other pollutants. These filters remove odor and restore the taste and clarity of municipally treated water.



DEPOSIT CONTROL • FILTRATION

PURIFICATION • DISINFECTION