

# RESIDENTIAL APPLICATIONS for HOMES, APARTMENTS and CONDOMINIUMS

## 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 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 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**