

MODEL TM820-400

Membrane Type	Cross Linked Fully Aromatic Polyamide Composite	
Membrane Surface Area	400 ft ² (37 m ²)	Brine spacer thickness: 28 mil

Performance Specification

NaCl Solution

Salt Rejection

99.75 %

Product Flow Rate

6,500 gpd (25 m³/day)

Notes :

1. Test Conditions

Feed Water Pressure	800	psi	(5.5 MPa)
Feed Water Temperature	77	°F	(25 °C)
Feed Water Concentration	32,000	mg/ℓ	as NaCl
Recovery Rate	8	%	
Feed Water pH	7		

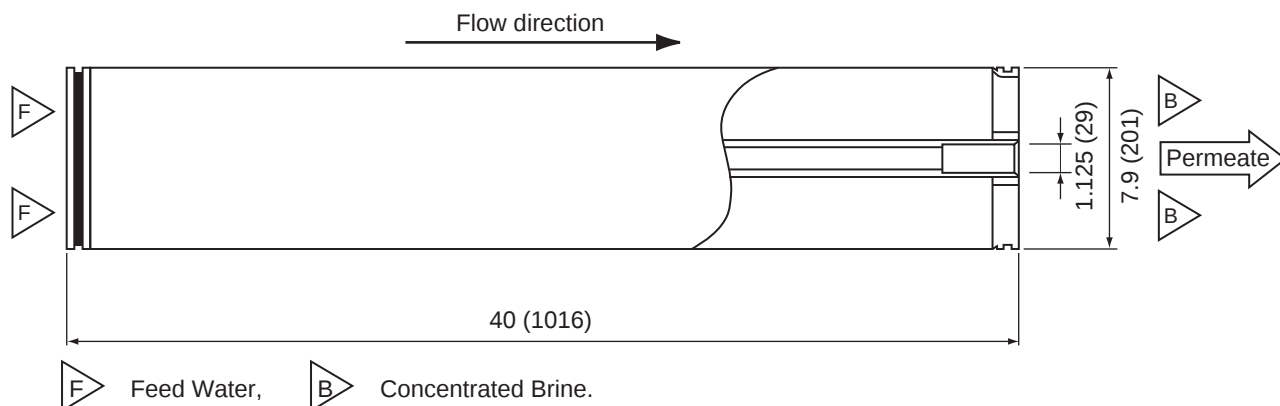
2. Minimum Salt Rejection 99.5 %

3. Minimum Product Flow Rate 5,200 gpd (20 m³/day)

4. The membrane area stated is a nominal value and is not a guaranteed specification.

Dimensions

All dimensions shown in inches (millimeters).



Operating Limits:

Maximum Operating Pressure	1000 psi (6.9 MPa)
Maximum Feed Water Temperature	113 °F (45 °C)
Maximum Feed Water Silt Density Index ₁₅	5
Feed Water Chlorine Concentration	Not Detectable
Feed Water pH Range, Continuous Operation	2 - 11
Feed Water pH Range, Chemical Cleaning	1 - 12
Maximum Pressure Drop per Element	20 psi (0.14 MPa)
Maximum Pressure Drop per Vessel	60 psi (0.4 MPa)

Operating Information:

1. For the recommended design range, please consult the latest Toray technical bulletin, design guidelines, computer design program, and/or call an application specialist. If the operating limits given in this Product Information Bulletin are not strictly followed, the Limited Warranty will be null and void.
2. All elements are wet tested, treated with a 1% by weight percent sodium bisulfite storage solution, and then vacuum bagged in oxygen barrier bags. To prevent biological growth during short term storage, shipment, or system shutdown, it is recommended that Toray elements be immersed in a protective solution containing 500 - 1,000 ppm of sodium bisulfite (food grade) dissolved in permeate.
3. Permeate from the first hour of operation should be discarded.
4. The customer is fully responsible for the effects of chemicals that are incompatible with the elements. Their use will void the element Limited Warranty.

Notice:

1. Toray accepts no responsibility for results obtained by the application of this information or the safety or suitability of Toray's products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product combination for their own purposes.
2. All data may change without prior notice, due to technical modifications or production changes.

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