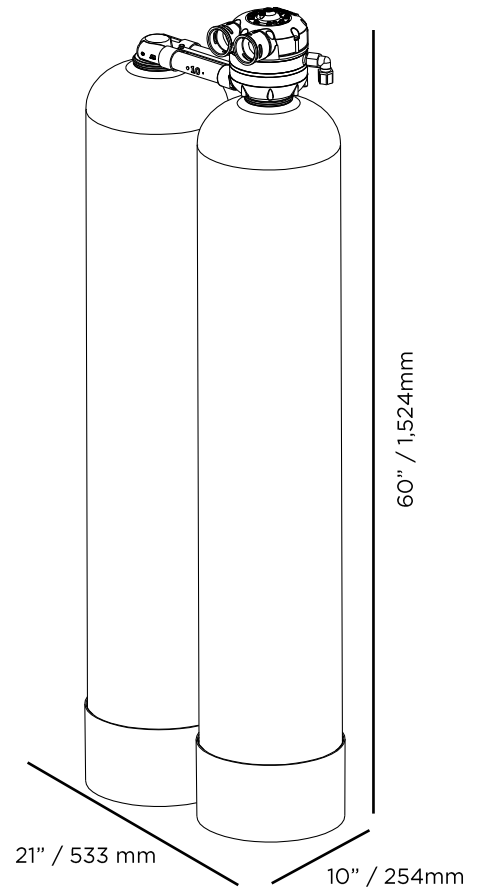
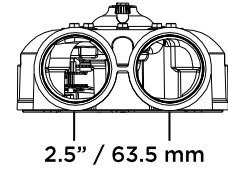


**Kinetico**  
**PREMIER**  
**SERIES<sup>®</sup> XP**  
 WATER SOFTENERS

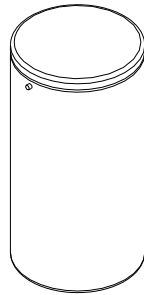
**Model S350 XP**

| 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 C <sub>l</sub> (Max.)  | 0.0 mg/L                      |                                |
| Hardness as CaCO <sub>3</sub> (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 <sup>3</sup> | 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 <sup>3</sup> | 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 <sup>3</sup> | 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 <sup>3</sup> | 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/ft<sup>3</sup> (68.6 g/L) of CaCO<sub>3</sub> when regenerated with 15.0 lbs/ft<sup>3</sup> (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.