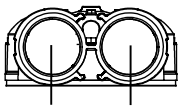
KINETICO®

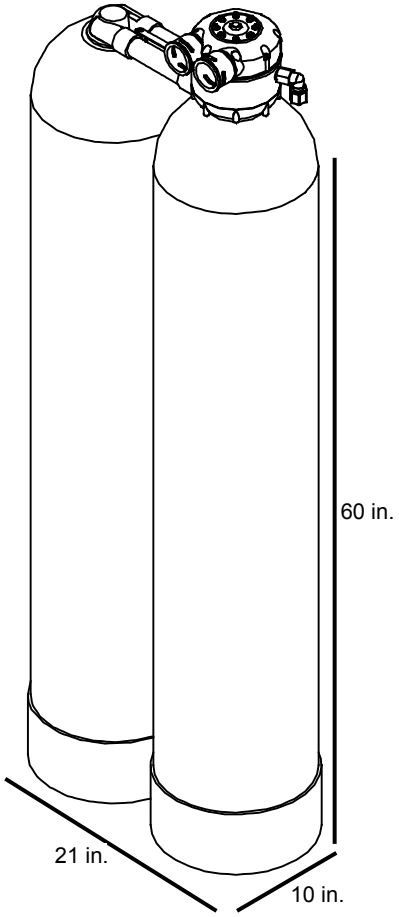
CP 210s OD

System Components

Media Vessel (qty) Size	(2) 10 x 54 in.
Media Vessel Construction	Polyglass
Empty Bed Volume	2.2 ft³
Resin Type	Cation Resin
Resin Volume (per tank)	1.5 ft³
Bed Depth	40 in.
Free Board	14 in.
Riser Tube	0.75 in., ABS
Distributors: Upper	0.014 in. Slots, ABS Basket
Lower	0.014 in. Slots, ABS Basket
Under Bedding	None
Regeneration Control	Non-Electric Use Meter
Regeneration Type	Countercurrent
Meter Type	0.75 - 40.00 gpm Polypropylene Turbine



2.5 in.



Inlet Water Quality

Pressure	25 - 125 psi
Temperature	35 - 120ºF
pH	5 - 10 SU
Cl_2, Max.	2.0 mg/l
Hardness	50 gpg

Operating Specifications

Flow Rate (15–30 psi)	21.1 - 31.6 gpm
Flow Rate (service)	21.1 gpm
Flow Configuration	Overdrive
Dimensions (width x depth x height)	21 x 10 x 60 in.

Regeneration Specifications

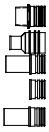
Regeneration Volume	102 gallons
Regeneration Time	90 minutes
Backwash Flow Control	3.00 gpm
Brine Refill Flow Control	0.70 gpm

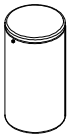
System Part Numbers

Number of Parallel Systems	1
CP 210s with OverDrive, 18 x 35 brine drum	11128
CP 210s with OverDrive, no brine drum	11129

System Connections

Inlet / Outlet Connections	1.25 in. Custom Adapter And E-Clip
PN 10739	1.25" THD Plastic Adapter
PN 10748	0.75" Sweat Copper Adapter
PN 11047	1" PVC Glue Adapter
PN 11049	1" Sweat Brass Adapter
PN 11048	1.25 - 1.5" Sweat Brass Adapterr
Drain Connection	0.5 in. Tube
Brine Line Connection	0.375 in. Tube
Power	None





System Options

Brine Tank Description	18 x 35
Brine Tank Part Number	7938
Tank Height	35 in.
Tank Footprint	18 in.
Material of Construction	HDPE
Salt Capacity	250.0 lbs.

Disc Selection

Regeneration Setting	Capacity	Efficiency	Dosing	Meter Disc	(Compensated Hardness*) 1	2	3	4	5	6	7	8
5.5 lbs.	24,612 gpg	4,474 grains/lb	3.6 lbs/ft³		5	10	15	19	23	26	29	32
10.0 lbs.	37,270 gpg	3,727 grains/lb	6.6 lbs/ft³		8	15	22	29	34	40	45	49
				Gallons/Regen	3,830	1,915	1,276	957	766	638	547	478
				Flow @ 15 psi loss During Regen. (gpm)	10.0	10.0	10.0	10.0	10.0	8.0	7.0	6.0

***Compensated Hardness in gpg = (Hardness + 3 X Fe mg/l)**

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Operating Profile
Softener shall remove hardness to less than 1 gpg when operated in accordance with the operating instructions. System shall provide continuous soft water through the use of a duplex (two tanks) configuration. This duplex configuration shall operate with both tanks 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 down-flow and regeneration flow shall be up-flow.

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 weight more than four pounds. Control valve shall provide service and regeneration control for two media tanks. Inlet and outlet ports shall accept a 1.25" 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 25 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. Regeneration cycle shall operate opposite than 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 bypass 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 polyglass with a 2.5 in. threaded top opening. Each tank shall be NSF approved. Upper and lower distribution system shall be of a slot design. They will provide even distribution of regeneration water and the collection of processed water.

Conditioning Media
Each softener shall include cation resin having a minimum exchange capacity of 30,000 grains/ft³ when regenerated with 15.0 lbs/ft³. The media shall be solid, of a proper particle size (not more that 4% through a 40 mesh U.S. standard screen, wet screening) 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, rotationally molded rigid polyethylene. 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 shut-off to the brine refill. The brine tank shall include a safety overflow connection to be plumbed to a suitable drain.