



Canadian Manufacturer

EXCALIBUR - PFAS FILTRATION SOLUTIONS



Quality through innovation



What are PFAS, PFOS, and PFOA?

Per- and polyfluoroalkyl substances (**PFAS**) are a complex group of thousands of synthetic chemicals that have been used in various industries around the world since the 1940s and continue to be used today. The most common of these chemicals being perfluorooctane sulfonate (**PFOS**) and perfluorooctanoic acid (**PFOA**).

These chemicals are designed to be so strong that they don't break down fully in the environment, which is why they've coined the name "**forever chemicals**". PFAS chemicals are used in an astonishing array of consumer products including but not limited to:

- Non-stick cookware
- Food liners, wrappers, and packaging
- Water-resistant fabrics, such as rain jackets, umbrellas and tents
- Personal care products, like shampoo, dental floss, and nail polish
- Stain-resistant coatings used on carpets, upholstery, and other fabrics



Can PFAS be found in drinking water?

Due to their widespread use and persistence in the environment, PFAS can be found all over the world; in people, water, fish, wildlife and virtually every environmental compartment, including in remote areas. PFAS have not been regularly monitored at drinking water treatment plants in North America. Where monitoring data exists, it is often for a limited number of PFAS. Growing evidence shows PFAS are in North American freshwater sources and drinking water, according to new studies from the Environmental Protection Agency (EPA) and Health Canada.



What are the health risks of PFAS?

"Forever chemicals" present such vital health concerns because they are bioaccumulative. This means they are absorbed faster than the body can excrete them, and they build up over time. Numerous studies link PFAS chemicals to:

- Testicular, kidney, prostate, and ovarian cancers
- High Cholesterol, Pregnancy-induced hypertension, Thyroid disruption
- Reduced ability of the immune system to fight infection and may decrease vaccine response
- Developmental delays and defects in children

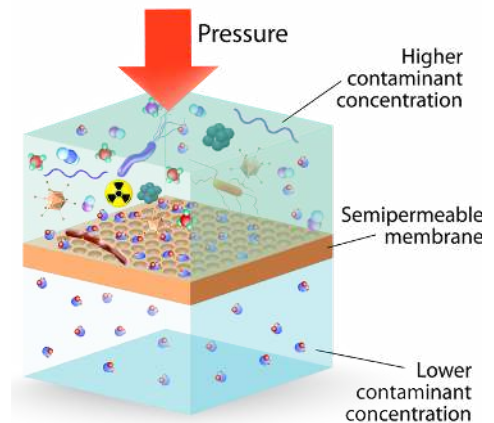
The Best Solution for Removing PFAS is a Whole Home Reverse Osmosis System

The Reverse Osmosis Process

The Whole Home Reverse Osmosis System utilizes reliable, high-performance reverse osmosis membrane technology to provide the best water to your entire home. The system removes all contaminants (over 99%) from your water by pushing the water through a semi-permeable reverse osmosis membrane. When feed water enters the reverse osmosis system, water molecules can pass through the small pores of the membrane, while chemicals, heavy metals, salts and other contaminants are rejected and sent to drain. The Whole Home Reverse Osmosis System removes:

- PFAS
- Lead
- Fluoride
- Sodium
- Barium
- Viruses
- Pesticides
- Mercury
- Chlorine
- Uranium
- Bacteria
- Chromium
- Cyanide
- Cadmium
- Sulfates
- Phosphate
- Hydrocarbons
- Pharmaceuticals
- Blue-Green Algae
- + and many more

REVERSE OSMOSIS



Total Dissolved Solids

Total Dissolved Solids (TDS) is a measurement of the total amount of dissolved inorganic compounds in water. TDS is made up of chemicals and heavy metals as well as minerals such as calcium, magnesium, sodium, chlorides, and carbonates. Unnatural levels of TDS can accumulate in well, lake, and municipal water because of human activity. Since water dissolves more substances than other liquids, it is particularly vulnerable to contamination. Some water sources are contaminated naturally from organic sources like rocks, soil, and decaying vegetation, while other contaminants are manmade. Residential, industrial, and agricultural activities all release toxic substances into the environment, which enter lakes, streams, and oceans. These substances range from PFAS ("forever" chemicals) and radioactive waste, to pesticides and pharmaceuticals.



Best

PFAS Reverse Osmosis Filtration Solution

Whole Home Reverse Osmosis/Nanofiltration System for Municipal and Well Water Applications



Note: The Whole Home Reverse Osmosis/Nanofiltration System will provide a non-detect PFAS reading.

Whole Home Reverse Osmosis System Steps:

Pre and post filters are incorporated along with the reverse osmosis system itself to protect the reverse osmosis membrane(s) and provide the highest quality water throughout your household. Each system is customized to meet your family's specific water needs to provide the best water for your home or business.



Filtration Custom Engineered To Your Specific Application

Based on a water analysis, additional filtration may be used as a pretreatment to protect the TFC (Thin Film Composite) high purity membrane(s), giving it a longer life.



Water Softener

Removes water hardness giving the reverse osmosis membrane(s) longer life.



Reverse Osmosis System

Reverse Osmosis membrane technology removes 99% of contaminants.



Neutralizing Filter

A pH balanced neutralizing filter is used after the reverse osmosis system.

Better

PFAS Ion-Exchange Filtration Solution

Ion-Exchange Filtration System for Municipal Water Applications



Note: The ion-exchange system will provide a non-detect PFAS reading.

Ion-Exchange Filtration System Steps:

A pre-filter (Chlor-A-Soft™ Series Water Softener) is incorporated along with the Lead/Lag PFAS Filters to provide the highest quality water throughout your household.



Chlor-A-Soft™ Series Water Softener

Removes water hardness and chlorine, giving the Lead/Lag PFAS Filters longer life.



Lead/Lag PFAS Filters

Utilizes a strong base anion exchange resin to remove PFAS (including PFOA and PFOS) from your water supply.

Better

PFAS Ion-Exchange Filtration Solution

Ion-Exchange Filtration System for Well Water Applications



Note: The ion-exchange system will provide a non-detect PFAS reading.

Ion-Exchange Filtration System Steps:

Pre-filters are incorporated along with the Lead/Lag PFAS Filters to provide the highest quality water throughout your household.



Zentec™ Hybrid Air Capsulate Filter

Removes iron, sulphur, and manganese, giving the water softener longer life.



Premium Series Water Softener

Removes water hardness and clear water iron, giving the Lead/Lag PFAS Filters longer life.



Lead/Lag PFAS Filters

Utilizes a strong base anion exchange resin to remove PFAS (including PFOA and PFOS) from your water supply.

Good

PFAS Carbon Filtration Solution

Chemical Removal Filter for Municipal Water Applications



2 YEAR
UNLIMITED
WARRANTY

Note: This type of filtration is for the reduction of PFAS and will not provide a non-detect PFAS reading.

Chemical Removal Filter Steps:

Acid-Washed Coconut Shell Carbon is utilized in both filters to reduce PFAS, and significantly reduces chemicals such as chlorine, chloramines, THM's and volatile industrial chemicals from your water supply. These filters also remove dirt, grit, and suspended matter; providing safe, clean water to your entire home.

This type of filtration reduces:

- PFAS
- Chlorine
- Chloramines
- Chromium
- PCB's
- Ethylene
- Benzene
- THM's
- Ammonia
- + and many more



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