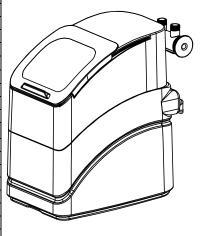
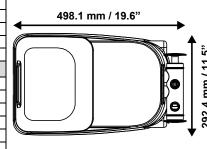
Kinetico ESSENTIAL

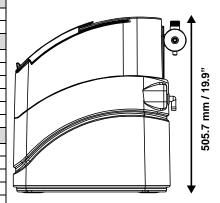
SERIES®

Essential 8

Design Specifications										
Service Flow Rate	30 Lpm	8 gpm								
Flow Rate @ 15 psid	36 Lpm	9.5 gpm								
Pressure Range	1.7 – 8.6 bar	25 – 125 psi								
Temperature Range	2 - 50 °C	35 - 120° F								
Free Chlorine	≤ 1.0 mg/L	≤ 1.0 mg/L								
Compensated Hardness	≤ 600 mg/L	≤ 35 gpg								
Iron (ferrous)	< 0.5 mg/L	< 0.5 mg/L								
Iron (ferric)	< 0.01 mg/L	< 0.01 mg/L								
		,								
System Components										
Media Vessel (Qty. 1)	203 mm x 330 mm	8" x 13"								
Media Vessel Construction	Fiberglass Wrapp									
Empty Bed Volume	7.4 liters	0.26 cubic feet								
Media Type	Fine Mes									
Media Volume (per tank)	7.4 liters	0.26 cubic feet								
Total Bed Depth	254 mm	10"								
Free Board	No	ne								
Riser Tube	27 mm ABS	1.05" ABS								
Upper Distributor	0.18 mm Slots, Cone Type	0.007" Slots, Cone Type								
Lower Distributor	0.18 mm Slots, Cone Type	0.007" Slots, Cone Type								
Regeneration Control	Volun									
Service Flow	Upf									
Regeneration Flow	Dowr									
Regeneration Type	Counter									
Hard Water By-pass During Regeneration	Autor									
Salt Capacity (Pellet)	23.6 kg	52 lbs.								
System By-pass	Inclu									
, , , , , , , , , , , , , , , , , , , ,										
Connections										
Inlet / Outlet Connections	Custom Adapte	er and Bracket								
Drain Connection										
Brine Line Connection	· · · · · · · · · · · · · · · · · · ·									
Brine Tank Overflow										
Power										
System Part Number										
Essential 8	159	037								
Dimensions and Weight										
Height	505.7 mm	19.9 in.								
Width	292.4 mm	11.5 in.								
Depth	498.1 mm	19.6 in.								
Shipping Weight	14.5 kg	32 lbs.								
Operating Weight	45.4 kg	100 lbs.								
Regeneration Specifications at 3	5 psi									
Offline Time during Regeneration Cycle 13.5 minutes										
Total Regeneration Cycle Time										
Total Regeneration Volume	25 liters	6.6 gallons								
Salt Used per Regeneration	0.36 kg	0.8 lbs.								
Salt Dose	49.3 grams NaCl/liter resin	3.1 lbs./cu. ft.								
System Capacity	176 grams	2,678 grains								
Backwash Flow Rate	3.78 Lpm	1.0 gpm								
		<u>g</u> p								







SERIES®

Essential 8

	Setting	Α	В	С	D	Е	F		G		Н	-		-	- 1	-		-	
Essential 8	Comp. Hardness (ppm)	112	124	138	157	180	213	235	262	293	336	352	390	441	470	502	561	600	CAUTION! DO NOT SET IN BLACK AREA!
	Comp. Hardness (°TH)	11	12	14	16	18	21	23	26	29	34	35	39	44	47	50	56	60	
	Comp. Hardness (°dH)	6	7	8	9	10	12	13	15	16	19	20	22	25	26	28	31	34	
	Comp. Hardness (gpg)	6	7	8	9	10	12	13	15	17	19	20	22	25	27	29	32	35	

Operating Profile

The softener shall remove hardness to less than 17.1 mg/L (1 gpg) when operated in accordance with the operating instructions. The system shall provide soft water using a simplex (single tank) configuration. System regenerations shall be initiated based on gallons processed. The adjustable meter shall allow regenerations to be set within 37.9 liter (10 gallon) increments.

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 2.0 kg (4.4 lbs). Control valve shall operate using a minimum pressure of 1.7 bar (25 psi). Pressure shall be used to drive all valve functions. Control valve shall incorporate five operational cycles including; service, brine draw, slow rinse, fast rinse and brine refill. Service cycle shall operate in an upflow direction. The brine cycle shall flow downflow, providing countercurrent regeneration. Control valve shall contain a fixed orifice eductor nozzle and a backwash flow control. The control valve will allow the bypass of untreated water to service during the regeneration cycle.

Media Tanks

The tanks shall be designed for a maximum working pressure of 8.6 bar (125 psi) and hydrostatically tested at 20.7 bar (300 psi). Tanks shall be made of polyethylene and reinforced with a fiberglass wrapping. Tank shall have a 63.5 mm (2.5 in) threaded top opening. Tank shall be NSF/ANSI 44 approved. Upper and lower distribution system shall be of a cone slot design. Distribution system shall provide even distribution of regeneration water and the collection of processed water.

Conditioning Media

Each softener shall use non-solvent, cation resin having a minimum exchange capacity of 971,000 g/L (30,000 grains/ft³) of CaCO₃ when regenerated with 240 g/L (15 lbs/ft³) of salt. The media shall be solid, of a proper particle size and shall contain no plates, shells, agglomerates or other shapes that 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, rigid polypropylene with an acrylic lid. The brine tank shall have an internal brine well chamber to house the brine valve assembly. The brine float assembly has one fixed salt setting 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.



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