

Design Specifications

Flow Rate 1 Δ bar	19.3 Lpm
Pressure Range	1.0 – 8.6 bar Dynamic Pressure
Temperature Range	2 – 49°C
pH Range5 – 10 SU
Free Chlorine Cl ₂ (Max.)	2.0 mg/L
Hardness as CaCO ₃ (Max.)	513 mg/L
Meter Disc	5
Module	#10067B

System Components

Media Vessel (Qty.) Size	(2) 152 x 330 mm
Media Vessel Construction	Fiberglass Wrapped Polypropylene
Empty Bed Volume	4,5 liters
Media Type	High Capacity Fine Mesh Cation Resin
Media Volume	4.5 liters
Bed Depth	Packed
Free Board	None
Riser Tube	25 mm ABS
Upper Distributor	0.23 mm Slots, Engineered Plastic Basket
Lower Distributor	Stainless Steel Flat Plate
Under bedding	None
Regeneration Control	Non-electric Use Meter
Flow Configuration	Alternating
Regeneration Type	Countercurrent
Salt Capacity(Blocks).....	8 kg
Meter Type	2 – 57 Lpm Polypropylene Turbine
Nozzle Type	Standard Nozzle #14693

Connections

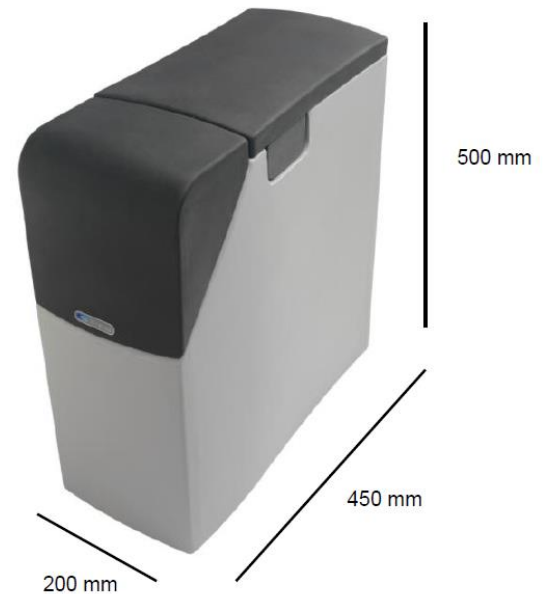
Inlet / Outlet Connections	Custom Adapter and Bracket
Drain Connection	0.375" Tube
Brine Line Connection	0.375" Tube (internal)
Overflow Connection	0.625" Tube
Power	None

Part Numbers

Aquakinetic HF No Castors	14887
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Dimensions and Weight

Height	500 mm
Width	200 mm
Depth	450 mm
Shipping Weight	21 kg
Operating Weight.....	39 kg



Regeneration Specifications @ 2bar

Regeneration Volume	24 liters
Regeneration Time	11 minutes
Backwash Flow Control	2,7 Lpm #1419
Brine Refill Flow Control.....	1,2 Lpm #10529

Disc Selection
(Compensated Hardness*)

Setting	Dosing	Meter Disc	1	2	3	4	5	6	7	8
0,45 kg	0,1 kg/l	ppm	64	127	189	249	323	388	448	507
		°dH	4	7	11	15	19	23	26	30
		°fH	6	13	19	25	32	39	45	51
		gpg	3	7	11	14	18	22	26	29

Liters/Regeneration	2207	1103	736	552	441	368	315	276
Gallons/Regeneration	583	292	194	146	117	97	83	73

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

Kinetico Aquakinetic HF

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 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 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 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 8.6 bar and hydrostatically tested at 41 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 high capacity, fine mesh cation resin having a minimum exchange capacity of 68.6 grams/liter when regenerated with 0.24 kg/liter. 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 shutoff to the brine refill. The brine tank shall include a safety overflow connection to be plumbed to a suitable drain.