

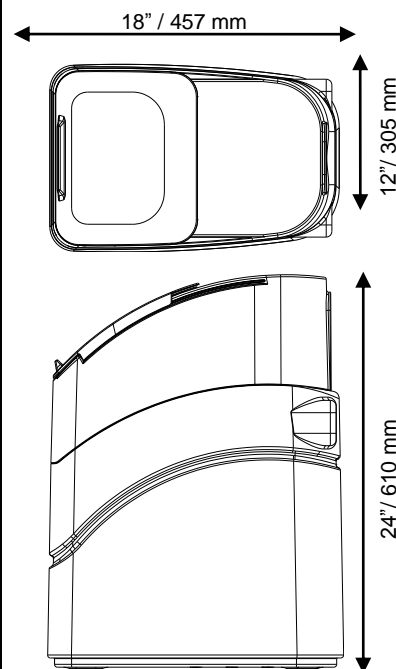
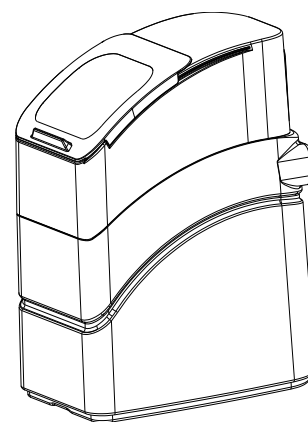
Kineticico

ESSENTIAL

SERIES®

Essential Gold

Design Specifications		
Flow Rate @ 15 psid	9.5 gpm	36 Lpm
Pressure Range	25 – 125 psi	1.7 – 8.6 bar
Temperature Range	35 - 120° F	2 – 50 °C
Free Chlorine	≤ 1.0 mg/L	≤ 1.0 mg/L
Compensated Hardness	≤ 42 gpg	≤ 718 mg/L
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)	8" x 17"	203 mm x 432 mm
Media Vessel Construction	Fiberglass Wrapped Polyethylene	
Empty Bed Volume	0.37 cubic feet	10.5 liters
Media Type	Fine Mesh Cation Resin	
Media Volume (per tank)	0.37 cubic feet	10.5 liters
Total Bed Depth	17"	432 mm
Free Board	None	
Riser Tube	1.05" ABS	27 mm ABS
Upper Distributor	0.007" Slots, Cone Type	0.18 mm Slots, Cone Type
Lower Distributor	0.007" Slots, Cone Type	0.18 mm Slots, Cone Type
Regeneration Control	Volumetric	
Service Flow	Upflow	
Regeneration Flow	Downflow	
Regeneration Type	Countercurrent	
Hard Water By-pass During Regeneration	Automatic	
Salt Capacity (Pellet)	60 lbs.	27.2 kg
System By-pass	Optional	
Connections		
Inlet / Outlet Connections	Custom Adapter and Bracket	
Drain Connection	0.5" Quick Connect Tubing	
Brine Line Connection	0.375" Quick Connect Tubing	
Brine Tank Overflow	0.625" Tubing Barb	
Power	None	
Essential Part Number		
Gold	15759	
Dimensions and Weight		
Height	24 in.	610 mm
Width	12 in.	305 mm
Depth	18 in.	457 mm
Shipping Weight	50 lbs.	22.7 kg
Operating Weight	130 lbs.	59.0 kg
Regeneration Specifications at 35 psi		
Offline Time during Regeneration Cycle	13.5 minutes	
Total Regeneration Cycle Time	15 minutes	
Total Regeneration Volume	6.6 gallons	25 liters
Salt Used per Regeneration	0.8 lbs.	0.36 kg
Salt Dose	2.1 lbs./cu. ft.	33.7 grams NaCl/liter resin
System Capacity	3,660 grains	237 grams
Backwash Flow Rate	1.0 gpm	3.78 Lpm



Operating Profile

The softener shall remove hardness to less than 1 gpg (17.1 mg/L) 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 5.2 gallon (19.7 liter) 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 4.4 lbs (2.0 kg). Control valve shall operate using a minimum pressure of 25 psi (1.7 bar). 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 125 psi (8.6 bar) and hydrostatically tested at 300 psi (20.7 bar). Tanks shall be made of polyethylene and reinforced with a fiberglass wrapping. Tank shall have a 2.5 in (63.5 mm) 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, fine mesh cation resin having a minimum exchange capacity of 30,000 grains/ft³ (971,000 g/L) of CaCO₃ when regenerated with 15 lbs/ft³ (240 g/L) 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.