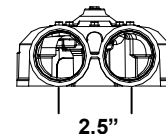


# Kinetic PREMIER

SERIES™

WATER SOFTENERS

## Model Q850 OD



### System Components

Upper Media Vessel (Qty.) Size.....(2) 8" x 17"  
 Vessel Construction.....Fiberglass Wrapped Engineered Plastic  
 Bed Volume (empty / media) .....0.40 ft<sup>3</sup> / 0.40 ft<sup>3</sup>  
 Media Type.....Fine Mesh Cation Resin  
 Lower Media Vessel (Qty.) Size.....(2) 8" x 17"  
 Vessel Construction.....Fiberglass Wrapped Engineered Plastic  
 Bed Volume (empty / media) .....0.40 ft<sup>3</sup> / 0.40 ft<sup>3</sup>  
 Media Type.....Acid Washed Carbon  
 Riser Tube.....1" ABS  
 Distributor Upper.....0.014" Slots, Engineered Plastic Basket  
 Lower.....0.009" Slots, Stainless Steel Flat Plate  
 Regeneration Control .....Non-electric Use Meter  
 Regeneration Type.....Countercurrent  
 Meter Type.....0.3 - 25.00 gpm Polypropylene Turbine

### Inlet Water Quality

Pressure Range .....15 – 125 psi Dynamic Pressure  
 Temperature Range .....34 – 120° F  
 pH Range .....5 – 10 SU  
 Free Chlorine Cl<sub>2</sub> (Max.) .....3.0 mg/L  
 Hardness as CaCO<sub>3</sub> (Max.) .....44 gpg

### Operating Specs

Flow Range (15 / 30 psig).....11.0 - 15.0 gpm  
 Flow Configuration.....Overdrive  
 Dimensions (Width x Depth x Height) .....17" x 8" x 42"  
 Weight (Operating / Shipping).....200 / 160 lbs.

### Connections

Inlet / Outlet Connections .....Custom E-clip Adapter  
 Drain Connection.....0.50" Tube  
 Brine Line Connection .....0.375" Tube  
 Power.....None

### System Part Numbers

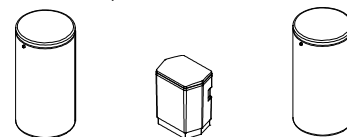
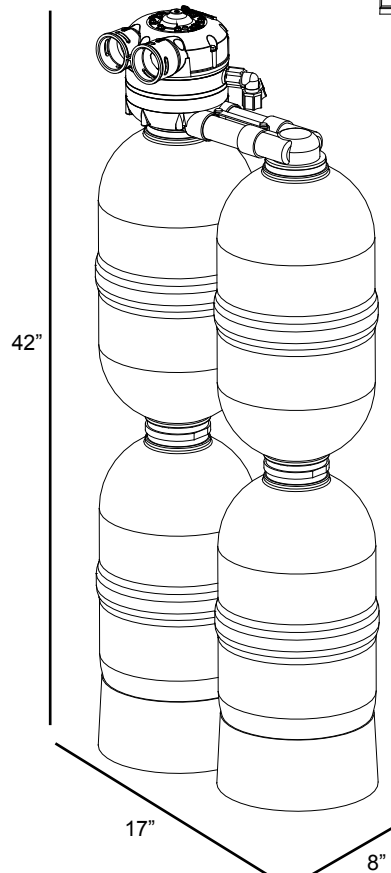
Premier S850 OD, 16" x 20" brine tank.....15119  
 Premier S850 OD, no brine tank.....15120

### Brine Tank Options

Tank Description.....	K-Spray 12" x 16" x 20" .....	18" x 35"
Brine Tank Part Number.....	9793 .....	7202 .....
Tank Height.....	35" .....	20" .....
Tank Footprint.....	18" DIA .....	12 x 16" .....
Material.....	HDPE .....	HDPE .....
Salt Capacity.....	200 lbs. ....	50 lbs. ....

### Regeneration Specifications

Regeneration Volume.....13 gallons  
 Regeneration Time.....11 minutes  
 Backwash Flow Control.....2.50 gpm  
 Brine Refill Flow Control.....0.40 gpm



Salt Setting	Capacity	Efficiency	Dosing
**1.0 lbs.	9,533 grains	4,766 gr./lb.	2.5 lbs./ft <sup>3</sup>

\*\*Settings certified by WQA

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## Model Q850 OD

### Estimated Carbon Effectiveness

Inlet Free Cl <sub>2</sub>	Gallons	Time
0.25 mg/L	480,000	36 months
0.5 mg/L	304,000	24 months
1.0 mg/L	197,000	18 months
1.5 mg/L	128,000	15 months
2.0 mg/L	80,000	12 months
3.0 mg/L	40,000	6 months
4.0 mg/L	20,000	3 months

### Operating Profile

Softener shall remove hardness to less than 1 gpg when operated in accordance with the operating instructions. System shall provide continuous softened and filtered water through the use of a quad (four tanks) configuration. This quad configuration shall operate with all tanks on-line during service. During regeneration cycles, one set of tanks (softener and filter) 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 upflow through the tanks, and regeneration flow shall be downflow.

### 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. 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 an upflow direction. The brine cycle shall flow downflow, 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 and hydrostatically tested at 300 psi. Tanks shall be made of nylon wrapped with a 2.5 in. threaded top opening. Each tank shall be NSF approved. Upper and lower distribution system shall be of a slot design. They will provide even distribution of regeneration water and the collection of processed water.

### Media

Each unit shall include 0.4 ft<sup>3</sup> of non solvent fine mesh cation resin and 0.4 ft<sup>3</sup> of activated carbon.

### Brine System

A combination salt storage and brine production tank shall be manufactured of corrosion resistant, rotationally molded rigid polyethylene. 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.