

POINT OF USE (POU): The following common water issues facing your waters are normally treated at the point of use. **For residential applications** this is generally at the kitchen sink with service to other water using appliances in the kitchen where most drinking, cooking, food prep and beverages are prepared. **For Commercial, offices and business locations** these POU solutions are available at flow rates for most any application. Including Drinking Water fill stations, water fountains, Carbonated Fountain Beverage systems, Espresso Machines, Coffee, & Ice. This is the most economical solution and the most convenient as well.

Chlorine/Taste/Odors/Color/Dirt: These aesthetic issues can readily be removed with adsorption & fine filtration. **Select Models HFC-1000, SF-1000, HF-20000, LF-1250, HF-20000, HF-20000S, HF-PWF-S**

Chloramines: Municipal water supplies that exceed the TTHM's level use an ammonia/chlorine mixture which produces chloramine as the disinfectant. This requires 20 times the capacity of activated carbon to adsorb vs standard chlorine. While it reduces the disinfection byproducts (DBP) of TTHM's it causes significantly more taste/odor issues and can be less effective in residual disinfection within the distribution lines.
Select Model HFC-1000, HF-20000-S, HF-PWF-S

Protozoan Cysts: Giardia & Cryptosporidium oocysts are found in **97% of surface water supplies**. Chlorine and Chloramine are ineffective. Fine filtration is the recommendation of choice. **Select Model HFC-1000, SF-1000, HF-20000, HF-20000-SSC12-RO-150, HFC-1000-Plus, LF-1250** which effectively removes >99.95%

Trihalomethanes (TTHM's): Chlorine & Chloramines are the common disinfection chemicals used in municipal water treatment. Both of these combine with organics which can form **disinfection by-products** (cancer causing chemicals). **Select Model HFC-1000**

Lead: Lead is introduced from old water service lines and brass plumbing products and causes serious illness, especially in children.
Select Models HFC-1000, SF-1000 or LF-1250

Volatile Chemicals: Industrial solvents, farm & household chemicals and others find their way into our water supplies. **Select Model HFC-1000**

MTBE: A gasoline additive used by some to reduce air borne contamination has been found in our drinking water supplies. **Select Model HFC-1000**

PFAS: Per- and Polyfluoroalkyl Substances (PFAS), are a group of man-made chemicals that includes PFOA, PFOS, GenX, and many other chemicals. PFOA and PFOS have been the most extensively produced and studied of these chemicals. Both chemicals are very persistent in the environment and in the human body – meaning they don't break down and they can accumulate over time.
Select Units w/ Model HFC-1000 cartridge included, including single, dual, reverse osmosis, & purification systems that use this cartridge!

Bacteria, Virus, Cysts: We suggest a proactive approach when it comes to these microbiological issues. Not only because they can occur without warning, but because the technology is economical. These items can occur anytime, within any water supply, regardless of care taken at the water treatment plant. The distribution system is subject to cross connections, water main breaks, operator error and terrorist threats beyond the control of the municipalities. **Select Model HFC-1000-Plus or CMF-HFC-1000 for POU solutions.**
POE/Cooling Towers for Legionella remediation see pages 20-22 !

Total Dissolved Minerals (TDS): High levels of these dissolved salts can affect ingredient water and scaling issues. Municipal water supplies do not normally have this problem since >65% of the municipal water is surface water. **Select Model SC12-RO-150: Reverse Osmosis membrane technology is used to reduce the TDS >90% when required. CAUTION: Reduction of minerals to this level can cause the RO water to be aggressive to metals and other materials. Use only FDA plastic tubing and lead free faucets.**
Suggested than one add a supplement to the treated water to neutralize the aggressiveness of this type of water for drinking/cooking.

Fluoride: While fluoride is added to municipal water supplies for tooth decay protection. Less than 4 mg/L is allowed by the Safe Drinking Water Act. Some water supplies may have naturally occurring fluoride however it is rare in the USA.
Select Model FL-1000: Alumina is used to adsorb this additive from water supply with <= 4 mg/L

Tannins & colloidal irons: These are very small particulates that can cause color and stains issues. Require very fine filtration!
Select Model CMF417-2.5 (POU) and see page 19 for POE.

Hard Water Minerals: Calcium & Magnesium ions are the most common hard water minerals. Cause scaling issues when water is heated or frozen which can shorten the life of the water using appliances that heat or freeze the water. **Select Model HFC-1000, SF-1000, HF-20000-S, HF-PWF-S or DSX-212 for scale control. Select Model SC12-RO-150 or HF-2000-SO for scale removal.**

POINT OF ENTRY (POE): pH control, H₂S (hydrogen sulfide) or rotten egg smells are generally installed to treat all of your water needs due to corrosion and odor issues. Waterline Technology does not manufacture POE systems for these issues but can assist you in recommending a solution.

POINT OF ENTRY (POE) FILTRATION SOLUTIONS are designed for POE treatment of Chlorine/Chloramines, Tannin reduction, and Bacteria, Virus and Cyst protection for your home or business. Please review the POE Filtration Solutions in this catalog for details or call for assistance.

Drinking Water Disinfection - Waterline also offers a complete line of Fully Engineered Multi-Barrier Drinking Water Disinfection systems with flow rates from 10-480 gpm for Private and Public Water Supplies. Please call for details and application assistance.

Performance tested to meet all current Federal Regulations for Public or Private water supplies.

Water = Life: The human body is 70% water and water is its most important ingredient.