microlene

WS

Microlene Kinetico
Water Softener

Model Number: E2040SOD (Softener only),
KM2040SOD (Softener Kit incl. Bypass & Pre-filter)

With Technology by Kinetico
Kinetico

Applications

Ideal for reducing calcium, magnesium, manganese and iron from water sources to supply soft water to :-

- make cleaning easier
- make clothes and hair softer
- reduce scale in pipes and appliances

Benefits of Microlene's Kinetico Water Softeners

Microlene's Kinetico water softeners are a hard working non-electric design offering continuous supply of soft water using a twin tank system.

NON ELECTRIC

Only Microlene Kinetico uses the kinetic energy of moving water to power its system instead of electricity – thanks to the patented turbine. So you'll never have to worry about costly repairs or higher electricity bills.

24/7

Our twin tank design allows our system to backwash without ever going offline, for round the clock operation. You'll never be interrupted or inconvenienced by regeneration.

METERED REGENERATION

Based on your water hardness, the system measures water use to accurately determine when it's time to regenerate with clock like precision, resulting in up to 20% less waste water and up to 40% savings in salt. Your softener automatically adjusts to your water use patterns.

SOFT WATER RINSE

Uses only soft conditioned water to clean the media, which extends the life of the system.

COUNTER CURRENT REGENERATION

Unlike most other systems, ours regenerates in counter-current mode, a more even and efficient use of resin beads, resulting in less waste water, less salt use and a longer lasting system.

OPERATING PROFILE

The softener can remove hardness to less than 8 mg/l when operated in accordance with the operating instructions. The system comprises two tanks. This duplex configuration operates with one tank on-line during service.

During regeneration cycles, one tank provides water to service and to the regenerating tank. An internal water meter initiates system regeneration. The water meter measures the processed volume and can be adjusted based on water hardness to be treated. Service flow is down-flow and regeneration flow is up-flow.

Technical data on following page >

Microlene Kinetico Softener

SPECIFICATIONS	
INLET WATER QUALITY	
Pressure Range	1.0-8.6 Bar
Temperature Range	2 - 50 °C
pH Range	5 – 10 SU
Free Chlorine Cl2 (Max.)	2.0 mg/l
Hardness as CaCO3 (Max.)	752 mg/l
OPERATING SPECIFICATIONS	
Flow Range	41.6 / 56.7 lpm
Flow Configuration	Overdrive
Dimensions (w x d x h)	432 x 203 x 584 mm
Operating Weight	54 kg
Shipping Weight	41 kg
SYSTEM COMPONENTS	
Media Vessel Quantity	2
Size	203 x 432 mm
Media Vessel Construction	Engineered Plastic
Empty Bed Volume	11 liters
Media Type	Fine Mesh Cation Resin
Media Volume	11 liters
Bed Depth	Packed
Free Board	None
Riser Tube	25 mm ABS
Distributor Upper	0.23 mm Slots, Engineered Plastic Basket
Distributor Lower	0.23 mm Slots, Stainless Steel Flat Plate
Under bedding	None
Regeneration Control	Non-electric Use Meter
Regeneration Type	Counter Current
Meter Type	1.1-94.6 lpm Polypropylene Turbine
CONNECTIONS	
Inlet / Outlet Connections	Custom Adapter and Bracket
Drain Connection	0.5" Tube
Brine Line Connection	0.375" Tube
Power	None
BRINE TANK OPTIONS	
Tank Description (inches)	12 x 16 x 20
Brine Tank Part Number	7202
Tank Height	51 cm
Tank Footprint	30 x 41 cm
Material	HDPE
Salt Capacity	23 kg
REGENERATION SPECIFICATIONS	
Regeneration Volume	26.5 liters
Regeneration Time	11 minutes
Backwash Flow Control	5.3 lpm
Brine Refill Flow Control	1.5 lpm

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 up-flow direction. The brine cycle shall flow down-flow, 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 bypass 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 engineered plastic with a 2.5 in. threaded top opening. Each tank shall be NSF approved.

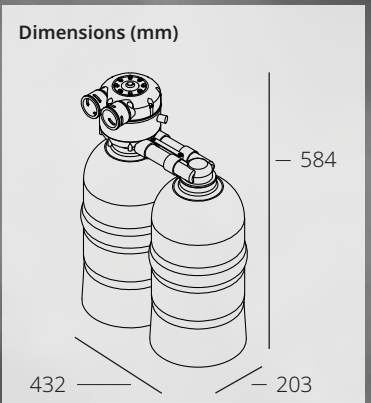
CONDITIONING MEDIA

Each softener shall include high capacity non-solvent fine mesh resin, having a minimum exchange capacity of 80 grams of CaCO3 per liter of resin when regenerated with 0.24 kg of salt per liter of resin. 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

The combination salt storage and brine production tank is manufactured of corrosion-resistant plastic. The brine tank has a chamber to house the brine valve assembly. The brine float assembly allows for adjustable salt settings and provides for a shut-off to the brine refill. The brine tank includes a safety overflow connection to be plumbed to a suitable drain.

Dimensions (mm)



DISC SELECTION (Compensated hardness) – Disc 4 Fitted**

Model	Regeneration setting	Hardness capacity	Efficiency	Dosing	Meter Disc	1	2	3	4	5	6	7	8
2040s OD	0.45 kg*	338 g	745 g/kg	0.04 kg/l		120	257	359	462	530	616	684	752
			Liters processed before regeneration			2,487	1,244	829	622	497	415	355	311

*Certified by NSF and/or WQA
**Compensated hardness in mg/l = (Hardness + 51 x Fe in mg/l)

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