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2.5 x 14 INCH TAPE WRAP BRACKISH ELEMENTS

Model TR70-2514-HF & TRH-2514

Membrane Type Crosslinked Aromatic Polyamide, Negative Charge

Element Configuration Spiral Wound, Tape Wrap

Performance Specification

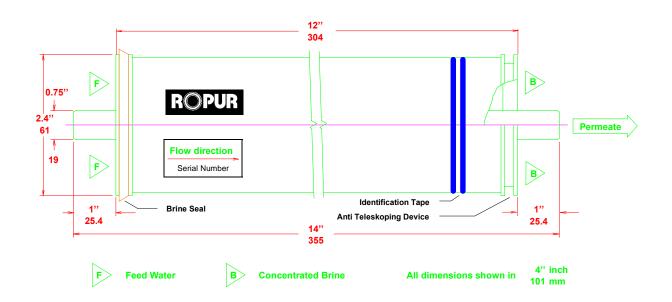
	TR70-2514-HF	TRH-2514
	High Flow	Low Pressure, High Flow
Salt Rejection avg. ^{1,2}	99.4 %	99.0 %
Product Flow Rate ^{1,2}	1000 I/d (265 gpd)	700 I/d (185 gpd)
	Testconditions: A	Testconditions: B

N	otes	•
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1	Test Conditions	<u>A</u>	<u>B</u>	
	Temperature	25	25	°C
	Feed Solution, Concentration	1500	500	ppm NaCl
	Feed Pressure	15	7.5	bar
	Brine: Permeate ratio	5:1	5:1	
	Feed pH	6.5 - 7.5	6.5 - 7.5	

- Average value for 100 elements after 1 hour operation Product Flow Rate +/- 15% Salt Rejection minimum 98 %
- ³ Minimum Performance data are for any single element

Dimensions:





Design Conditions

Recommended 1

Operating Pressure 2,3 Operating Temperature 4	< 15.0 < 35	•	(216 psi) (95 °F)
Feedwater Turbidity (SDI ₁₅) ^{2,5}	< 5		
Feedwater Chlorine Concentration	0	ppm	
pH Range, Continuous Operation ⁶	3- 11		
pH Range, Chemical Cleaning ⁷	2- 11		
Feed Flow Rate per Vessel	< 650	l/h	(3 gpm)
Brine Flow Rate per Vessel ⁹	> 250	l/h	(1 gpm)
Brine/Permeate Flow Ratio 8,	5 : 1		
Pressure Drop (per Element) 10	0.5	kg/cm²	(7 psi)
Pressure Drop (per Vessel) 10	1.0	kg/cm²	(14 psi)

Notes:

- 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 20 kg/cm² (288 psi)
- ⁴ Maximum 35 °C (95 °F)
- 5 SDI₁₅ = Silt Density Index measured according to ASTM D4189
- ⁶ Both feed and brine water must meet this range.
- ⁷ Cleaning and sterilization must meet the recommendations in the Technical Bulletin.
- 8 Flow ratio of brine to permeate for each single element
- ⁹ This figure may be reduced when there is low possibility of fouling and scaling
- ¹⁰ Element(s) must be cleaned when pressure drop increases to 1.5 times of the initial value.