

Kinetico 2100s OD

System Components

Media Vessel (qty) Size.....	(2) 254 x 1,372 mm
Media Vessel Construction.....	Wrapped Polyethylene
Empty Bed Volume.....	62 liters
Media Type.....	Non Solvent Cation Resin
Media Volume.....	42 liters
Bed Depth.....	991 mm
Free Board.....	381 mm
Riser Tube.....	25 mm ABS
Distributor Upper.....	0.36 mm Slots, ABS Basket
Lower.....	0.36 mm Slots, ABS Basket
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.).....	975 mg/l

Operating Specs

Flow Range (15 / 30 psig).....	79 – 117 lpm
Flow Configuration.....	Overdrive
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
Drain Connection.....	0.5" Tube
Brine Line Connection.....	0.375" Tube
Power.....	None

System Part Numbers

Kinetico 2100s OD, 18 x 35 brine drum.....	11128
Kinetico 2100s OD, no brine drum.....	11129

Brine Tank Options

Tank Description.....	K-Spray.....	18 x 35
Brine Tank Part Number.....	9763A.....	7938
Tank Height.....	89 cm.....	89 cm
Tank Footprint.....	46 cm DIA.....	46 cm DIA
Material.....	HDPE.....	HDPE
Salt Capacity.....	114 kg.....	114 kg

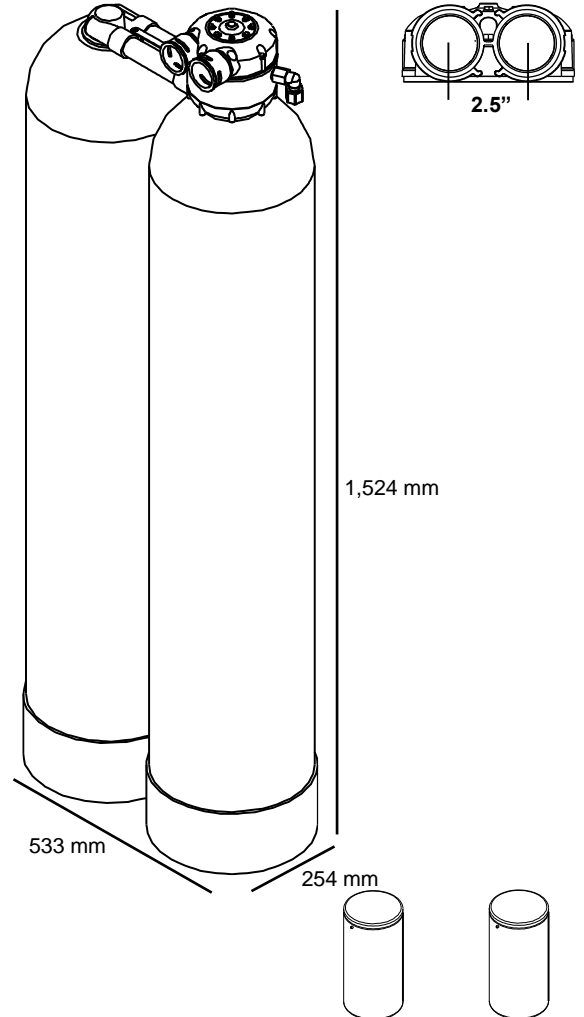
Regeneration Specifications

Regeneration Volume.....	386 liters
Regeneration Time.....	90 minutes
Backwash Flow Control.....	11.3 lpm
Brine Refill Flow Control.....	2.7 lpm

Setting	Capacity	Efficiency	Dosing	Meter Disc
**2.5 kg	1,634 grams	655 grams/kg	0.06 kg/l	
**4.5 kg	2,659 grams	586 grams/kg	0.11 kg/l	
6.8 kg	2,758 grams	405 grams/kg	0.16 kg/l	

Liters/Regeneration:

** Settings certified by NSF and or WQA



Disc Selection

(Compensated Hardness*)

1	2	3	4	5	6	7	8
86	171	239	308	376	428	479	513
137	257	376	462	564	650	718	787
171	325	462	581	684	787	889	975
14,494	7,247	4,831	3,624	2,899	2,416	2,071	1,812

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

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 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 a down-flow direction. The brine cycle shall flow up-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.