

System Components Media Vessel (qty) Size(2) 254 x 1,372 mm Media Vessel Construction Wrapped Polyethylene Empty Bed Volume62 liters Media Type Non Solvent Cation Resin Media Volume42 liters Upper 0.36 mm Slots, ABS Basket Distributor Lower 0.36 mm Slots, ABS Basket Under bedding.....None Regeneration ControlNon-electric Use Meter Regeneration Type...... Countercurrent Meter Type 1.1 – 94.6 lpm Polypropylene Turbine **Inlet Water Quality** Pressure Range1.0 – 8.6 bar Dynamic Pressure pH Range 5 – 10 SU 1,524 mm Hardness as CaCO₃ (Max.)1,830 mg/l **Operating Specs** Flow Range (1-2 Δ bar)......45 – 82 lpm Dimensions (width x depth x height)533 x 254 x 1,524 mm Weight (Operating / Shipping)......159 / 79 kg Connections Inlet / Outlet Connections.......Custom Adapter and E-Clip Power......None 533 mm 254 mm **System Part Numbers Brine Tank Options** Tank Description K-Spray K-Spray **Regeneration Specifications** Regeneration Time......90 minutes Backwash Flow Control.......11.3 lpm Brine Refill Flow Control......2.7 lpm **Disc Selection** (Compensated Hardness*) Setting Capacity Efficiency Dosing **Meter Disc** 2 3 4 5 0.06 kg/l **2.5 kg 1,634 grams 655 grams/kg 188 359 513 650 3.4 kg 1,996 grams 587 grams/kg 0.08 kg/l 239 445 650 821 **4.5 kg 2,659 grams 586 grams/kg 291 530 787 992 1,300 1,454 0.11 kg/l 1 146 1 607 2,758 grams 405 grams/kg 6.8 kg 0.16 kg/l 325 633 889 1,129 1,300 1,505 1,76 1,830 Liters/Regeneration: 2,164 1,623 1,298 6,492 3,246 1,082 927 811

Kinetico 2100s

*Compensated hardness in mg/l = Hardness + (51 x Fe in mg/l)

** Settings certified by NSF and or WQA



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Operating Profile

Softener shall remove hardness to less than 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 down-flow and regeneration flow shall be up-flow.

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 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 an up-flow direction. The brine cycle shall flow down-flow, 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 bypass of hard water to service during the regeneration cycle.

Media Tanks

The tanks shall be designed for a maximum working pressure of 8.6 bar and hydrostatically tested at 20.7 bar. Tanks shall be made of engineered plastic with a 2.5 in. threaded top opening. Each tank shall be NSF approved. Upper distribution system shall be of a slot design. Lower distribution system shall be of a flat plate design. Distributors will provide even flow of regeneration water and the collection of processed water.

Conditioning Media

Each softener shall include non-solvent cation resin having a minimum exchange capacity of 68.6 grams of CaCO₃ per liter of resin when regenerated with 0.24 kg of salt per liter of resin. 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 shut-off to the brine refill. The brine tank shall include a safety overflow connection to be plumbed to a suitable drain.