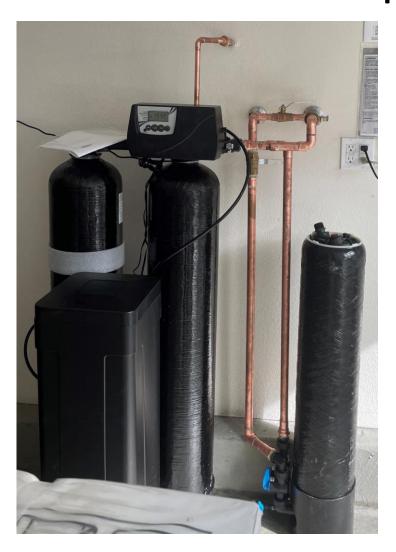
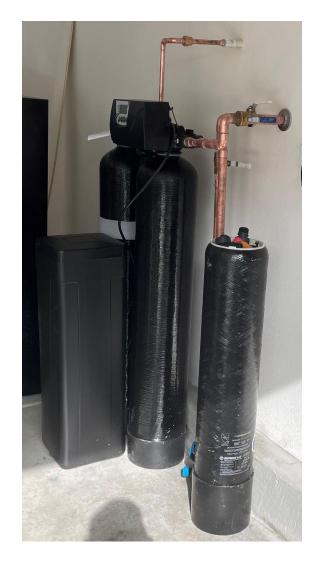
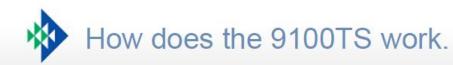
9100TS Twin Sensor High Efficiency Softener & Enpress Pioneer

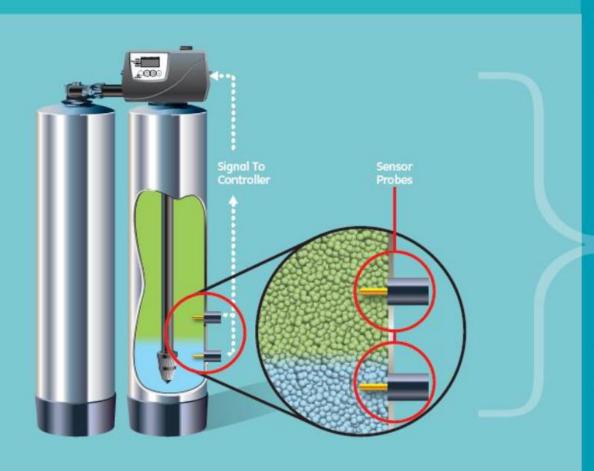








ROUND-THE-CLOCK SENSOR MONITORING





24/7 MONITORING

- Automatically adjusts to changing water conditions
- A continuous supply of quality water is always available

PATENTED SENSOR TECHNOLOGY*

- Superior monitoring with noncorrosive 18-karat gold-plated sensor probes
- Replaces traditional metered and time clock controls

ECO-FRIENDLY

 Fewer regeneration and rinse cycles conserve water and regenerant

*Unites States Patent Number 7,329,338 B2





A MICROCOMPUTER CONTROLLER

THE "BRAIN" THAT KEEPS PERFORMANCE AT ITS PEAK

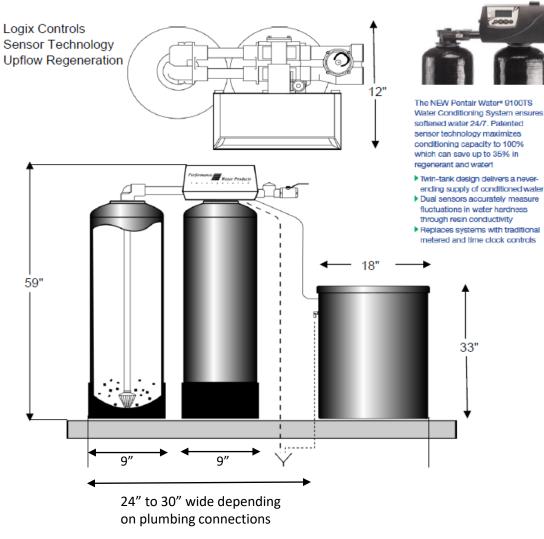
The control system of a 9100 TS is a big step forward from traditional mechanical timers or metered flow controllers. Each 9100 TS is governed by a dedicated microcomputer. The computer interprets data from the system's sensors to order regeneration only when needed. It switches between its twin tanks instantly, so there is never a moment when water isn't completely conditioned. As a result, regeneration requires significantly less water usage than a traditional system. Reliability is enhanced by linking the microcomputer controller with a heavy duty, industry proven valve that assures a long life of easy operation.

- Up to 65% water savings
- Up to 60-80% salt savings
- When the valve says it is doing 5200 GPG. That's what it is doing.



Self sensing Regeneration means 100% soft water 100% of the time. While having the most efficient platform available.

9100 TWIN SENSOR WATER SOFTENER SYSTEM





	Trater con	terrer epecineation		
Flow Rate:	Model #:	9100TS-948		
Peak Flow: 21 GPM BW Rate: 2 GPM Tank Sizes: 9" X 48" Fiberglass Brine Tank: 18" DIA. X 33" Poly Media Vol.: 1.0 FT³ ea. Pipe Size: Inlet: 3/4"- 1.25" NPT Outlet: 3/4"- 1.25" NPT Drain: 1/2" NPT Weight: Shipping: 185 lbs	Capacity:	30,000 Grains ea.		
BW Rate: 2 GPM Tank Sizes: 9" X 48" Fiberglass Brine Tank: 18" DIA. X 33" Poly Media Vol.: 1.0 FT ³ ea. Pipe Size: 3/4"- 1.25" NPT Outlet: 3/4"- 1.25" NPT Drain: 1/2" NPT Weight: Shipping: 185 lbs	Flow Rate:	12 GPM		
Tank Sizes: 9" X 48" Fiberglass Brine Tank: 18" DIA. X 33" Poly Media Vol.: 1.0 FT ³ ea. Pipe Size: 3/4"- 1.25" NPT Outlet: 3/4"- 1.25" NPT Drain: 1/2" NPT Weight: Shipping: 185 lbs	Peak Flow:	21 GPM		
Brine Tank:	BW Rate:	2 GPM		
Media Vol.: 1.0 FT ³ ea. Pipe Size: Inlet: 3/4"- 1.25" NPT Outlet: 3/4"- 1.25" NPT Drain: 1/2" NPT Weight: Shipping: 185 lbs	Tank Sizes:			
Pipe Size: Inlet: 3/4"- 1.25" NPT Outlet: 3/4"- 1.25" NPT Drain: 1/2" NPT Weight: Shipping: 185 lbs	Brine Tank:	-		
Inlet: 3/4"-1.25" NPT	Media Vol.:	1.0 FT ³ ea.		
Inlet: 3/4"-1.25" NPT				
Inlet: 3/4"-1.25" NPT				
Outlet: 3/4"- 1.25" NPT Drain: 1/2" NPT Weight: 185 lbs	Pipe Size:			
Drain: 1/2" NPT Weight: 185 lbs	Inlet:	3/4"- 1.25" NPT		
Weight: Shipping: 185 lbs	Outlet:	3/4"- 1.25" NPT		
Shipping: 185 lbs	Drain:	1/2" NPT		
Shipping: 185 lbs				
Shipping: 185 lbs				
Operating: (400lbs salt) 735 lbs		185 lbs		
Operating. (400105 Suit) 700 105	Operating:	(400lbs salt) 735 lbs		

Note:

Supply sufficient pipe support to insure that no pipe weight is supported by the softener control.

Specify inlet and outlet pipe size to match the inlet NPT to the Hot water heater. All Dashed pipe, valves and fittings provided by others.

Make all plumbing connections in accordance with all state and local plumbing codes.

Install sample valve on softener outlet for ease of sampling water hardness.

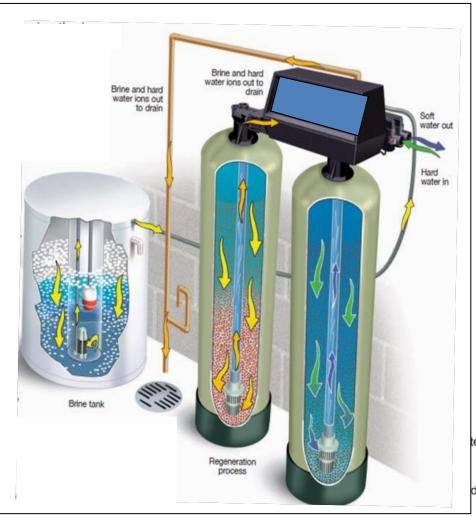


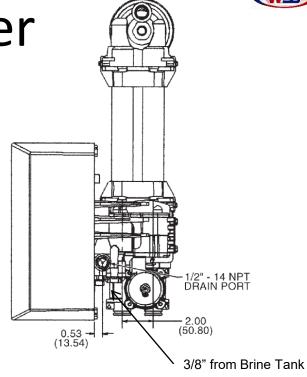
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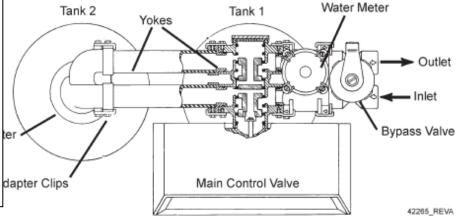




9100TS-948 Softener













WHY REMOVE LEAD

The History of Lead Usage: Until it was banned in new home construction in 1986, more than 70% of cities in the US were using lead-based products for conveying water, because it was less expensive and more durable than iron. Lead pipe could be easily bent, allowing pipes to be shaped to conform to the contours of existing buildings or other structures.



BLOOD

Anemia

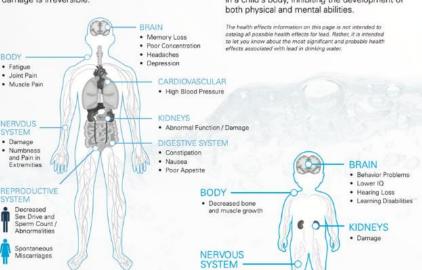


How Lead Gets into Drinking Water: Lead can enter drinking water when service lines that contain lead corrode, especially where the water has high acidity or low mineral content that corrodes pipes and fixtures. This most often happens in the pipes that carry water from the water treatment plant to water mains under the street supplying homes. Lead release is heavily influenced by the chemistry of the water delivered by the water system and by physical disturbances, such as road construction or water main replacements.

HEALTH EFFECTS OF LEAD

How Lead Affects Adults: Keep in mind that there is no safe level of lead for the human body and unlike other metals, it has no useful biological function. Even low concentrations of lead in water can cause a significant increase in blood lead levels and any damage is irreversible.

The Affects on Children: Lead is a potent neurotoxin which has significant effects on childhood health and development. According to the Centers for Disease Control and Prevention, lead exposure can affect nearly every system in a child's body, inhibiting the development of both physical and mental abilities.



Damage

HOW PIONEER™ Pb REMOVES LEAD



OTHER HARMFUL ELEMENTS PIONEER PL REMOVES FROM YOUR WATER

PIONEER Pb removes lead, which is a colorless, odorless and tasteless metal. In addition to lead, the patented E3-M filtration system removes >99.95% of Giardia and Crypto, as well as chlorine and chloramine.

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

throughout the entire home.





*PIONEER Pb POE filters have 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.



Protecting Water for Future Generations

PIONEER is the First of its Kind Whole-House Lead, Cvst & 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.

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.

PIONEER NAME AND PART NUMBER

PIONEER™ System

CTA0840BBBKP5-04C00



SIZE & MICRON RATING	RATED CAPACITY & FLOW RATE	PEAK FLOW & % REDUCTION OF LEAD
8" × 40" 0.5	Lead Reduction and PFOA/PFOS 100,000 gallons @ 4.51 GPM (378,541 Liters @ 17.1 lpm) @ 99.62% lead reduction @ 97.9% PFOA/PFOS reduction	8 GPM (30.2lpm) @ 99.62% reduction (*) >88,000 gallons at 8 GPM (333,116 Liters @ 30.2lpm)

CHLORINE/CHLORAMINE TASTE AND ODOR REDUCTION CAPACITY (*)

PRESSURE DROP SPEC

>300,000 gallons @ 15 GPM (1,135,533 Liters @ 56.8 lpm) with greater than 90% reduction, estimated capacity using 2ppm of free chlorine.

>150,000 gallons @ 8 GPM (567,812 Liters @ 30.3 lpm) with greater than 85% reduction, estmated using 3ppm of chloramine.

9 psid @ 4.51 GPM

LED REPLACEMENT NOTIFICATIONS

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.







SUBSTANCE	INFLUENT CHALLENGE CONCENTRATION (MG/L)	MAXIMUM PERMISSIBLE PRODUCT WATER CONCENTRATION (MG/L)	NSF/ANSI STANDARD
Lead	0.15 +/- 10%	0.01	53
Cyst	minimum 50,000/L	99.95%	53
PFOA/PFOS	1.5 +/- 10%	0.07	P473

Minimum Operating Temperature34 F / 1 CMaximum Operating Temperature:120 F / 50 CMinimum Operating Pressure:20 psig / 1.38 barMaximum Operating Pressure:125 psig / 8.6 bar

Electrical Requirements: Grounded & Unswitched 115 V outlet and

-AAA Batteries

Filter Replacement Operating Instructions: New cartridges must be flushed for a minimum of 10 minutes prior to use. System and installation to comply with 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. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

Manufactured from NSF/ANSI standard 61 and California Prop 65 Compliant certified coconut shell carbon and raw materials.



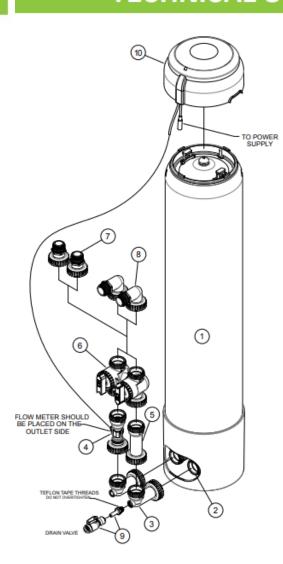


Enpress Pioneer System

EASY REPLACEMENT No Tools Means No Tools!

TECHNICAL SCHEMATICS





PART IDENTIFICATION

- ONE-E3-M Filtration System / Housing
- In/Out Head for 1.050" Riser Pipe
- 90 Degree Vertical Elbow With/without Machined Drain Port
- Flow Meter Assembly With Cord
- 5. Meter Spacer Assembly
- 6. Bypass Manifold
- 7. 1" MNPT Straight Connector
- 1" MNPT 90 Degree Elbow Connector
- 3/8" PEX Drain Valve Kit Assembly With Shut-off
- PCB Umbrella With Electronics Non-WIFI, Version 1

