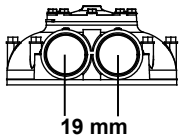
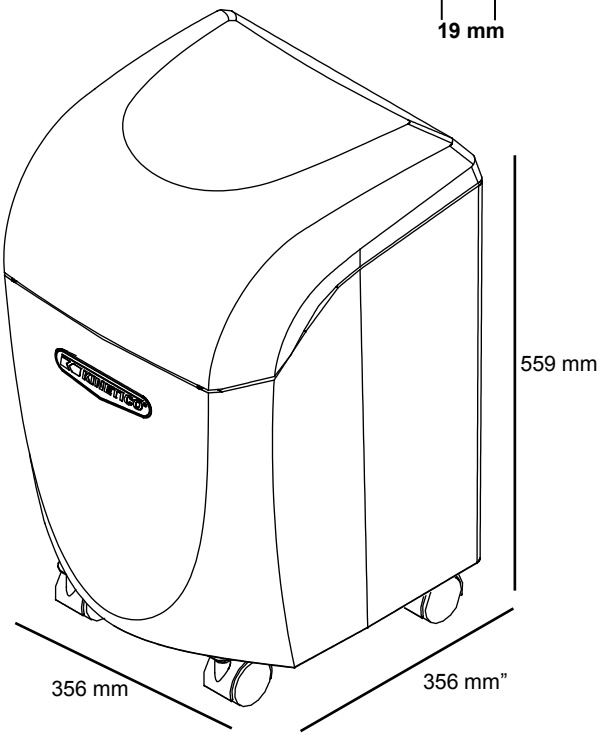
Kinetico®
water systems

CC 206c

System Components

Media Vessel (Qty. Size) ..... (2) 152 x 330 mm
Media Vessel Construction ..... Fiberglass Wrapped Engineered Plastic
Empty Bed Volume ..... 4.5 liters
Media Type ..... Standard Mesh Resin
Media Volume ..... 4.5 liters
Bed Depth ..... Packed
Free Board ..... None
Riser Tube ..... 25 mm CPVC
Distributor Upper ..... 0.30 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 – 70° C
Temperature (Continuous) ..... 65° C
pH Range ..... 5 – 10 SU
Free Chlorine Cl_2 (Max.) ..... 2.0 mg/L
Hardness as $CaCO_3$ (Max.) ..... 513 mg/L

Operating Specs

Flow Range (1-2 Δ bar) ..... 34.5 – 57.5 lpm
Flow Configuration ..... Alternating
Dimensions (Width x Depth x Height) ..... 356 x 356 x 559 mm
Weight (Operating / Shipping) ..... 49.9 – 27.2 kg

Connections

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

System Part Numbers

CC 206c, Compact Cabinet Softener 11538A
CC 206c, Compact Cabinet Softener with Wheels 11537A

Brine Tank Options

Tank Description ..... 206 Cabinet
Tank Height ..... 56 cm
Tank Footprint ..... 36 x 36 cm
Material ..... HDPE
Salt Capacity ..... 18.1 kg

Regeneration Specifications

Regeneration Volume ..... 19 liters
Regeneration Time ..... 11 minutes
Backwash Flow Control ..... 2.65 lpm
Brine Refill Flow Control ..... 0.76 lpm

Disc Selection

(Compensated Hardness*)

Setting	Capacity	Efficiency	Dosing	Meter Disc	1	2	3	4	5	6	7	8
0.23 kg	113 grams	498 grams/kg	0.04 kg / l		34	86	137	171	222	257	308	342
0.45 kg	164 grams	361 grams/kg	0.09 kg / l		68	137	188	257	325	393	462	513
				Liters/Regeneration:	2,207	1,103	736	552	441	368	315	276
				Flow (lpm) during regeneration (@ 1 Δ bar):	34.5	34.5	34.5	34.5	31.8	25.0	20.4	16.7

*Compensated hardness in mg/L = Hardness + (51 x Fe in mg/L)

revision date: August 2012

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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 standard mesh 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.