AXEON
Membrane Elements and Membrane Housings



Engineered Membrane Solutions

AXEON®
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

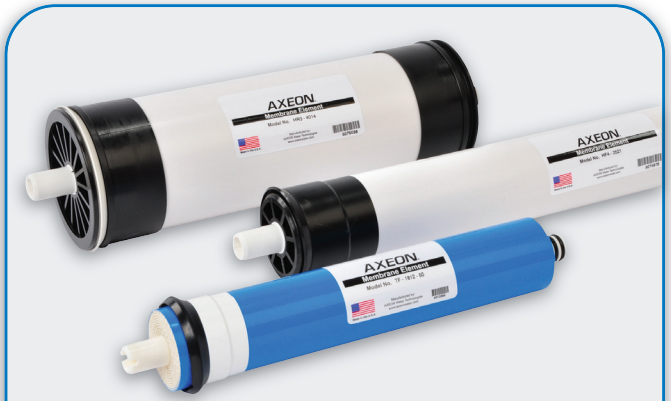
- High rejection rates
- High flow capacities
- Superior quality and cost savings
- Improved system performance
- Individually vacuum tested
- Made in the U.S.A.



AXEON HF-Series Commercial Membranes



AXEON HR-Series Commercial Membranes



AXEON Commercial and Residential Membranes



AXEON TF-Series Residential Membranes

NSF/ANSI STANDARD 58† CERTIFIED

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

AXEON

TF-Series Membrane Elements

AXEON TF-Series Reverse Osmosis Polyamide-Thin Film Composite Membranes are recognized as one of the industry's most reliable and highest performing membrane elements that deliver consistent quality and performance. Advanced manufacturing processes and utilization of the industry's leading film technology allows these elements to deliver consistent results that equipment suppliers and water treatment dealers have come to rely on.



- 98% Nominal Salt Rejection
- Improved System Performance
- Superior Quality and Cost Savings
- Individually Vacuum Tested
- Made in the U.S.A.

NSF®
COMPONENT

This Membrane Element is Tested and Certified by NSF International against NSF/ANSI Standard 58 for material requirements only.

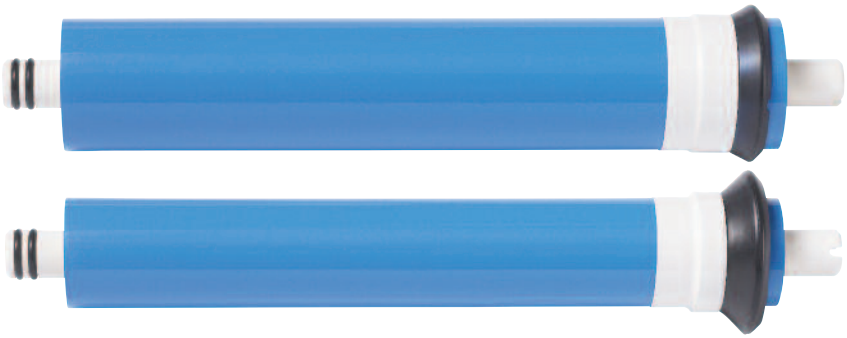
AXEON residential membranes operate as low as 50 psi and can yield up to 23% more water than competitor's membranes at 65 psi.

Engineered Membrane Solutions

AXEON®
WATER TECHNOLOGIES

AXEON TF-Series Membrane Elements

AXEON TF-Series Residential Reverse Osmosis Polyamide-Thin Film Composite Membranes offer reliability, high performance and deliver consistent results for higher quality water. **AXEON** membrane elements will fit a standard 2" x 12" residential membrane housing and are shipped dry for an indefinite shelf life and easier handling. Membrane elements may also be ordered as individually wet tested.



Operating Limits

- Maximum Operating Temperature: 113°F (45°C)
- Maximum Operating Pressure: 150 psi (10 bar)
- Maximum Feed Flow Rate: 2 gpm (7.6 lpm)
- pH Range, Continuous Operation*: 2 – 11
- Maximum Feed Silt Density Index (SDI): 5
- Chlorine Tolerance: 0 ppm

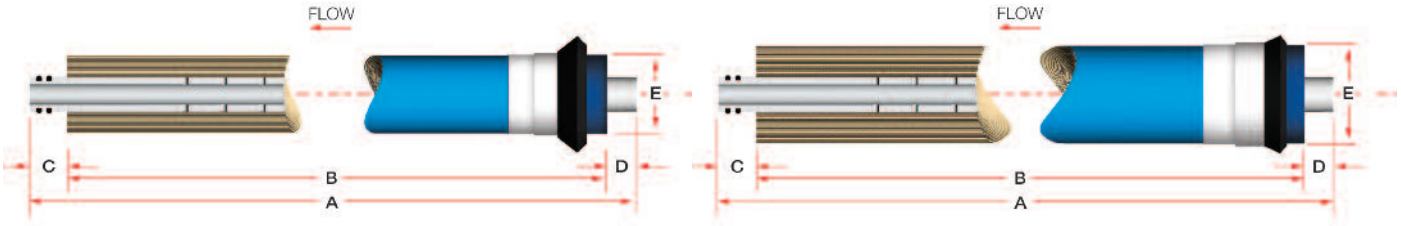
* Maximum temperature for continuous operations above pH10 is 95° F (35°c)

Product Specifications

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (lph)	Nominal Rejection (%)
200357	TF-1812-25	50 (3.44)	25 (3.94)	98.0
200358	TF–1812–35	50 (3.44)	35 (5.52)	98.0
200359	TF–1812–50	50 (3.44)	50 (7.88)	98.0

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (lph)	Nominal Rejection (%)
200360	TF–1812–75	50 (3.44)	75 (11.83)	98.0
200361	TF–1812–100	60 (4.13)	100 (15.77)	98.0
300362	TF–1812–150	65 (4.48)	150 (23.66)	98.0

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal 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	E
TF-1812-25	11.74 (298.2)	10.00 (254)	.86 (21.84)	.88 (22.35)	1.77 (45.08)
TF–1812–35	11.74 (298.2)	10.00 (254)	.86 (21.84)	.88 (22.35)	1.77 (45.08)
TF–1812–50	11.74 (298.2)	10.00 (254)	.86 (21.84)	.88 (22.35)	1.77 (45.08)

Description	A	B	C	D	E
TF–1812–75	11.74 (298.2)	10.00 (254)	.86 (21.84)	.88 (22.35)	1.77 (45.08)
TF–1812–100	11.74 (298.2)	10.00 (254)	.86 (21.84)	.88 (22.35)	1.77 (45.08)
TF–1812–150	11.74 (298.2)	10.00 (254)	.86 (21.84)	.88 (22.35)	1.77 (45.08)

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 oxygen barrier 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.Do not use the first full tank of permeate for drinking or food preparation. The permeate flow (product water flow) varies with feed water temperature. Review a Temperature Correction Chart. For membrane warranty information, please contact 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 the products for the user's specific end uses.

NSF® COMPONENT

This Membrane Element is Tested and Certified by NSF International against NSF/ANSI Standard 58 for material requirements only.

AXEON® WATER TECHNOLOGIES

AXEON

HF1-Series Membrane Elements

AXEON Low Energy HF1-Series Reverse Osmosis Membranes are manufactured using the industry's leading membrane film technology. These membranes offer reliability, high performance and deliver consistent results. They provide increased production, high rejection rates and low energy consumption by operating at low applied pressures.



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

Engineered Membrane Solutions

AXEON®
WATER TECHNOLOGIES

AXEON HF1-Series Membrane Elements



AXEON HF1-Series Membranes are one of the industry's most reliable and highest performing reverse osmosis elements. **AXEON HF1-Series 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. All elements are shipped dry for an indefinite shelf life and easier handling. **AXEON HF1-Series Membrane Elements** are 100% vacuum integrity tested and may also be ordered as individually wet tested.

Operating Limits

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

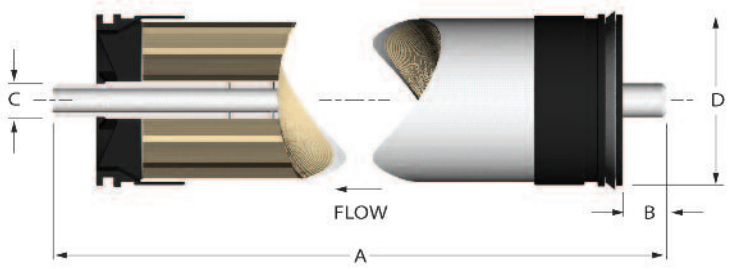
* Maximum temperature for continuous operations above pH10 is 95° F (35°c)

Product Specifications

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200374	HF1 – 2514	150 (10.34)	225 (0.85)	99.0
200375	HF1 – 2521	150 (10.34)	400 (1.51)	99.0
200376	HF1 – 2540	150 (10.34)	1000 (3.79)	99.0

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200377	HF1 – 4014	150 (10.34)	600 (2.27)	99.0
200378	HF1 – 4021	150 (10.34)	1000 (3.79)	99.0
200379	HF1 – 4040	150 (10.34)	2500 (9.46)	99.0

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal 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 15 psi. Minimum salt rejection is 96%. Permeate flow for individual elements may vary +/- 20%.



Dimensions inch (mm)

Description	A	B	C	D
HF1 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
HF1 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
HF1 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)

Description	A	B	C	D
HF1 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF1 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF1 – 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.

AXEON®
WATER TECHNOLOGIES

AXEON

HF4-Series Membrane Elements

AXEON Extra Low Energy HF4-Series Reverse Osmosis Membranes are manufactured using the industry's leading membrane film technology. These membranes offer reliability, high performance and deliver consistent results. They provide 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 Vacuum Tested
- Made in the U.S.A.

Engineered Membrane Solutions

AXEON®
WATER TECHNOLOGIES

AXEON HF4-Series Membrane Elements



AXEON HF4-Series Membranes are one of the industry's most reliable and highest performing reverse osmosis elements. **AXEON HF4-Series 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. All elements are shipped dry for an indefinite shelf life and easier handling. **AXEON HF4-Series Membranes** elements are 100% vacuum integrity tested and may also be ordered as individually wet tested.

Operating Limits

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

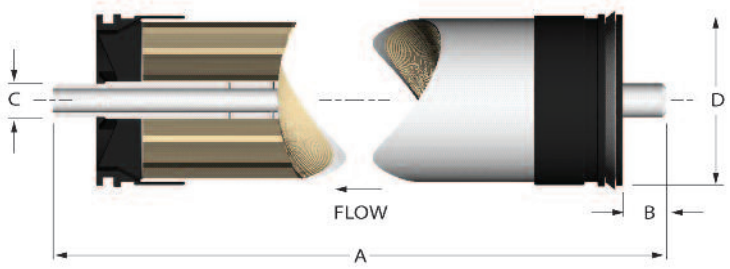
* Maximum temperature for continuous operations above pH10 is 95° F (35°c)

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)	99.0
200387	HF4 – 2521	100 (6.89)	400 (1.51)	99.0
200388	HF4 – 2540	100 (6.89)	850 (3.22)	99.0

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)	99.0
200390	HF4 – 4021	100 (6.89)	1000 (3.79)	99.0
200391	HF4 – 4040	100 (6.89)	2500 (9.46)	99.0

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal 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 13 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.

AXEON®
WATER TECHNOLOGIES

AXEON

HF5-Series Membrane Elements

AXEON Ultra Low Energy HF5-Series Reverse Osmosis Membranes are manufactured using the industry's leading membrane film technology. These membranes offer reliability, high performance and deliver consistent results. They provide increased production, high rejection rates and ultra low energy consumption by operating at low applied pressures.



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

Engineered Membrane Solutions

AXEON®
WATER TECHNOLOGIES

AXEON HF5-Series Membrane Elements



AXEON HF5-Series Membranes are the only elements on the market that operates at a pressure of only 80 psi – which equals more energy savings. **AXEON HF5-Series Membranes** are available in all standard 4-inch commercial sizes and feature a protective tape wound exterior. **AXEON HF5-Series Membranes** are the best choice to counter the negative effects of cold temperatures on reverse osmosis production. All elements are shipped dry for an indefinite shelf life and easier handling. **AXEON HF5-Series Membrane Elements** are 100% vacuum integrity tested and may also be ordered as individually wet tested.

Operating Limits

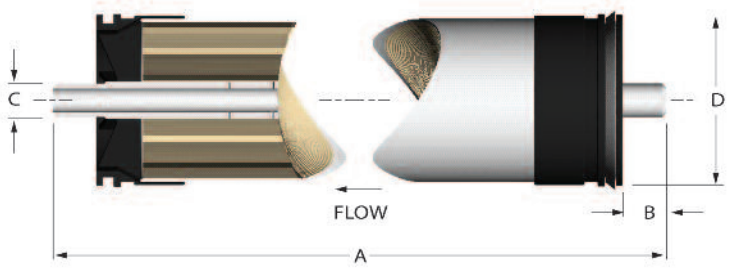
- Membrane Type: Polyamide Thin-Film Composite
- Maximum Operating Temperature: 113°F (45°C)
- Maximum Operating Pressure: 400 psi (27.58 bar)
- pH Range, Continuous Operation*: 2 – 11
- pH Range, Short Term Cleaning (30 Min.): 1 – 13
- Maximum Feed Silt Density Index: 5
- Chlorine Tolerance: 0 ppm

* Maximum temperature for continuous operations above pH10 is 95° F (35°c)

Product Specifications

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate psi (gpd)	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200392	HF5 – 4014	80 (5.52)	600 (2.27)	100 (6.89)	720 (3.72	98.5
200393	HF5 – 4021	80 (5.52)	1000 (3.79)	100 (6.89)	1200 (4.54)	98.5
200394	HF5 – 4040	80 (5.52)	2500 (9.46)	100 (6.89)	3000 (11.36)	98.5

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal 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 13 psi. Minimum salt rejection is 96%. Permeate flow for individual elements may vary +/- 20%.



Dimensions inch (mm):

Description	A	B	C	D
HF5 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF5 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF5 – 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.

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AXEON

HR3-Series Membrane Elements

AXEON High Rejection HR3-Series Reverse Osmosis Membrane Elements are manufactured using the industry's leading membrane film technology. These membranes offer reliability, high performance and deliver consistent results. Equipment suppliers, distributors and dealers have come to rely on the superior performance and dependability of **HR3-Series Membrane Elements.**



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

Engineered Membrane Solutions

AXEON®
WATER TECHNOLOGIES

AXEON HR3-Series Membrane Elements



AXEON HR3-Series Membrane Elements are one of the industry's most reliable and highest performing reverse osmosis elements. **AXEON HR3-Series 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. All elements are shipped dry for an indefinite shelf life and easier handling. **AXEON HR3-Series Membranes** elements are 100% vacuum integrity tested and may also be ordered as individually wet tested.

Operating Limits

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

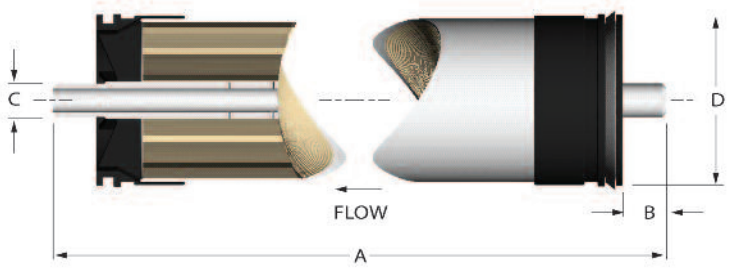
* Maximum temperature for continuous operations above pH10 is 95° F (35°c)

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)	99.5
200369	HR3 – 2521	225 (15.51)	250 (0.95)	99.5
200370	HR3 – 2540	225 (15.51)	650 (2.46)	99.5

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)	99.5
200372	HR3 – 4021	225 (15.51)	900 (3.41)	99.5
200373	HR3 – 4040	225 (15.51)	2200 (8.33)	99.5

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal 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 13 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.

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AXEON

NF3-Series Membrane Elements

AXEON NF3-Series Nanofiltration Membrane Elements are manufactured using the industry's leading membrane film technology. These membranes offer reliability, high performance and deliver consistent results. Equipment suppliers, distributors and dealers have come to rely on the superior performance and dependability of **NF3-Series Membrane Elements.**



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

Engineered Membrane Solutions

AXEON®
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AXEON NF3-Series Membrane Elements



AXEON NF3-Series Membrane Elements are one of the industry's most reliable and highest performing nanofiltration elements. **AXEON NF3-Series 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. All elements are shipped dry for an indefinite shelf life and easier handling. **AXEON NF3-Series Membrane** elements are 100% vacuum integrity tested and may also be ordered as individually wet tested.

Operating Limits

- Membrane Type: Polyamide Thin-Film Composite
- Maximum Operating Temperature: 113°F (45°C)
- Maximum Operating Pressure: 600 psi (41 bar)
- pH Range, Continuous Operation*: 2 – 11
- pH Range, Short Term Cleaning (30 Min.): 1 – 12
- Maximum Feed Silt Density Index: 5
- Chlorine Tolerance: 0 ppm

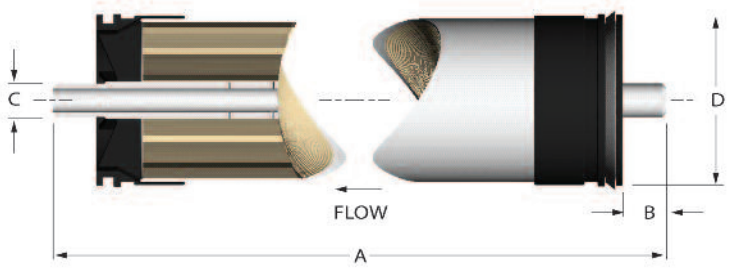
* Maximum temperature for continuous operations above pH10 is 95° F (35°c)

Product Specifications

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200401	NF3 – 2514	70 (4.83)	200 (0.76)	40 – 50
200402	NF3 – 2521	70 (4.83)	350 (1.33)	40 – 50
200403	NF3 – 2540	70 (4.83)	850 (3.22)	40 – 50

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200404	NF3 – 4014	70 (4.83)	400 (1.51)	40 – 50
200405	NF3 – 4021	70 (4.83)	1000 (3.79)	40 – 50
200406	NF3 – 4040	70 (4.83)	2500 (9.46)	40 – 50

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal 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 13 psi. Minimum salt rejection is 96%. Permeate flow for individual elements may vary +/- 20%.



Dimensions inch (mm)

Description	A	B	C	D
NF3 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
NF3 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
NF3 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)

Description	A	B	C	D
NF3 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
NF3 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
NF3 – 4040	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)

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AXEON

NF4-Series Membrane Elements

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

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AXEON NF4-Series Membrane Elements



AXEON NF4-Series Membrane Elements are one of the industry's most reliable and highest performing nanofiltration elements. **AXEON NF4-Series 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. All elements are shipped dry for an indefinite shelf life and easier handling. **AXEON NF4-Series Membranes** elements are 100% vacuum integrity tested and may also be ordered as individually wet tested.

Operating Limits

- Membrane Type: Polyamide Thin-Film Composite
- Maximum Operating Temperature: 113°F (45°C)
- Maximum Operating Pressure: 600 psi (41 bar)
- pH Range, Continuous Operation*: 2 – 11
- pH Range, Short Term Cleaning (30 Min.): 1 – 12
- Maximum Feed Silt Density Index: 5
- Chlorine Tolerance: 0 ppm

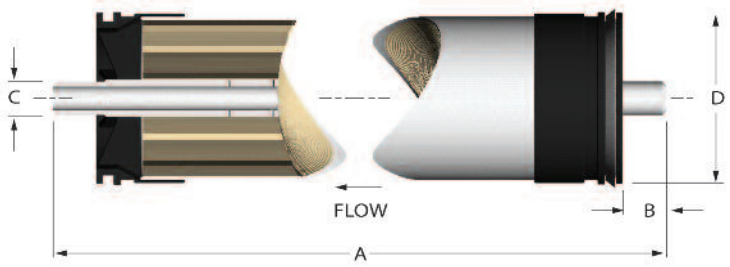
* Maximum temperature for continuous operations above pH10 is 95° F (35°c)

Product Specifications

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200407	NF4 – 2514	70 (4.83)	200 (0.76)	80 – 90
200408	NF4 – 2521	70 (4.83)	250 (0.95)	80 – 90
200409	NF4 – 2540	70 (4.83)	680 (2.57)	80 – 90

Part Number	Description	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m3/d)	Nominal Salt Rejection (%)
200410	NF4 – 4014	70 (4.83)	400 (1.51)	80 – 90
200411	NF4 – 4021	70 (4.83)	950 (3.60)	80 – 90
200412	NF4 – 4040	70 (4.83)	2000 (7.6)	80 – 90

Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal 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 13 psi. Minimum salt rejection is 96%. Permeate flow for individual elements may vary +/- 20%.



Dimensions inch (mm)

Description	A	B	C	D
NF4 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
NF4 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)
NF4 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)

Description	A	B	C	D
NF4 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
NF4 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
NF4 – 4040	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)

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