

TWT (UV) Ultra-Violet Water Disinfection & Purification Technology

Residential • Commercial • Industrial

Ultra-Violet Technology:

Ultraviolet disinfection systems are mysterious to many people-how can "light" kill bacteria? But the truth is, it can. Ultraviolet (UV) technology has been around for over 80 years, and its effectiveness has been well documented, both scientifically and commercially. It is nature's own disinfection /purification method. With consumers becoming more concerned about chlorine and other chemical contamination of drinking water, more dealers are prescribing the ultraviolet solution as suitable for both small flow residential applications as well as large flow commercial projects. Ultraviolet is a means of killing or rendering harmless microorganisms in a dedicated environment.

These microorganisms can range from bacteria and viruses to algae and protozoa. UV disinfection is used in air and water purification, sewage treatment, protection of food and beverages and many other disinfection and sterilization applications. A major advantage of UV treatment is that it is capable of disinfecting water faster than chlorine without cumbersome retention tanks and harmful chemicals. UV treatment systems are also extremely cost efficient!

One of the most common uses of ultraviolet sterilization is the disinfection of domestic water supplies due to contaminated wells. Coupled with appropriate pre-treatment equipment, UV provides an economical, efficient and user-friendly means of producing potable water. The following list shows a few more areas where ultraviolet technology is currently in use: surface water, groundwater, cisterns, breweries, hospitals, restaurants, vending, cosmetics, bakeries, schools, boiler feed water, laboratories, wineries, dairies, farms, hydroponics, spas, canneries, food products, distilleries, fish hatcheries, water softeners, bottled water plants, pharmaceuticals, rain water harvesting, electronics, aquaria, boats and RV's, printing, buffer processing, petro-chemical, photography and pre-and post-reverse osmosis.

The UV disinfection technology used in the system provides safe process and potable 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 contaminant's with a 99.9% or greater kill rate." The output water is thus disinfected and offers exceptionally high quality for process water, human consumption and use.

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There you will see complete product catalog, additional support documents, product, system and technical information. (product sheets / complete product line / fact sheets / case studies technical papers (abstracts) / and more.

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Units available from 1 GPM to 1000+ GPM (Stainless Steel Construction)



University test proves TWT® Deposit Control Technology reduces the fouling effects caused by "hard water" on the quartz sleeve and UV lamp inside the disinfection/purification unit while maintaining the residual effects downstream-**chemically free.**



TWT TRIANGULARWAVE TECHNOLOGIES, INC.
Chemical-Free Water Treatment