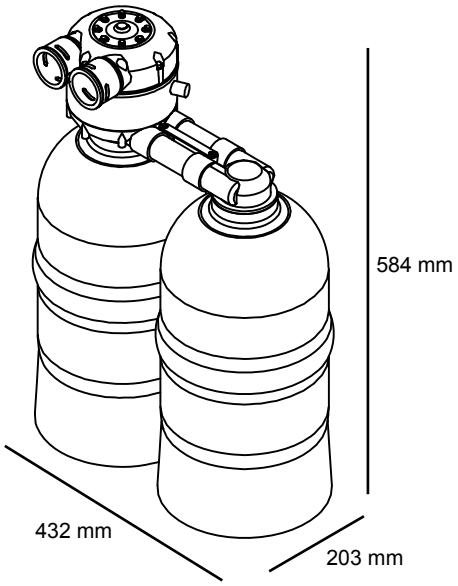
Kinetico®
water systems

Kinetico 2040s OD

System Components

Media Vessel (qty) Size	(2) 203 x 432 mm
Media Vessel Construction	Engineered Plastic
Empty Bed Volume	11 liters
Media Type	Fine Mesh Cation Resin
Media Volume	11 liters
Bed Depth	Packed
Free Board	None
Riser Tube	25 mm ABS
Distributor Upper	0.23 mm Slots, Engineered Plastic Basket
Lower	0.23 mm Slots, Stainless Steel Flat Plate
Under bedding	None
Regeneration Control	Non-electric Use Meter
Regeneration Type	Countercurrent
Meter Type	1.1 – 94.6 lpm Polypropylene Turbine



Inlet Water Quality

Pressure Range	1.0 – 8.6 bar Dynamic Pressure
Temperature Range	2 – 50° C
pH Range	5 – 10 SU
Free Chlorine Cl_2 (Max.)	2.0 mg/l
Hardness as $CaCO_3$ (Max.)	752 mg/l

Operating Specs

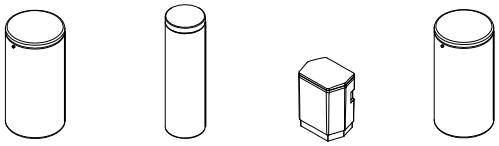
Flow Range (1-2 Δ bar)	41.6 / 56.7 lpm
Flow Configuration	Overdrive
Dimensions (width x depth x height)	432 x 203 x 584 mm
Weight (Operating / Shipping)	54 / 41 kg

Connections

Inlet / Outlet Connections	Custom Adapter and Bracket
Drain Connection	0.5” Tube
Brine Line Connection	0.375” Tube
Power	None

System Part Numbers

Kinetico 2040s OD, 18 x 35 brine tank	11125
Kinetico 2040s OD, 12 x 16 x 20 brine tank	11120
Kinetico 2040s OD, K-Spray	11127
Kinetico 2040s OD, no brine tank	11121



Brine Tank Options

Tank Description	K-Spray	12 x 40	12 x 16 x 20	18 x 35
Brine Tank Part Number	9793	1479	7202	7938
Tank Height	89 cm	102 cm	51 cm	89 cm
Tank Footprint	46 cm DIA	30 cm DIA	30 x 41 cm	46 cm DIA
Material	HDPE	HDPE	HDPE	HDPE
Salt Capacity	91 kg	45 kg	23 kg	113 kg

Regeneration Specifications

Regeneration Volume	26.5 liters
Regeneration Time	11 minutes
Backwash Flow Control	5.3 lpm
Brine Refill Flow Control	1.5 lpm

Setting	Capacity	Efficiency	Dosing	Meter Disc
0.45 kg	338 grams	745 grams/kg	0.04 kg/l	

Disc Selection

(Compensated Hardness*)

	1	2	3	4	5	6	7	8
Liters/Regeneration:	2,487	1,244	829	622	497	415	355	311

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

revision date: July 28, 2008

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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 both tanks 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 up-flow and regeneration flow shall be down-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 high capacity non-solvent fine mesh resin, having a minimum exchange capacity of 80 grams of $CaCO_3$ 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.