



HM 4021 - LPE Low Pressure RO Element

Product Description

Membrane Type	:	Cross Linked Fully Aromatic Polyamide Composite
Construction	:	Spiral Wound Element
Application	:	Low Pressure

Model	Diameter Inches	Salt Rejection %	Product Flow Rate gpd (l/h)
HM 4021-LPE	4.0	98	850 (134)

Test Conditions

Feed Water Pressure	:	150 psi (10.5 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

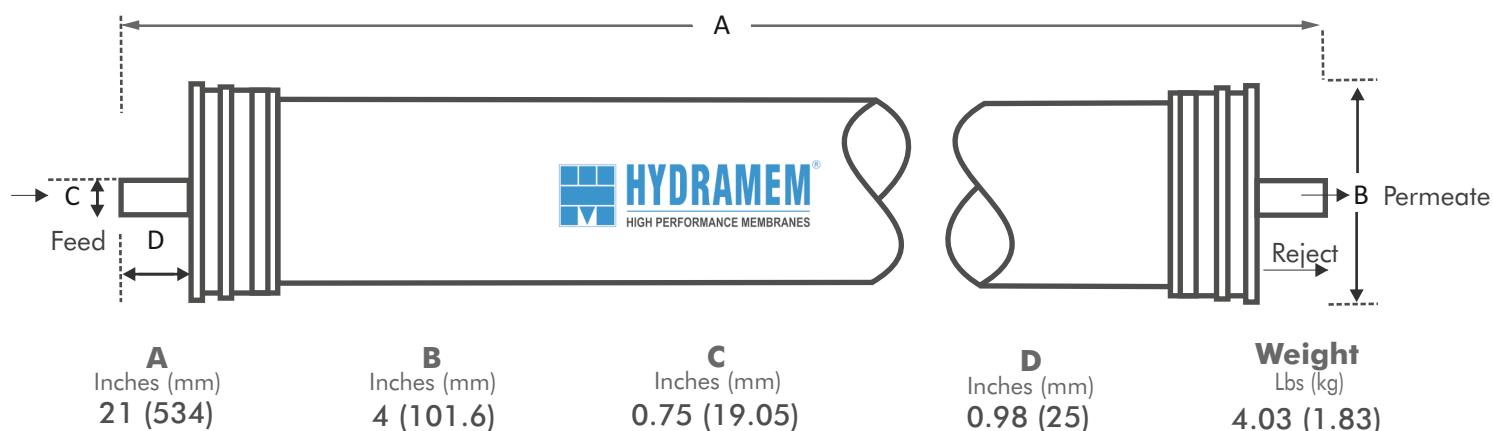
Notes:

Minimum salt rejection is 96%

Permeate flow may vary +/- 15%

Membrane active area variation – +/- 2

Dimensions



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

Operating Limits

Maximum Operating Pressure	:	300 psi (21 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 show 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.



ION EXCHANGE (INDIA) LTD.

Corporate Office

Ion House, Dr. E. Moses Road, Mahalaxmi,
Mumbai - 400011 | Tel: +91 22 6231 2000
E-mail: ieil@ionexchange.co.in

Regional and Branch Offices

Bengaluru | Bhubaneswar | Chandigarh | Chennai
Delhi | Hyderabad | Kolkata | Lucknow | Vadodara
Vashi | Visakhapatnam

International Division

R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400
E-mail: export.sales@ionexchange.co.in

Overseas Offices

Bangladesh | Canada | Indonesia | Kenya
Malaysia | Oman | Portugal | Saudi Arabia | Singapore
South Africa | Sri Lanka | Tanzania | Thailand | UAE | USA

Manufacturing Units

India - Ankleshwar | Hosur | Patancheru | Rabale | Verna | Wada

Overseas - Bangladesh | Indonesia | Saudi Arabia | UAE

All India Service and Dealer Network

www.ionexchangeglobal.com | www.hydrmem.com

