AMI® MEMBRANES

Fiberglass-Wrapped Low Energy (LE) Membranes

AMI Low Energy RO Membrane elements are specially designed to run at 150 psi while producing the same product flow. By using these instead of standard elements in your commercial reverse osmosis system, you can significantly reduce your operating costs. These elements are wrapped in a hard shell of FRP for added strength and to withstand higher pressure drops.

PERFORMANCE SPECIFICATIONS

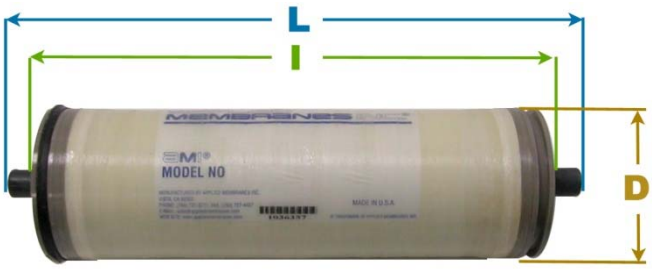
Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	lpd				
M-B2514ALE	264	999	2.5 × 14	5	98	99
M-B2521ALE	450	1,703	2.5 × 21	8	98	99
M-B2540ALE	1,000	3,785	2.5 × 40	15	98	99
M-B4014ALE	610	2,309	4.0 × 14	5	98	99
M-B4021ALE	1,148	4,345	4.0 × 21	8	98	99
M-B4040ALE	2,900	10,976	4.0 × 40	15	98	99

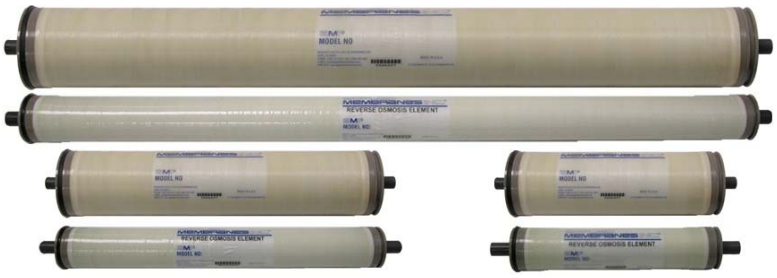
Note: Performance specifications based on 2,000 mg/l sodium chloride, 150 psi (1 MPa) applied pressure, 77ºF (25ºC) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Caution: Do not run these membranes at a pressure that will produce more than their rated product flow rate. This will lead to premature fouling of the membrane resulting in drop in permeate flow and higher TDS of the permeate.

RECOMMENDED OPERATING CONDITIONS

Maximum Operating Pressure	600 psig (4.1MPa)	Maximum Feed Flow Rate	
Maximum Operating Temperature	113°F (45°C)	o 2" Dia. Elements	3 gpm
Maximum Feed water Turbidity	1 NTU	o 2.5" Dia. Elements	6 gpm
Maximum Feed water SDI (15 min)	4	o 4" Dia. Elements	17 gpm
Chlorine Tolerance	0	Feed water pH Range (Continuous)	2-11
Maximum Pressure Drop:	15psig (1 bar)	Feed water pH Range (Cleaning – 30 min.)	1-12





MEMBRANE ELEMENT DIMENSIONS

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-B2514ALE	14	35.6	11.62	30	2.5	6.4
M-B2521ALE	21	53.3	19	48	2.5	6.4
M-B2540ALE	40	101.6	38	96	2.5	6.4
M-B4014ALE	14	35.6	12	30	3.9	9.9
M-B4021ALE	21	53.3	19	48	3.9	9.9
M-B4040ALE	40	101.6	38	96	3.9	9.9

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