

Fiberglass Extra-Low Energy (XLE) Membranes

AMI Extra-Low energy RO Membrane elements are specially designed to run at 100 psi while producing similar product flow as standard models. 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

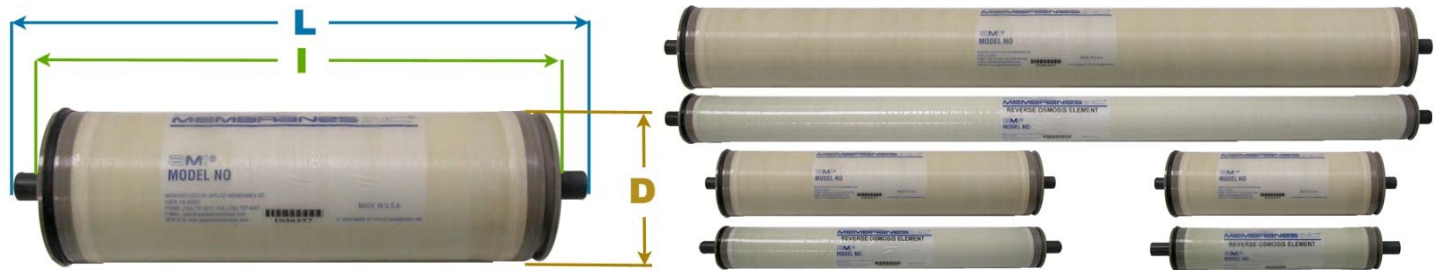
Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery	Minimum Salt Rejection	Stabilized Salt Rejection
	gpd	lpd				
M-B2514AXLE	190	719	2.5 x 14	10%	98%	99%
M-B2521AXLE	365	1,382	2.5 x 21	10%	98%	99%
M-B2540AXLE	850	3,217	2.5 × 40	10%	98%	99%
M-B4014AXLE	540	2,044	4.0 × 14	10%	98%	99%
M-B4021AXLE	1,025	3,880	4.0 × 21	10%	98%	99%
M-B4040AXLE	2,860	10,825	4.0 × 40	10%	98%	99%

Note: Performance specifications based on 2,000 mg/l sodium chloride, 100 psi (1 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%.

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)	○ 2" Dia. Elements	3 gpm
◆ Maximum Feed water Turbidity	1 NTU	○ 2.5" Dia. Elements	6 gpm
◆ Maximum Feed water SDI (15 min)	4	○ 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-B2514AXLE	14	35.6	11.62	30	2.5	6.4
M-B2521AXLE	21	53.3	19	48	2.5	6.4
M-B2540AXLE	40	101.6	38	96	2.5	6.4
M-B4014ALE	14	35.6	12	30	3.9	9.9
M-B4021AXLE	21	53.3	19	48	3.9	9.9
M-B4040AXLE	40	101.6	38	96	3.9	9.9