

TORAY

Brackish Water RO Elements Salt Rejection Feed Spacer Diameter Membrane Area **Product Flow** Type **Thickness** Rate $ft^2(m^2)$ % Inch $gpd(m^3 / d)$ mil TMG10 4" 99.5 2,400(9.1) 87(8) 31 8" TMG20-370 370(34) 99.5 9,500(36.0) 34 TMG20-400 8" 99.5 10,200(38.6) 400(37) 28 TMG20-430 8" 430(40) 99.5 11,000(41.6) 28 8" TMG20-440 99.5 440(41) 11,300(42.6) 28 1. Membrane Type Cross Linked Fully Aromatic Polyamide Composite 2. Test Conditions 110 psi(0.76MPa) Feed Water Pressure Feed Water Temperature 77° F(25°C) 500 mg/l Nacl Feed Water Concentration Recovery Rate 15% Feed Water pH 7 3. Minimum Salt Rejection 99.0% 4. Minimum Product Flow Rate 2,000gpd(7.6m 3 d)(TMG10)7,500gpd(28.4m³/d)(TMG20-370) 8,200gpd(31.0m³/d)(TMG20-400) 8,800gpd(33.3m3/d)(TMG20-430) 9,000gpd(34.1m³/d)(TMG20-440) **Dimensions** All dimensions shown in Inches (millimeter). Feed Water Concentrated Brine 1.05(26) Flow direction TMG10 40(1,016) Flow direction TMG20-370 TMG20-400 ^l 1.50(38) TMG20-440

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Operating Limits

Maximum Operating Pressure365psi (2.5 MPa)Maximum Feed Water Temperature113°F (45 °C)Maximum Feed Water SDI155Feed Water Chlorine ConcentrationNot DetectableFeed Water pH Range, Continuous Operation2-11Feed Water pH Range, Chemical Cleaning1-12Maximum Pressure Drop per Element20psi (0.14 MPa)Maximum Pressure Drop per Vessel60psi (0.4 MPa)

Operating Information

- For the recommended design range, please consult the latest Toray technical bulletin, design guide lines, computer design program, and/ or call an application specialist. If the operating limits giv en 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 packed in oxygen barrier bags, or treated with tested feed water solution, and then vacuum packed in oxygen barrier bags with deoxidant inside. 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 shall 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

- 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.