

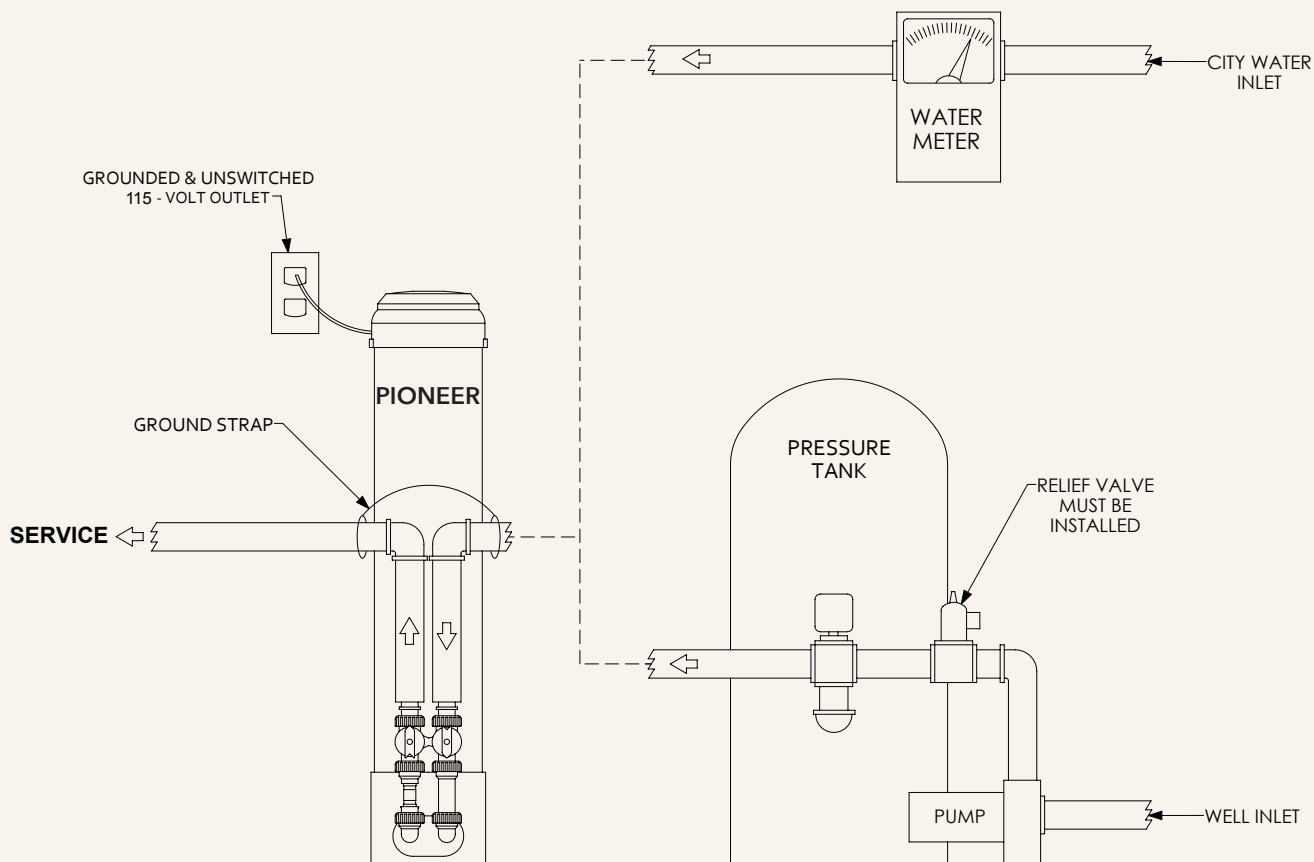


LANCASTER

WATER TREATMENT

PIONEER™ AS - CARTRIDGE TANK ARSENIC REDUCTION

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| PIONEER™ DIMENSIONS | | CARTRIDGE TANK FOR ARSENIC REDUCTION | |
|---------------------|--|--------------------------------------|--|
| Model Number | | 7-CTFS-AS | |
| Tank Height | | 39.75 | |
| Tank Diameter | | 8.00 | |
| Inlet/Outlet MNPT | | 1 | |

*General notes for estimating only. All dimensions are in inches.

PIONEER™ AS - CARTRIDGE TANK ARSENIC REDUCTION

| PIONEER™ AS SPECIFICATIONS ¹ | | CARTRIDGE TANK FOR ARSENIC REDUCTION |
|---|---|--|
| Model Number | 7-CTFS-AS | |
| Bypass, Meter & Drain Connection Included | Yes | |
| Replacement Cartridge ² | CT-AS-CB | |
| Micron Rating | 20 | |
| Arsenic III and V Reduction ³ | 99.9% | 125,000 gallons @ 7 GPM (Rated) for unspiciated water > 375,000 gallons @ 7 GPM (Rated) if Arsenic V at pH 6.5 to 8.5, or Arsenic III at pH 6.5 |
| Water Pressure Range (PSI) | 20 - 125 | |
| Maximum Service Flow Rate (GPM) | 7 | |
| Pressure Drop at Rated Flow Rate | 9 psid @ 7 GPM | |
| Water Operating Temperature Range (°F) | 34 - 120 | |
| Electrical Requirements: | Grounded and Unswitched 115V outlet and 3-AAA Batteries | |

¹The ENPRESS E3-M System is certified by IAPMO R&T to NSF/ANSI 53 for Material Safety, Structural Integrity, and for the reduction of claims specified as (Rated) above. The ATOMUS® F11 media inside this system is certified to NSF/ANSI 61 for Material Safety and NSF/ANSI 372 for Low Lead Content.

² Filter Replacement Operating Instructions: New cartridges must be flushed for a minimum of 30 minutes prior to use. System and installation to comply with federal, state and local laws and regulations. Do not use with water that is microbiologically unsafe or unknown quality without adequate disinfection before or after the system. Manufactured from NSF/ANSI standard 61 and California Prop 65 Compliant certified raw materials.

³ Simultaneous removal of both forms of Arsenic, no need to convert Arsenic III to V prior to filtration. Claims are not performance tested by WQA, IAPMO or NSF. Performance claims are based on independent and manufacturer's internal test data. This system conforms to NSF/ANSI 53 for pentavalent arsenic reduction. This system has been tested for the treatment of water having pentavalent arsenic at a concentration of 0.050 mg/L (+/- 10%) and trivalent arsenic at a concentration of 0.30 mg/L (+/- 10%), reducing both below the US EPA enforceable maximum contaminant level (MCL) of 10 parts per billion (ppb) or 0.01 mg/L. Actual performance is dependent on influent water quality, system design and application. Results may vary.

Notes:

Water Conditions outside of the specified limits may lead to a shortened filtration life. Potential void of warranty if "optimum working conditions" and use of proper pre-filtration are not adhered to.

New cartridges may contain a very small amount of fines and add red color to the water. After installation, flush the cartridges for at least 30 minutes prior to use.

Micron rating based on 85% or greater removal of a given particle size. Flush new cartridges until water runs clear prior to use.

Water Chemistry Influent Limitations:

- Total arsenic: 0.010-0.100 mg/L
- Optimum pH range: 6.5-7.5
- pH: 5.5-9.5
- Fluoride: < 1 mg/L
- Iron: < 0.3 mg/L
- Phosphate: < 0.55 mg/L
- Silica: < 35 mg/L
- Hardness: < 300 mg/L
- A ratio of 1:3 silica vs. total hardness will maintain silica in solution and optimize performance*
- Manganese: < 0.05 mg/L
- Total suspended solids: < 5 mg/L
- Pre-filtration requirement: 5 micron or less
- Sulphate: < 100 mg/L
- Sulfides: < detect mg/L
- Vanadium: < 0.05 mg/L
- Turbidity: 5 NTU

USEPA TCLP and WET Approved: Engineered and proven to provide maximum removal capacity and improved stability against pH upset to prevent possible desorbition of bound contaminants both during operation and in landfill conditions. This ensures successful evaluation against USEPA TCLP and California WET Tests with non-leachable bond.