ION EXCHANGE
Refreshing the Planet

HYDRAMEM®
HIGH PERFORMANCE MEMBRANES

HM 4040 NFE 9840 High Performance Nano Filtration Element

Product Description

Membrane Type	:	Piperazine Based
Construction	:	Spiral Wound Element
Application	:	Bivalent and Polyvalent Ion Removal
Feed Spacer	:	34 mil (0.864 mm) with Modified Geometry

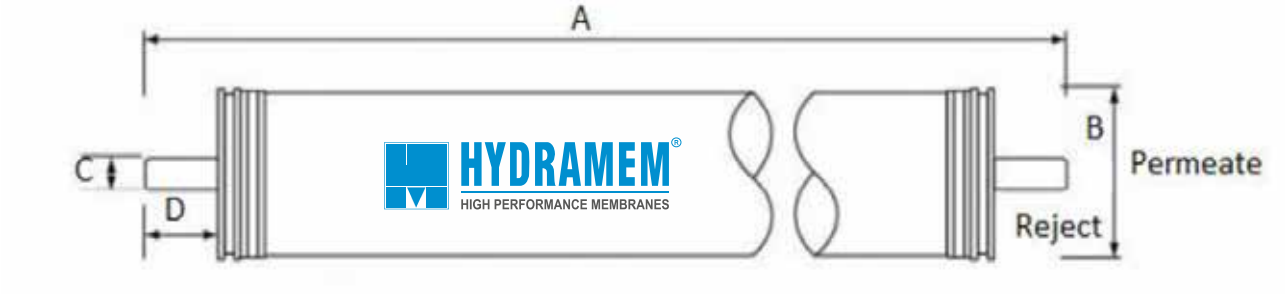
Model	Diameter Inches	Active Surface Area Ft ^{2} (m^2)	Salt Rejection %	Product Flow Rate gpd (l/h)
HM4040-NFE 9840	4.0"	85 (7.89)	98	1700 (267.75)

Test Conditions

Feed Water Pressure	:	110 psi (7.73 kg/cm^2)
Feed Water Temperature	:	77 ^{0}F (25 ^{0}C)
Feed Water Concentration	:	2000 ppm $MgSO_4$ in Softened Tap Water
Recovery Rate	:	15%
Feed Water pH	:	8

Note:
Typical Nacl Rejection 40%
Permeate flow may vary +/-20%

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)	8.28 (3.76)

Operating Limits

Maximum Operating Pressure	:	600 psi (42.18 kg/cm^2)
Maximum Operating Temperature	:	104 ^{0}F (40 ^{0}C)
Maximum Cleaning Temperature	:	104 ^{0}F (40 ^{0}C)
Feed Water Chlorine Concentration	:	Not Detectable
Feed Water pH Range, Continuous Operation	:	2-11
Maximum Feed Water SDI (15 Minute Test)	:	SDI < 5
Maximum Feed Turbidity	:	NTU < 1

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. Their use will void Limited Warranty.
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 may damage the membrane and should be avoided

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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