

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

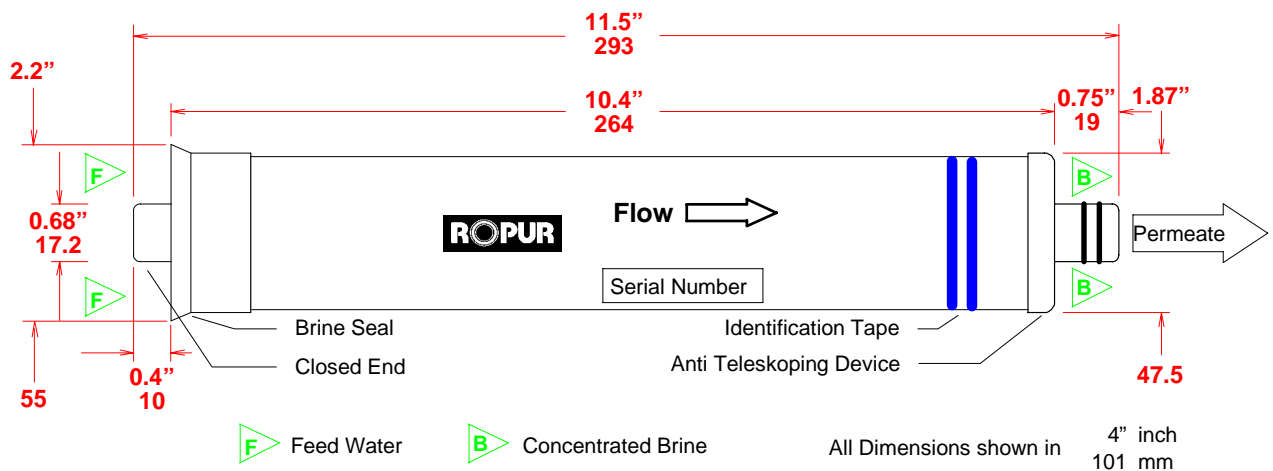
| | | |
|------------------------------|-----------|----------|
| Temperature | 25 °C | (77 °F) |
| Feed Solution, Concentration | Tap water | 300 ppm |
| Feed Pressure | 4.5 bar | (65 psi) |
| Brine : Permeate ratio | 5 : 1 | |
| Feed pH | 6.5 - 7.5 | |
- ² Average value for 100 elements after 1 hour 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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