

LENNTECH

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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 I/day	290 l/d	375 l/d	470 l/d

Notes:

¹ Test Conditions

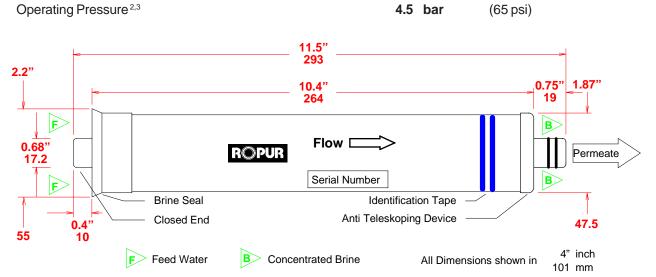
Temperature	25 ℃	(77 °F)
Feed Solution, Concentration	Tap water	300 ppm
Feed Pressure	4.5 bar	(65 psi)
Brine: Permeate ratio	5:1	
Feed pH	6.5 - 7.5	

- 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 Temperature⁴ < 35 °C (95°F)

Feedwater Turbidity (SDI₁₅)^{2,5} < 4

Feedwater Chlorine Concentration⁶ 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.
- 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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