

High productivity Brackish Water RO Elements

TM720C-400

Type	Diameter Inch	Membrane Area ft ² (m ²)	Salt Rejection %	Product Flow Rate gpd(m ³ /d)	Feed Spacer Thickness mil
TM720C-400	8"	400(37)	99.2	8,200(31.0)	31
TM720C-430	8"	430(40)	99.2	8,800(33.3)	28
TM720C-440	8"	440(41)	99.2	9,000(34.1)	28
1. Membrane Type			Cross Linked Fully Aromatic Polyamide Composite		
2. Test Conditions			Feed Water Pressure 150 psi(1.03MPa) Feed Water Temperature 77 °F(25°Q) Feed Water Concentration 2,000 mg/l Nacl Recovery Rate 15 % Feed Water pH 7		
3. Minimum Salt Rejection			98.2 %		
4. Minimum Product Flow Rate			5,750gpd(21.7m ³ /d)(TM720C-400) 6,100gpd(23.1m ³ /d)(TM720C-430) 6,200gpd(23.5m ³ /d)(TM720C-440)		
5. Boron Rejection (typical value)			95% at pH 10 (5mg/l Boron added to Feed water)		

Operating Limits

Maximum Operating Pressure ~~600psi (4.1 MPa)~~ _____
 Maximum Feed Water Temperature ~~113°F (45 °C)~~ _____
 Maximum Feed Water SDI₁₅ ~~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 ~~20psi (0.14 MPa)~~ _____
 Maximum Pressure Drop per Vessel ~~60psi (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 given in this Product Information Bulletin are not strictly followed, the Limited Warranty will be null and void.
- 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.
- Permeate from the first hour of operation shall be discarded.
- 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.