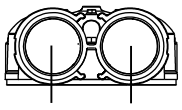
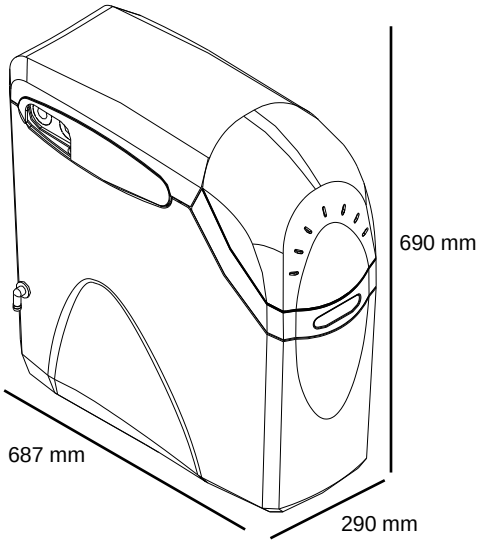
Kinetico 2050c



System Components

Media Vessel (qty) Size ..... (2) 203 mm x 432 mm
Media Vessel Construction ..... Fiberglass Wrapped Engineered Plastic
Empty Bed Volume ..... 11 litres
Media Type ..... Fine Mesh Cation Resin
Media Volume ..... 11 litres
Bed Depth ..... Packed
Free Board ..... None
Riser Tube ..... 25.4 mm ABS
Distributor Upper ..... 0.23 mm Slots, Engineered Plastic Basket
Lower ..... 0.23 mm Slots, Stainless Steel Flat Plate
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 – 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.) ..... 804 mg/L

Operating Specs

Flow Range (1 / 2 Δ bar) ..... 22.7 – 45.4 lpm
Flow Configuration ..... Alternating
Dimensions (width x depth x height) ..... 687 mm x 290 mm x 690 mm
Weight (Operating / Shipping) ..... 54 / 41 kg

Connections

Inlet / Outlet Connections ..... Custom Adapter and E-clip
Drain Connection ..... 12.7 mm Tube
Brine Line Connection ..... .9.52 mm Tube
Power ..... None

System Part Numbers

Kinetico 2050c, softener 12503A

Regeneration Specifications

Regeneration Volume ..... 26.5 litres
Regeneration Time ..... 11 minutes
Backwash Flow Control ..... 5.3 lpm
Brine Refill Flow Control ..... 1.5 lpm

Setting	Capacity	Efficiency	Dosing	Meter Disc
0.45 kg	334 grams	742 grams/kg	0.04 kg/l	
				Litres/Regeneration:

Disc Selection

(Compensated Hardness*)

1	2	3	4	5	6	7	8
103	205	308	410	513	616	718	804
2770	1385	923	592	552	461	397	348

*Compensated hardness in gpg = Hardness + (3 x Fe in mg/L)

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Operating Profile
Softener shall remove hardness to less than 1/2 gpg 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 upflow and regeneration flow shall be downflow.

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 15 psi. 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 upflow direction. The brine cycle shall flow downflow, 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 by-pass of hard water to service during the regeneration cycle.

Media Tanks
The tanks shall be designed for a maximum working pressure of 125 psi and hydrostatically tested at 300 psi. 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 fine mesh cation resin having a minimum exchange capacity of 40,000 grains/ft^3 when regenerated with 15.0 lbs/ft^3. 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.

Cabinet
The cabinet holds the entire softener, plus it is used for salt storage and brine production. The cabinet is manufactured from corrosion resistant plastics, as the brine makes for a harsh environment.