



Arsenic Solutions using npXtra™ POU



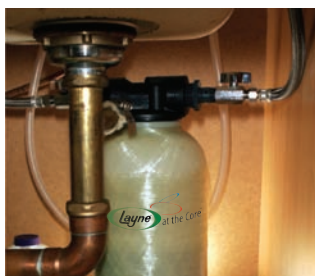
“Arsenic is one of the highest environmental cancer risks.”

- Arsenic Health Effects Program, University of California, Berkeley

Arsenic

The removal of arsenic from drinking water has become a hot topic across the country. This is due to the fact that arsenic has been shown to have health effects by the National Academy of Science and is present in over one million private wells. Arsenic raises the risk for many cancers, including bladder, lung and kidney.

GreenPro™ npXtra Point of Use (POU) Program assures arsenic reduction for your home.



The GreenPro POU system with LayneRT will reliably and efficiently reduce arsenic to a safe consumption level and comes with the service benefits that our GreenPro Water System Program provides.

The GreenPro POU system is a total, comprehensive solution (performance sampling and reporting, and disposal) to reduce your arsenic concerns.

GreenPro POU treats the entire cold-water flow, so no additional faucet is required. The 2-gpm system provides arsenic protection with minimal interference to your kitchen.

What's included in the program?

- An under-the-sink column sized to provide 100% arsenic protection.
- Peace of mind – initial and follow up arsenic testing at the Layne lab – so you know that the system is always working.

How well do you *know* your water?

Get to *know* it with
**GreenPro™ Water
Systems and npXtra POU.**

The **GreenPro POU system** safely reduces arsenic.

The heart of the GreenPro POU system is an advanced, NSF/ANSI 61 - certified and approved hydrous iron oxide impregnated resin. The resin efficiently and safely binds arsenic and never needs backwashing.

The **GreenPro Water System and npXtra POU Advantages:**

- Convenient 6" x 18" or 8" x 35" columns
- No connection to sewer or septic required
- System is always in service
- No wasted water
- The hardware is simple and reliable
- No arsenic-laden waste is released at home



Layne Water Treatment

Define
Develop
Deliver



Frequently Asked Questions

Who makes GreenPro?

GreenPro is manufactured and supported by Layne Christensen Company, a U.S. company that is a world leader in water treatment technologies. Layne has years of successful experience providing advanced and economical solutions for consumer, municipal and industrial users. When you see "Layne at the Core," you have arsenic removal technology at its best.

How do I know the system is working?

A sample kit is sent directly to your home at intervals based on your water chemistry. Using easy to follow instructions, you simply fill the sample bottle and return it using a pre-paid, pre-addressed return label. We continue to monitor performance by sending a sample kit to you as required by your water chemistry.

Who does the testing?

Using state-of-the-art technology, Layne chemists will analyze the sample to assure that your system is working at the optimum level.

Variables Affecting Arsenic Removal From Drinking Water

Media used for arsenic reduction is affected by a number of water parameters. Layne requires a full water analysis that must include arsenite, arsenate, pH, silica, phosphate, iron and manganese.

Total Arsenic – Total arsenic concentration above 0.30 mg/L will reduce media life.

Arsenite As(III) – The arsenic removal media removes both As(III) and As(V), but has approximately four times the capacity for As(V) over As(III). If arsenite is present it is recommended to oxidize the water ahead of the arsenic removal media.

pH – Adsorption media operate most effectively between 5.5 and 8.5. The media will remove arsenic outside of this range but the capacity may be compromised. At elevated pH, silica in turn increases. Note: Do not use organic acids (such as citric or acetic) to adjust the pH ahead of the media.

LayneRT

LayneRT is the key component in the GreenPro POE. LayneRT is proprietary, durable, arsenic-selective media, that has been developed as a significant improvement on the efficiency and longevity of adsorptive arsenic media. It is a reliable, high capacity technology that provides rapid adsorption kinetics without generating any fines and does not require backwashing.

What happens when the first column needs to be changed?

Your treatment specialist will simply replace the column with a pre-loaded column - no mess, no worries. The spent column is then sent back to Layne for disposal.

Silica – Levels above 20 mg/L begin to interfere with media arsenic adsorption when combined with a pH above 7.5.

Phosphate – Levels above 150 mg/L will reduce media life for arsenic adsorption.

Iron & Manganese – Soluble iron and manganese may precipitate onto the media bed. If iron and manganese are above the secondary MCLs (0.30 mg/L and .050 mg/L respectively), it is recommended to filter them before the arsenic removal system.

Hardness – Does not affect the performance of the arsenic removal media.



Dedication to Service

Layne Christensen is committed to making water treatment as easy and as simple as possible. We monitor performance so you can always be confident that your system is working. All GreenPro Water Systems include waste disposal per EPA regulations..

For **FREE** Arsenic
Testing contact your
water treatment
specialist


npXtraTM