

Extra-Low Energy (XLE) Commercial RO 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 tape wrapped elements are intended for use in tap water applications.



PERFORMANCE SPECIFICATIONS

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)*†	Stabilized Salt Rejection (%)*†
	gpd	lpd				
M-T2026AXLE	240	908	2.0 × 26	10	98	99
M-T2514AXLE	190	719	2.5 × 14	5	98	99
M-T2521AXLE	365	1382	2.5 × 21	8	98	99
M-T2540AXLE	850	3217	2.5 × 40	15	98	99
M-T4014AXLE	540	2044	4.0 × 14	5	98	99
M-T4021AXLE	1025	3880	4.0 × 21	8	98	99
M-T4040AXLE	2860	10825	4.0 × 40	15	98	99

Note: Performance specifications based on 500 mg/l sodium chloride, 100psi (0.7 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	300 psig (2.1 MPa)	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:	13psig (0.9 bar)	Feed water pH Range (Cleaning – 30 min.)	1-12



MEMBRANE ELEMENT DIMENSIONS

Model No.	L		l		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-T2026AXLE	26	66	23.64	60	1.8	4.6
M-T2514AXLE	14	35.6	11.62	30	2.5	6.4
M-T2521AXLE	21	53.3	19	48	2.5	6.4
M-T2540AXLE	40	101.6	38	96	2.5	6.4
M-T4014AXLE	14	35.6	12	30	3.9	9.9
M-T4021AXLE	21	53.3	19	48	3.9	9.9
M-T4040AXLE	40	101.6	38	96	3.9	9.9