

Kinetico 4040s 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 ³ / 0.40 ft ³
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 ³ / 0.40 ft ³
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	35 – 120° F
pH Range	5 – 10 SU
Free Chlorine Cl ₂ (Max.)	2.0 mg/L
Hardness as CaCO ₃ (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 Adapter and E-clip
Drain Connection.....	0.50" Tube
Brine Line Connection	0.375" Tube
Power	None

System Part Numbers

Kinetico 4040s OD, 18" x 35" brine tank	16109
Kinetico 4040s OD, 12" x 16" x 20" brine tank.....	11057
Kinetico 4040s OD, K-Spray	11060
Kinetico 4040s OD, no brine tank	11058

Brine Tank Options

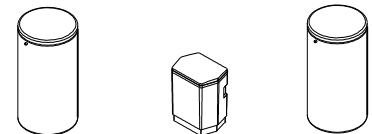
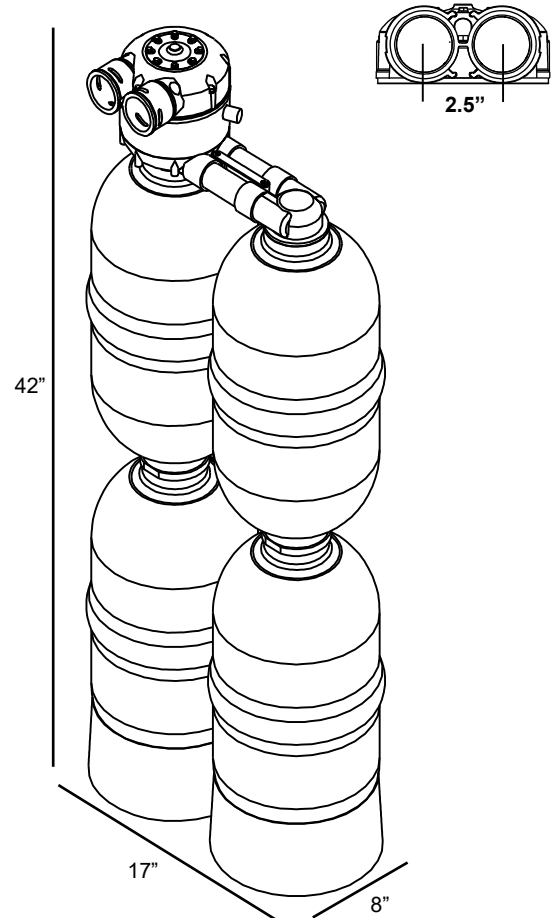
Tank Description.....	K-Spray 12" x 16" x 20"	18" x 35"	
Brine Tank Part Number	9793	7202	7938A
Tank Height	35"	20"	35"
Tank Footprint	18" DIA	12 x 16"	18" DIA
Material	HDPE	HDPE	HDPE
Salt Capacity	200 lbs.	50 lbs.	250 lbs

Regeneration Specifications

Regeneration Volume.....	13 gallons
Regeneration Time	11 minutes
Backwash Flow Control	3.50 gpm
Brine Refill Flow Control	0.40 gpm

Setting	Capacity	Efficiency	Dosing	Meter Disc
** 1.0 lbs.	4,921 grains	4,921 gr./lb.	2.5 lbs./ft ³	
Gallons/Regeneration:				

** Settings certified by NSF and or WQA



Disc Selection

(Compensated Hardness*)

1	2	3	4	5	6	7	8
7	15	21	27	31	36	40	44
657	329	219	164	131	110	94	82

*Compensated hardness in gpg = Hardness + (3 x Fe in mg/L)

Estimated Carbon Effectiveness

Inlet Free Cl ₂	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 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.