ION EXCHANGE
Refreshing the Planet

HYDRAMEM®
HIGH PERFORMANCE MEMBRANES

HM 4040 - FRE HR High Performance Fouling Resistance RO Element

Product Description

Membrane Type : Cross Linked Fully Aromatic Polyamide Composite

Construction : Spiral Wound Element

Application : **Brackish Water and Waste Water**

Feed Spacer : 34 mil (0.864 mm) with modified geometry

Model	Diameter Inches	Active Surface Area Ft^2 (m^2)	Salt Rejection %	Product Flow Rate gpd (l/h)
HM 4040-FRE HR	4.0	85 (7.89)	99.75	2600 (409.5)

Test Conditions

Feed Water Pressure : 225 psi (15.8 kg/cm^2)

Feed Water Temperature : 77°F (25°C)

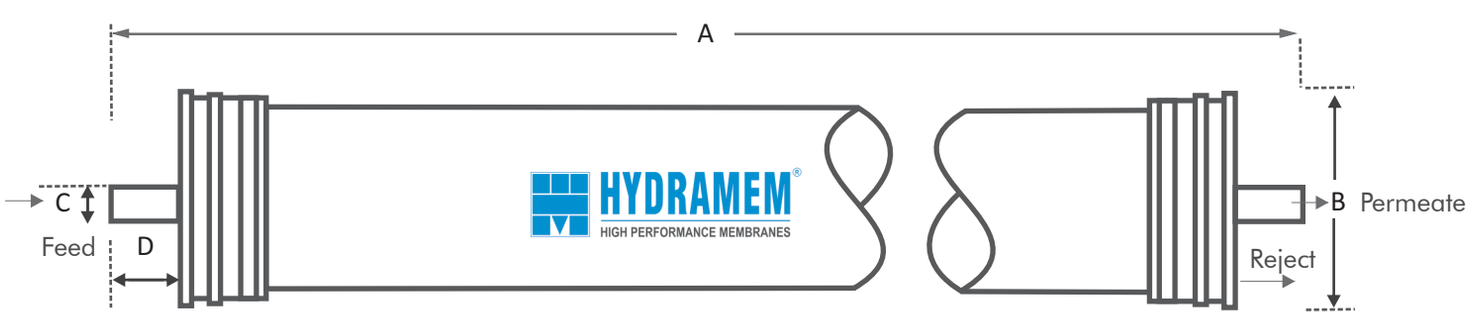
Feed Water Concentration : 1500 ppm NaCl Solution

Recovery Rate : 15%

Feed Water pH : 6.5 - 7

Notes:
Minimum salt rejection is 99.5%
Permeate flow may vary +/-15%
Membrane active area variation – +/- 2

Dimensions



A	B	C	D	Weight
Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Lbs (kg)
40 (1016)	4 (101.6)	0.75 (19.05)	1.18 (30)	8.29 (3.76)

All Membrane Elements are supplied with a brine seal, interconnector and O rings

Operating Limits

Maximum Operating Pressure	:	600 psi (42.18 kg/cm^2)
Maximum Operating Temperature	:	113°F (45°C)
Feed Water Chlorine Concentration	:	<0.1 ppm
Feed Water pH Range, Continuous Operation	:	2 - 11
Feed Water pH Range, Chemical Cleaning	:	1 - 13
Maximum Feed Water SDI (15 Minute Test)	:	SDI ≤ 5
Maximum Feed Turbidity	:	NTU ≤ 1.0
Maximum Pressure Drop for each Element	:	15 psi

Operating Information

1. For the recommended design range, please consult the latest HYDRAMEM technical bulletin, design guidelines 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. Follow instructions mentioned on the caution sticker placed on product packaging.
3. The customer is fully responsible for the effects of chemicals that are incompatible with the elements.
4. For element loading, use only the recommended silicon lubricant. The use of petroleum based lubricant or vegetable based oils may damage the element irreversibly.
5. Membranes shows some resistance to short-term attack by chlorine (Hypochlorite). Continuous exposure should be avoided as it may damage the membrane.

To the best of our knowledge, the information contained in this publication is accurate. Ion Exchange (India) Ltd., maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/branch office for current product specification.

HYDRAMEM® is the registered trademark of Ion Exchange (India) Ltd.

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