

# AXEON



## HR3 Series Reverse Osmosis Membrane Elements

**AXEON® High Rejection HR3 Series Membrane Elements** are manufactured using the industry's leading membrane film technology and offer reliability, high performance, and deliver consistent results with high rejection rates, which equipment suppliers, distributors, and dealers worldwide have come to rely on.



- High Rejection Rates
- Improved System Performance
- Superior Quality and Cost Savings
- Individually Tested
- Made in the U.S.A.

**AXEON**<sup>®</sup>  
WATER TECHNOLOGIES

Engineered Water Treatment Solutions

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## HR3 Series Reverse Osmosis Membrane Elements

AXEON® HR3 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:

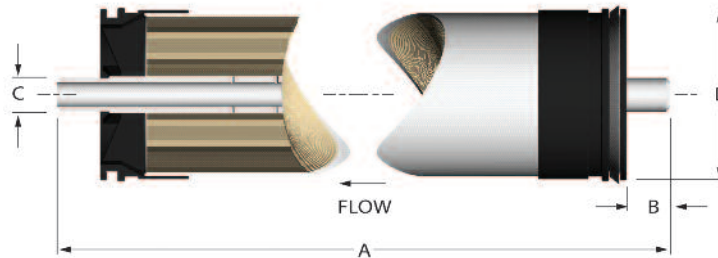
- Membrane Type: Polyamide Thin-Film
- Maximum Operating Temperature: 113°F (45°C)
- Maximum Operating Pressure: 600 psi (41 bar)
- Minimum Concentrate Flow Rate: 5:1
- pH Range, Continuous Operation: 2 – 11
- pH Range, Short Term Cleaning (30 Min.): 1 – 13
- Maximum Feed Water Turbidity: 1 NTU
- Maximum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

### Product Specifications:

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200368	HR3 – 2514	225 (15.51)	150 (0.57)	99
200369	HR3 – 2521	225 (15.51)	250 (0.95)	99
200370	HR3 – 2540	225 (15.51)	650 (2.46)	99

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200371	HR3 – 4014	225 (15.51)	400 (1.51)	99
200372	HR3 – 4021	225 (15.51)	900 (3.41)	99
200373	HR3 – 4040	225 (15.51)	2200 (8.33)	99

**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
HR3 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
HR3 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
HR3 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)

Description	A	B	C	D
HR3 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HR3 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HR3 – 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](http://www.axeonwater.com)  
 F: 760.728.5062 • E: [sales@axeonwater.com](mailto:sales@axeonwater.com) • 541 Industrial Way, Suite 1, Fallbrook, CA 92028