

Blue | Z2 Series - Fouling Resistant RO Membrane Element

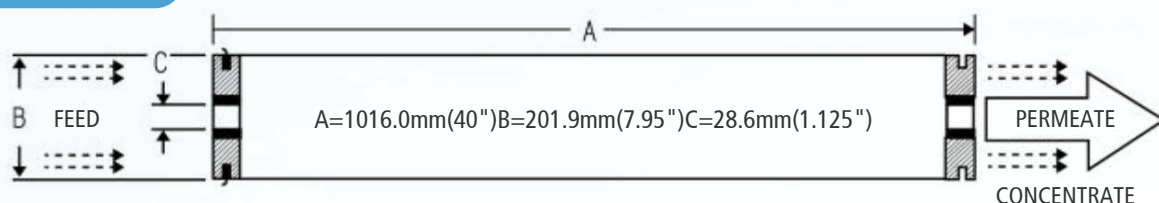
Product Features

- **Enhanced** anti-fouling brackish water RO membrane designed for feedwater up to 10,000 ppm TDS, including municipal reuse and challenging industrial streams.
- Upgraded hydrophilic polyamide surface engineered to provide superior resistance to organic, colloidal, and biological fouling compared to the standard TB series.
- Optimized membrane surface chemistry reduces scaling tendency and improves long-term cleanability.
- 35-mil wide feed spacer design ensures low pressure drop and stable operation under higher fouling potential conditions.
- Suitable for high-recovery system configurations requiring extended cleaning intervals and improved operational reliability.

Element Specification & Performance

Model	Stable Salt Rejection	Minimum Salt Rejection	Average Permeate Flow	Effective Membrane Area	Feed Spacer Thickness
MB-Z2-8040	99.7%	99.5%	10,500 GPD (39.7 m³/d)	400 ft² (37.2 m²)	35 mil

Product Size



Standard Test Conditions

Test Pressure 225 psi (1.55 MPa)	Test Solution Temperature 25°C	Test Solution Concentration 2,000 ppm NaCl
pH Value 7-8	Recovery Rate (per element) 15%	Permeate Flow Tolerance ±15%

Operating Conditions & Limits

Maximum Operating Pressure	600 psi (4.14 MPa)
Maximum Temperature	45°C
Maximum Feedwater SDI ₁₅	6
Maximum Free Chlorine Concentration	<0.1 ppm
Allowable pH Range (Continuous Operation)	2-10
Allowable pH Range (Chemical Cleaning)	1-12
Maximum Pressure Drop per Element	15 psi (0.1 MPa)

Important Notes Performance is based on standard test conditions and may vary. Proper pretreatment is required.