

# Commercial HF1 Series Membrane Elements



## HF1 Series Membrane Elements

Manufactured using the industry's leading patented membrane film technology. **HF1 Membrane Elements** offer reliability, high performance, and deliver consistent results. They offer increased production, high rejection rates, and low energy consumption by operating at low applied pressures.

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

**RO UltraTec**<sup>®</sup>  
The Ultra Solution.

The Ultra Water  
Treatment Solution.

# HF1 Series Membrane Elements

**HF1 Membrane Elements** are one of the industries most reliable and highest performing reverse osmosis elements. Advanced membrane technology and manufacturing processes ensure high quality and performance, allowing for improved system performance.



## Operating Limits:

- Membrane Type: Thin Film Composite
- Maximum Operating Temperature: 110°F (43°C)
- Minimum Concentrate Flow Rate: 5:1
- pH Range, Continuous Operation: 3 - 11
- pH Range, Short Term Cleaning (30 Min.): 1 - 12
- Maximum Feed Water Turbidity: 1 NTU
- Maximum Feed Silt Density Index (SDI): 5 SDI
- Chlorine Tolerance: 0 PPM

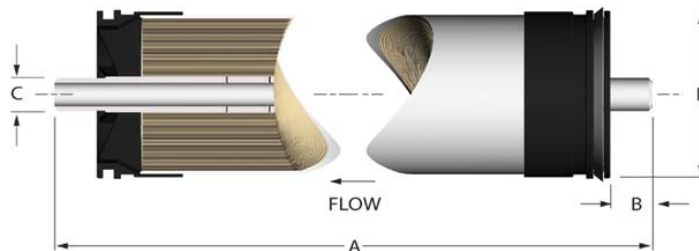
## Features:

- High Flow (HF) Low Energy Membrane Material
- Protective ABS Hard Shell
- Available Wet Tested
- Private Labeling Available
- Made in the U.S.A.

## Product Specifications:

Part Number	Description	Applied Pressure PSI (BAR)	Maximum Pressure PSI (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)	Part Number	Description	Applied Pressure PSI (BAR)	Maximum Pressure PSI (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
200374	HF1-2514	150 (10.34)	400 (27.58)	225	98.5	200377	HF1-4014	150 (10.34)	400 (27.58)	600	98.5
200375	HF1-2521	150 (10.34)	400 (27.58)	400	98.5	200378	HF1-4021	150 (10.34)	400 (27.58)	1000	98.5
200376	HF1-2540	150 (10.34)	400 (27.58)	1000	98.5	200379	HF1-4040	150 (10.34)	400 (27.58)	2500	98.5

Permeate flow and salt rejection based on the following test conditions: 550 ppm Softened Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 - 7.0 pH Range, and the specified applied 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 (inches):

Description	A	B	C	D	Description	A	B	C	D
HF1-2514	14	1.1	0.75	2.4	HF1-4014	14	1.1	0.75	3.95
HF1-2521	21	1.1	0.75	2.4	HF1-4021	21	1.1	0.75	3.95
HF1-2540	40	1.1	0.75	2.4	HF1-4040	40	1.1	0.75	3.95

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 two 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.

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