

## MODEL SU-820BCM

Membrane Type	Cross Linked Fully Aromatic Polyamide Composite <b>High pressure / High salinity (Brine Conversion Systems)</b>
Membrane surface area	29 m <sup>2</sup> (370 ft <sup>2</sup> )

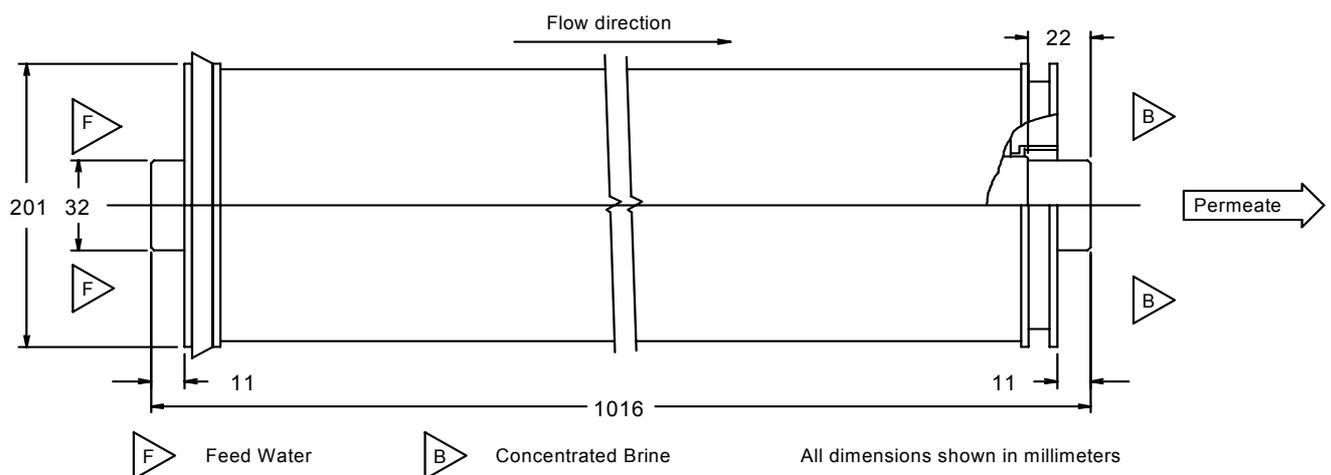
### Performance Specification

	Sea Water
<b>Salt Rejection</b> <sup>1,2</sup>	<b>99.7 %</b>
<b>Product Flow Rate</b> <sup>1,2</sup>	<b>16 m<sup>3</sup>/day (4200 gpd)</b>

#### Notes:

- <sup>1</sup> Test Conditions
 

Pressure	8.82 MPa (1280 psi)
Temperature	25 °C
Feed Concentration	58'000 ppm      Sea Water
Brine Flow Rate	80 l/min
Feed pH	6.5
- <sup>2</sup> Minimum Salt Rejection      99.4 %
- <sup>3</sup> Minimum Product Flow Rate      14.0 m<sup>3</sup>/day (3700 gpd)
- <sup>4</sup> The membrane area stated is a nominal value and is not a guaranteed specification



### Operating Limits

Maximum Operating Pressure	<b>&lt;9.3 MPa</b>	<b>(1350 psi)</b>
Maximum Feedwater Temperature	<b>&lt; 45 °C</b>	<b>(110 °F)</b>
Maximum Feedwater Silt Density Index (SDI <sub>15</sub> )	<b>&lt; 4</b>	
Feedwater Chlorine Concentration	<b>not detectable</b>	
Feed water pH Range, Continuous Operation	<b>3 - 9</b>	
Feed water pH Range, Chemical Cleaning	<b>2 - 11</b>	
Maximum Pressure Drop per Element	<b>0.1 MPa</b>	<b>(15 psi)</b>
Maximum Pressure Drop per Vessel	<b>0.4 MPa</b>	<b>(60 psi)</b>

### Operating Information

1. For the recommended design range, please consult the latest Toray technical bulletin, design guidelines, computer program, and/or call an application specialist. If the operating limits given in this Product Bulletin are not strictly followed, the Limited Warrantee will be null and void.
2. All elements are treated with a 1% by weight percent sodium metabisulfite 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 the same 1% by weight percent solution of sodium metabisulfite (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 Warrantee.

Toray accepts no responsibility for results obtained by the application of this information or the safety or suitability of this product, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purposes.

Note: All data may change without prior notice, due to technical modifications or production changes

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