

Brackish Water RO Elements

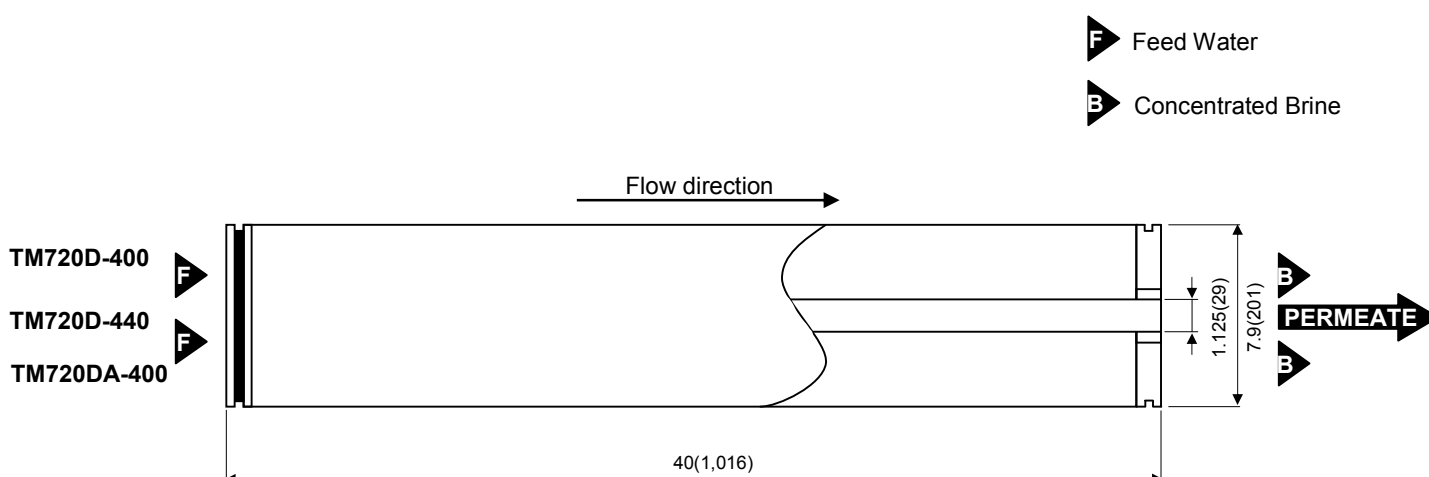
TM720D

| Type | Diameter Inch | Membrane Area ft ² (m ²) | Salt Rejection % | Product Flow Rate gpd(m ³ / d) | Feed Spacer Thickness mil |
|-------------|------------------|--|---------------------|--|---------------------------------|
| TM720D-400 | 8" | 400(37) | 99.8 | 11,000(41.6) | 34 |
| TM720D-440 | 8" | 440(41) | 99.8 | 12,100(45.8) | 28 |
| TM720DA-400 | 8" | 400(37) | 99.8 | 11,000(41.6) | 31 |

| | | |
|------------------------------|---|--|
| 1. Membrane TypeA | | Cross Linked Fully Aromatic Polyamide Composite |
| 2. Test Conditions | Feed Water Pressure Feed Water Temperature Feed Water Concentration Recovery Rate Feed Water pH | 225 psi(1.55MPa) 77° F(25°C) 2,000 mg/l NaCl 15% 7 |
| 3. Minimum Salt Rejection | | 99.65% |
| 4. Minimum Product Flow Rate | | 8,900gpd(33.6m ³ /d) (TM720D-400) 9,800gpd(37.0m ³ /d) (TM720D-440) 8,900gpd(33.6m ³ /d)(TM720DA-400) |

Dimensions

All dimensions shown in Inches (millimeter).



Operating Limits

| | |
|---|------------------|
| Maximum Operating Pressure _____ | 600psi (4.1 MPa) |
| Maximum Feed Water Temperature _____ | 113° F (45°C) |
| Maximum Feed Water SDI ₁₅ _____ | 5 |
| Feed Water Chlorine Concentration _____ | <0.1ppm |
| Feed Water pH Range, Continuous Operation _____ | 2-11 |
| Feed Water pH Range, Chemical Cleaning _____ | 1-13 |
| Maximum Pressure Drop per Element _____ | 20psi (0.14 MPa) |
| Maximum Pressure Drop per Vessel _____ | 60psi (0.4 MPa) |

Operating Information

1. 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 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 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. The presence of free chlorine and other oxidizing agents under certain conditions, such as heavy metals which acts as oxidation catalyst in the feed water will cause unexpected oxidation of the membrane. It is strongly recommended to remove these oxidizing agents contained in feed water before operating RO system.
4. Permeate from the first hour of operation shall be discarded.
5. 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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