

# Commercial HF5 Series Membrane Elements



## HF5 Series Membrane Elements

Manufactured using the industry's leading patented membrane film technology, **HF5 Membrane Element** offer reliability, high performance and deliver consistent results. They offer increased production, high rejection rates, and ultra low energy consumption by operating at low applied pressures.

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

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

The Ultra Water  
Treatment Solution.

# HF5 Series Membrane Elements

**HF5 Membrane Elements** are one of the industries highest flowing membranes. They are the only element on the market that operates at a pressure of 80 psi – meaning more energy savings. **HF5 Membrane Elements** are the best choice to counter the negative effects of cold water temperatures on reverse osmosis production.

## 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:

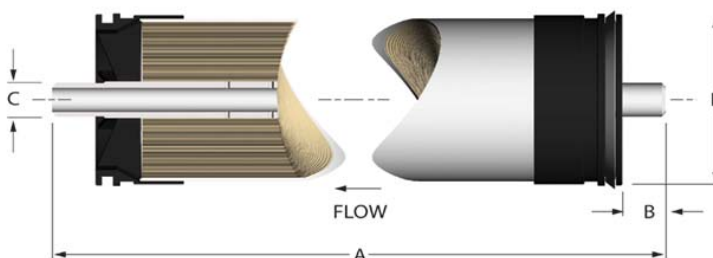
- High Flow (HF)
- Ultra Low Pressure
- Membrane Material
- Tape Over Wrap
- Available Wet Tested
- Made in the U.S.A.



## Product Specifications:

Part Number	Description	Applied Pressure PSI (BAR)	Maximum Pressure PSI (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
200392	HF5 – 4014	80 (5.52)	400 (27.58)	600	98
200393	HF5 – 4021	80 (5.52)	400 (27.58)	1000	98
200394	HF5 – 4040	80 (5.52)	400 (27.58)	2500	98

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
HF5 – 4014	14	1.1	0.75	3.95
HF5 – 4021	21	1.1	0.75	3.95
HF5 – 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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