

# Kinetico 4060s OD (Macrolite®)

## System Components

Upper Media Vessel (Qty.) Size.....	(2) 203 x 432 mm
Vessel Construction.....	Wrapped Polyethylene
Bed Volume (Empty / Media).....	11 liters / 5.7 liters
Media Type.....	40 / 60 Mesh Macrolite
Lower Media Vessel (Qty.) Size.....	(2) 203 x 610 mm
Vessel Construction.....	Wrapped Polyethylene
Bed Volume (Empty / Media).....	20 liters / 20 liters
Media Type.....	Standard Mesh Cation Resin
Riser Tube.....	25 mm ABS
Distributor Upper.....	0.014" Slots, ABS Basket
Lower.....	0.014" Slots, ABS Basket
Regeneration Control.....	Non-electric Use Meter
Regeneration Type.....	Countercurrent
Meter Type.....	1.1 – 94.6 lpm Polypropylene Turbine

## Inlet Water Quality

Pressure Range.....	2.0 – 8.6 bar Dynamic Pressure
Temperature Range.....	2 – 50° C
pH Range.....	5 – 10 SU
Free Chlorine Cl <sub>2</sub> (Max.).....	2.0 mg/L
Hardness as CaCO <sub>3</sub> (Max.).....	718 mg/L

## Operating Specs

Flow Range (Δ1 / Δ2 bar).....	43.5 – 68.1 lpm
Flow Configuration.....	Overdrive
Dimensions (Width x Depth x Height).....	432 x 203 x 1,219 mm
Weight (Operating / Shipping).....	91 / 73 kg

## Connections

Inlet / Outlet Connections.....	Custom Adapter and E-clip
Drain Connection.....	0.50" Tube
Brine Line Connection.....	0.375" Tube
Power.....	None

## System Part Numbers

Kinetico 4060s OD (Macrolite), 18" x 35" brine tank.....	11223
Kinetico 4060s OD (Macrolite), no brine tank.....	11220

## Brine Tank Options

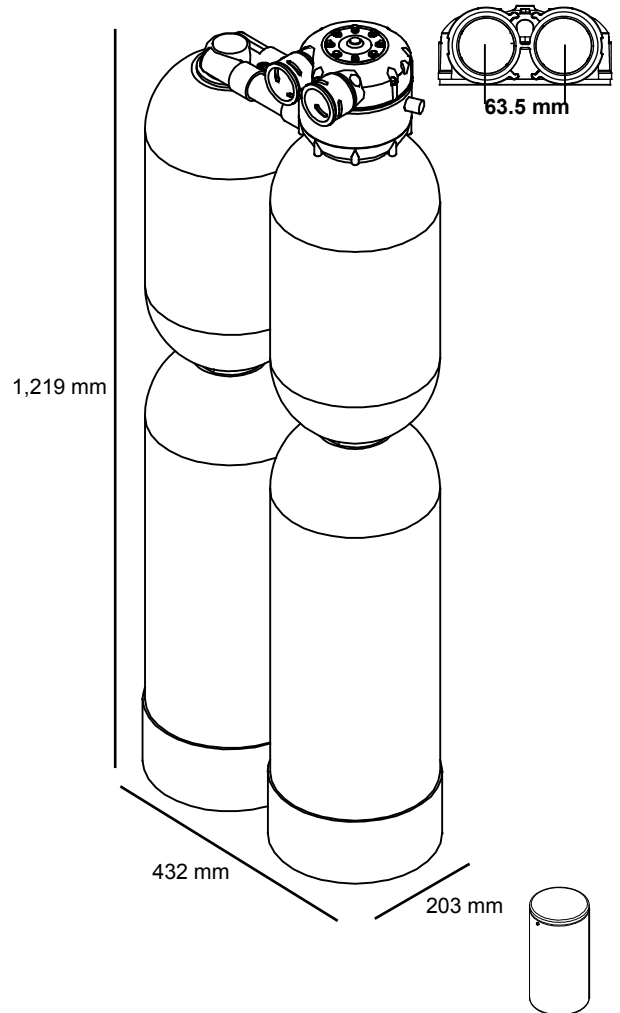
Tank Description.....	18" x 35"
Brine Tank Part Number.....	7938
Tank Height.....	89 cm
Tank Footprint.....	46 cm DIA
Material.....	HDPE
Salt Capacity.....	113 kg

## Regeneration Specifications

Regeneration Volume.....	246 liters
Regeneration Time.....	40 minutes
Backwash Flow Control.....	11.4 lpm
Brine Refill Flow Control.....	1.0 lpm

Setting	Capacity	Efficiency	Dosing	Meter Disc
** 2.0 kg	963 grams	483 grams/kg	0.1 kg/L	
			<b>Liters/Regeneration:</b>	

\*\* Settings certified by NSF and or WQA



## Disc Selection

(Compensated Hardness\*)

1	2	3	4	5	6	7	8
68	154	257	342	428	530	633	718
4,743	2,371	1,581	1,186	949	790	678	593

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

# Kineticco 4060s OD Macrolite

## Operating Profile

Softener shall remove hardness to less than 17 mg/L when operated in accordance with the operating instructions. System shall provide continuous softened and filtered water through the use of a quad (four tanks) configuration. This quad configuration shall operate with all tanks on-line during service. During regeneration cycles, one set of tanks (softener and filter) 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 downflow through the tanks, and regeneration flow shall be upflow.

## 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 a downflow direction. The brine cycle shall flow upflow, 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 20.7 bar. Tanks shall be made of fiberglass wrapped polyethylene 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.

## Media

Each unit shall include 5.7 liters of Macrolite and 20 liters of non solvent cation resin.

## 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 shutoff to the brine refill. The brine tank shall include a safety overflow connection to be plumbed to a suitable drain.