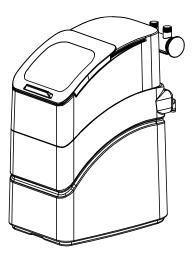
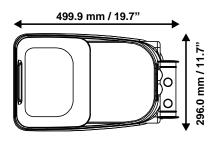
Kinetico ESSENTIAL

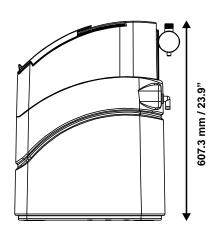
SERIES®

Essential 11

Design Specifications												
Service Flow Rate	36 Lpm	9.5 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	≤ 730 mg/L	≤ 42 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 432 mm	8" x 17"										
Media Vessel Construction	Fiberglass Wrapp	ped Polyethylene										
Empty Bed Volume	10.5 liters 0.37 cubic feet											
Media Type	Fine Mes	sh Resin										
Media Volume (per tank)	10.5 liters	0.37 cubic feet										
Total Bed Depth	432 mm	17"										
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	Volum	netric										
Service Flow	Upfl	low										
Regeneration Flow	Downflow											
Regeneration Type	Counter	current										
Hard Water By-pass During Regeneration	Autor											
Salt Capacity (Pellet)	30.8 kg	68 lbs.										
System By-pass	Inclu	ided										
•												
Connections												
Inlet / Outlet Connections	- Landau - L											
Drain Connection		0.5" Quick Connect Tubing										
Brine Line Connection												
Brine Tank Overflow	0.625" Tubing Barb											
Power	wer None											
Contain Dant Normalian												
System Part Number	450	200										
Essential 11	159	988										
Dimensions and Weight												
Dimensions and Weight	007.0	00.0										
Height	607.3 mm	23.9 in.										
Width	296.0 mm	11.7 in.										
Depth Shipping Weight	499.9 mm	19.7 in.										
Shipping Weight	22.7 kg	50 lbs.										
Operating Weight	59.0 kg	130 lbs.										
Paganaration Specifications of 2	E noi											
Regeneration Specifications at 35 psi												
Offline Time during Regeneration Cycle												
Total Regeneration Cycle Time Total Regeneration Volume												
	25 liters	6.6 gallons										
Salt Used per Regeneration	0.36 kg	0.8 lbs. 2.1 lbs./cu. ft.										
Salt Dose System Capacity	33.7 grams NaCl/liter resin 237 grams											
Backwash Flow Rate	3.78 Lpm	3,660 grains										
Dackwasii Fiuw Rale	s. ro Lpiii	1.0 gpm										







Kinetico ESSENTIAL

SERIES® Essential 11

	Setting	Α	В	С	D	E	F		G		Н		- 1	-		-	J	-	Edge	
Essential 11	Comp. Hardness (ppm)	79	88	98	111	128	152	167	185	209	238	278	334	358	417	501	549	602	730	CAUTION! DO NOT SET IN BLACK AREA!
	Comp. Hardness (°TH)	8	9	10	11	13	15	17	19	21	24	28	33	36	42	50	55	60	73	
	Comp. Hardness (°dH)	4	5	6	6	7	9	9	10	12	13	16	19	20	23	28	31	34	41	
	Comp. Hardness (gpg)	4	5	5	6	7	8	9	10	12	13	16	19	20	24	29	32	35	42	

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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