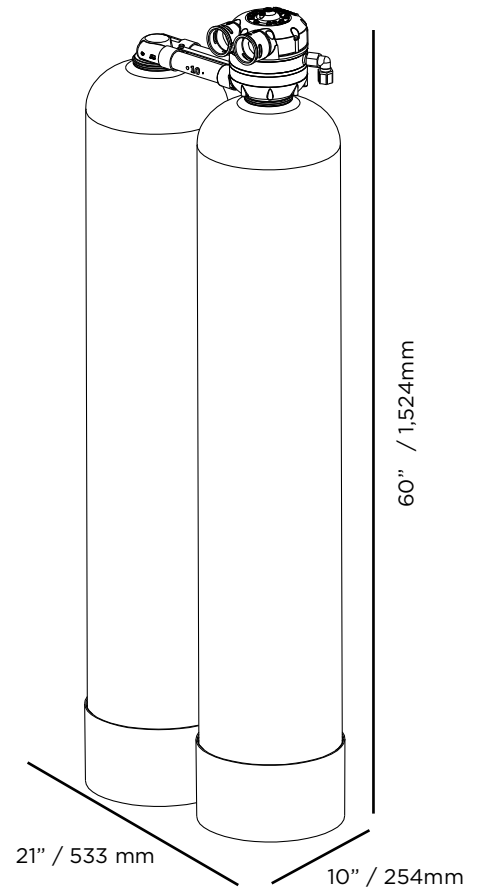
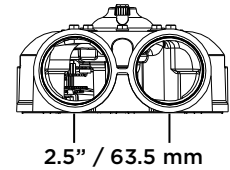


Kinetico
PREMIER
 SERIES[®] **XP**
 WATER SOFTENERS

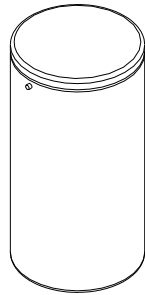
Model S350 XP

Design Specifications		
Flow Range (15/30 psig / 1-2 Δ bar)	12.0 - 19.0 gpm	45 - 82 Lpm
Flow Configuration	Alternating	
Pressure Range	25 - 125 psi Dynamic Pressure	2.0 - 8.6 bar Dynamic Pressure
Temperature Range	34 - 120 ° F	2 - 50 ° C
pH Range	5 - 10 SU	
Free Chlorine Cl ₂ (Max.)	0.0 mg/L	
Hardness as CaCO ₃ (Max.)	95 gpg	1,624 mg/L
System Components		
Media Vessel (Qty. 2)	10" x 54"	254 mm x 1,372 mm
Media Vessel Construction	Wrapped Polyethylene	
Empty Bed Volume	2.19 cubic feet	62 liters
Media Type	Standard Mesh Cation Resin	
Media Volume	1.6 cubic feet	45 liters
Total Bed Depth	39"	991 mm
Free Board	15"	381 mm
Riser Tube	1" ABS	25 mm ABS
Upper Distributor	0.014" Slots, ABS Basket	0.36mm Slots, ABS Basket
Lower Distributor	0.014" Slots, ABS Basket	0.36mm Slots, ABS Basket
Under Bedding	None	
Regeneration Control	Non-electric Use Meter	
Regeneration Type	Countercurrent	
Metering Flow Range	0.30 - 25.0 gpm	1.1 - 94.6 Lpm
Connections		
Inlet / Outlet Connection	Custom E-clip Adapter	
Drain Connection	0.5" Tube	
Brine Line Connection	0.375" Tube	
Power	None	
System Part Numbers		
Premier S350 XP, no brine drum	16534	
Premier S350 XP, 18 x 35 brine drum	16921	
Dimensions and Weight		
Height	60 in.	1,542 mm
Width	21 in.	533 mm
Depth	10 in.	254 mm
Shipping Weight	175 lbs.	79 kg
Operating Weight	350 lbs.	159 kg
Regeneration Specifications		
Regeneration Volume	102 gallons	386 liters
Regeneration Time	90 minutes	
Backwash Flow Control	3.00 gpm	11.3 Lpm
Brine Refill Flow Control	0.70 gpm	2.7 Lpm



Salt Setting		Capacity		Efficiency		Dosing	
5.5 lbs.	2.49 kg	25,773 grains	1,670 grams	4,686 gr./lb.	669 grams/kg	3.4 lbs./ft ³	0.05 kg/l
7.5 lbs.*	3.40 kg*	29,962 grains	1,942 grams	3,995 gr./lb.	571 grams/kg	4.7 lbs./ft ³	0.08 kg/l
10.0 lbs.	4.54 kg	35,197 grains	2,281 grams	3,520 gr./lb.	503 grams/kg	6.3 lbs./ft ³	0.10 kg/l
15.0 lbs.*	6.80 kg*	42,611 grains	2,761 grams	2,841 gr./lb.	406 grams/kg	9.4 lbs./ft ³	0.15 kg/l

*Not a certified setting by WQA



Brine Tank Options

Tank Description	18" x 35"	
Brine Tank Part Number	7938A	
Tank Height	35"	89 cm
Tank Footprint	18" DIA	46 cm DIA
Material	HDPE	
Salt Capacity	250 lbs	114 kg

Operating Profile

Softener shall remove hardness to less than 1/2 gpg (8 mg/L) when operated in accordance with the operating instructions. The system shall include two tanks. This duplex configuration shall operate with one tank on-line during service. During regeneration cycles, one tank shall provide water to service and to the regenerating tank. A water meter shall initiate system regeneration. The water meter shall measure the processed volume and be adjustable. Service flow shall be downflow and regeneration flow shall be upflow.

Regeneration Control Valve

The regeneration control valve shall be top mounted (top of media tank) and manufactured from non-corrosive materials. Control valve shall not weigh more than four pounds. Control valve shall provide service and regeneration control for two media tanks. Inlet and outlet ports shall accept a quick connect, double O-ring sealed adapter. Interconnection between tanks shall be made through the regeneration valve with a quick connect adapter. Control valve shall operate using a minimum inlet pressure of 15 psi (1 bar). Pressure shall be used to drive all valve functions. No electric hook-up shall be required. Control valve shall incorporate four operational cycles including; service, brine draw, slow rinse, and a combined fast rinse and brine refill. Service cycle shall operate in a downflow direction. The brine cycle shall flow upflow, opposite the service flow, providing a countercurrent regeneration. Control valve shall contain a fixed orifice eductor nozzle and self-adjusting backwash flow control. The control valve will prevent the by-pass of hard water to service during the regeneration cycle.

Media Tanks

The tanks shall be designed for a maximum working pressure of 125 psi (8.6 bar) and hydrostatically tested at 300 psi (20.7 bar). Tanks shall be made of polyethylene and reinforced with a fiberglass wrapping. Each tank shall include a 2.5 in. threaded top opening. Each tank shall be NSF approved. Upper and lower distribution system shall be of a slot design. Distributors will provide even flow of regeneration water and the collection of processed water.

Conditioning Media

Each softener shall include standard mesh cation resin having a minimum exchange capacity of 30,000 grains/ft³ (68.6 g/L) of CaCO₃ when regenerated with 15.0 lbs/ft³ (0.24 kg/L) of salt. The media shall be solid, of a proper particle size and shall contain no plates, shells, agglomerates or other shapes, which might interfere with the normal function of the water softener.

Brine System

A combination salt storage and brine production tank shall be manufactured of corrosion resistant, plastic. The brine tank shall have a chamber to house the brine valve assembly. The brine float assembly shall allow for adjustable salt settings and shall provide for a shutoff to the brine refill. The brine tank shall include a safety overflow connection to be plumbed to a suitable drain.