

# Kinetico 2030s



Media Vessel (qty) Size   (2) 178 x 889 mm     Media Vessel Construction   Wrapped Polyethylene     Empty Bed Volume   19.8 liters     Media Type   Non Solvent Cation Resin     Media Volume   13.3 liters     Bed Depth   584 mm     Free Board   305 mm     Riser Tube   1" 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 <sub>2</sub> (Max.)   2.0 mg/l     Hardness as CaCO <sub>3</sub> (Max.)   770 mg/l	System Components	
Empty Bed Volume   19.8 liters     Media Type   Non Solvent Cation Resin     Media Volume   13.3 liters     Bed Depth   584 mm     Free Board   305 mm     Riser Tube   1" 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 <sub>2</sub> (Max.)   2.0 mg/l	Media Vessel (qty) Size	(2) 178 x 889 mm
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Lower		
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     Temperature Range   1.0 – 8.6 bar Dynamic Pressure     Temperature Range   2 – 50° C     pH Range   5 – 10 SU     Free Chlorine Cl <sub>2</sub> (Max.)   2.0 mg/l	Distributor Upper	0.36 mm Slots, ABS Basket
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$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Inlet Water Quality	
pH Range	Pressure Range	1.0 – 8.6 bar Dynamic Pressure
pH Range	Temperature Range	2 – 50° C
Free Chlorine Cl <sub>2</sub> (Max.)2.0 mg/l	pH Range	5 – 10 SU
Hardness as CaCO <sub>3</sub> (Max.)770 mg/l		
	Hardness as CaCO <sub>3</sub> (Max.)	770 mg/l

**Operating Specs** 

Flow Range (1-2 Δ bar)	34 – 57 lpm
Flow Configuration	Alternating
Dimensions (width x depth x height)	381 x 178 x 1,041 mm
Weight (Operating / Shipping)	64 / 47.6 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 2030s, 18 x 35 brine drum	. 11020A
Kinetico 2030s, no brine drum	11021A
Kinetico 2030s, no brine drum, no resin	11083A

### **Brine Tank Options**

Tank Description	12 x 16 x 20	12 x 40	K Spray	18 x 35
Brine Tank Part Number	7202	1479B	9763Á	7938
Tank Height	51 cm	102 cm	89 cm	89 cm
Tank Footprint				
Material	HDPE	HDPE	HDPE	HDPE
Salt Capacity				

### **Regeneration Specifications**

Regeneration Volume	110 liters
Regeneration Time	40 minutes
Backwash Flow Control	5.3 lpm
Brine Refill Flow Control	

Setting	Capacity	Efficiency	Dosing	Meter Disc	1	2	
**0.82 kg	509 grams	624 grams/kg	0.06 kg/l		68	171	2
1.1 kg	576 grams	529 grams/kg	0.08 kg/l		86	188	2
**1.2 kg	634 grams	518 grams/kg	0.09 kg/l		103	205	3
1.4 kg	680 grams	499 grams/kg	0.10 kg/l		120	222	3

Liters/Regeneration:

381 mm		1,041 mm
381 mm	178	mm









(Compensated Hardness*)							
1	2	3	4	5	6	7	8
68	171	239	325	393	462	530	581
86	188	274	376	445	530	599	667
103	205	308	393	479	564	650	735
120	222	325	428	513	616	701	770
4,743	2,372	1,581	1,186	949	791	678	593
*Compensated hardness in mg/l = Hardness + (51 x Fe in mg/l)							
	86 103 120 4,743	68 171 86 188 103 205 120 222 4,743 2,372	1   2   3     68   171   239     86   188   274     103   205   308     120   222   325     4,743   2,372   1,581	1   2   3   4     68   171   239   325     86   188   274   376     103   205   308   393     120   222   325   428     4,743   2,372   1,581   1,186	1   2   3   4   5     68   171   239   325   393     86   188   274   376   445     103   205   308   393   479     120   222   325   428   513     4,743   2,372   1,581   1,186   949	1   2   3   4   5   6     68   171   239   325   393   462     86   188   274   376   445   530     103   205   308   393   479   564     120   222   325   428   513   616     4,743   2,372   1,581   1,186   949   791	1   2   3   4   5   6   7     68   171   239   325   393   462   530     86   188   274   376   445   530   599     103   205   308   393   479   564   650     120   222   325   428   513   616   701     4,743   2,372   1,581   1,186   949   791   678

<sup>\*\*</sup> Settings certified by NSF and or WQA



## Kinetico 2030s

### **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 CaCO<sub>3</sub> 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.