

<b>Model</b>	<b>TRH-4014</b>
<b>Type</b>	Crosslinked Aromatic Polyamide, Negative Charge
<b>Configuration</b>	Spiral Wound, Tape Wrap
<b>Average salt rejection %</b>	99.0
<b>Average permeate flow l/day</b>	2400

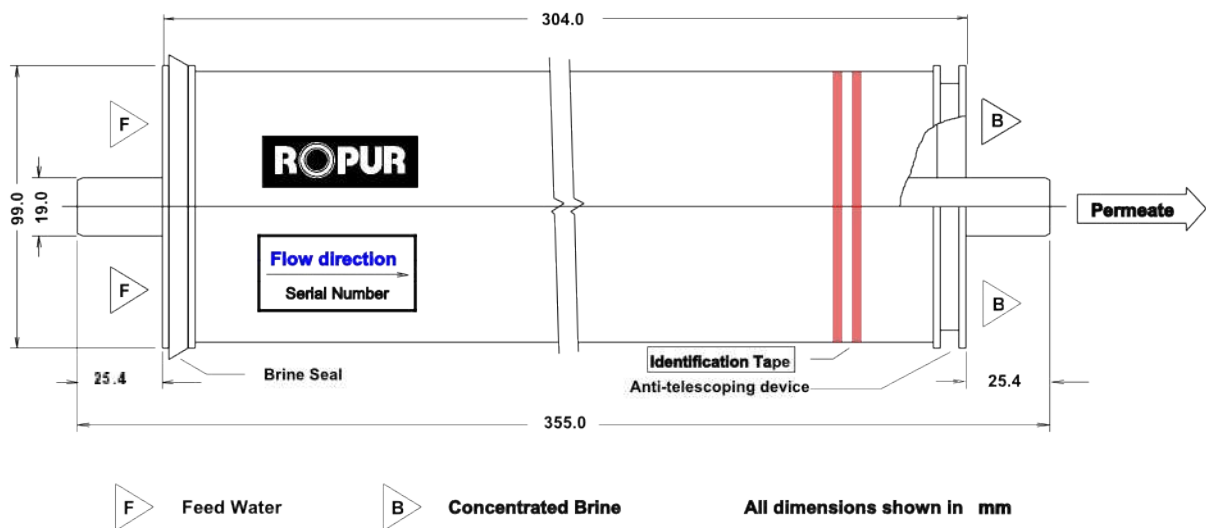
**Test conditions**

Temperature	25 ° C
Feed Concentration	500 ppm NaCl
Feed pressure	7.5 bar
Test Recovery	15 %
pH_feed	6.5 - 7.5

**Minimum performance data for any single element**

Minimum salt rejection %	98.0
Minimum permeate flow l/day	2040

**Dimensions:**



The data and information contained in this data sheet are based on technical data and tests we believe to be reliable. They are offered in good faith for use by persons having appropriate technical skill at their own discretion and risk. Supplier has no control of design and operating conditions and consequently cannot assume any reliability for results obtained or damage incurred through the use of the product presented. ROPUR Membranes are continuously improved and therefore we reserve the right to modify or amend specifications without prior notice.



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## Recommended Design Conditions

Operating pressure	< 15 bar
Operating temperature	< 35 ° C
Feed SDI15	< 5 %/min
Chlorine in feed	not detectable
Operating pH range	3 - 11
Allowed pH during CIP	3 - 11
Max. feed flow / pressure vessel	2200 l/h
Min. brine flow / pressure vessel	600 l/h
Max. dP / Element	0.5 bar
Max. dP / pressure vessel	1.0 bar
Maximum feed pressure	< 15 bar
Maximum feed temperature	< 35 ° C

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The recommended design range means safe operational and design conditions under not so much fouling and scaling. If the elements are operated outside of the recommended design range, the effective membrane life may be reduced.

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.

Both feed and brine water must meet pH range requirements during CIP.

Cleaning and sterilization must meet the recommendations in the Technical Bulletin.

Max. possible feed flow may be reduced when there is low possibility of fouling and scaling

Element(s) must be cleaned when pressure drop increases to 1.5 times of the initial value.

**All ROPUR elements are produced by Toray Membrane Spain S.L. P.I. Can Verdalet, Calle B, 08490 Tordera, Spain.**

**Please contact Toray Membrane Spain at +34 937 64 2397, or fax to +34 937 64 2420 for further information**

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