LENNTECH



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Super Ultra Low Pressure Brackish Water RO Elements

TMH20A-440

Туре	Diameter Inch	Membrane Area ft ² (m ²)	Salt Reje %	ection Product Flow Rate	Feed Spacer Thickness
	-			gpd(m ³ / d)	mil
TMH10A	4"	87(8)	99.3	3 2,400(9.1)	31
TMH20A-370	8"	370(34)	99.3	3 10,200(38.6)	34
TMH20A-400	8"	400(37)	99.3	3 11,000(41.6)	28
TMH20A-430	8"	430(40)	99.3	3 11,800(44.7)	28
TMH20A-440	8"	440(41)	99.3	3 12,100(45.7)	28
1. Membrane Type				Cross Linked Fully Aromatic F	Polyamide Composite
2. Test Conditions					
		Feed Water Pressure		100 psi(0.69MPa)	
		Feed Water Temperature		77°F(25°C)	
		Feed Water Concentration	ו ו	500 mg/l Nacl	
		Recovery Rate		15%	
		Feed Water pH		7	
3. Minimum Salt Rejection				99.0%	
4. Minimum Product Flow Rate				1,900gpd(7.2m ³ /d)(TMH1	0A)
				8,200gpd(30.9m3/d)(TMH	20A-370)
				8,800gpd(33.3m ³ /d)(TMH	20A-400)
				9,500gpd(35.9m ³ /d)(TMH	20A-430)
				9,700gpd(36.7m ³ /d)(TMH	20A-440)

Dimensions All dimensions shown in Inches (millimeter). Feed Water **Concentrated Brine** 1.05(26) Flow direction F 0.75(19) 4(101) TMH10A PERMIATE 40(1,016) Flow direction .50(38) for 370/400/430 1.125(29) for 440 TMH20A-370 3 7.9(201) TMH20A-400 PERMIATE TMH20A-430 ł B TMH20A-440 40(1,016)

Operating Limits

Maximum Operating Pressure Maximum Feed Water Temperature	· 365psi (2.5 MPa) · 113° F (45°C)
Maximum Feed Water SDI15	- 5
Feed Water Chlorine Concentration	 Not Detactable
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

- 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. 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.

- 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.