

LENNTECH

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MODEL SU-620

Membrane Type	Cross Linked Polyamide Composite			
Element Configuration	Spiral Wound			

Performance Specification

	NaCl Solution	MgSO₄Solution
Salt Rejection 1,2	55.0 % ³	99.0 % ⁴
Product Flow Rate 1,2	18.0 m³/day (4'760 gpd)	16.0 m³/day (4'230 gpd) ⁶

Notes:

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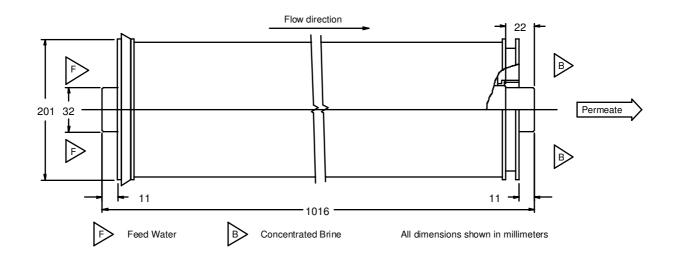
¹ Test Conditions

Pressure	3.5	kg/cm ²	(50 psi)			
Temperature	25	°C	(77°F)			
Feed Concentration	500	ppm	as NaCl or MgSO			
Brine Flow Rate	80	l/min	(21.1 gpm) 4			
Feed pH	6.5					
Average value for 100 elements after 1 hour operation						

³ 45.0% minimum *

- ⁴ 98.0% minimum
- ⁴ 16 m³/day (4'230 gpd) minimum *
- ⁶ 14.0 m³/day (3'700 gpd) minimum

* For any single element



Dimensions:



Design Conditions

Peacemmonded 1

Recommended			
Operating Pressure 2,3	< 10	kg/cm ²	(143 psi)
Feedwater Temperature ⁴	< 35	°C	(95 °F)
Feedwater Turbidity $(SDI_{15})^{2,5}$	< 4		
Feedwater Chlorine Concentration	< 1	ppm	
pH Range, Continuous Operation ⁶	3 - 8		
pH Range, Chemical Cleaning 7	2 - 10		
Feed Flow Rate per Vessel	< 200	l/min	(52.8 gpm)
Brine Flow Rate per Vessel ⁸	> 40	l/min	(10.6 gpm)
Brine/Permeate Flow Ratio ^{8,9}	> 6		
Pressure Drop (per Element) 9	< 1	kg/cm ²	(14 psi)
Pressure Drop (per Vessel) 9	< 2	kg/cm ²	(29 psi)

Notes:

- ¹ The recommended design range means safe operational and design conditions under not so much fouling and scaling. If the SU-series elements are operated outside of the recommended design range, the effective membrane life may be reduced. Refer to the Toray Technical Bulletin, or contact Toray or the local distributor for design guidelines and further information for multi element design.
- ² High flux operation (operation under high permeate flow rate per single element) on feedwater turbidity greater than 3 or 4 SDI generally results in frequent cleaning requirements. Operating pressure should be sele¹⁵/₂ted to maintain the flux rate, or permeate flow rate per single element.
- ³ Maximum 15 kg/cm² (214 psi)
- ⁴ Maximum 45 °C (113 °F)
- ⁵ SDI₁ = 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 Bulletins for SU-series elements.
- ⁸ Flow ratio of brine to permeate for each single element
- ⁹ This figure may be reduced when there is hardly any fouling and scaling
- ¹⁰ Element(s) must be cleaned when pressure drop increases to 1.5 times of the initial value.
- * Product flow rate declines 25 30% when feedwater contains Chlorine.

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