

# TRIANGULAR WAVE WATER TREATMENT AND FILTRATION SYSTEMS

## Why Triangular Wave Technologies Inc. Water Filtration Systems Are “State-of-the-Art”

**Patented KDF** process media and patented air entrainment systems make the difference. Triangular Wave Water Treatment Systems use either the patented KDF process media alone, or the KDF process media in combination with granular activated carbon (GAC) and other filters. KDF media remove up to 99% of the chlorine in municipal water. By removing the chlorine, the life of the GAC is extended up to 10 times. Furthermore, the KDF media protects the GAC bed against fouling from bacterial growth. At the same time the KDF media remove up to 98% of the lead and other heavy metals that are of growing concern to public health officials.

### How the KDF Media Works

In plain English, the KDF media simply exchange electrons with the contaminants. The give and take of electrons changes many contaminants into harmless components; such as chlorine to chloride. Other contaminants, such as lead and other heavy metals, bind to the KDF media. The patented KDF process media are high-purity copper-zinc alloy formulations. They reduce contaminants in water using oxidation/reduction (redox)—the electro-chemical potential of purified dissimilar metals.

### How Triangular Wave Systems Remove Chlorine From Water

The Triangular Wave Systems utilize KDF 55 process media. The removal of chlorine using the KDF process media is a simple



**CLEANER WATER IS HEALTHIER WATER!**

chemical reaction. The chlorine becomes harmless chloride ions that stay in solution. KDF 55 process media has been specially formulated to remove chlorine from water in point-of-entry water treatment systems.

### How Triangular Wave Systems Remove Iron From Water

The goal of any iron removal system is to oxidize ferrous iron to the insoluble ferric form; so it can be filtered from the solution. The Triangular Wave System uses a three step process to remove iron from the water.

- **Air entrainment**
- **A three step conversion of soluble ferrous cations, to insoluble ferric hydroxide.**
- **Filtering of the ferric hydroxide.**

The Triangular Wave System uses the MaxMixer Air Injector to entrain air into the water. Then the patented MaxMixer greatly reduces the size of the air bubbles to allow greater reaction with the ferrous iron cations. The oxygen from the air entrainment and the ferrous iron cations react to convert soluble ferrous iron cations to insoluble ferric hydroxide. The ferric hydroxide is filtered by the Triangular Wave neutral filter aggregate. Regular back washing removes accumulated ferric hydroxide from the neutral filter aggregate.

## TRIANGULAR WAVE TECHNOLOGIES WATER FILTER SYSTEM

The TWT Counter Top model with its dual filter media, is designed to remove lead, mercury, iron and other heavy metals. The granulated activated carbon removes 98% of...

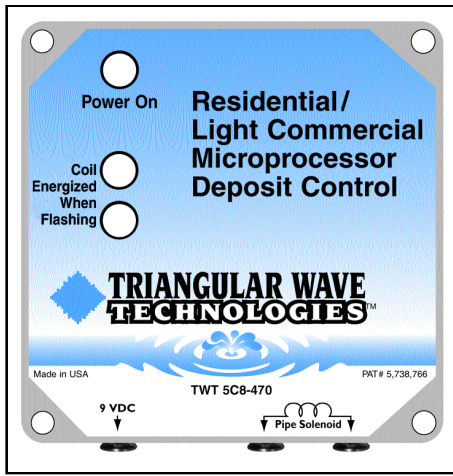
- **Chlorine**
- **Lead**
- **Hydrogen Sulfide, and Sulphur**
- **Herbicides, Pesticides, Trihalomethanes**
- **Volatile Organic Chemicals**

**Attractive slim design conserves counter space.**

**Restores taste and clarity to municipally treated water, and removes foul odors.**

**Triangular Wave Technologies Inc. is dedicated to complete fluid management solutions utilizing state of the art technology and products.**





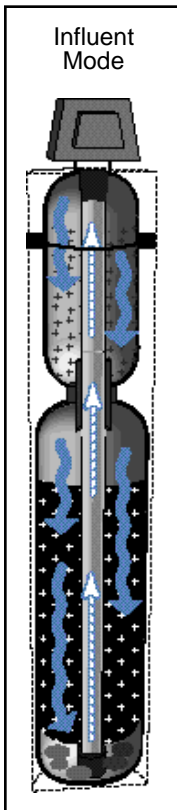
## Triangular Wave Technologies Micro-Processor Model #470

**TWT-5C8-470 Residential/Light Commercial Microprocessor Deposit Control System** represents a significant breakthrough in electro-magnetic technology. This state-of-the-art electronic residential deposit controller provides a continuous scale and bio-film control in fluid systems for pipes 1" or less in diameter, resulting in reduced maintenance and more efficient operation. Eliminates deposits in pipes, fixtures and equipment. Conditions water without the use of salt.

## Water Filtration System

The unique and patented Dual Tank Distributor System, enables us to offer extraordinary performance and longevity! Patented technology means...

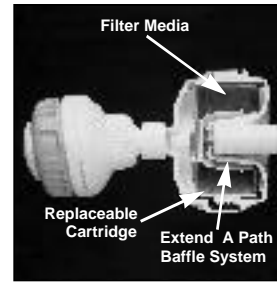
- **Dechlorinates in excess of Two Million Gallons of Water.**
- **Patented KDF Media removes chlorine and heavy metals and extends the life of the Granular Activated Carbon 10 fold.**
- **Granular Activated Carbon removes pesticides, herbicides, trihalomethanes, asbestos, and turbidity.**
- **Restores the taste, odor, and clarity of municipally treated water.**
- **Rechargeable by backflushing.**
- **Carbon only should be inexpensively recharged every three or four years.**
- **Provides a bacteriostatic environment.**



## The Triangular Wave Residential/Light Commercial Product List



**TWT-SLM**  
Residential High Performance Shower Head utilizing the exclusive Patented KDF Filter System.



**SHOWER FILTER MASSAGE SHOWER HEAD** The Patented slim-line shower filter design contains KDF, designed especially for filtering a wide range of chlorine and chlorine byproducts from your shower water. This economical High Performance Shower Filter is one luxury that... **You can't afford to be without!!**



**TWT-MCT-101**  
Counter Top Water Filtration System. Features the dual filter media of patented KDF 55 and Granular Activated Carbon.



**TWT-WCH**  
The "Bottle Less" Water cooler is equipped with the patented "Super Chiller" for refreshing ice cold water. Hot and room temperature water is also available. Also available is the Model **TWT-WC** "Bottle Less" Water Cooler for those who desire ice cold and room temperature water.

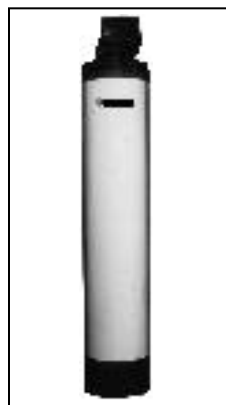


**TWT-MUC-103\***  
Three Unit Under Counter Water Filtration System features a sediment filter, the dual filter media of patented KDF 55 and Granular Activated Carbon, and a final Granular Activated Carbon Filter.



**TWT-MUC-102**  
Two Unit Under Counter Water Filtration System. Features the dual filter media of patented KDF 55 and Granular Activated Carbon.

\* For more complex water treatment needs use our enhanced 3 unit system.



**TWT-WF**  
Whole House Water Filtration System. Patented Dual Tank Distributor System features the dual filter media of patented KDF 55 and Granular Activated Carbon.



**TWT-IR**  
Whole House Iron Removal / Water Filtration System. System features air entrainment, filter media neutral, and Granular Activated Carbon.



For additional information about our complete product line of (Commercial/Industrial) deposit control systems contact your distributor:

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