

Kinetic PREMIER

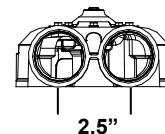
SERIES™

WATER SOFTENERS

Model Q850

System Components

Upper Media Vessel (Qty.) Size..... (2) 8" x 17"
 Vessel Construction..... Nylon Wrapped
 Bed Volume (empty / media) 0.40 ft³ / 0.40 ft³
 Media Type..... Fine Mesh Cation Resin
 Lower Media Vessel (Qty.) Size..... (2) 8" x 17"
 Vessel Construction..... Engineered Plastic
 Bed Volume (empty / media) 0.40 ft³ / 0.40 ft³
 Media Type..... Acid Washed Carbon
 Riser Tube..... 1" ABS
 Distributor Upper..... 0.009" 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 Cl₂ (Max.) 3.0 mg/L
 Hardness as CaCO₃ (Max.) 46 gpg

Operating Specs

Flow Range (15 / 30 psig)..... 6.0 - 12.0 gpm
 Flow Configuration..... Alternating
 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

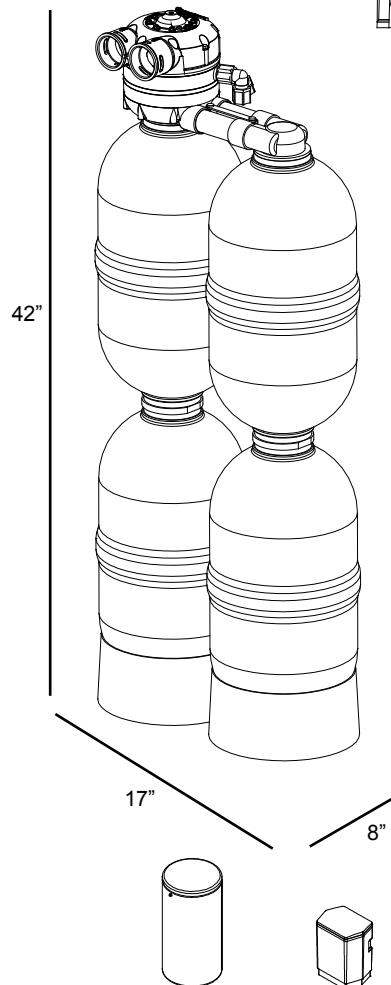
Premier S850, 16 x 20 brine tank..... 15125
 Premier S850, no brine tank 15126

Brine Tank Options

Tank Description.....	K-Spray ...	12 x 16 x 20	.....	18 x 35
Brine Tank Part Number.....	9793	7202	.....	7938
Tank Height.....	35"	20"	.....	35"
Tank Footprint.....	18" DIA	12 x 16"	.....	18" DIA
Material.....	HDPE	HDPE	.....	HDPE
Salt Capacity.....	200 lbs.	50 lbs.	.....	250 lbs

Regeneration Specifications

Regeneration Volume..... 15 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.	4,766 grains	4,766 gr./lb.	2.5 lbs./ft ³

**Settings certified by WQA

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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 one set of 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 ft³ of Non Solvent Fine Mesh Cation Resin and 0.4 ft³ 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.