

**AXEON**

# Membrane Elements and Membrane Housings

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Engineered Membrane Solutions

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

# AXEON Membrane Elements

AXEON manufactures membranes for industrial, commercial and residential applications. AXEON membranes utilize the industry's leading membrane film technology and meet the highest production standards. AXEON membranes provide reliable, high-performance results including high rejection and flow rates.

AXEON Membranes are available in all standard sizes. All elements are shipped dry for an indefinite shelf life and ease of handling.

## Benefits of AXEON Membranes

- High rejection rates
- Superior quality and cost savings
- Individually vacuum tested
- High flow capacities
- Improved system performance
- Made in the U.S.A.



AXEON HF-Series Commercial Membranes



AXEON HR-Series Commercial Membranes



AXEON Commercial and Residential Membranes



AXEON TF-Series Residential Membranes



## AXEON Residential Membrane Elements

Series	Flat Sheet Used	Applied Pressure psi (bar)	Permeate Flow Rate Range gpd (lph)	Nominal Salt Rejection (%)	Sizes Available
TF	Extra Low Energy RO	50 (3.44) – 65 (4.48)*	25 (3.94) – 150 (23.66)	98.0*	1812
NF	Nanofiltration	50 (3.44)*	150 (23.66)	80.0 – 90.0	1812

\* Individual element specifications may vary

† NSF 58 listing for residential TF elements only

# AXEON Commercial Membrane Elements

Series	Flat Sheet Used	Applied Pressure psi (bar)	Permeate Flow Rate Range gpd (m3/d)	Nominal Salt Rejection (%)	Sizes Available
HF1	Low Energy RO	150 (10.34)	225 (0.85) – 2500 (9.46)	99.0	2514, 2521 2540, 4014 4021, 4040
HF4	Extra Low Energy RO	100 (6.89)	225 (0.85) – 2500 (9.46)	99.0	2514, 2521 2540, 4014 4021, 4040
HF5	Ultra Low Energy RO	80 (5.52)	600 (2.27) – 2500 (9.46)	98.5	4014 4021, 4040
HR3	High Rejection RO	225 (15.51)	150 (0.57) – 2200 (8.33)	99.5	2514, 2521 2540, 4014 4021, 4040
NF3	Nanofiltration	70 (4.83)	200 (0.76) – 2500 (9.46)	40.0 – 50.0	2514, 2521 2540, 4014 4021, 4040
NF4	Nanofiltration	70 (4.83)	200 (0.76) – 2000 (7.60)	80.0 – 90.0	2514, 2521 2540, 4014 4021, 4040

## The **AXEON** Difference is in the Flat Sheet

**AXEON Membranes** utilize the leading brand of membrane flat sheet from the industry's leading membrane film technology manufacturer, which guarantees performance.

**RO Flat Sheet**  
*Maximizing Element Performance*

### Low Energy Reverse Osmosis HF1-Series

Designed to deliver high quality product water at moderately low pressure operation. Low energy membranes offer solid performance and lower energy consumption when compared to standard high rejection membranes.

### Extra Low Energy Reverse Osmosis HF4-Series

Designed to operate at less than half the feed pressure of standard high rejection membranes and at up to 30% less pressure than other low energy membranes, resulting in enhanced energy savings.

### Ultra Low Energy Reverse Osmosis HF5-Series

Utilizes AXEON's innovative proprietary technology for high permeate production and operating pressures as low as 80 psi. Provides additional efficiency when compared to extra low energy membranes.

### High Rejection Reverse Osmosis HR3-Series

Designed to provide high salt rejection for tap water and light brackish water applications while operating at standard 225 psi pressures. High rejection membranes offer better salt rejection than low energy elements but require more operating energy.

### Nanofiltration NF3-Series

Designed to provide low operating pressures for nanofiltration applications.

### Nanofiltration NF4-Series

Designed to provide higher rejection levels and low operating pressures for nanofiltration applications.

# AXEON Membrane Housings

**AXEON Membrane Housings** are the preferred choice for many water treatment professionals. **AXEON** housings feature a convenient side port entry, an easy-to-remove snap ring and a removable end cap for ease of installation and maintenance. **AXEON** offers a full line of accessories including membrane adapters, mounting clamps, end plug wrenches, locking wedge kits and o-ring replacement kits.

## Benefits of **AXEON** Membrane Housings

- PVC and GTX® material with side port connections
- Locking wedge and snap ring ensure safe performance
- Double o-ring permeate seals
- Individually inspected and sanitized
- Fit all standard size membrane elements
- Made in the U.S.A.



**AXEON**  
Commercial Membranes and Membrane Housings

Part Number	Description	Number of Membranes	Permeate Port Size (inches)	Concentrate Port Size (inches)	Feed Port Size (inches)
200518	AXEON 2514	1	3/8" FNPT	3/8" FNPT	3/8" FNPT
200519	AXEON 2521	1	3/8" FNPT	3/8" FNPT	3/8" FNPT
200520	AXEON 2540	1	3/8" FNPT	3/8" FNPT	3/8" FNPT
200521	AXEON 4014	1	1/2" FNPT	1/2" FNPT	1/2" FNPT
200524	AXEON 4021	1	1/2" FNPT	1/2" FNPT	1/2" FNPT
200527	AXEON 4040	1	1/2" FNPT	1/2" FNPT	1/2" FNPT
200540	AXEON 4080	2	1/2" FNPT	3/4" FNPT	3/4" FNPT
200553	AXEON 40120	3	1/2" FNPT	3/4" FNPT	3/4" FNPT