

AXEON



HF4 Series Reverse Osmosis Membrane Elements

AXEON® Extra Low Pressure HF4 Series Membrane Elements are manufactured using the industry's leading patented membrane film technology and offer reliability, high performance, and deliver consistent results. They offer increased production, high rejection rates, and extra low energy consumption by operating at low applied pressures.



- Extra Low Energy
- High Flow Capacities
- Improved System Performance
- Superior Quality and Cost Savings
- Individually Tested
- Made in the U.S.A.

AXEON[®]
WATER TECHNOLOGIES

Engineered Water Treatment Solutions

AXEON

HF4 Series Reverse Osmosis Membrane Elements

AXEON® HF4 Membrane Elements are one of the industries most reliable and highest performing reverse osmosis elements. AXEON® membranes are available in all standard commercial sizes and feature a protective ABS shell. Advanced membrane technology and manufacturing processes ensure high quality and performance, allowing for improved system performance. All elements are shipped dry for an extended shelf life and easier handling. Membrane elements are 100% vacuum integrity tested and may also be ordered as individually wet tested.



Operating Limits:

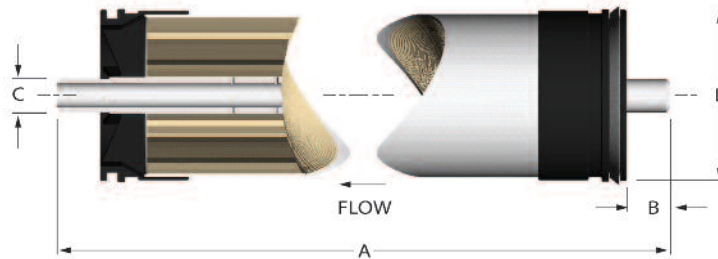
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|-----------------------------------|---------------------|--|--------|
| ■ Membrane Type: | Polyamide Thin-Film | ■ pH Range, Short Term Cleaning (30 Min.): | 1 – 13 |
| ■ Maximum Operating Temperature: | 113°F (45°C) | ■ Maximum Feed Water Turbidity: | 1 NTU |
| ■ Maximum Operating Pressure: | 600 psi (41 bar) | ■ Maximum Feed Silt Density Index: | 5 SDI |
| ■ Minimum Concentrate Flow Rate: | 5:1 | ■ Chlorine Tolerance: | 0 ppm |
| ■ pH Range, Continuous Operation: | 2 – 11 | | |

Product Specifications:

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200386	HF4 – 2514	100 (6.89)	225 (0.85)	98.5
200387	HF4 – 2521	100 (6.89)	400 (1.51)	98.5
200388	HF4 – 2540	100 (6.89)	850 (3.22)	98.5

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200389	HF4 – 4014	100 (6.89)	600 (2.27)	98.5
200390	HF4 – 4021	100 (6.89)	1000 (3.79)	98.5
200391	HF4 – 4040	100 (6.89)	2500 (9.46)	98.5

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Softened City Feed Water, 77 Degrees F, 15% Permeate Recovery, 6.5 - 7.0 pH Range, at the Specified Operating Pressure. Data Taken After 30 Minutes of Operation. Maximum Pressure drop for each element is 10 psi. Minimum salt rejection is 96%. Permeate flow for individual elements may vary +/- 20%.



Dimensions inch (mm):

Description	A	B	C	D
HF4 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
HF4 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
HF4 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)

Description	A	B	C	D
HF4 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF4 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF4 – 4040	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)

Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, the manufacturer recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Wet tested elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first twenty-four hours of operation. The permeate flow (product water flow) varies with feed water temperature. For membrane warranty information, please contact the manufacturer.

The manufacturer believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of products are beyond the manufacturer's control. The manufacturer assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of these products for the user's specific end uses.



P: 800.320.4074 • 760.723.5417 • W: www.axeonwater.com
 F: 760.728.5062 • E: sales@axeonwater.com • 541 Industrial Way, Suite 1, Fallbrook, CA 92028