SERIES 5000 - SOFTENERS 1"

High flow rate softeners, equipped with the 1" single disk valve and the new Commercial Universal Controller (CUC)

All systems are available in Single, Duplex, Triplex, and Quadplex operation.

MODELS 5050, 5070, 5100, 5130, 5190, 5250, 5320

These softeners are especially designed for use in communities, blocks of flats and offices, as well as in industry. The new 1" valve is equipped with a single disk and the number of moving parts is reduced to a minimum. It is especially designed for high flow rates with low pressure drop.

All the softeners of the 1" 5000 series are now equipped with a new universal control module. It offers more flexibility when it comes to setting up a multiple-unit water softening system.
Indeed, this 'CUC' control module can be set to control from one up to four units of the same model.

With a multiple-unit system, the following configurations are possible :

Parallel Immediate :
All the units provide output water at the same time. When any unit has exhausted its capacity, it immediately goes off-line, recharges and goes back on-line.

Parallel Delayed :
All the units provide output water at the same time. When any unit has exhausted its capacity, it will stay on-line until the scheduled recharge time. This configuration is mainly designed for filter applications.

Alternating Immediate :
Typically one unit is queued up on standby until another unit in service exhausts its capacity. The standby unit in the queue is placed in service and the exhausted unit is immediately recharged. When the recharge process is complete, the fresh unit is placed in the back of the standby queue.

Peak Flow :
One or more units can be queued up on standby. Units are brought on-line whenever the water flow reaches a specific programmed trip point. If the water flow decreases, units are put back on standby.

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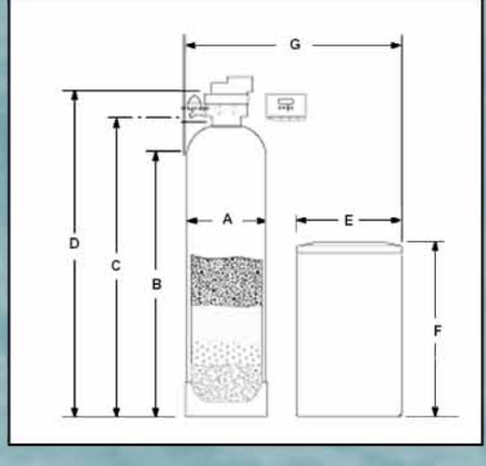
Find out about all the advantages of the 1" Softeners of the 5000 Series in the technical manual.

Models	A Ø Resin Tank mm	B Resin Tank Height mm	C Inlet-Outlet Height mm	D Overall Height mm	E Ø Brine Tank mm	F Brine Tank Height mm	G Overall width Single mm *
5050, 5070	315	1400	1475	1620			813
5100, 5130	450	1515	1588	1734			1220
5190	610	1930	2027	2172			1372
5250	610	1930	2027	2172			1372
5320	610	1930	2027	2172			1372
Brine Tank					620	870	
Brine Tank					700	1250	
Brine Tank					815	1190	



* *Duplex = 1 Brine Tank. Triplex = 2 Brine Tanks. Quadplex = 2 Brine Tanks. Dimensions for duplex, triplex and quadplex are calculated using the number of brine tanks previously mentioned.*

SPECIFICATIONS

MODEL		SOFTENERS						
		5050	5070	5100	5130	5190	5250	5320
Resin Tank Size (in.)		12" x 54"	12" x 54"	17" x 58"	17" x 58"	24" x 71"	24" x 71"	24" x 71"
Exchange Capacity * (°f.m³) @ Salt Dosage ** (kg)	1,8 kg	165	220	350	466	699	932	1165
	2,7 kg	229	305	466	621	932	1243	1553
	3,6 kg	275	366	544	725	1087	1450	1812
	4,5 kg	303	404	602	803	1204	1605	2009
	5,4 kg	321	428	641	854	1282	1709	2136
Flow Rate (l/min) @ Pressure Loss (ΔP bar) ①	18,9 l/min	0,17 ΔP	0,20 ΔP	0,10 ΔP	0,10 ΔP	0,09 ΔP	0,09 ΔP	0,09 ΔP
	37,8 l/min	0,43 ΔP	0,50 ΔP	0,29 ΔP	0,30 ΔP	0,23 ΔP	0,25 ΔP	0,26 ΔP
	56,7 l/min	0,79 ΔP	0,90 ΔP	0,55 ΔP	0,60 ΔP	0,48 ΔP	0,50 ΔP	0,52 ΔP
	75,7 l/min	1,24 ΔP	1,40 ΔP	0,90 ΔP	0,97 ΔP	0,80 ΔP	0,83 ΔP	0,86 ΔP
	94,6 l/min	1,75 ΔP	1,97 ΔP	1,30 ΔP	1,40 ΔP	1,24 ΔP	1,27 ΔP	1,31 ΔP
	113,5 l/min	2,36 ΔP	2,64 ΔP	1,80 ΔP	1,95 ΔP	1,66 ΔP	1,72 ΔP	1,77 ΔP
	132,5 l/min	-	-	2,40 ΔP	2,60 ΔP	2,20 ΔP	2,28 ΔP	2,30 ΔP
	151,4 l/min	-	-	-	-	2,80 ΔP	2,90 ΔP	3,00 ΔP
Resin Quantity (l)		42	57	85	113	170	226	283
Operating Pressure (bar)		2,07 – 8,60	2,07 – 8,60	2,07 – 8,60	2,07 – 8,60	2,07 – 8,60	2,07 – 8,60	2,07 – 8,60
Operating Temperature (°C)		2 – 37	2 – 37	2 – 37	2 – 37	2 – 37	2 – 37	2 – 37
Max. Clear Water Iron (ppm)		5	5	5	5	5	5	5
Electrical Rating		24 V – 50 Hz	24 V – 50 Hz	24 V – 50 Hz	24 V – 50 Hz	24 V – 50 Hz	24 V – 50 Hz	24 V – 50 Hz
Salt Storage Capacity (kg)		154	154	317	317	454	454	454
Ø Inlet-Outlet Connections (in.)		5/4"	5/4"	5/4"	5/4"	5/4"	5/4"	5/4"

All systems are available in Single, Duplex, Triplex, and Quadplex operation.

* The Exchange Capacity is for counter-current regeneration sizing purposes. The actual capacity could be 5%-10% greater than shown for each salt dosage.

** Salt dosages can be set to maintain desired efficiencies or changed to auto adjusting, salt efficient demand, or boiler operation. See manual for details.

① Pressure loss (bar) @	
	Continuous flow rates
	Intermittent or peak flow rates
	Flow rates not recommended (hardness leakage, reduced efficiency, etc.)

Your Authorized Dealer :

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