

Seawater Desalination RO Membrane Elements

AMI high rejection and high productivity seawater reverse osmosis membranes are specially designed for marine applications. AMI SWRO membranes are ideal for seawater desalination in shipboard applications, watermakers, land-based desalinators and sea-based desalinators.



PERFORMANCE SPECIFICATIONS

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	m ³ /day				
M-S2514A	150	0.57	2.5 × 14	2	99.2	99.6
M-S2521A	300	1.14	2.5 × 21	4	99.2	99.6
M-S2540A	700	2.65	2.5 × 40	8	99.2	99.6
M-S4014A	350	1.32	4.0 × 14	2	99.2	99.6
M-S4021A	800	3.03	4.0 × 21	4	99.2	99.6
M-S4040A	1950	7.38	4.0 × 40	8	99.2	99.6

Note: Performance specifications based on 32,000 mg/l sodium chloride, 800 psi (5.5 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

RECOMMENDED OPERATING CONDITIONS

◆ Maximum Operating Pressure	1,000 psig (6.9MPa)	◆ Maximum Feed Flow Rate	
◆ Maximum Operating Temperature	113°F (45°C)	○ 2.5" Dia. Elements	6 gpm
◆ Maximum Feed water SDI (15 min)	5	○ 4" Dia. Elements	16 gpm
◆ Chlorine Tolerance	0	◆ Feed water pH Range (Continuous)	2-11
◆ Maximum Pressure Drop:	15psig (1 bar)	◆ Feed water pH Range (Cleaning – 30 min.)	1-13



MEMBRANE ELEMENT DIMENSIONS

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-S2514A	14	35.6	11.62	30	2.5	6.4
M-S2521A	21	53.3	19	48	2.5	6.4
M-S2540A	40	101.6	38	96	2.5	6.4
M-S4014A	14	35.6	12	30	3.9	9.9
M-S4021A	21	53.3	19	48	3.9	9.9
M-S4040A	40	101.6	38	96	3.9	9.9