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HYDRAMEM®
HIGH PERFORMANCE MEMBRANES

Heat Sanitizable Brackish Water RO Element

Product Description:

Membrane Type : Low Energy, Heat Sanitizable Composite Polyamide
Construction : Spiral Wound Hardshell Element Sanitary Outer wrap
Application : Ultrapure Water

Model	Diameter Inches	Active Surface Area Ft^2 (m^2)	Salt Rejection %	Product Flow Rate gpd (l/h)
HM 4040-HSRO-HD	4.0	85 (7.9)	99.0	1500 (236)
HM 8040-HSRO-HD	8.0	405 (37.6)	99.0	9000 (1419)

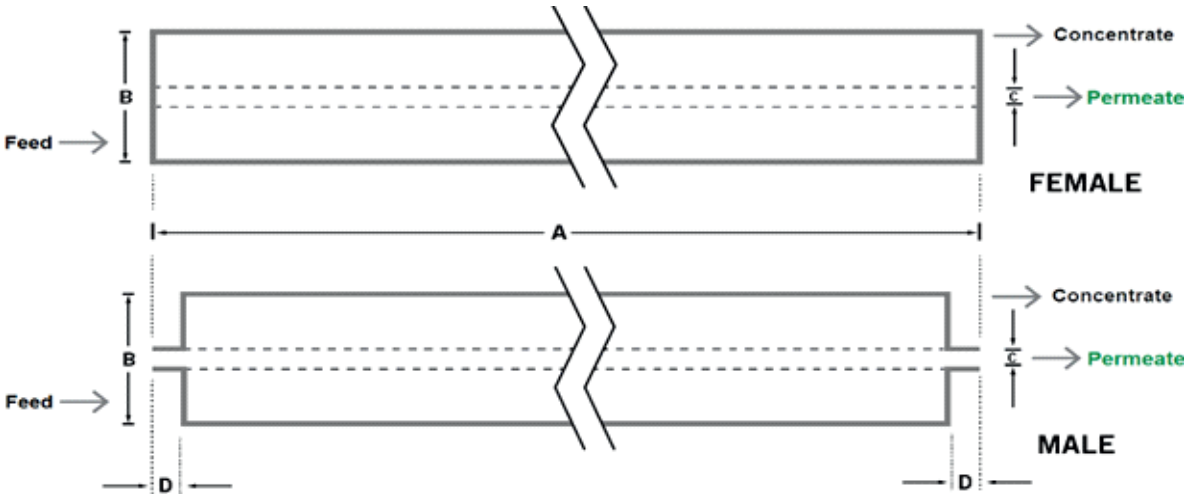
Test Conditions:

Feed Water Pressure : 150 psi (10.5 kg/cm^2)
Feed Water Temperature : 77° F (25° C)
Feed Water Concentration : 2000 ppm NaCl Solution
Recovery Rate : 15%
Feed Water pH : 8.0

Notes:
Minimum salt rejection (4040/8040) - 98%
Permeate flow may vary +/-15%
Membrane active area variation – +/- 2

Physical Dimensions	Element Weight kg (lb)[f]	Dim. A mm (inches)	Dim. B mm (inches)	Dim. C[g] mm (inches)	Permeate Tube[h]
HM-4040-HSRO-HD	4 (9)	1016 (40)	99 (3.9)	19.1 (0.75)	Male
HM–8040-HSRO-HD	16 (36)	1016 (40)	201 (7.9)	28.6 (1.125)	Female

a. All models on this sheet have Hardshell sanitary outer wrap and diamond shaped feed spacers. All models on this sheet include anti-telescoping devices (ATDs) attached to the ends of the element an one interconnector. A brine seal is not included and is not required.
b. Shipping weight is dependent on packaging material and quantity shipped.
c. Diameters for Dimension "C" are as follows. For Female elements, "C" is the Inner Diameter. For Male elements, "C" is the Outer Diameter.
d. Male elements have a protruding permeate tube, indicated as "D" in the diagram. Dimension "D" is 25.4 mm (1.0 in).



Operating Limits:

Maximum Operating Pressure	:	600 psi (42.1 kg/cm^2)
Maximum Operating Temperature	:	122° F (50°C)
Maximum Sanitizing Temperature	:	85°C (185°F) at 25 psi max. pressure
Maximum Sanitizing Pressure	:	25 psi (1.75)
Feed Water Chlorine Concentration	:	<0.1ppm
Feed Water pH Range, Chemical Cleaning	:	1-12
Maximum Feed Water SDI (15 Minute Test)	:	SDI ≤ 5
Maximum Feed Turbidity	:	NTU ≤1.0

Operating Information:

Permeate flow is before heat preconditioning. A loss of flow is expected after first heat sanitization cycle. Heat-setting procedure must be performed prior to initial use of elements.

Start-up: HYDRAMEM recommends flushing elements for 30 minutes at low pressure and discarding permeate during the flush prior to operation. For a more detailed start-up procedure, please see Element Start-Up Guidelines.

Cleaning: HYDRAMEM Hard Shell membrane elements must be cleaned periodically to ensure proper operation and to prevent membrane damage. Please see Membrane Cleaning Guidelines.

Storage: HYDRAMEM Hardshell membrane elements must be stored appropriately to ensure proper operation and to prevent membrane damage. Please see Element Storage Guidelines.

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 specifications.

HYDRAMEM HIGH PERFORMANCE MEMBRANES is the registered trademark of Ion Exchange (India) Ltd.

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