

# Kinetico Aquakinetic HT

## Design Specifications

Flow Rate 1 Δ bar .....19.3 Lpm  
 Pressure Range ..... 1.0 – 8.6 bar Dynamic Pressure  
 Temperature Range ..... 2 – 65° C  
 pH Range ..... .5 – 10 SU  
 Free Chlorine Cl<sub>2</sub> (Max.) ..... 2.0 mg/L  
 Hardness as CaCO<sub>3</sub> (Max.) ..... 513 mg/L  
 Meter Disc ..... 5  
 Module.....#7147

## 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 ..... 0.19 mm Slots, Engineered Plastic Basket  
 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 #1230

## Connections

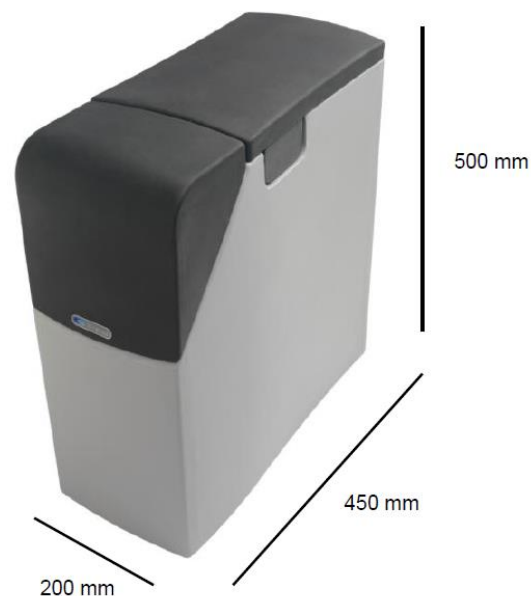
Inlet / Outlet Connections ..... Custom Adapter and Bracket  
 Drain Connection ..... 0.375" Tube  
 Brine Line Connection ..... 0.375" Tube (internal)  
 Overflow Connection ..... 0.625" Tube  
 Power ..... None

## Part Numbers

Aquakinetic HT With Castors.....110064

## 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 ..... 34 liters  
 Regeneration Time ..... 11 minutes  
 Backwash Flow Control ..... 5,3 Lpm #1053  
 Brine Refill Flow Control.....1,2 Lpm #1036

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)

# Kineticico 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.