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2.5 x 14 INCH TAPE WRAP BRACKISH ELEMENTS

³ Minimum Performance data are for any single element

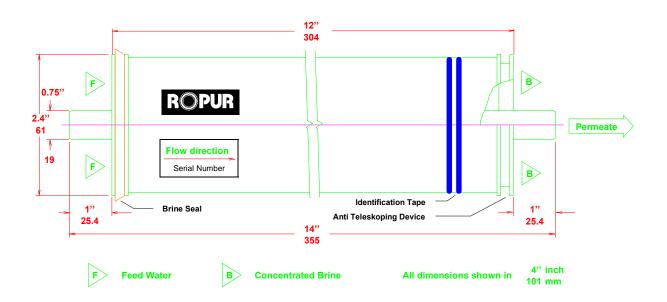
MODEL TR70-2514-HF & TRH-2514

Membrane Type	Crosslinked Aromatic Polyamide, Negative Charge
Element Configuration	Spiral Wound, Tape Wrap

Performance Specification

	t Rejection avg. ^{1,2} duct Flow Rate ^{1,2}	10	FR70-2514- High Flow 99.4 % 000 I/d (265 Testconditions	gpd)	TRH-2514 Low Pressure, High Flow 99.0 % 700 I/d (185 gpd) Testconditions: B
1	Notes: Test Conditions	А	B		
		_		•••	
	Temperature	25	25	°C	
	Feed Solution, Concentration	1500	500		n NaCl
	Feed Pressure	_ 15	7.5	bar	
	Brine : Permeate ratio	5 : 1	5 : 1		
	Feed pH	6.5 - 7.5	6.5 - 7.5		
2	Average value for 100 elements afte Product Flow Rate +/- 15% Salt Rejection minimum 98 %	er 1 hour oper	ation		

Dimensions:





Design Conditions

Recommended ¹			
Operating Pressure ^{2,3}	< 15.0	kg/cm ²	(216 psi)
Operating Temperature ⁴	< 35	°C	(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/cm ²	(7 psi)
Pressure Drop (per Vessel) 10	1.0	kg/cm ²	(14 psi)

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 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.