

Patriot Pro - SXTi

The Patriot Pro series Residential Water Softeners are suitable for applications up to 128,000 grains of hardness removal capacity at peak flow rates of up to 35 gpm

Operation of The Softener

Hard water contains dissolved minerals in the form of Calcium (Ca), Magnesium (Mg), Iron (Fe), Copper (Cu) & Zinc (Zn). Removal of these contaminants is accomplished by softening the water through an ion exchange process. As water flows through the mineral tank, the dissolved minerals become attached onto and inside the resin. Over a period of time the resin will become saturated with contaminants, and the softener will require regeneration using a sodium or potassium brine solution.

Softening Media - Hydrolyte 525-1 Hybrid

The exchange media is a high quality, FDA certified, commercial grade strong acid hybrid (Cation) structured matrix resin with a very high whole bead count, no color throw, physically hard, and is moderately chlorine resistant. Hybrid media is engineered to encompass all the attributes of 525-1 softening media and leverage select functions of 525-2 Conditioning media when working together with Pur-Gard or Pur-gard Plus. The media combines high operating capacity with excellent chemical and physical stability for a long dependable life.

Controller/Meter

Regeneration of the system is initiated by a simplified electronic control timer, which electronically meters softened water flow to the home and makes decisions to regenerate based on water consumption and program settings.

Regeneration

These softener models are controlled electronically. A fully programmable microprocessor controls Tank Fill, Percolation, Flush, Ion Exchange, Backwash, Rapid Rinse and return to service cycles.

Control Valve

A hydraulically balanced, piston slides effortlessly through seals & spacers. All parts in the waterway are either Teflon coated brass or composite noryl® materials for a long and reliable service life.

Resin Tanks

All softener models feature a non-corrosive fiberglass tank, with a one piece thermoplastic inner liner. The tank has a maximum working pressure of 90 psi and a working temperature up to 120°F. The tank is approved by NSF, UL, FDA, and meets WQA Standard S-100. All fiberglass tanks carry a limited lifetime warranty.

Brine Tank

An 18 x 33 inch brine tank is included as part of the system. The brine tank is a combination brine maker and salt storage vessel and is made of tough, high-density polyethylene. Larger tanks are available for extra salt storage capacity, if required. Brine tanks 24" diameter and smaller feature a grid plate for maximum saturation of brine.

Brine System

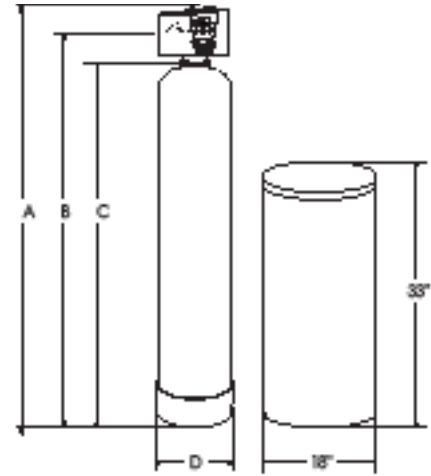
Brine refill is automatically controlled by the computer to provide the exact amount of brine for each regeneration. The Brine System has a float and safety valve shut-off, which minimizes the chance of overflowing the brine tank. All units are equipped with an air check.

Pur-Gard & Pur-Gard Plus

A high-efficiency capillary Pur-Gard dispenser & reservoir is included with this system to ensure peak performance and maximum protection from inorganic metals and minerals while maximizing system efficiency and maintaining bacteriostatic protection.

1-800-454-3429

Residential Water Softener



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maximum system capacity	76,000	96,000	128,000
economy system capacity	44,800	67,200	89,600
salt used per regen (maximum)	24	36	48
salt used per regen (economy)	17	25	34
peak flow rate	31	33	35
water pressure range	45 - 75	45 - 75	45 - 75
water temperature range	35 - 100	35 - 100	35 - 100
ambient temperature range	35 - 150	35 - 150	35 - 150
maximum piping diameter	1.25"	1.25"	1.25"
electrical rating V-Hz	24/60	24/60	24/60
dimension A - overall system height	56"	63.25"	75.5"
dimension B - system piping height	51"	58.5"	70.5"
dimension C - height of mineral tank	48"	55".5"	67"
dimension D - system tank diameter	10.5"	13.5"	14.5"

		no. of people in home								
		1	2	3	4	5	6	7	8	9
water hardness	1-10	76,000	76,000	76,000	76,000	76,000	76,000	76,000	76,000	76,000
	11-15	76,000	76,000	76,000	76,000	76,000	76,000	76,000	76,000	76,000
	16-20	76,000	76,000	76,000	76,000	76,000	76,000	76,000	76,000	76,000
	21-25	76,000	76,000	76,000	76,000	76,000	76,000	76,000	96,000	128,000
	26-30	76,000	76,000	76,000	76,000	76,000	76,000	96,000	128,000	128,000
	31-40	76,000	76,000	76,000	76,000	128,000	128,000	128,000	128,000	128,000
	41-50	76,000	76,000	76,000	96,000	128,000	128,000	128,000	128,000	128,000
		1			2		3		4	
		no. of bathrooms								

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