

# 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**

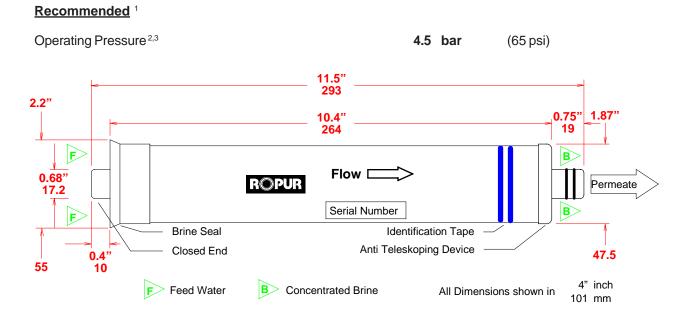
	TR-2012-50	TR-2012-75	TR-2012-100	TR-2012-125
Salt Rejection 1,2	<b>96%</b> <sup>3</sup>	<b>96%</b> <sup>3</sup>	<b>96 %</b> <sup>3</sup>	<b>96 %</b> <sup>3</sup>
Product Flow Rate 1,2	190 I/day	290 l/d	375 l/d	470 l/d

#### 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	
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**





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

#### Notes:

- <sup>1</sup> 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.
- <sup>2</sup> High flux operation (operation under high permeate flow rate per single element) on feedwater turbidity greater than 3 or 4 SDI<sub>15</sub> generally results in frequent cleaning requirements. Operating pressure should be selected to maintain the flux rate, or permeate flow rate per single element.
- <sup>3</sup> Maximum 8.6 bar (124 psi)
- <sup>4</sup> Maximum 45 °C (113 °F)
- <sup>5</sup> SDI<sub>15</sub> = Silt Density Index measured according to ASTM D4189
- $^{6}$  < 1'000 ppm h at < 0.1 ppm Cl<sub>2</sub> in absence of heavy metals in the water. Heavy metals may act as catalyst and increase the oxidizing potential of chlorine.
- <sup>7</sup> Both feed and brine water must meet this range.
  Cleaning and sterilization must meet the recommendations in the Technical Bulletin.
- <sup>8</sup> Flow ratio of brine to permeate for each single element

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