

DAVEY KINETICO SOFTENER
Model Number: Mach 2060S

DEPEND ON
DAVEY

WATER PRODUCTS

WATER SOFTENERS

PRODUCT DESCRIPTION

High performance non-electric counter current water softeners

APPLICATIONS

Davey Kinetico softeners are ideal for reducing calcium, magnesium, manganese and iron from water sources.

Hard water can mean hard work.... hard work in the kitchen, laundry & bathroom. Davey's Kinetico water softeners offer a hard working alternative to make your life easier by dependably providing soft clean water.



FEATURES & BENEFITS



Non Electric

Only Davey 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

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 from the bottom up for a more even and efficient use of resin beads, resulting in less waste water, less salt use and a longer lasting system.

OPERATING LIMITS

Inlet Water Quality

Pressure Range	1.0-8.6 Bar
Temperature Range	2 - 49°C
pH Range	5 – 10 SU
Free Chlorine Cl ₂ (Max.)	2.0 mg/l
Hardness as CaCO ₃ (Max.)	1,129mg/l

Operating Specs

Flow Range (1.0 – 2.1 Bar)	44 - 68 lpm
Flow Rate (service)	44 lpm
Flow Configuration	Alternating
Dimensions	
(w x d x h)	432 x 210 x 1,168mm
Weight (Operating / Shipping)	91 / 64kg



TECHNICAL SPECIFICATIONS

SYSTEM COMPONENTS

Media Vessel (qty) Size	(2) 203 x 1,016mm
Media Vessel Construction	Fiberglass Wrapped Polyethylene
Empty Bed Volume	29.4 litres
Media Type	Non Solvent Cation Resin
Media Volume	19.8 litres
Bed Depth	635mm
Free Board	381mm
Riser Tube	25mm ABS
Distributor Upper	0.36mm Slots, ABS Basket
Lower	0.36mm Slots, ABS Basket
Under bedding	None
Regeneration Control	Non-electric Use Meter
Regeneration Type	Countercurrent
Meter Type	1.1-94.6 lpm Polypropylene Turbine

CONNECTIONS

Inlet / Outlet Connections	32mm Custom Adapter and E-clip
Drain Connection	13mm Tube
Brine Line Connection	10mm Tube
Power	None

BRINE TANK OPTIONS

Tank Description	18 x 35
Brine Tank Part Number (Accessory)	7983
Tank Height	889mm
Tank Footprint	457mm
Material	HDPE
Salt Capacity	113.4kg

REGENERATION SPECIFICATIONS

Regeneration Volume	132 Litres
Regeneration Time	45 minutes
Backwash Flow Control	7.6 lpm
Brine Refill Flow Control	1.5 lpm

Operating Profile

Softener shall remove hardness to less than 9 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 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 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 down-flow direction. The brine cycle shall flow up-flow, opposite the service flow, providing a countercurrent regeneration. Control valve shall contain a fixed orifice ejector 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 63.5mm. 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.

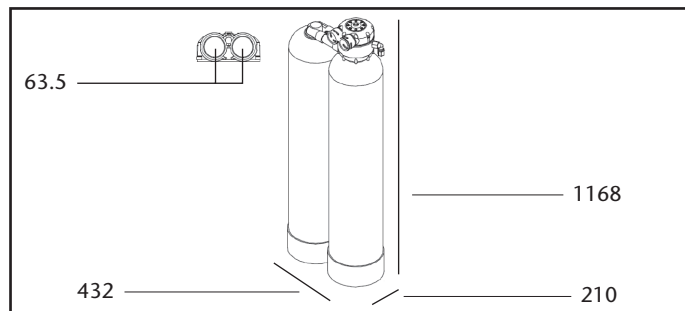
Conditioning Media

Each softener shall include non solvent cation resin having a minimum exchange capacity of 18 g/l when regenerated with 240.3g/l. 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 shut-off to the brine refill. The brine tank shall include a safety overflow connection to be plumbed to a suitable drain.

DIMENSIONS



All dimensions in mm unless otherwise stated.

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

Regeneration setting	Hardness Capacity	Efficiency	Dosing	Meter Disc	1	2	3	4	5	6	7	8
1.2kg*	809g	674g/Kg	63g/L		137	257	376	479	581	684	770	855
1.6kg	948g	592g/Kg	82g/L		154	308	462	581	701	821	923	1,026
1.8kg*	1.024Kg	568g/Kg	91g/L		171	325	479	616	752	872	975	1,077
2.0kg	1.013Kg	506g/Kg	101g/L		188	342	496	650	787	906	1,026	1,129
Litres processed before regeneration					4,743	2,373	1,582	1,185	950	791	678	594

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

(1) WHEN SUPPLYING TO STORAGE REFER TO CHART DETAILING MAXIMUM CONTINUOUS FLOW RATE PER MODEL PER DISC NO.

This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product Installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.

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DEPEND ON
DAVEY

WATER PRODUCTS

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