PIONEER™

Protecting Water for Future Generations

PIONEER is the First of its Kind
Whole-House Lead, Cyst & PFOA/PFOS Removal System

WHAT ARE THESE HARMFUL CHEMICALS

The chemicals Perfluorooctanoic acid (PFOA), also known as C8, and Perfluorooctane sulfonic acid (PFOS) are bio-permanent, are resistant to direct oxidation, and do not break down naturally in the environment or the human body. Studies suggest that exposure to the chemicals may lead to cancer.

HOW DOES THE PIONEER SYSTEM PROTECT ME

PIONEER™ successfully removes these chemicals and is installed where the water line enters your home, business or restaurant. This system has been tested and third-party certified as required in the NSF/ANSI P473 standard for PFOA/PFOS, along with NSF/ANSI 53 standard for the reduction of lead and cyst.

HOW **PIONEER** REMOVES LEAD

FILTRATION EVERYWHERE TECHNOLOGY®

PI**ONE**ER provides the best filtration solution - starting at the source and giving peace-of-mind throughout the entire home.

OTHER HARMFUL ELEMENTS PIONEER REMOVES FROM YOUR WATER

PIONEER removes lead, which is a colorless, odorless & tasteless metal. In addition to lead, the patented PIONEER filtration system removes >99.95% of Giardia & Crypto, as well as Chlorine & Chloramine(*).

Giardia & Crypto – Waterborne parasite that causes diarrheal disease; very resistant to chlorine-based disinfectants, common in drinking and recreational waters.

Chlorine & Chloramine (*) – Water disinfectants added to municipal water, that have negative health effects and the most harmful exposure is through inhalation and skin adsorption of steam in a shower.

PIONEER™

PIONEER™ is specifically designed at a 0.5-micron nominal filtration level, to remove both particulate and soluble lead from your drinking water. Soluble lead is invisible, odorless, tasteless, and needs to be chemically removed from water. Particulate lead is like a tiny grain of sand that needs to be physically removed from water. The PIONEER™ POE filter is strategically designed to remove BOTH forms of lead contamination from the whole house in a single filter.

Soluble/Ionic lead: PIONEER™ binders are designed to chemically react with soluble lead to create an ionic bond, kinetically removing lead from the water. Ionic bonding is a chemical bond that involves the electrostatic attraction between oppositely charged ions, and is the primary interaction occurring in ionic compounds. Ionic bonds form when a nonmetal (binder/adsorbent) and a metal (lead) exchange electrons, as they do in PIONEER™.

Particulate lead: PIONEER™ filter is specifically engineered to physically remove and filter lead particles from water which is often found as a result of corroded lead pipes.

*The PIONEER™ POE filter has been tested for use at standard and peak flow rates for BOTH forms of lead. The Water Quality Platinum Seal and UPC shield demonstrate the certification by IAPMO R&T.

BUILT WITH HOMEOWNER EASE-OF-USE IN MIND

EASY TO UNDERSTAND LED REPLACEMENT NOTIFICATIONS

The Real-time Dynamic LED System monitors water and flow rate and provides a visual color-coded notification to the homeowner, letting them know when to replace their filter.

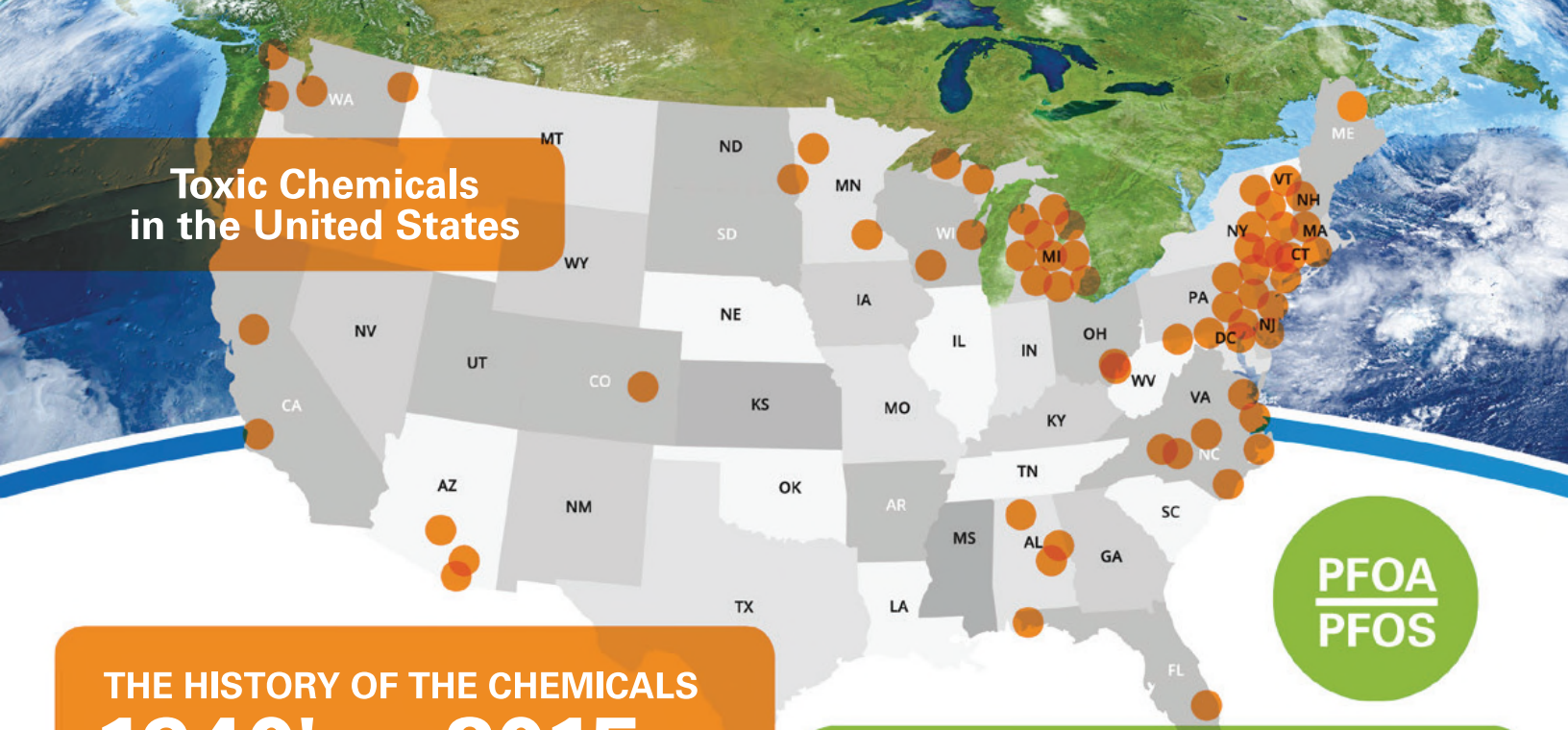
EASY FILTER REPLACEMENTS AND NO TOOLS REQUIRED

PIONEER uses state-of-the-art snap-ring technology to eliminate the need for cumbersome tools. Homeowners can easily replace the filter in their PIONEER system by followng a few simple steps.

PRESS THE RED PRESSURE RELIEF VALVE & PULL SNAP-RING

LIFT TOP CAP

*Meter preset at 100,000 gallons; see Installation Manual for resetting when the cartridge is replaced.
*Three AAA batteries not included, for battery back-up. Change annually with filter change-out.
*Refer to Installation Manual from proper installation and product service guidelines.



THE HISTORY OF THE CHEMICALS

1940's - 2015

Common usage of a class of man-made fully fluorinated chemical compounds known to be resistant to heat, water, and oils, incorporated into a variety of industrial and commercial products, such as non-stick cookware (a chemical ingredient in the production of the non-stick coating used to make Teflon®), carpets, stain resistant clothing, food packaging, firefighting foams, adhesives, cosmetics, leather, and the film inside microwave popcorn bags.

UNITED STATES EPA

REGULATIONS

The EPA currently marks the unsafe level of PFOA/PFOS to be above 70 parts per trillion, although some researchers and states believe lower levels are still unsafe. Even 1 ppt may be enough to pose health risks, leading regulators to recommend these chemicals as candidates for the Safe Drinking Water Act.

THE CHEMICALS IN OUR

BACK YARD

The drinking water supplies of more than **15 million Americans** have water concentrations of these compounds at **levels exceeding the health advisory limit**, however this only represents testing in half of the water supplies in the US. Other estimates indicate the chemicals have contaminated more than **1500 water systems nationally**, affecting up to **110 million American**s. Based on testing by the Centers for Disease Control and Prevention, about **98 percent of Americans have at least some level of chemicals in their blood**, and has been found in water supplies across more than 27 states.

WHAT DOES THIS MEAN?

THE SOLUTION

It's obvious that PFOA/PFOS chemicals need to be removed from your water. The **PIONEER**™ POE filtration system houses a strategically designed nominal 0.5-micron filter to remove BOTH chemicals along with BOTH forms of lead (soluble and particulate) from your house in a single filter. The **PIONEER**™ is the First of its Kind Whole-House Lead, Cyst & PFOA/PFOS Removal System, providing safe drinking water throughout your entire home.

For more information

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ENPRESS LLC
Where Innovation Flows™

© ENPRESS LLC 2019 | ONE® is an ENPRESS Filtration Technology
US and International patents, and patent pending.

IAPMO R&T WATER QUALITY PLATINUM SEAL IAPMO RESEARCH AND TESTING

This ENPRESS system is certified by IAPMO R&T against NSF/ANSI Standards 53 and P473 (also CSA B483.1) for the reduction of claims specified on the performance data sheet.

NSF

This ENPRESS pressure vessel is tested and certified by NSF International against NSF/ANSI Standard 44 and 61 for materials and structural integrity requirements

COMPONENT

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