

2.0 x 12 Inch - Home Drinking Water RO Membranes

MODEL TR-2012

Membrane Type Aromatic Polyamide Composite
Element Configuration Spiral Wound, Tape Wrap

Performance Specification

	TR-2012-50	TR-2012-75	TR-2012-100	TR-2012-125
Salt Rejection ^{1,2}	96% ³	96% ³	96 % ³	96 % ³
Product Flow Rate ^{1,2}	190 l/day	290 l/d	375 l/d	470 l/d

Notes:

- ¹ Test Conditions

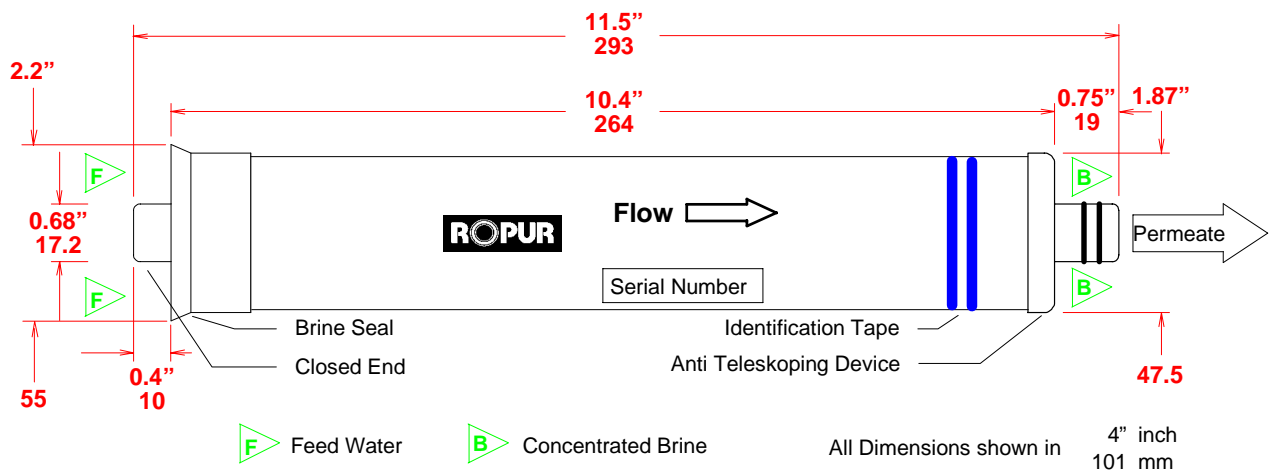
Temperature	25 °C	(77 °F)
Feed Solution, Concentration	Tap water	300 ppm
Feed Pressure	4.5 bar	(65 psi)
Brine : Permeate ratio	5 : 1	
Feed pH	6.5 - 7.5	
- ² Average value for 100 elements after 1 hour operation
- ³ Minimum rejection 96 % *
- ⁴ Minimum flow - 15 % * * For any single element

Dimensions:

Design Conditions

Recommended ¹

Operating Pressure^{2,3} **4.5 bar** (65 psi)



Operating Temperature ⁴	< 35 °C	(95°F)
Feedwater Turbidity (SDI ₁₅) ^{2,5}	< 4	
Feedwater Chlorine Concentration ⁶	0 ppm	
pH Range ⁷	2 - 11	
Brine/Permeate Flow Ratio ⁸	5 : 1	

Notes:

- ¹ The recommended design range means safe operational and design conditions under not so much fouling and scaling. If the TR-series elements are operated outside of the recommended design range, the effective membrane life may be reduced.
- ² High flux operation (operation under high permeate flow rate per single element) on feedwater turbidity greater than 3 or 4 SDI₁₅ generally results in frequent cleaning requirements. Operating pressure should be selected to maintain the flux rate, or permeate flow rate per single element.
- ³ Maximum 8.6 bar (124 psi)
- ⁴ Maximum 45 °C (113 °F)
- ⁵ SDI₁₅ = Silt Density Index measured according to ASTM D4189
- ⁶ < 1'000 ppm·h at < 0.1 ppm Cl₂ in absence of heavy metals in the water. Heavy metals may act as catalyst and increase the oxidizing potential of chlorine.
- ⁷ Both feed and brine water must meet this range.
Cleaning and sterilization must meet the recommendations in the Technical Bulletin.
- ⁸ Flow ratio of brine to permeate for each single element

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