

LENNTECH

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AXEON[®]
WATER TECHNOLOGIES

AXEON HF5-Series Membrane Elements

The industry's only 80psi rated membranes.



AXEON PVC Membrane Housings

The industry's only side port entry PVC housing.



AXEON Membrane Chemicals

The industry's leading formulation of membrane chemicals.



Engineered Membrane Solutions

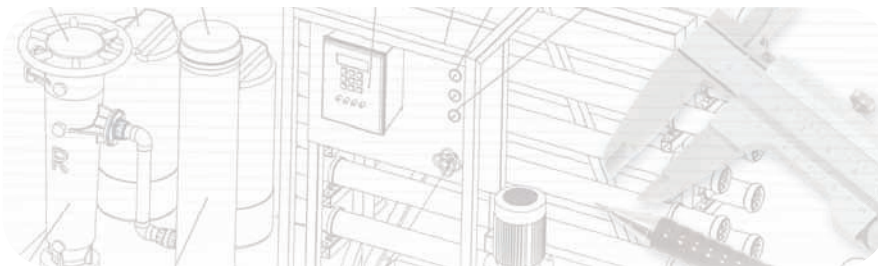
AXEON[®]
WATER TECHNOLOGIES

Who We Are

AXEON Water Technologies is a complete solutions provider for membrane technology based products for industrial, commercial, and residential applications. Founded on the principle of producing high-quality products at the most competitive prices, **AXEON** has continued to implement this strategy as our company and our customers have grown.

AXEON has invested more than two decades in the research, engineering, manufacturing and distribution of RO water treatment products that have earned the trust and respect of industry professionals and of a customer base that spans the globe.

At **AXEON**, we continue to position ourselves at the forefront of innovative water treatment technologies, to better serve our customers and support their success with new water treatment solutions and top tier support.



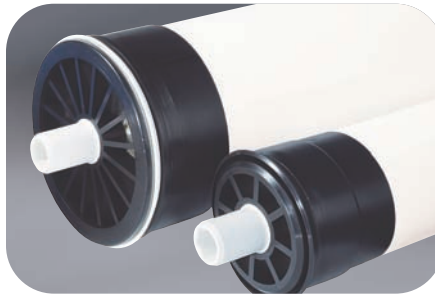
What We Do

AXEON Water Technologies provides a complete offering of products to address all water treatment applications from point-of-entry (POE) to point-of-use (POU). We are a true OEM of membrane systems, membrane elements, membrane housings and membrane chemicals. All of the products we manufacture utilize the highest-quality materials and manufacturing principles, and meet the highest-quality standards.

At **AXEON**, we offer extensive technical and customer support. From applications engineering to technical on-site troubleshooting, when you purchase **AXEON** products and systems, you can trust that we are just a phone call away when you need support.

Our application engineers can custom tailor a solution to meet your needs and assist you in receiving maximum value throughout its life cycle. Experience the quality and support you and your customers deserve — from **AXEON Water Technologies**.

Engineered Membrane Solutions



Our Products

AXEON Water Technologies is a premier manufacturer of membrane systems, membrane elements, membrane housings and membrane chemicals.

AXEON membrane systems represent the culmination of years of design expertise and are among the most durable, compact and highest-performing membrane solutions on the market. Our various lines of membrane systems include tap water, brackish water and sea water systems that can treat feed waters up to 45,000 total dissolved solids and up to 500,000 gallons per day.

AXEON membrane elements feature a diverse offering of innovative designs stemming from our original core products. With more than 20 years of experience in the manufacturing and production of membrane elements, **AXEON** engineers are experienced in the complexities of membrane performance and sustainability in industrial, commercial and residential applications. All **AXEON** residential membranes are NSF 58 listed and approved, and utilize the industry's leading membrane film technology to ensure consistent performance and high-quality product water. **AXEON** also manufactures commercial membranes that have the lowest operating pressure in the industry, and can save customers substantially in operating costs.

AXEON membrane housings are designed for continuous, long term use and easy installation. **AXEON** PVC Membrane Housings are the preferred choice of many water treatment professionals with a convenient side port entry and easy to remove end cap for ease of installation and maintenance. **AXEON** FRP and Stainless Steel membrane housings feature end entry connections and are offered in 2.5" and 4" diameters.

AXEON membrane chemicals are formulated to treat a variety of feed water conditions for commercial and industrial applications, and aid in the continued operation and maintenance of membrane elements. **AXEON** Antiscalants, Antifoulants, Cleaners and Support Chemicals are compatible with all brands and types of RO, NF, UF membranes and are a must for maintaining any water purification system.

Our Customers

AXEON is a customer driven organization, and we value the relationships that we have with our customers. We know that continuous communication, understanding and commitment are required to make our customers successful. Our customers have selected **AXEON** as their water treatment solutions provider because they value our commitment to:

- Manufacture high-quality systems that meet international water purity standards for point-of-use and point-of-entry applications
- Provide exceptional customer support
- House inventories that exceed our customers' demands
- Provide technical support that improves our customers' efficiency and their customers' satisfaction
- Maintain constant focus on innovation and system design

AXEON not only supplies products but also provides customers with sales and RO technical training so they can effectively grow their businesses and support their product offerings. **AXEON** marketing assistance supports our customers' business development with up-to-date product information and seasoned advice on applications, projects, and the water industry.

AXEON customers are more than just a customer; they are our business partners.

AXEON Water Technologies is a complete solutions manufacturer for membrane systems, elements, housings and components for industrial, commercial and residential applications.

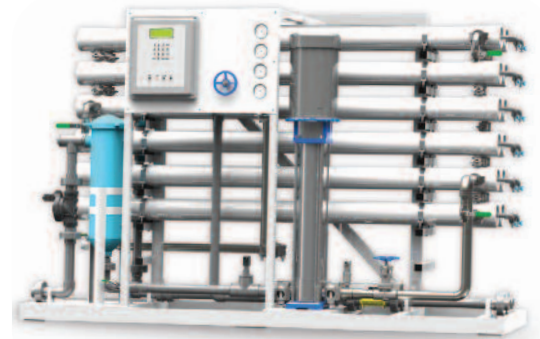
AXEON has invested more than two decades in the research, engineering, manufacturing and distribution of water treatment products. We are proud to have earned the trust and respect of industry experts and of our customer base around the globe.

Our customers select **AXEON** as their reverse osmosis solutions provider because they value our commitment to:

- Manufacture high-quality systems that meet international water purity standards for point-of-use and point-of-entry applications
- Provide exceptional customer service to our customers
- Stock inventories that exceed our customers' demands
- Provide technical, sales and marketing support that improve our customers' efficiency and their customers' satisfaction.
- Maintain a constant focus on innovation and system design.

At **AXEON**, we are determined to continue as a leader in reverse osmosis innovation, to better serve our customers and support their success.

Contact us today at +31-152-616-900 to discuss how **AXEON** Water Technologies can become your Engineered Membrane Solutions provider.



Contact an Lenntech representative today to learn more about our products and services.

Engineered Membrane Solutions

AXEON

Membrane Elements and Membrane Housings



Engineered Membrane Solutions

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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

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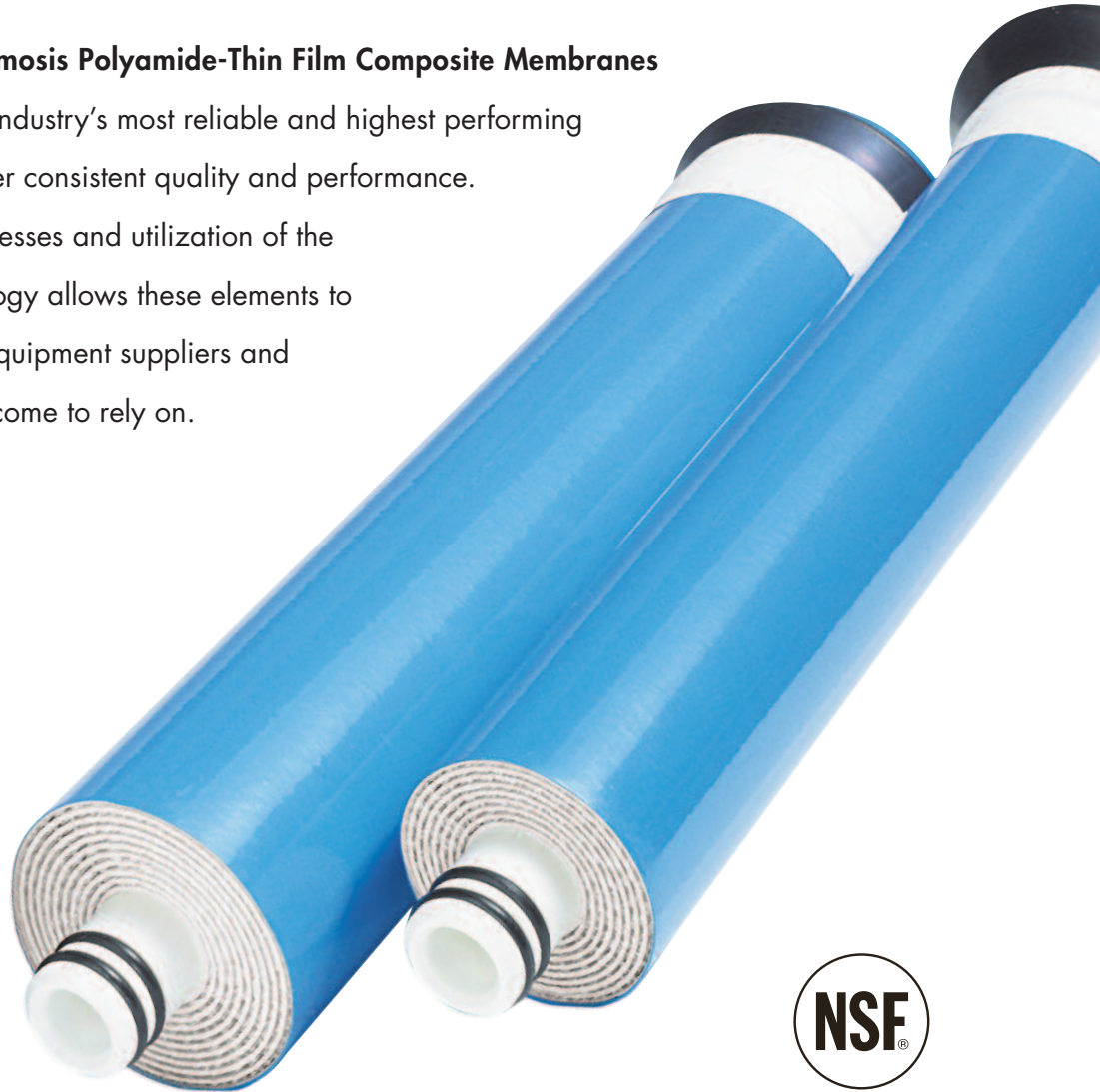
AXEON

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.



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.

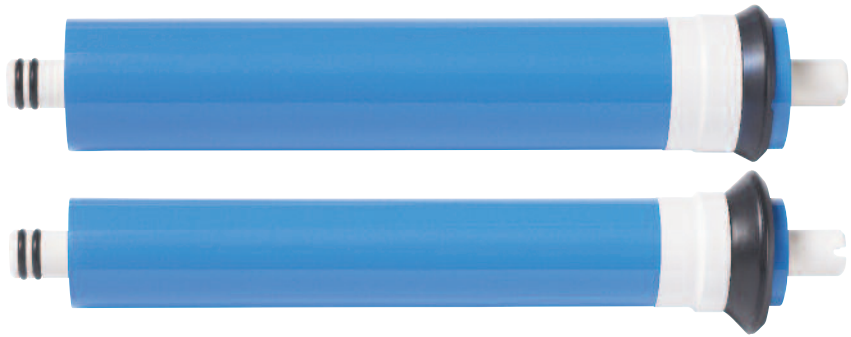
Engineered Membrane Solutions

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

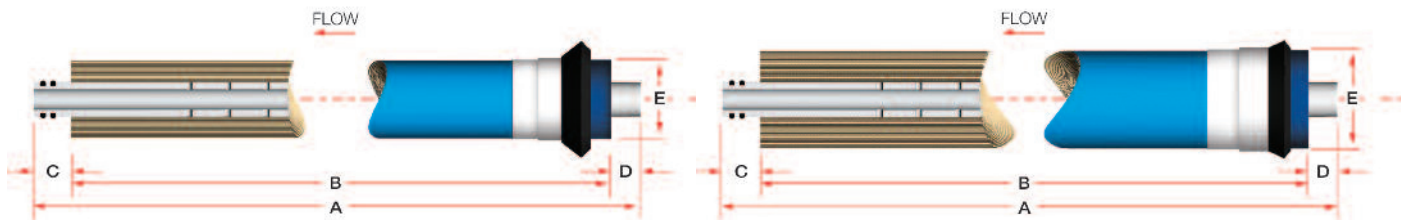
■ Maximum Operating Temperature:	113°F (45°C)	■ pH Range, Continuous Operation*:	2 – 11
■ Maximum Operating Pressure:	150 psi (10 bar)	■ Maximum Feed Silt Density Index (SDI):	5
■ Maximum Feed Flow Rate:	2 gpm (7.6 lpm)	■ Chlorine Tolerance:	0 ppm

* 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 (%)	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	200360	TF-1812-75	50 (3.44)	75 (11.83)	98.0
200358	TF-1812-35	50 (3.44)	35 (5.52)	98.0	200361	TF-1812-100	60 (4.13)	100 (15.77)	98.0
200359	TF-1812-50	50 (3.44)	50 (7.88)	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	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-1812-75	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-1812-100	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)	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.



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

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.



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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

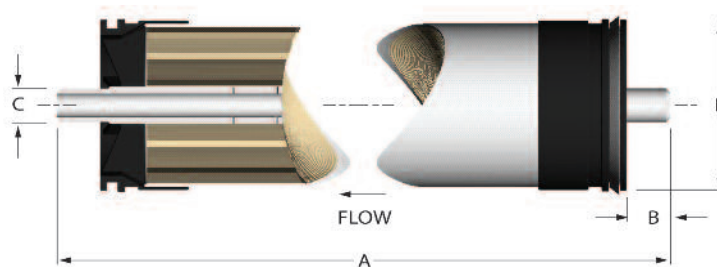
■ Membrane Type:	Polyamide Thin-Film Composite	■ pH Range, Short Term Cleaning (30 Min.):	1 – 13
■ Maximum Operating Temperature:	113°F (45°C)	■ Maximum Feed Silt Density Index (SDI):	5
■ Maximum Operating Pressure:	600 psi (41 bar)	■ Chlorine Tolerance:	0 ppm
■ pH Range, Continuous Operation*:	2 – 11		

* 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 (%)	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	200377	HF1 – 4014	150 (10.34)	600 (2.27)	99.0
200375	HF1 – 2521	150 (10.34)	400 (1.51)	99.0	200378	HF1 – 4021	150 (10.34)	1000 (3.79)	99.0
200376	HF1 – 2540	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	Description	A	B	C	D
HF1 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	HF1 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF1 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	HF1 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF1 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	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

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.



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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

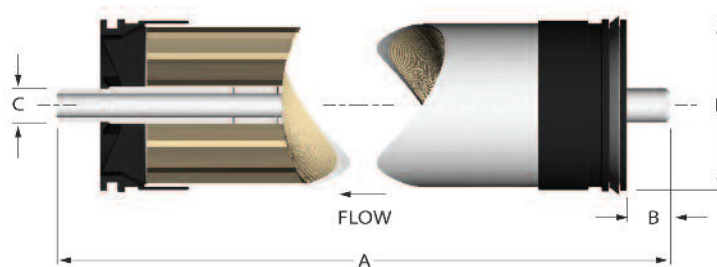
■ Membrane Type:	Polyamide Thin-Film Composite	■ pH Range, Short Term Cleaning (30 Min.):	1 – 13
■ Maximum Operating Temperature:	113°F (45°C)	■ Maximum Feed Silt Density Index:	5
■ Maximum Operating Pressure:	600 psi (41 bar)	■ Chlorine Tolerance:	0 ppm
■ pH Range, Continuous Operation*:	2 – 11		

* 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 (%)	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	200389	HF4 – 4014	100 (6.89)	600 (2.27)	99.0
200387	HF4 – 2521	100 (6.89)	400 (1.51)	99.0	200390	HF4 – 4021	100 (6.89)	1000 (3.79)	99.0
200388	HF4 – 2540	100 (6.89)	850 (3.22)	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	Description	A	B	C	D
HF4 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	HF4 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF4 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	HF4 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HF4 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	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.

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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
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- Made in the U.S.A.

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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.



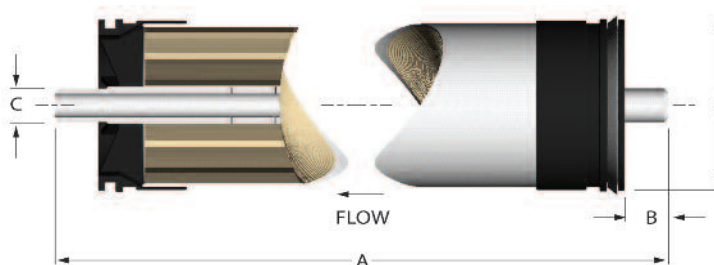
Operating Limits

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

* 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.

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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

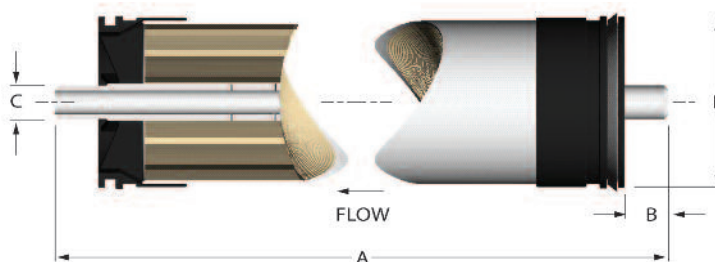
■ Membrane Type:	Polyamide Thin-Film Composite	■ pH Range, Short Term Cleaning (30 Min.):	1 – 13
■ Maximum Operating Temperature:	113°F (45°C)	■ Maximum Feed Silt Density Index (SDI)	5
■ Maximum Operating Pressure:	600 psi (41 bar)	■ Chlorine Tolerance:	0 ppm
■ pH Range, Continuous Operation*:	2 – 11		

* 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 (%)	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	200371	HR3 – 4014	225 (15.51)	400 (1.51)	99.5
200369	HR3 – 2521	225 (15.51)	250 (0.95)	99.5	200372	HR3 – 4021	225 (15.51)	900 (3.41)	99.5
200370	HR3 – 2540	225 (15.51)	650 (2.46)	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	Description	A	B	C	D
HR3 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	HR3 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HR3 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	HR3 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
HR3 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	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.

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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

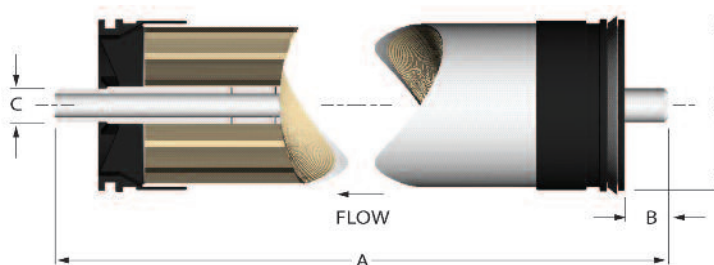
Membrane Type:	Polyamide Thin-Film Composite	pH Range, Short Term Cleaning (30 Min.):	1 – 12
Maximum Operating Temperature:	113°F (45°C)	Maximum Feed Silt Density Index:	5
Maximum Operating Pressure:	600 psi (41 bar)	Chlorine Tolerance:	0 ppm
pH Range, Continuous Operation*:	2 – 11		

* 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 (%)	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	200404	NF3 – 4014	70 (4.83)	400 (1.51)	40 – 50
200402	NF3 – 2521	70 (4.83)	350 (1.33)	40 – 50	200405	NF3 – 4021	70 (4.83)	1000 (3.79)	40 – 50
200403	NF3 – 2540	70 (4.83)	850 (3.22)	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	Description	A	B	C	D
NF3 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	NF3 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
NF3 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	NF3 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
NF3 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	NF3 – 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

NF4-Series Membrane Elements

AXEON NF4-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 **NF4-Series Membrane Elements**.



- 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

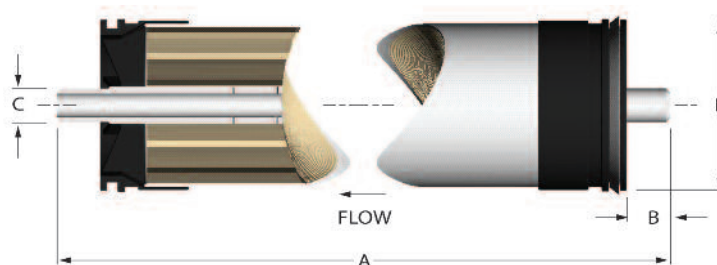
Membrane Type:	Polyamide Thin-Film Composite	pH Range, Short Term Cleaning (30 Min.):	1 – 12
Maximum Operating Temperature:	113°F (45°C)	Maximum Feed Silt Density Index:	5
Maximum Operating Pressure:	600 psi (41 bar)	Chlorine Tolerance:	0 ppm
pH Range, Continuous Operation*:	2 – 11		

* 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 (%)	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	200410	NF4 – 4014	70 (4.83)	400 (1.51)	80 – 90
200408	NF4 – 2521	70 (4.83)	250 (0.95)	80 – 90	200411	NF4 – 4021	70 (4.83)	950 (3.60)	80 – 90
200409	NF4 – 2540	70 (4.83)	680 (2.57)	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	Description	A	B	C	D
NF4 – 2514	14 (355.6)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	NF4 – 4014	14 (355.6)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
NF4 – 2521	21 (533.4)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	NF4 – 4021	21 (533.4)	1.1 (27.94)	0.75 (19.05)	3.95 (100.3)
NF4 – 2540	40 (1016.0)	1.1 (27.94)	0.75 (19.05)	2.4 (60.96)	NF4 – 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

PVC Membrane Housings

AXEON PVC Membrane Housings are the preferred choice of many water treatment professionals. Each model of **AXEON** housings features a convenient side port entry and an easily removable end cap for ease of installation and maintenance. **AXEON** housings offer a cost effective solution for your water purification needs, they come complete with everything needed for a quick and easy installation. Various accessories are available such as membrane adapters, mounting clamps, end plug wrenches and o-ring replacement kits.



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AXEON[®] PVC Membrane Housings

- PVC material with side port connections
- Design requires no tools for assembly
- Removable end plug for ease of installation and maintenance
- Locking wedge for security
- Double o-ring permeate seals
- Individually inspected and sanitized
- Fits all standard sized membrane elements
- Made in the U.S.A.



Features

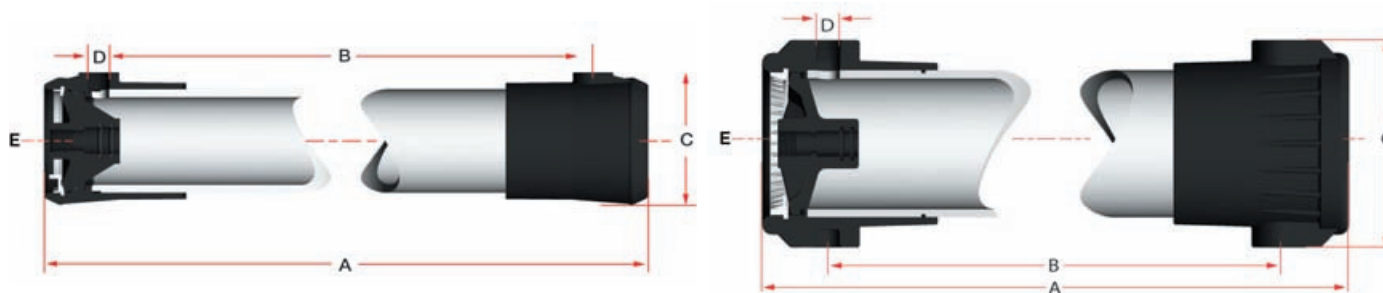
- AXEON "A" Housings Accommodate Female Flush Cut Elements
- Quadra Port (4 open ports) Housings Allow for Ease of Plumbing
- 180° Rotated Port Housings Available
- Custom Sizing Available
- Adapters and Interconnectors Available

Materials

- NSF Approved PVC Material
- NSF Approved GTX Material
- NSF Approved EPR O-Rings

Specifications

- Maximum Operating Pressure: 225 psi @ 73° F / 22° C
- Maximum Operating Temperature: 110° F / 43° C
- Minimum Operating Temperature: 35° F / 1° C



Approximate Dimensions (inches)

Part Number	Description	Number of Membranes	A	B	C	D	E
200518	AXEON 2514	1	17	14	3 3/4"	3/8" FNPT	3/8" FNPT
200519	AXEON 2521	1	24	21	3 3/4"	3/8" FNPT	3/8" FNPT
200520	AXEON 2540	1	43	40	3 3/4"	3/8" FNPT	3/8" FNPT
200521	AXEON 4014	1	19	14	6	1/2" FNPT	1/2" FNPT
200524	AXEON 4021	1	26	21	6	1/2" FNPT	1/2" FNPT
200527	AXEON 4040	1	45	40	6	1/2" FNPT	1/2" FNPT
200540	AXEON 4080	2	85	80	6	3/4" FNPT	1/2" FNPT
200552	AXEON 40120	3	125	120	6	3/4" FNPT	1/2" FNPT

AXEON

SS Membrane Housings



AXEON Stainless Steel (SS) Membrane Housings

feature the True-Clamp™ Integrated Clamping System.

These membrane housings also feature a 304L corrosion resistant stainless steel end entry connections and are able to withstand high pressures.

AXEON Stainless Steel (SS) Membrane Housings are offered in a 2.5" and 4" diameters.

Engineered Membrane Solutions

AXEON

SS Membrane Housings

SS Membrane Housings are for continuous, long-term use for reverse osmosis, nanofiltration and ultrafiltration elements which are used on typical commercial water treatment systems at pressures up to 250 psi.



SS Membrane Housings accommodate any make of 2.5-inch or 4-inch nominal diameter spiral wound elements with a 3/4" diameter male product tube.

Features

- 304L Stainless Steel Construction
- Seamless Housing Body (1.80 mm Thick)
- End Entry Single Piece Nylon End Plugs
- High Resistance to Climate Conditions
- True-Clamp™ Integrated Clamping System
- Buna-N Double O-Rings for Sealing Integrity
- Accommodate All Standard Sized Membrane Elements
- Adapters, Interconnectors and Mounting Clamps Available

Part Number	Description	Number of Membranes	Diameter	Length	C O N N E C T I O N S		
					Feed (FNPT)	Permeate (FNPT)	Concentrate (FNPT)
202919	2514 SS-250E	1	2.5"	14"	3/8"	3/8"	3/8"
202920	2521 SS-250E	1	2.5"	21"	3/8"	3/8"	3/8"
202921	2540 SS-250E	1	2.5"	40"	3/8"	3/8"	3/8"
202922	4021 SS-250E	1	4.0"	21"	1/2"	1/2"	1/2"
202923	4040 SS-250E	1	4.0"	40"	1/2"	1/2"	1/2"
202924	4040 SS-250E	1	4.0"	40"	3/4"	1/2"	3/4"
202925	4080 SS-250E	2	4.0"	80"	3/4"	3/4"	3/4"
202926	4120 SS-250E	3	4.0"	120"	3/4"	3/4"	3/4"

Materials of Construction

- End Plug Nylon
- End Plug Screws 304 SS
- Housing Body 304L SS
- Clamp 304 SS
- O-Ring Buna-N

Technical Specifications

- Maximum Operating Pressure: 250 psi / 17 bar
- Minimum Operating Temperature: 35° F / 1° C
- Maximum Operating Temperature: 120° F / 48° C

AXEON

FRP Membrane Housings



AXEON Fiberglass (FRP) Membrane Housings

feature end entry connections, the True-Lock™ Integrated Locking System and demonstrate a higher resistance to various climate conditions, feed water compositions and chemicals. These membrane housings are offered in 2.5" and 4" diameters, and in all standard lengths.

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AXEON FRP Membrane Housings

FRP Membrane Housings are for continuous long-term use for reverse osmosis, nanofiltration and ultrafiltration elements which are used on typical commercial water treatment systems at pressures up to 300 psi.

FRP Membrane Housings accommodate any make of 2.5-inch or 4-inch nominal diameter spiral wound elements with a 3/4" diameter male product tube.



Features

- Fiberglass Construction
- End Entry Connections
- Single Piece ABS End Plugs
- True-Lock™ Integrated Locking System
- High Resistance to Chemicals, High Levels of Chlorides and Climate Conditions
- Easy Removable End Plug for Ease of Installation and Maintenance
- Accommodate All Standard Sized Membrane Elements
- Adapters, Interconnectors and Mounting Clamps Available

Part Number	Description	Number of Membranes	Diameter	Length	C O N N E C T I O N S		
					Feed (FNPT)	Permeate (FNPT)	Concentrate (FNPT)
204229	2521 FRP-300E	1	2.5"	21"	1/4"	1/4"	1/4"
204230	2540 FRP-300E	1	2.5"	40"	1/4"	1/4"	1/4"
202929	4040 FRP-300E	1	4.0"	40"	3/4"	1/2"	3/4"
202930	4080 FRP-300E	2	4.0"	80"	3/4"	1/2"	3/4"

Materials of Construction

- End Plug ABS
- Clamp 304 SS
- Clamp Screws 304 SS
- O-Ring EPDM
- Housing Body Fiberglass

Technical Specifications

- Maximum Operating Pressure: 300 psi / 20 bar
- Minimum Operating Temperature: 35°F / 1°C
- Maximum Operating Temperature: 150° F / 66° C

AXEON

Membrane Chemicals

AXEON Water Technologies features a broad range of membrane chemicals formulated to treat a variety of water conditions for commercial and industrial applications. **AXEON Membrane Chemicals** are formulated to be compatible with all brands and types of RO, NF, UF membranes and provide antiscaling and antifouling capabilities while being certified under ANSI/NSF standard 60 for drinking water production. **AXEON Cleaners** and **Support Chemicals** are the ideal choice for prolonging the life of membranes and obtaining a higher level of performance from the elements within the membrane system.



Antiscalants: S-100, S-200

AXEON Antiscalants are a unique polymeric system designed to control a vast range of RO/UF membrane foulants, which maximizes system performance and minimizes membrane cleaning requirements. **AXEON Antiscalants** are environmentally safe and resistant to biological growth, which ensures product integrity and optimum performance.

- Control of scale at up to 100 times saturation values or higher
- A lower cost and maintenance alternative to water softeners
- High system recovery and extended membrane life
- NSF/FDA approved

Antifoulants: F-25

AXEON Antifoulants are specially formulated for feedwaters with high potential for fouling by colloidal particles, organic matter and silt. These **Antifoulants** are designed for sea and brackish surface waters that contain high levels of organic matter.

- Designed to reduce the amount of bacteria and fouling within the membranes
- Can be used as a pre treatment option to control membrane fouling
- Environmentally friendly and food grade

Membrane Cleaners: C-10, C-20

AXEON features a robust offering of membrane cleaners designed to safely and effectively remove membrane foulants from thin film composite or cellulose acetate membranes.

- Ideal for prolonging the life of membranes and obtaining a higher level of performance from the elements
- Formulated to counteract a variety of foulants
- Substantial cost savings on replacement membranes

Support Chemicals: M-100

AXEON also provides a variety of support chemicals to further preserve and protect the life of a system or membrane. Preservative and storage chemicals are ideal for preventing microbiological growth and freezing within membrane elements during storage.

- Protects against microbiological growth
- Protects against freezing
- Non-hazardous, environmentally safe

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AXEON

S-100 Antiscalant

AXEON S-100 Antiscalant is a highly effective antiscalant, specially formulated for feedwaters with the highest levels of metal oxides, silica and scale-forming minerals. It is effective over a wide range of concentrations, and does not flocculate dissolved polymers such as residual coagulants, iron or aluminum rich silica. Use of this product is recommended for reducing the operating and capital costs of reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) systems. A special utility is in its application as a substitute for pretreatment with ion exchange beds.



Product Benefits

- Effective in retarding polymerization and precipitation of silica
- Effectively controls inorganic scales over a large concentration range.
- Certified under ANSI/NSF Standard 60 for drinking water production.
- Compatible with major manufacturer's RO, NF, and UF membranes.
- Does not flocculate dissolved iron/aluminum oxide/silica complexes.
- Effective in controlling calcium carbonate and calcium sulfate scales.
- Effective in feedwaters with pH range 5.0 – 10.0
- Efficacious for controlling aluminum, iron and heavy metal salts.

Technical Specifications

Liquid*

Appearance:	Clear, colorless
pH:	1.5 ± 0.8
Specific Gravity:	1.08 ± 0.05

Powder*

Appearance:	Colorless
pH (1% in water):	11 – 12

Dosing Recommendations

AXEON S-100 Antiscalant should be injected into the feed-stream prior to the static mixer and cartridge filter. Effective pH range is 5 – 10. If frozen, may be thawed and mixed before use. Stability is excellent, but best used within 12 months.

Dosing Recommendations

In the useful dosage range of 1 – 15 mg/L (neat), **S-100** controls a wide range of inorganic scales at up to 100 x saturation values or higher is possible. By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of scales including that from calcium carbonate, calcium sulfate, barium sulfate, strontium sulfate, iron hydroxide, aluminum hydroxide and silica.

Packaging

Liquid:	Pails and drums
Powder (concentrate):	Totes

* MSDS available upon request.

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AXEON

S-200 Antiscalant

AXEON S-200 Antiscalant is a highly effective antiscalant, specially formulated for feedwater with the highest levels of metal oxides, silica and scale-forming minerals. It is effective over a wide range of concentrations, and does not flocculate dissolved polymers such as residual coagulants, iron or aluminum-rich silica. Use of this product is recommended for reducing the operating and capital costs of reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) systems. It inhibits polymerization of reactive silica, and disperses colloidal (non-reactive) silica.



Product Benefits

- Effective in retarding polymerization and precipitation of silica
- Effectively controls inorganic scales over a large concentration range.
- Certified under ANSI/NSF Standard 60 for drinking water production.
- Compatible with major manufacturer's RO, NF, and UF membranes.
- Does not flocculate dissolved iron/aluminum oxide/silicate complexes.
- May be used diluted or undiluted.
- Effective in feedwaters with pH range 5.0 – 10.0
- Particularly efficacious for controlling coagulation of colloidal silica by aluminum, iron and heavy metal salts.

Technical Specifications

Liquid*

Appearance:	Clear, colorless
pH:	1.5 ± 0.8
Specific Gravity:	1.08 ± 0.05

Powder*

Appearance:	Colorless
pH (1% in water):	11 – 12

Dosing Recommendations

AXEON S-200 Antiscalant should be injected into the feedstream prior to the static mixer and cartridge filter. Effective pH range is 5 – 10. If frozen, may be thawed and mixed before use. Stability is excellent, but best used within 12 months.

Dosing Recommendations

In the useful dosage range of 1 – 50 ppm, **S-200** controls a wide range of inorganic scales along with reactive and nonreactive silica at high levels. By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of silica gels and scales, which form chemically linked foulants prone to flocculation with organic materials.

Packaging

Liquid:	Pails and drums
Powder (concentrate):	Totes

* MSDS available upon request.

Engineered Membrane Solutions

AXEON

F-25 Antifoulant

AXEON F-25 Antifoulant is a highly effective anticoagulant and antifoulant for all membrane systems treating feedwaters with high potentials for fouling by silt, organics, colloids and fine particulates. It is effective over a wide range of concentrations, and does not flocculate dissolved polymers such as residual coagulants, iron or aluminum-rich silica. A special utility of **AXEON F-25 Antifoulant** is in its application as an anti-deposition agent for colloidal matter in sea and brackish surface waters, and industrial and municipal wastewaters. It prevents the coagulation and subsequent membrane fouling by colloidal organic matter which includes humic acid, lignin, tannin, microorganisms, polysaccharides, lipids, proteins, cellular debris and organic polymers from water treatment and inorganic colloids including silica, clay, silt, sulfur and various microcrystalline precipitates.



Product Benefits

- Inhibits coagulation and deposition of organic and inorganic colloidal particles.
- Reduces requirements for membrane cleaning by decreasing the rate of membrane fouling.
- Effectively reduces membrane fouling when processing waters with high SDI values.
- Certified under ANSI/NSF Standard 60 for drinking water production.
- Eliminates the need for additional expensive pretreatment equipment and chemicals to control feedwaters with high SDI values.
- Compatible with major manufacturers' RO, NF, and UF membranes.
- Compatible with simultaneous administration of antiscalants into feedwaters.

Technical Specifications

Liquid*

Appearance:	Amber clear liquid
pH:	7 – 9
Specific Gravity:	1.02 ± 0.15

Powder*

Appearance:	Tan colored powder
pH (1% in water):	Approx. 7

Dosing Recommendations

F-25 Antifoulant should be injected into the feed-stream prior to the static mixer and cartridge filter. Effective pH range is 2 – 14. If frozen, may be thawed and mixed before use. Stability is excellent, but best used within 12 months.

Dosing Recommendations

In the useful dosage range of 1 – 100 ppm neat (liquid), and 0.3 – 33ppm (powder), the liquid being 33% w/w of the powder in water. By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of colloidal particles in feedwater of microbial, plant or inorganic origins, and organic compounds in industrial process or waste streams.

Packaging

Powder:	Custom sizes, 50 lbs, 100 lbs.
Liquid:	Custom sizes, 5 gallons, 55 gallons

* MSDS available upon request.

Engineered Membrane Solutions

AXEON
WATER TECHNOLOGIES



AXEON

C-Series Cleaners

AXEON C-Series Cleaners are heavy duty action cleaners that quickly and easily mix with water to make an easy to use cleaning solution that safely and effectively remove a wide range of membrane foulants from polyamide thin film (TF), cellulose acetate (CA) and ultrafiltration (UF) membrane elements.

AXEON C-Series Cleaners			
Product	For Removing	Membrane Types	Solution pH
C-10*	Calcium Carbonate Scale	TFC, CA and UF	2
SYMPTOMS OF CALCIUM CARBONATE SCALE INCLUDE: - Scale extruding out of the downstream end of the last membranes in the system. - All of the scale dissolves when introduced to a dilute hydrochloric acid solution. - Poor salt rejection, low flow, and or, high pressure differential on individual membrane test data. 8" x 40" Element weight exceeds 45 pounds. - Site reports interruption in the antiscalant or acid injection. - Site reports scale in the last vessel or piping of the concentrate stream.		TESTING FOR CALCIUM CARBONATE SCALE: Calcium carbonate scale is not always white. However, a quick test can be conducted to see if the foulant is comprised solely of calcium carbonate. In a glass beaker, make a 1:1 dilution of HCl and DI water. Drop a small sample of the foulant into the solution. If the foulant contains calcium carbonate, it will bubble. Continue adding acid until the bubbling stops or until the scale disappears. If the beaker contains residual material after the bubbling has stopped, then the foulant consists of more than just calcium carbonate.	
C-20*	Organics	TFC and UF	11
SYMPTOMS OF BIOLOGICAL FOULING INCLUDE: - Visible slime on the feed side of the membrane. - Site reports slime in the cartridge filter housing and piping. - Site reports high pressure differential in the first array. - Odor - Individual membrane test data reports high pressure differentials. - Membranes are telescoped.		STEPS TO PREVENT BIOLOGICAL FOULING INCLUDE: - Properly dose sodium bisulfite. - Clean and sanitize the pretreatment equipment and piping. - Consider an intermittent biocide treatment. - Evaluate the necessity of a continuous injection biocide.	

* MSDS available upon request.

Engineered Membrane Solutions

M-100 Membrane Preservative

AXEON M-100 Membrane Preservative safely prevents microbiological growth within membrane elements and in membrane systems during long and short-term storage.

AXEON M-100 Membrane Preservative			
For Removing	Membrane Type	Mixing Ratio	pH
Microbiological growth within membrane elements and systems during storage	Thin film composite, cellulose acetate, ultrafiltration	1 pound AXEON M-100 to 6 gallons water	Medium / Low

Product Benefits

AXEON M-100 safely and effectively prevents microbiological growth within membrane elements and systems during long- and short-term storage. It replaces the use of sodium metabisulphite and other chemicals that are typically used. While sodium bisulfite can be hazardous or unstable, **M-100** is effective long-term and does not create environmental or health risks. **AXEON M-100** is compatible with all membrane types and rinses easily from membranes. **AXEON M-100** is packaged as a dry, stable, nonreactive powder for ease of transportation and storage.

Procedures

In Storage

1. Clean the membranes with **AXEON C10** or **C20 Cleaners** prior to storage. Using good quality water (RO product water), mix at a ratio of one pound **M-100** to 6 gallons of water.
2. Recirculate storage solution at low pressure (less than 60 psig) through membranes for minimum of 15 minutes.
3. After re-circulation, shut system down making sure storage solution does not drain out of membranes.
4. After storage, rinse membranes with good quality water for 30 minutes before system start up.

Container Storage

1. Clean membranes with **AXEON C10** or **C20 Cleaners**.
2. Using good quality water (RO product water), mix a ratio of one pound **M-100** to 6 gallons of water. Place membranes in storage container containing **M-100** solution.
3. After storage, place membranes in system and rinse with good quality water for 30 minutes prior to system start-up.

Engineered Membrane Solutions

AXEON

Chemical Injection Systems

AXEON Chemical Injection Systems offer a wide range of capacities to meet various chemical treatment applications. Each system is composed of a chemical metering pump and polyethylene chemical tank, along with the necessary hoses and fittings for the pump.

AXEON Chemical Injection Systems have been designed to the highest industry standards and are available in capacities from 4 to 30 GPD. These systems feature quality components and a compact space saving design, which allows for easy maintenance and servicing.

AXEON Chemical Injection Systems feature Pulsafeeder Chem-Tech™ Series XP pumps with peristaltic technology that delivers worry-free dosing in a modern design. Each component of the Series XP is designed and manufactured for optimum reliability and durability for real performance.



Benefits

- Reliable metering performance
- Mixed fluid capable, inherently degassing
- Extended tube life
- Rugged, sealed gear train
- Easy tube change out
- Self priming
- Chemical resistant materials
- Simple installation
- Heavy duty tanks compatible with acids, caustics, and most water treatment chemicals

Features

- Electronic timer module provides a 201 turndown control for enhanced flexibility
- Standard neoprene tube – resulting in extended tube life
- Peristaltic technology offers optimum reliability
- Rugged gear train
- Output capacity from 4 to 30 GPD
- Removable tank cover with 22° surface for mixer and mounting surface for chemical metering pump
- Integral 2" and 1" female top connections and 5" inspection port
- 100 pound rating tank cover

Applications

- Water purification and pollution control
- Iron, hydrogen sulfide and manganese removal
- Scale prevention
- Acid water neutralization
- Coagulation and turbidity removal
- Waste water treatment
- Detergent and wetting agent metering

Engineered Water Treatment Solutions

AXEON Chemical Injection Systems

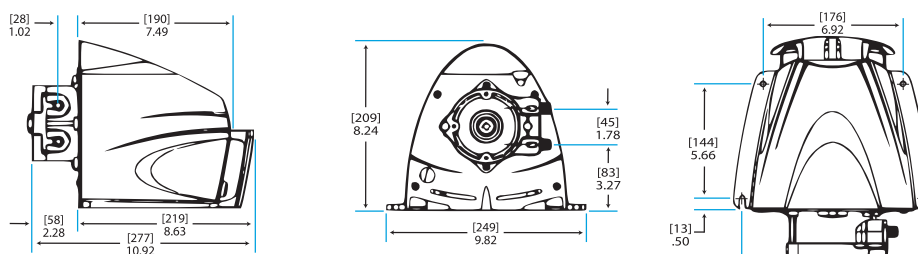
Product Specifications

Part Number	Model	Flow Rating	Tank Size	Pressure Rating – PSI (BAR)				Tube Size	Speed (RPM)	Voltage
				Single Head Options		Duplex				
				‘H’ Tube	‘L’ Tube	‘F’ Tube	‘L’ Tube			
205600	XP4-30	4 GPD (0.6 LPH)	30 Gal.	125 (8.6)	80 (5.5)	60 (4.1)	80 (5.5)	2	30	110V
205601	XP4-30	4 GPD (0.6 LPH)	30 Gal.	125 (8.6)	80 (5.5)	60 (4.1)	80 (5.5)	2	30	220V
205602	XP15-30	15 GPD (2.4 LPH)	30 Gal.	110 (7.6)	70 (4.8)	50 (3.4)	70 (4.8)	3	30	110V
205603	XP15-30	15 GPD (2.4 LPH)	30 Gal.	110 (7.6)	70 (4.8)	50 (3.4)	70 (4.8)	3	30	220V
205604	XP30-30	30 GPD (4.7 LPH)	30 Gal.	80 (5.5)	50 (3.4)	–	40 (2.8)	6	30	110V
205605	XP30-30	30 GPD (4.7 LPH)	30 Gal.	80 (5.5)	50 (3.4)	–	40 (2.8)	6	30	220V

Engineering Data

- 20:1 Turndown
- 1/4" or 3/8" Tube Fittings
- 110 VAC/60 HZ, 1/6 HP
- 220 VAC/50/60 HZ
- 104°F / 40°C max.
- 28 lbs. / 12.70 kg.

Dimensions all dimensions are expressed as inches [mm]



AXEON

Repressurization Skid

AXEON Repressurization Skids are engineered and manufactured to provide high performance water pressure boost with reduced maintenance and operating costs.

AXEON Repressurization Skids features a lightweight, innovative design which utilizes dual alternating pumps for easy maintenance and continuous operation. These units feature a white powder coated aluminum frame for ease of handling and corrosion resistance. The **Repressurization Skids** feature quality components including dual stainless steel booster pumps for exceptional performance.

Features

- White Powder Coated Aluminum Frame
- 316 Stainless Steel Pumps
- TEFC Motor with Thermal Motor Protection
- On and Off Controller
- PVC Piping
- 316 Stainless Steel 0-100 psi Outlet Pressure Gauge
- Factory Tested
- Made in the U.S.A.

Options and Upgrades

- PLC Controller with 4-20ma Remote Communications
- Ethernet Capable
- Touch Screen for Visual Display
- UltraViolet Loop System
- Flow Sensors for Output Flow
- Variable Frequency Drive
- Wood Crate

* Systems available in 220V 50HZ 3 Phase, 380V 50HZ 1 Phase, 220V 60HZ 3 Phase, 460V 60HZ 3Phase



Front

AXEON
Repressurization Skid



Back

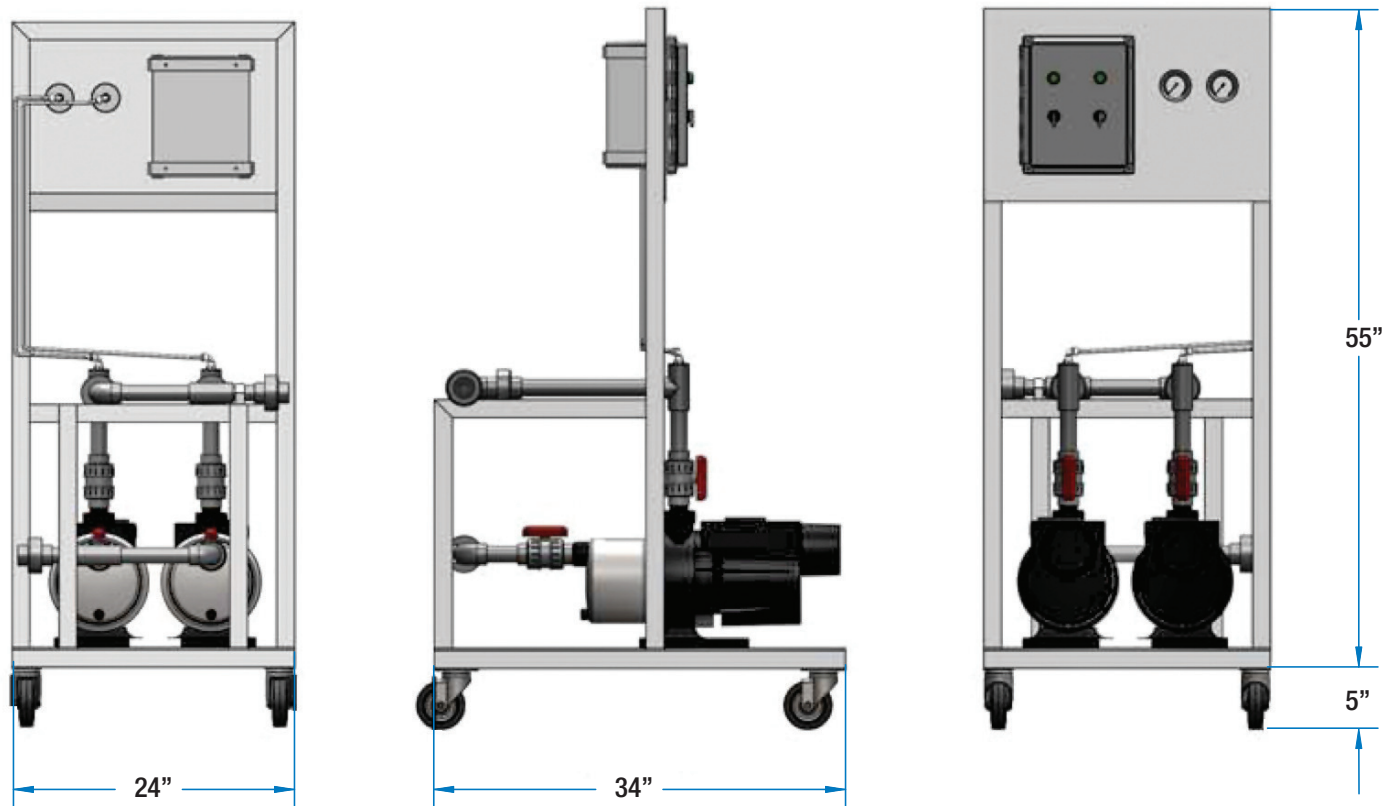
Engineered Membrane Solutions

AXEON
WATER TECHNOLOGIES

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AXEON Repressurization Skid



AXEON Repressurization Skids Specifications

Model	GPM	Voltage	Hz	Pump Type	Motor HP	Dimensions (inches) Length / Width / Height	Weight
RP-2-1050	10	220	60	Multi-Stage	1 x 2	34" x 59" x 24"	175 lbs.

Notes:

1. All dimensions and weights are approximate.
2. All systems come packaged in a cardboard box. Wooden crating is optional.
3. A water analysis is required for all system orders and the manufacturer may change the system configuration in order to better meet the applications requirements.
4. The proper pretreatment before the reverse osmosis system is required in order to obtain the maximum life from the membrane elements. That means that all Chlorine must be removed prior to the system if present in the feed water. Water should be treated with an Antiscalant to avoid scaling of the membranes.

AXEON

Timer Water Softener Systems

AXEON Timer Water Softeners use advanced ion exchange resin technology in order to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Timer Water Softeners offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Timer Water Softeners** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Timer Water Softeners are effective in reducing hardness, iron and regenerates on a fixed schedule. **AXEON Timer Water Softeners** require periodic backwashing to dispose of accumulated hardness ions. Backwashing allows for removal of built up hardness ions through regeneration with a salt or potassium solution.

Standard Features

- Fleck® Control Valve
 - ◆ Easy to Program SXT Electronics
 - ◆ Pre-Treat Lockout Contacts
 - ◆ 48 Hour Power Backup
 - ◆ Day-of-the-Week Controls
 - ◆ Regeneration Can Be Triggered Immediately
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe with Upper and Lower Screens
- 8% Cross-Link Ion Exchange Resin
- Brine Tank with Float Assembly and Salt Grid

Options and Upgrades

- Yokes and Bypass Valves
- Various Sizes and Types of Connectors
- Stainless Steel Jackets



Engineered Water Treatment Solutions

AXEON Timer Water Softener Systems

Product Specifications

Part Number	Valve	Voltage	DLFC	Connections	Resin	Approximate GPG Capacity	Tank Size	Cubic Feet	Tank Quantity	Brine Tank Size	Backwash Rate	Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
200190	5600SXT	110V	3	3/4" MNPT	8% Cross-Link Ion Exchange	30000	9 x 48	1	1	18 x 33	3.0 gpm	1.3–8.0 gpm	10.0 gpm	110 lbs.	Assembled
203217	5600SXT	220V	3	3/4" MNPT	8% Cross-Link Ion Exchange	30000	9 x 48	1	1	18 x 33	3.0 gpm	1.3–8.0 gpm	10.0 gpm	110 lbs.	Assembled
200191	5600SXT	110V	3	3/4" MNPT	8% Cross-Link Ion Exchange	45000	10 x 54	1.5	1	18 x 33	3.0 gpm	1.6–10.0 gpm	10.0 gpm	130 lbs.	Assembled
203218	5600SXT	220V	3	3/4" MNPT	8% Cross-Link Ion Exchange	45000	10 x 54	1.5	1	18 x 33	3.0 gpm	1.6–10.0 gpm	10.0 gpm	130 lbs.	Assembled
205526	7000SXT	110V	4	1" MNPT	8% Cross-Link Ion Exchange	60000	12 x 52	2	1	18 x 33	4.0 gpm	2.3–15.0 gpm	15.0 gpm	190 lbs.	Assembled
205530	7000SXT	220V	4	1" MNPT	8% Cross-Link Ion Exchange	60000	12 x 52	2	1	18 x 33	4.0 gpm	2.3–15.0 gpm	15.0 gpm	190 lbs.	Assembled
205527	7000SXT	110V	5	1" MNPT	8% Cross-Link Ion Exchange	75000	13 x 54	2.5	1	18 x 40	5.0 gpm	2.8–18.0 gpm	18.0 gpm	215 lbs.	Assembled
205531	7000SXT	220V	5	1" MNPT	8% Cross-Link Ion Exchange	75000	13 x 54	2.5	1	18 x 40	5.0 gpm	2.8–18.0 gpm	18.0 gpm	215 lbs.	Assembled
205528	7000SXT	110V	6	1" MNPT	8% Cross-Link Ion Exchange	90000	14 x 65	3	1	24 x 40	6.0 gpm	3.2–20.0 gpm	20.0 gpm	240 lbs.	Assembled
205532	7000SXT	220V	6	1" MNPT	8% Cross-Link Ion Exchange	90000	14 x 65	3	1	24 x 40	6.0 gpm	3.2–20.0 gpm	20.0 gpm	240 lbs.	Assembled
205529	7000SXT	110V	7	1" MNPT	8% Cross-Link Ion Exchange	120000	16 x 65	4	1	24 x 40	7.0 gpm	4.2–20.0 gpm	20.0 gpm	320 lbs.	Non-Assembled
205533	7000SXT	220V	7	1" MNPT	8% Cross-Link Ion Exchange	120000	16 x 65	4	1	24 x 40	7.0 gpm	4.2–20.0 gpm	20.0 gpm	320 lbs.	Non-Assembled
200203	2850s SXT	110V	12	1.5" FNPT	8% Cross-Link Ion Exchange	180000	21 x 62	6	1	24 x 54	12.0 gpm	13.0–45.0 gpm	45.0 gpm	550 lbs.	Non-Assembled
203173	2850s SXT	220V	12	1.5" FNPT	8% Cross-Link Ion Exchange	180000	21 x 62	6	1	24 x 54	12.0 gpm	13.0–45.0 gpm	45.0 gpm	550 lbs.	Non-Assembled
200204	2850s SXT	110V	15	1.5" FNPT	8% Cross-Link Ion Exchange	240000	24 x 60	8	1	24 x 54	12.0 gpm	13.0–50.0 gpm	50.0 gpm	765 lbs.	Non-Assembled
203174	2850s SXT	220V	15	1.5" FNPT	8% Cross-Link Ion Exchange	240000	24 x 60	8	1	24 x 54	12.0 gpm	13.0–50.0 gpm	50.0 gpm	765 lbs.	Non-Assembled
200205	2850s SXT	110V	15	1.5" FNPT	8% Cross-Link Ion Exchange	300000	24 x 72	10	1	24 x 54	15.0 gpm	15.0–52.0 gpm	52.0 gpm	925 lbs.	Non-Assembled
203175	2850s SXT	220V	15	1.5" FNPT	8% Cross-Link Ion Exchange	300000	24 x 72	10	1	24 x 54	15.0 gpm	15.0–52.0 gpm	52.0 gpm	925 lbs.	Non-Assembled

AXEON

Meter Water Softener Systems

AXEON Meter Water Softeners use advanced ion exchange resin technology in order to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Meter Water Softeners offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Meter Water Softeners** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Meter Water Softeners are effective in reducing hardness, iron, and regenerate based on measured gallon flow-through. **AXEON Meter Water Softeners** require periodic backwashing to dispose of accumulated hardness ions. Backwashing allows for removal of contaminants through regeneration with a salt or potassium solution.

Standard Features

- Fleck® Control Valve
 - ◆ Easy to Program SXT Electronics
 - ◆ Pre-Treat Lockout Contacts
 - ◆ 48 Hour Power Backup
 - ◆ Day-of-the-Week Controls
 - ◆ Regeneration Can Be Triggered Immediately
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe with Upper and Lower Screens
- 10% Cross-Link Ion Exchange Resin
- Brine Tank with Float Assembly and Salt Grid

Options and Upgrades

- Yokes and Bypass Valves
- Various Sizes and Types of Connectors
- Stainless Steel Jackets



Engineered Water Treatment Solutions

AXEON
WATER TECHNOLOGIES

LENNTECH

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AXEON Meter Water Softener Systems

Product Specifications

Part Number	Valve	Voltage	DLFC	Connections	Resin	Approximate GPG Capacity	Tank Size	Cubic Feet	Tank Quantity	Brine Tank Size	Backwash Rate	Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
200193	5600SXT	110V	3	¾" MNPT	10% Cross-Link Ion Exchange	30000	9 x 48	1	1	18 x 33	3.0 gpm	1.3–8.0 gpm	10.0 gpm	110 lbs.	Assembled
203220	5600SXT	220V	3	¾" MNPT	10% Cross-Link Ion Exchange	30000	9 x 48	1	1	18 x 33	3.0 gpm	1.3–8.0 gpm	10.0 gpm	110 lbs.	Assembled
200194	5600SXT	110V	3	¾" MNPT	10% Cross-Link Ion Exchange	45000	10 x 54	1.5	1	18 x 33	3.0 gpm	1.6–10.0 gpm	10.0 gpm	130 lbs.	Assembled
203221	5600SXT	220V	3	¾" MNPT	10% Cross-Link Ion Exchange	45000	10 x 54	1.5	1	18 x 33	3.0 gpm	1.6–10.0 gpm	10.0 gpm	130 lbs.	Assembled
200198	7000SXT	110V	4	1" MNPT	10% Cross-Link Ion Exchange	60000	12 x 52	2	1	18 x 33	4.0 gpm	2.3–15.0 gpm	15.0 gpm	190 lbs.	Assembled
203225	7000SXT	220V	4	1" MNPT	10% Cross-Link Ion Exchange	60000	12 x 52	2	1	18 x 33	4.0 gpm	2.3–15.0 gpm	15.0 gpm	190 lbs.	Assembled
205534	7000SXT	110V	5	1" MNPT	10% Cross-Link Ion Exchange	75000	13 x 54	2.5	1	18 x 40	5.0 gpm	2.8–18.0 gpm	18.0 gpm	215 lbs.	Assembled
205536	7000SXT	220V	5	1" MNPT	10% Cross-Link Ion Exchange	75000	13 x 54	2.5	1	18 x 40	5.0 gpm	2.8–18.0 gpm	18.0 gpm	215 lbs.	Assembled
205535	7000SXT	110V	6	1" MNPT	10% Cross-Link Ion Exchange	90000	14 x 65	3	1	24 x 40	6.0 gpm	3.2–20.0 gpm	20.0 gpm	240 lbs.	Assembled
205537	7000SXT	220V	6	1" MNPT	10% Cross-Link Ion Exchange	90000	14 x 65	3	1	24 x 40	6.0 gpm	3.2–20.0 gpm	20.0 gpm	240 lbs.	Assembled
200199	7000SXT	110V	7	1" MNPT	10% Cross-Link Ion Exchange	120000	16 x 65	4	1	24 x 40	7.0 gpm	4.2–20.0 gpm	20.0 gpm	320 lbs.	Non-Assembled
203623	7000SXT	220V	7	1" MNPT	10% Cross-Link Ion Exchange	120000	16 x 65	4	1	24 x 40	7.0 gpm	4.2–20.0 gpm	20.0 gpm	320 lbs.	Non-Assembled
200208	2850s SXT	110V	12	1.5" FNPT	10% Cross-Link Ion Exchange	180000	21 x 62	6	1	24 x 54	12.0 gpm	13.0–45.0 gpm	45.0 gpm	550 lbs.	Non-Assembled
203176	2850s SXT	220V	12	1.5" FNPT	10% Cross-Link Ion Exchange	180000	21 x 62	6	1	24 x 54	12.0 gpm	13.0–45.0 gpm	45.0 gpm	550 lbs.	Non-Assembled
200209	2850s SXT	110V	15	1.5" FNPT	10% Cross-Link Ion Exchange	240000	24 x 60	8	1	24 x 54	12.0 gpm	13.0–50.0 gpm	50.0 gpm	765 lbs.	Non-Assembled
203177	2850s SXT	220V	15	1.5" FNPT	10% Cross-Link Ion Exchange	240000	24 x 60	8	1	24 x 54	12.0 gpm	13.0–50.0 gpm	50.0 gpm	765 lbs.	Non-Assembled
200210	2850s SXT	110V	15	1.5" FNPT	10% Cross-Link Ion Exchange	300000	24 x 72	10	1	24 x 54	15.0 gpm	15.0–52.0 gpm	52.0 gpm	925 lbs.	Non-Assembled
203178	2850s SXT	220V	15	1.5" FNPT	10% Cross-Link Ion Exchange	300000	24 x 72	10	1	24 x 54	15.0 gpm	15.0–52.0 gpm	52.0 gpm	925 lbs.	Non-Assembled

Meter Twin Water Softener Systems

AXEON Meter Twin Water Softeners use advanced ion exchange resin technology in order to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Meter Twin Water Softeners offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Meter Twin Water Softeners** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Meter Twin Water Softeners are effective in reducing hardness and iron, while offering a continuous uninterrupted supply of softened water. All **AXEON Meter Twin Water Softeners** require periodic backwashing to dispose of accumulated hardness ions. Backwashing allows for removal of contaminants through regeneration with a salt or potassium solution.



Standard Features

- Fleck® 9100SXT Control Valve
 - ◆ Easy to Program SXT Electronics
 - ◆ Pre-Treat Lockout Contacts
 - ◆ 48 Hour Power Backup
 - ◆ Day-of-the-Week Controls
 - ◆ Regeneration Can Be Triggered Immediately
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe with Upper and Lower Screens
- 8% Cross-Link Ion Exchange Resin
- Brine Tank with Float Assembly and Salt Grid

Options and Upgrades

- Yokes and Bypass Valves
- Various Sizes and Types of Connectors
- Stainless Steel Jackets

Engineered Water Treatment Solutions

AXEON Meter Twin Water Softener Systems

Product Specifications															
Part Number	Valve	Voltage	DLFC	Connections	Resin	Approximate GPG Capacity	Tank Size	Cubic Feet	Tank Quantity	Brine Tank Size	Backwash Rate	Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
200226	9100SXT	110V	3	3/4" MNPT	8% Cross-Link Ion Exchange	60000	9 x 48	2	2	18 x 40	3.0 gpm	1.3–8.0 gpm	13.0 gpm	220 lbs.	Assembled
203233	9100SXT	220V	3	3/4" MNPT	8% Cross-Link Ion Exchange	60000	9 x 48	2	2	18 x 40	3.0 gpm	1.3–8.0 gpm	13.0 gpm	220 lbs.	Assembled
200227	9100SXT	110V	3	3/4" MNPT	8% Cross-Link Ion Exchange	90000	10 x 54	3	2	18 x 40	3.0 gpm	1.6–10.0 gpm	14.0 gpm	260 lbs.	Assembled
203234	9100SXT	220V	3	3/4" MNPT	8% Cross-Link Ion Exchange	90000	10 x 54	3	2	18 x 40	3.0 gpm	1.6–10.0 gpm	14.0 gpm	260 lbs.	Assembled
200228	9100SXT	110V	4	1" MNPT	8% Cross-Link Ion Exchange	120000	12 x 52	4	2	18 x 40	4.0 gpm	2.3–15.0 gpm	15.0 gpm	380 lbs.	Assembled
203235	9100SXT	220V	4	1" MNPT	8% Cross-Link Ion Exchange	120000	12 x 52	4	2	18 x 40	4.0 gpm	2.3–15.0 gpm	15.0 gpm	380 lbs.	Assembled
205538	9100SXT	110V	5	1" MNPT	8% Cross-Link Ion Exchange	150000	13 x 54	5	2	18 x 40	5.0 gpm	2.8–18.0 gpm	15.0 gpm	430 lbs.	Assembled
205539	9100SXT	220V	5	1" MNPT	8% Cross-Link Ion Exchange	150000	13 x 54	5	2	18 x 40	5.0 gpm	2.8–18.0 gpm	15.0 gpm	430 lbs.	Assembled
200229	9100SXT	110V	7	1" MNPT	8% Cross-Link Ion Exchange	180000	14 x 65	6	2	18 x 40	6.0 gpm	3.2–18.0 gpm	15.0 gpm	480 lbs.	Assembled
203187	9100SXT	220V	7	1" MNPT	8% Cross-Link Ion Exchange	180000	14 x 65	6	2	18 x 40	6.0 gpm	3.2–18.0 gpm	15.0 gpm	480 lbs.	Assembled
200230	9100SXT	110V	7	1" MNPT	8% Cross-Link Ion Exchange	240000	16 x 65	8	2	24 x 40	7.0 gpm	4.2–18.0 gpm	15.0 gpm	640 lbs.	Non-Assembled
203188	9100SXT	220V	7	1" MNPT	8% Cross-Link Ion Exchange	240000	16 x 65	8	2	24 x 40	7.0 gpm	4.2–18.0 gpm	15.0 gpm	640 lbs.	Non-Assembled

AXEON

FSD Filtration Systems

AXEON FSD Filtration Systems feature a compact single, double or triple stage design and are available with 3/4" or 1" ports. These systems are ideal for water treatment applications that require additional pre or post treatment.

FSD-100 Models Feature

- Two AXEON 0 – 100 Pressure Gauges
- One 4.5" Diameter Black and Blue Pentek® Filter Housing in 10" or 20" Lengths
- One White Powder Coated Bracket
- One Filter Housing Wrench

FSD-120 SERIES



FSD-200 Models Feature

- Two AXEON 0 – 100 Pressure Gauges
- Two 4.5" Diameter Black and Blue Pentek® Housings in 10" or 20" Lengths
- One White Powder Coated Bracket
- One Filter Housing Wrench

FSD-220 SERIES



FSD-300 Models Feature

- Two AXEON 0 – 100 Pressure Gauges
- Three 4.5" Diameter Black and Blue Filter Housings in 10" or 20" Lengths
- One White Powder Coated Bracket
- One Filter Housing Wrench

FSD-320 SERIES



Benefits

- High Quality Components
- Accommodate Standard 4.5" Diameter Cartridges
- 1-Year Limited Warranty
- Customizable with Any Cartridge
- Pre-Assembled and Easy to Install
- Made in the U.S.A.

Engineered Water Treatment Solutions

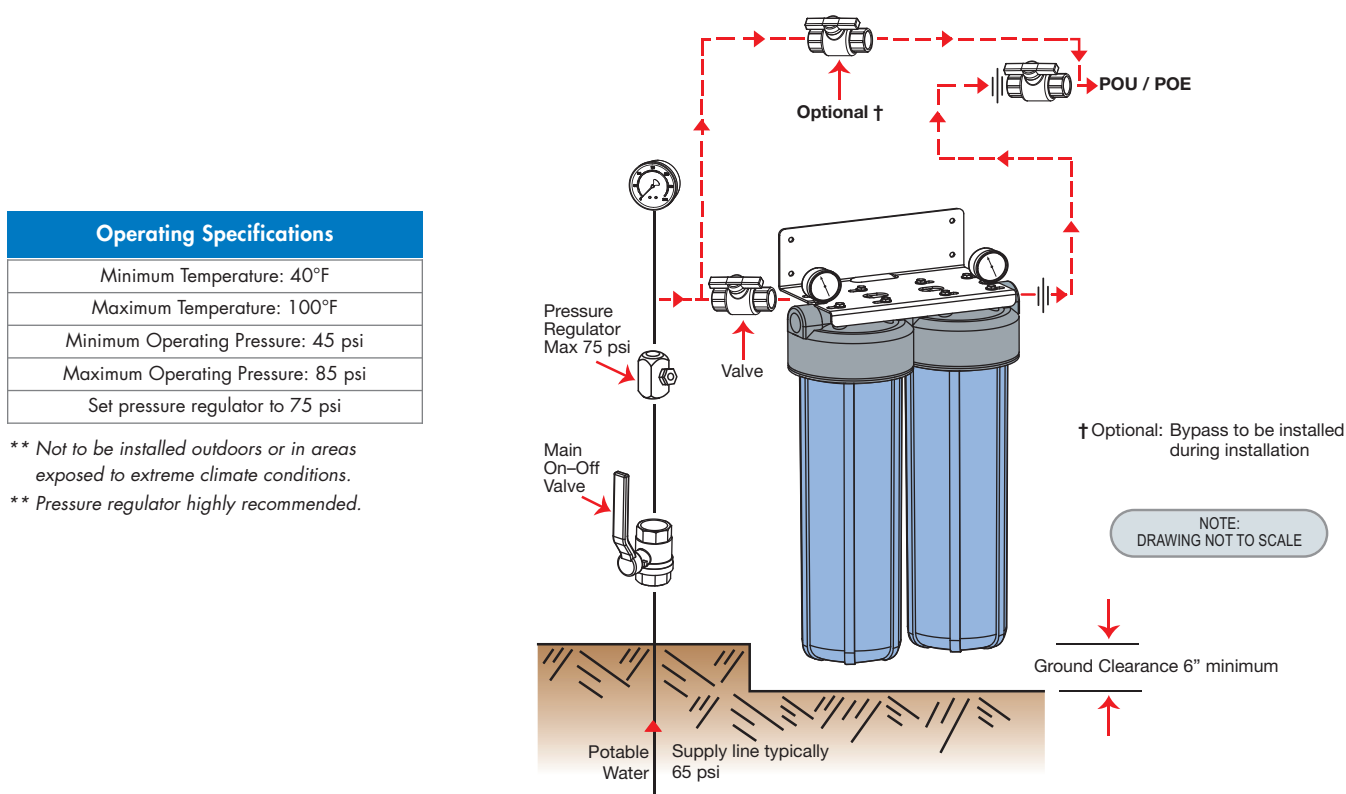
AXEON FSD Filtration Systems

Product Specifications

Part Number	Description	Port Size	System Size
FSD-100 SERIES			
200086	FSD-110 Filtration System*	3/4" FNPT	8" x 7.5" x 17.5"
200087	FSD-110 Filtration System*	1" FNPT	8" x 7.5" x 17.5"
200088	FSD-120 Filtration System*	3/4" FNPT	8" x 7.5" x 27.5"
200089	FSD-120 Filtration System*	1" FNPT	8" x 7.5" x 27.5"
FSD-200 SERIES			
200090	FSD-210 Filtration System*	3/4" FNPT	8" x 15" x 17.5"
200091	FSD-210 Filtration System*	1" FNPT	8" x 15" x 17.5"
200092	FSD-220 Filtration System*	3/4" FNPT	8" x 15" x 27.5"
200093	FSD-220 Filtration System*	1" FNPT	8" x 15" x 27.5"
FSD-300 SERIES			
200094	FSD-310 Filtration System*	3/4" FNPT	8" x 22.5" x 17.5"
200095	FSD-310 Filtration System*	1" FNPT	8" x 22.5" x 17.5"
200096	FSD-320 Filtration System*	3/4" FNPT	8" x 22.5" x 27.5"
200097	FSD-320 Filtration System*	1" FNPT	8" x 22.5" x 27.5"

* Cartridges Sold Separately

Typical Installation Diagram for Water Filtration System



AXEON

Carbon Systems

AXEON Carbon Systems use advanced activated carbon filtration technology in order to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Carbon Systems offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Carbon Systems** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Carbon Systems are effective in reducing chlorine, unpleasant tastes and odors, suspended particles and volatile organic compounds. **AXEON Carbon Systems** require periodic backwashing to dispose of accumulated contaminants.

Standard Features

- Fleck® Control Valve
 - ◆ Easy to Program SXT Electronics
 - ◆ Pre-Treat Lockout Contacts
 - ◆ 48 Hour Power Backup
 - ◆ Day-of-the-Week Controls
 - ◆ Regeneration Can Be Triggered Immediately
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe with Upper and Lower Screens
- Granulated Activated Coconut Carbon (Carbon) Acid Washed NSF 61 Certified

Options and Upgrades

- Yokes and Bypass Valves
- Various Sizes and Types of Connectors
- Stainless Steel Jackets



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AXEON Carbon Systems

Product Specifications

Part Number	Valve	Voltage	DLFC	Connections	Media	Tank Size	Cubic Feet	Tank Quantity	Backwash Rate	Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
200117	5600SXT	110V	4	3/4" MNPT	GACC Acid Washed	9 x 48	1	1	3.5 gpm	1.3–3.0 gpm	10.0 gpm	90 lbs.	Assembled
203194	5600SXT	220V	4	3/4" MNPT	GACC Acid Washed	9 x 48	1	1	3.5 gpm	1.3–3.0 gpm	10.0 gpm	90 lbs.	Assembled
200118	5600SXT	110V	6	3/4" MNPT	GACC Acid Washed	10 x 54	1.5	1	4.0 gpm	1.6–4.5 gpm	10.0 gpm	105 lbs.	Assembled
203195	5600SXT	220V	6	3/4" MNPT	GACC Acid Washed	10 x 54	1.5	1	4.0 gpm	1.6–4.5 gpm	10.0 gpm	105 lbs.	Assembled
200122	7000SXT	110V	8	1" MNPT	GACC Acid Washed	12 x 52	2	1	6.0 gpm	2.3–6.0 gpm	18.0 gpm	145 lbs.	Assembled
203198	7000SXT	220V	8	1" MNPT	GACC Acid Washed	12 x 52	2	1	6.0 gpm	2.3–6.0 gpm	18.0 gpm	145 lbs.	Assembled
205505	7000SXT	110V	9	1" MNPT	GACC Acid Washed	13 x 54	2.5	1	7.0 gpm	2.8–7.5 gpm	18.0 gpm	160 lbs.	Assembled
205507	7000SXT	220V	9	1" MNPT	GACC Acid Washed	13 x 54	2.5	1	7.0 gpm	2.8–7.5 gpm	18.0 gpm	160 lbs.	Assembled
200123	7000SXT	110V	12	1" MNPT	GACC Acid Washed	14 x 65	3	1	7.0 gpm	3.2–9.0 gpm	20.0 gpm	200 lbs.	Assembled
205508	7000SXT	220V	12	1" MNPT	GACC Acid Washed	14 x 65	3	1	7.0 gpm	3.2–9.0 gpm	20.0 gpm	200 lbs.	Assembled
205506	7000SXT	110V	15	1" MNPT	GACC Acid Washed	16 x 65	4	1	15.0 gpm	4.2–12.0 gpm	20.0 gpm	265 lbs.	Non-Assembled
205509	7000SXT	220V	15	1" MNPT	GACC Acid Washed	16 x 65	4	1	15.0 gpm	4.2–12.0 gpm	20.0 gpm	265 lbs.	Non-Assembled
200129	2850s SXT	110V	25	1.5" FNPT	GACC Acid Washed	21 x 62	6	1	20.0 gpm	7.0–18.0 gpm	45.0 gpm	375 lbs.	Non-Assembled
203167	2850s SXT	220V	25	1.5" FNPT	GACC Acid Washed	21 x 62	6	1	20.0 gpm	7.0–18.0 gpm	45.0 gpm	375 lbs.	Non-Assembled
200130	2850s SXT	110V	30	1.5" FNPT	GACC Acid Washed	24 x 60	8	1	25.0 gpm	10.0–24.0 gpm	50.0 gpm	550 lbs.	Non-Assembled
203168	2850s SXT	220V	30	1.5" FNPT	GACC Acid Washed	24 x 60	8	1	25.0 gpm	10.0–24.0 gpm	50.0 gpm	550 lbs.	Non-Assembled
200131	2850s SXT	110V	35	1.5" FNPT	GACC Acid Washed	24 x 72	10	1	35.0 gpm	10.0–30.0 gpm	52.0 gpm	635 lbs.	Non-Assembled
203169	2850s SXT	220V	35	1.5" FNPT	GACC Acid Washed	24 x 72	10	1	35.0 gpm	10.0–30.0 gpm	52.0 gpm	635 lbs.	Non-Assembled

AXEON

Zeolite Systems

AXEON Zeolite Systems use advanced media filtration technology in order to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Zeolite Systems offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Zeolite Systems** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Zeolite Systems are effective in reducing sediments and providing higher service flow rates and longer filter runs than equivalent media filters. **AXEON Zeolite Systems** require periodic backwashing to dispose of accumulating sediments. This is accomplished by backwashing with clean water and then disposing the effluent. During this process, the different sizes of media contained within the system separate into layers, once again preparing the filtration bed for service.

Standard Features

- Fleck® Control Valve
 - ◆ Easy to Program SXT Electronics
 - ◆ Pre-Treat Lockout Contacts
 - ◆ 48 Hour Power Backup
 - ◆ Day-of-the-Week Controls
 - ◆ Regeneration Can Be Triggered Immediately
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe with Upper and Lower Screens
- Zeolite Media NSF 61 Certified

Options and Upgrades

- Yokes and Bypass Valves
- Various Sizes and Types of Connectors
- Stainless Steel Jackets



5600SXT



7000SXT



2850s SXT

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AXEON Zeolite Systems

Product Specifications

Part Number	Valve	Voltage	DLFC	Connections	Media	Tank Size	Cubic Feet	Tank Quantity	Backwash Rate	Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
200159	5600SXT	110V	7	3/4" MNPT	Zeolite	9 x 48	1	1	7.0 gpm	1.3–3.0 gpm	10.0 gpm	90 lbs.	Assembled
203205	5600SXT	220V	7	3/4" MNPT	Zeolite	9 x 48	1	1	7.0 gpm	1.3–3.0 gpm	10.0 gpm	90 lbs.	Assembled
200160	5600SXT	110V	7	3/4" MNPT	Zeolite	10 x 54	1.5	1	7.0 gpm	1.6–4.5 gpm	10.0 gpm	105 lbs.	Assembled
203206	5600SXT	220V	7	3/4" MNPT	Zeolite	10 x 54	1.5	1	7.0 gpm	1.6–4.5 gpm	10.0 gpm	105 lbs.	Assembled
200164	7000SXT	110V	15	1" MNPT	Zeolite	12 x 52	2	1	12.0 gpm	2.3–6.0 gpm	18.0 gpm	145 lbs.	Assembled
203209	7000SXT	220V	15	1" MNPT	Zeolite	12 x 52	2	1	12.0 gpm	2.3–6.0 gpm	18.0 gpm	145 lbs.	Assembled
205510	7000SXT	110V	20	1" MNPT	Zeolite	13 x 54	2.5	1	15.0 gpm	2.8–7.5 gpm	18.0 gpm	160 lbs.	Assembled
205512	7000SXT	220V	20	1" MNPT	Zeolite	13 x 54	2.5	1	15.0 gpm	2.8–7.5 gpm	18.0 gpm	160 lbs.	Assembled
205511	7000SXT	110V	20	1" MNPT	Zeolite	14 x 65	3	1	15.0 gpm	3.2–9.0 gpm	20.0 gpm	200 lbs.	Assembled
205513	7000SXT	220V	20	1" MNPT	Zeolite	14 x 65	3	1	15.0 gpm	3.2–9.0 gpm	20.0 gpm	200 lbs.	Assembled
200165	7000SXT	110V	20	1" MNPT	Zeolite	16 x 65	4	1	15.0 gpm	4.2–12.0 gpm	20.0 gpm	265 lbs.	Non-Assembled
203210	7000SXT	220V	20	1" MNPT	Zeolite	16 x 65	4	1	15.0 gpm	4.2–12.0 gpm	20.0 gpm	265 lbs.	Non-Assembled
203348	2850s SXT	110V	25	1.5" FNPT	Zeolite	21 x 62	6	1	35.0 gpm	7.0–40.0 gpm	40.0 gpm	375 lbs.	Non-Assembled
203352	2850s SXT	220V	25	1.5" FNPT	Zeolite	21 x 62	6	1	35.0 gpm	7.0–40.0 gpm	40.0 gpm	375 lbs.	Non-Assembled
203349	2850s SXT	110V	40	1.5" FNPT	Zeolite	24 x 60	8	1	40.0 gpm	10.0–45.0 gpm	45.0 gpm	550 lbs.	Non-Assembled
203353	2850s SXT	220V	40	1.5" FNPT	Zeolite	24 x 60	8	1	40.0 gpm	10.0–45.0 gpm	45.0 gpm	550 lbs.	Non-Assembled
203350	2850s SXT	110V	45	1.5" FNPT	Zeolite	24 x 72	10	1	45.0 gpm	10.0–47.0 gpm	47.0 gpm	635 lbs.	Non-Assembled
203354	2850s SXT	220V	45	1.5" FNPT	Zeolite	24 x 72	10	1	45.0 gpm	10.0–47.0 gpm	47.0 gpm	635 lbs.	Non-Assembled

AXEON

Filox Systems

AXEON Filox Systems use advanced iron and hydrogen sulfide removal technology in order to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Filox Systems offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Filox Systems** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Filox Systems are effective in reducing iron and hydrogen sulfide. **AXEON Filox Systems** require periodic backwashing to dispose of accumulated contaminants.



7000SXT
Front Side

Standard Features

- Fleck® 7000SXT Control Valve
 - ◆ Easy to Program SXT Electronics
 - ◆ Pre-Treat Lockout Contacts
 - ◆ 48 Hour Power Backup
 - ◆ Day-of-the-Week Controls
 - ◆ Regeneration Can Be Triggered Immediately
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe with Upper and Lower Screens
- Filox Media NSF 61 Certified

Options and Upgrades

- Yokes and Bypass Valves
- Various Sizes and Types of Connectors
- Stainless Steel Jackets



7000SXT
Back Side

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AXEON Filox Systems

Product Specifications

Part Number	Valve	Voltage	DLFC	Connections	Media	Tank Size	Cubic. Feet	Tank Quantity	Backwash Rate	Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
205514	7000SXT	110V	12	3/4" MNPT	Filox	9 x 48	1	1	10.0 gpm	6.0 gpm	14.0 gpm	142 lbs.	Assembled
205520	7000SXT	220V	12	3/4" MNPT	Filox	9 x 48	1	1	10.0 gpm	6.0 gpm	14.0 gpm	142 lbs.	Assembled
205515	7000SXT	110V	15	3/4" MNPT	Filox	10 x 54	1.5	1	15.0 gpm	9.0 gpm	16.0 gpm	213 lbs.	Assembled
205521	7000SXT	220V	15	3/4" MNPT	Filox	10 x 54	1.5	1	15.0 gpm	9.0 gpm	16.0 gpm	213 lbs.	Assembled
205516	7000SXT	110V	20	1" MNPT	Filox	12 x 52	2	1	20.0 gpm	12.0 gpm	18.0 gpm	284 lbs.	Assembled
205522	7000SXT	220V	20	1" MNPT	Filox	12 x 52	2	1	20.0 gpm	12.0 gpm	18.0 gpm	284 lbs.	Assembled
205517	7000SXT	110V	25	1" MNPT	Filox	13 x 54	2.5	1	25.0 gpm	15.0 gpm	18.0 gpm	355 lbs.	Assembled
205523	7000SXT	220V	25	1" MNPT	Filox	13 x 54	2.5	1	25.0 gpm	15.0 gpm	18.0 gpm	355 lbs.	Assembled
205518	7000SXT	110V	25	1" MNPT	Filox	14 x 65	3	1	25.0 gpm	18.0 gpm	20.0 gpm	425 lbs.	Assembled
205524	7000SXT	220V	25	1" MNPT	Filox	14 x 65	3	1	25.0 gpm	18.0 gpm	20.0 gpm	425 lbs.	Assembled

AXEON

Activated Carbon Systems

AXEON Activated Carbon Systems use advanced activated coconut carbon filtration technology in order to meet the most demanding water conditions. The GACC media is acid washed to reduce carbon fines, and is NSF/ANSI Certified to ensure quality. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Activated Carbon Systems offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Activated Carbon Systems** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Activated Carbon Systems are effective in reducing chlorine, unpleasant tastes, and odors.

Standard Features

- Clack 1191 In and Out Valve
- Non-Corrosive UV-Resistant Valve Body
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe and Lower Screen
- Granulated Activated Coconut Carbon (GACC) Acid Washed NSF 61 Certified

Options and Upgrades

- 90° Extensions and Bypass Valve
- Various Connection Sizes Available
- Stainless Steel Jacket



Clack
1191
Front



Clack
1191
Back

*With optional
bypass valve and connectors.*

Engineered Water Treatment Solutions

AXEON Activated Carbon Systems

Product Specifications

Part Number	Valve	Connections	Media	Tank Size	Cubic Feet	Tank Quantity	Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
200109	1191	1" MNPT	GACC Acid Washed	9 x 48	1	1	4.0 gpm	12.0 gpm	90 lbs.	Assembled
200111	1191	1" MNPT	GACC Acid Washed	10 x 54	1.5	1	6.0 gpm	14.0 gpm	105 lbs.	Assembled
200113	1191	1" MNPT	GACC Acid Washed	12 x 52	2	1	8.0 gpm	16.0 gpm	145 lbs.	Assembled
205543	1191	1" MNPT	GACC Acid Washed	13 x 54	2.5	1	9.0 gpm	17.0 gpm	160 lbs.	Assembled
205544	1191	1" MNPT	GACC Acid Washed	14 x 65	3	1	11.0 gpm	18.0 gpm	200 lbs.	Assembled
205545	1191	1" MNPT	GACC Acid Washed	16 x 65	4	1	14.0 gpm	20.0 gpm	265 lbs.	Non-Assembled

AXEON

Calcite Systems

AXEON Calcite Systems use an advanced calcite pH adjusting media in order to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Calcite Systems offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Calcite Systems** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Calcite Systems are effective in correcting pH to reach a non-corrosive equilibrium. All **AXEON Calcite Systems** beds will periodically have to be replenished as the media is depleted. Replenishing is made easy with the quick disconnects built into the In and Out valve.



**Clack
1191**
Front

*With optional
bypass valve and connectors.*

Standard Features

- Clack 1191 In and Out Valve
- Non-Corrosive UV-Resistant Valve Body
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe and Lower Screen

Options and Upgrades

- 90° Extensions and Bypass Valve
- Various Connection Sizes Available
- Stainless Steel Jacket



**Clack
1191**
Back

Engineered Water Treatment Solutions

AXEON Calcite Systems

Product Specifications

Part Number	Valve	Connections	Media	Tank Size	Cubic Feet	Tank Quantity	Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
205552	1191	1" MNPT	Calcite	9 x 48	1	1	1.3–2.6 gpm	12.0 gpm	95 lbs.	Assembled
205553	1191	1" MNPT	Calcite	10 x 54	1.5	1	1.6–3.2 gpm	14.0 gpm	110 lbs.	Assembled
205554	1191	1" MNPT	Calcite	12 x 52	2	1	2.4–4.8 gpm	16.0 gpm	150 lbs.	Assembled
205555	1191	1" MNPT	Calcite	13 x 54	2.5	1	2.8–5.6 gpm	17.0 gpm	165 lbs.	Assembled
205556	1191	1" MNPT	Calcite	14 x 65	3	1	3.2–6.4 gpm	18.0 gpm	205 lbs.	Assembled
205557	1191	1" MNPT	Calcite	16 x 65	4	1	4.2–8.4 gpm	20.0 gpm	270 lbs.	Non-Assembled

AXEON

Deionization Systems

AXEON Deionization Systems contain a high quality resin mixture of Gel Poly Styrene crosslinked with DVB to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

AXEON Deionization Systems offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. **AXEON Deionization Systems** can be used in a variety of applications including residential, commercial, industrial and specialty.

AXEON Deionization Systems are able to remove mineral ions such as cations from sodium, calcium, iron, copper and anions such as chloride and bromide. The fiberglass tanks are ANSI/NSF STD 44 compliant and come in a variety of standard sizes. Easy installation and maintenance with the Clack 1191 valve makes tank replacements faster and convenient for residential and commercial exchange services.

Standard Features

- Clack 1191 In and Out Valve
- Non-Corrosive UV-Resistant Valve Body
- Structural® Heavy Duty Fiberglass Tank
- Heavy Duty Riser Pipe and Lower Screen
- Gel Poly Styrene Crosslinked with DVB

Options and Upgrades

- 90° Extensions and Bypass Valve
- Various Connection Sizes Available
- Stainless Steel Jacket



**Clack
1191**
Front

*With optional
bypass valve and connectors.*



**Clack
1191**
Back

Engineered Water Treatment Solutions

AXEON Deionization Systems

Product Specifications

Part Number	Valve	Connections	Media	Tank Size	Cubic Feet	Tank Quantity	Maximum Recommended Service Flow	Estimated Peak Flow	Shipping Weight	System Assembled
205621	1191	1"MNPT	60% Gel Poly Styrene crosslinked with 40% DVB	9 x 48	1	1	4.0 gpm	12.0 gpm	110 lbs.	Assembled
205622	1191	1"MNPT	60% Gel Poly Styrene crosslinked with 40% DVB	10 x 54	1.5	1	6.0 gpm	14.0 gpm	130 lbs.	Assembled
205623	1191	1"MNPT	60% Gel Poly Styrene crosslinked with 40% DVB	12 x 52	2	1	8.0 gpm	16.0 gpm	190 lbs.	Assembled
205624	1191	1"MNPT	60% Gel Poly Styrene crosslinked with 40% DVB	13 x 54	2.5	1	9.0 gpm	17.0 gpm	215 lbs.	Assembled
205625	1191	1"MNPT	60% Gel Poly Styrene crosslinked with 40% DVB	14 x 65	3	1	11.0 gpm	18.0 gpm	240 lbs.	Assembled
205626	1191	1"MNPT	60% Gel Poly Styrene crosslinked with 40% DVB	16 x 65	4	1	14.0 gpm	20.0 gpm	320 lbs.	Assembled

AXEON

Mixed Bed DI Cartridges

AXEON Mixed Bed DI Cartridges utilize our unique 2.5" and 4.0" configurations that fit most standard size reverse osmosis membrane housings.

AXEON Mixed Bed DI Cartridges feature a standard cross-linked styrene anion and cation mixed resin in bead form. DI resin used in these cartridges has been specifically developed to reduce TDS, calcium and magnesium carbonate.

AXEON Mixed Bed DI Cartridges provide solutions for a variety of applications that need the removal of ionic contaminants. These cartridges act as excellent post-treatment for reverse osmosis as well as being effective for applications in the pharmaceutical, semiconductor, medical and industrial fields.



Engineered Water Treatment Solutions

AXEON Mixed Bed DI Cartridges

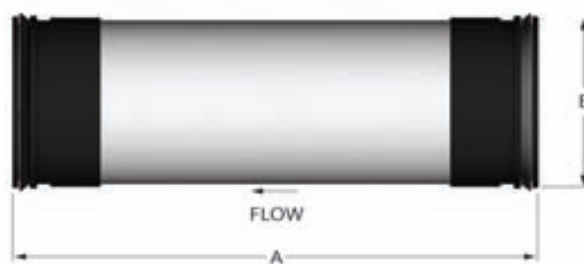
Product Specifications						
Part Number	Description	Size	Flow Rate (gpm)		Media	Total Capacity (Grains as CaCO ₃)
			Operating	Maximum		
200696	Mixed Bed DI	2.5" x 21"	0.2	0.6	Anion and Cation Resin	2000
200697	Mixed Bed DI	2.5" x 40"	0.2	1.2	Anion and Cation Resin	3800
200698	Mixed Bed DI	4.0" x 21"	0.5	1.5	Anion and Cation Resin	5200
200699	Mixed Bed DI	4.0" x 40"	0.5	3.0	Anion and Cation Resin	10200

Features and Benefits

- High Capacity
- Premium Resins
- Optimized for Post-RO
- For Ultra-High Purity Water
- Superior Quality and Cost Savings
- Fits standard 2.5" and 4.0" RO Membrane Housings
- Body Materials FDA Approved
- Made in the U.S.A.



Technical Data			
Dimensions inch (mm)			
Cartridge Size	A	B	Volume (cubic feet)
2.5" x 21"	21 (533.4)	2.40 (60.96)	0.036
2.5" x 40"	40 (1016.0)	2.40 (60.96)	0.098
4.0" x 21"	21 (533.4)	3.95 (100.3)	0.131
4.0" x 40"	40 (1016.0)	3.95 (100.3)	0.266

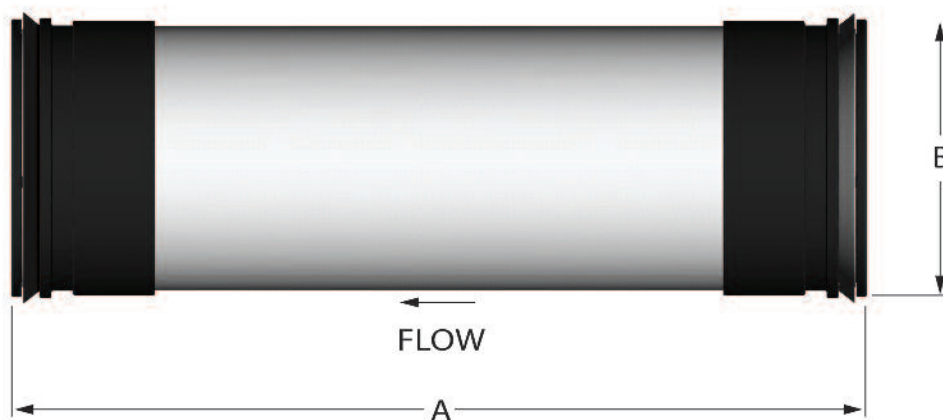


AXEON

Filter Cartridge Shells

AXEON Filter Cartridge Shells utilize our unique 2.5" and 4.0" configurations that fit in most standard size reverse osmosis pressure vessels. These shells can be filled by the customer with any filtration media of choice for suitability in a wide range of water treatment applications.

AXEON Filter Cartridge Shells can be used both before and after the RO membrane elements to meet pre-treatment and post-treatment needs.



Product Specifications:			
Part Number	Description	Size	Volume (cubic feet)
200704	Cartridge, Re-fillable, AXEON	2.5" x 21"	0.036
200705	Cartridge, Re-fillable, AXEON	2.5" x 40"	0.098
200706	Cartridge, Re-fillable, AXEON	4.0" x 21"	0.131
200707	Cartridge, Re-fillable, AXEON	4.0" x 40"	0.266

Features and Benefits:

- Fits Standard 2.5" and 4.0" RO Pressure Vessel Configuration
- Flip Proof Seal
- Body Materials FDA Approved
- Made in the U.S.A.

Included:

- ABS Shell x 1
- End Carrier x 2
- Chevron Seal x 1
- 50 Micron Felt Pad x 2

Technical Data:		
Dimensions inch (mm):		
Cartridge Size:	A	B
2.5" x 21"	21 (533.4)	2.40 (60.96)
2.5" x 40"	40 (1016.0)	2.40 (60.96)
4.0" x 21"	21 (533.4)	3.95 (100.3)
4.0" x 40"	40 (1016.0)	3.95 (100.3)

Engineered Membrane Solutions

AXEON

Pressure Gauges

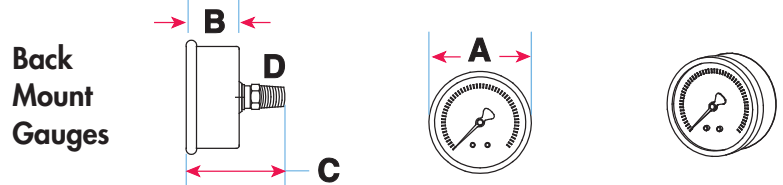
AXEON Pressure Gauges have an easy-to-read two tone dial that is printed in bold UV resistant ink for ease of legibility even after extensive exposure to direct sunlight. AXEON pressure gauges have been designed for the most demanding applications and offer durability, accuracy, and high quality. **AXEON Pressure Gauges** are offered in a 0-100, 0-160, 0-300, 0-600, and 0-1000 psi scale.

Features

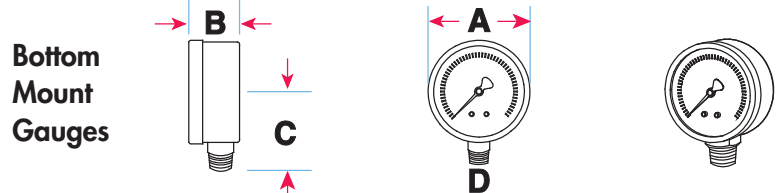
- Bottom and back mount options available
- Stainless Steel Casings
- Brass or Stainless internals
- 1.5", 2", and 2.5" dials
- Dry or liquid filled

Technical Info

- Face: Aluminum Black and Blue Print
- Lens: Clear Acrylic
- Pointer: Aluminum, Black
- Fluid: Glycerin Filled
- Temperature Rating: 0°F to 140°F



Dimensions						
Gauge Size		A	B	C	D	Liquid Filled
1.5"	0-160	1.610"	.977"	1.572"	1/8" MNPT	NO
2.5"	0-100, 0-300, 0-600, 0-1000	2.492"	1.13"	2.22"	1/4" MNPT	YES



Dimensions						
Gauge Size		A	B	C	D	Liquid Filled
2.5"	0-300	2.475"	1.13"	2.22"	1/4" MNPT	NO
2.0"	0-100	2.016"	1.134"	1.755"	1/4" MNPT	NO

Part Number	Pressure Rating	Dial Size	Glycerin Filled	Mount	Clamp	Stem Connection	Stem Material	Internals	Casing Material
205802	0-100	2.0	No	Bottom	No	1/4" MNPT	Brass	Brass	Metal Enamel
204165	0-100	2.5	Yes	Back	Yes	1/4" MNPT	Brass	Brass	Metal Enamel
205099	0-100	2.5	Yes	Back	Yes	1/4" MNPT	316 SS	316 SS	304 SS
202436	0-160	1.5	No	Back	No	1/8" MNPT	Brass	Brass	Plastic
200904	0-300	2.5	Yes	Back	Yes	1/4" MNPT	Brass	Brass	Metal Enamel
200903	0-300	2.5	Yes	Bottom	No	1/4" MNPT	Brass	Brass	Metal Enamel
205100	0-600	2.5	Yes	Back	Yes	1/4" MNPT	316 SS	316 SS	304 SS
201360	0-1000	2.5	Yes	Back	Yes	1/4" MNPT	316 SS	316 SS	304 SS

Engineered Membrane Solutions

AXEON

Flow Meters

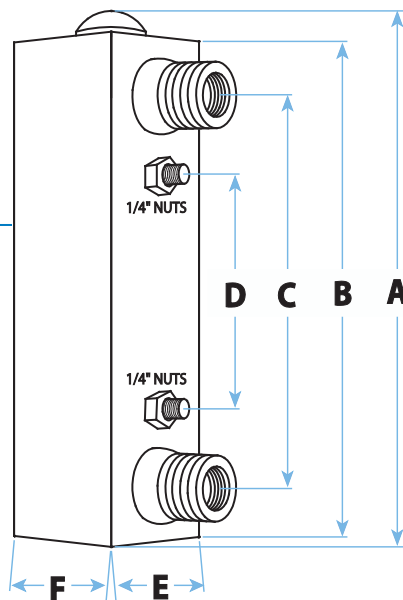
AXEON Flow Meters have an easy-to-read scale which has been silk-screened onto an acrylic body. These flow meters offer durability, accuracy and high quality. **AXEON Flow Meters** are offered in 1, 2, 5, 10, and 20 gallons per minute configurations.

Features

- 1, 2, 5, 10 and 20 GPM Sizes Available
- Solid One Piece Injection Molded Acrylic Body
- Stainless Steel Float and Internals
- Models Available With 316 SS Integrated Needle Valve
- Permanent Screen Printed Scales
- Calibrations in GPM and LPM
- Individually Packaged
- 100% Tested for Accuracy

Technical Specifications

- Body: Acrylic
- O-Rings: Silastic®
- Connections: Polypropylene
- Guide: 316 Stainless Steel
- Float: 316 Stainless Steel
- Maximum Pressure: 150 psi
- Temperature Rating: 120°F
- Accuracy: ±5% Accuracy



AXEON® Standard Flow Meters										
Part Number	GPM Range	Integrated 316 SS Valve	Inner Connection	Outer Connection	A	B	C	D	E	F
203849	0.1-1 GPM	No	1/4" FNPT	1/2" MNPT	6.93"	6.62"	5.00"	3.00"	1.250"	1.375"
200897	0.2-2 GPM	No	1/4" FNPT	1/2" MNPT	6.93"	6.62"	5.00"	3.00"	1.250"	1.375"
205103	0.2-2 GPM	Yes	1/4" FNPT	1/2" MNPT	6.93"	6.62"	5.00"	3.00"	1.250"	1.375"
200898	1-5 GPM	No	1/4" FNPT	1/2" MNPT	6.93"	6.62"	5.00"	3.00"	1.250"	1.375"
205104	1-5 GPM	Yes	1/4" FNPT	1/2" MNPT	6.93"	6.62"	5.00"	3.00"	1.250"	1.375"
200899	1-10 GPM	No	1/2" FNPT	1" MNPT	9.30"	9.00"	6.50"	4.00"	1.760"	1.760"
205105	1-10 GPM	Yes	1/2" FNPT	1" MNPT	9.30"	9.00"	6.50"	4.00"	1.760"	1.760"
200900	2-20 GPM	No	1/2" FNPT	1" MNPT	9.30"	9.00"	6.50"	4.00"	1.760"	1.760"
205106	2-20 GPM	Yes	1/2" FNPT	1" MNPT	9.30"	9.00"	6.50"	4.00"	1.760"	1.760"

Engineered Membrane Solutions

Stainless Steel Needle Valves

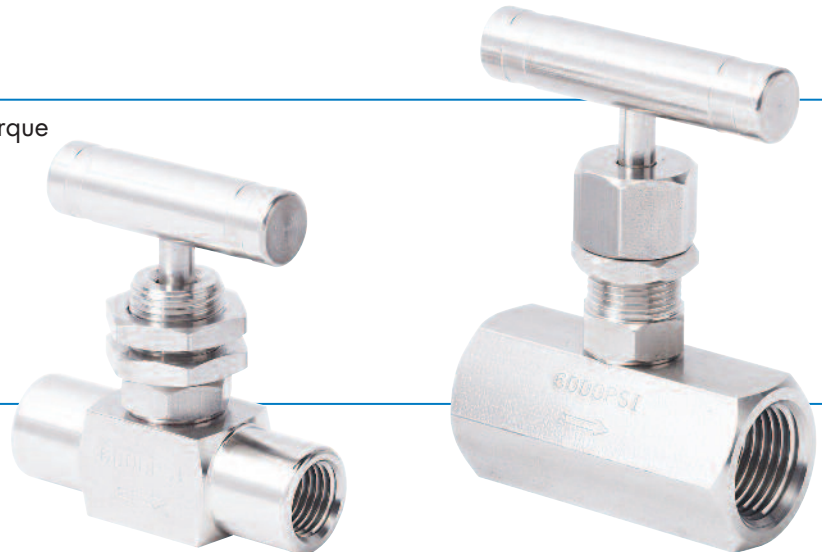
AXEON Stainless Steel Needle Valves feature a panel mountable, two piece design allowing for flexibility during installation. High quality valve packing provides a leak-tight double seal with low operating torque and the safety back-seating prevents accidental removal of the stem.

Benefits

- Leak-tight performance with low operating torque
- Easy installation and serviceability
- Use in a wide range of applications
- Simple installation

Features

- 316 Stainless Steel
- Positive Drive Hand Bar
- High Pressure and Temperature Capability
- 100% Tested



Technical Data

Valve Model	1/4" Needle Valve	3/8" Needle Valve	1/2" Needle Valve	3/4" Needle Valve
Part Number	201004	201005	201006	203296
Maximum Operating Pressure	6000 psi @ 77°F	6000 psi @ 77°F	6000 psi @ 77°F	6000 psi @ 77°F
Operating Temperature Range	32°F to 250°F	32°F to 250°F	32°F to 250°F	32°F to 250°F
End Connections	1/4" FNPT	3/8" FNPT	1/2" FNPT	3/4" FNPT
Panel Hole	.635"	.635"	.635"	.750"
Max Panel Thickness	3/16"	3/16"	3/16"	3/16"

Materials of Construction

Valve Model	1/4" Needle Valve	3/8" Needle Valve	1/2" Needle Valve	3/4" Needle Valve
Body	316 SS	316 SS	316 SS	316 SS
Stem	316 SS	316 SS	316 SS	316 SS
Stem Tip, Hard Seat	316 SS	316 SS	316 SS	316 SS
Stem Packing	EPDM	EPDM	EPDM	EPDM
Bonnet	316 SS	316 SS	316 SS	316 SS
Handle	316 SS	316 SS	316 SS	316 SS
Panel Mounting Nut	316 SS	316 SS	316 SS	316 SS

Engineered Membrane Solutions

AXEON

Capillary Flow Restrictors

Features

- Delrin Material For Increased Strength
- Compatible with Quick-Connect and Compression Fittings
- Save On Shipping, Storage and Fittings
- Unique Design Prevents Clogging
- Easy Installation
- Fits All Standard Size 1/4" Tubing

Part # 200988 AXEON 25 GPD Black 263 ml/pmin Capillary Flow Restrictor

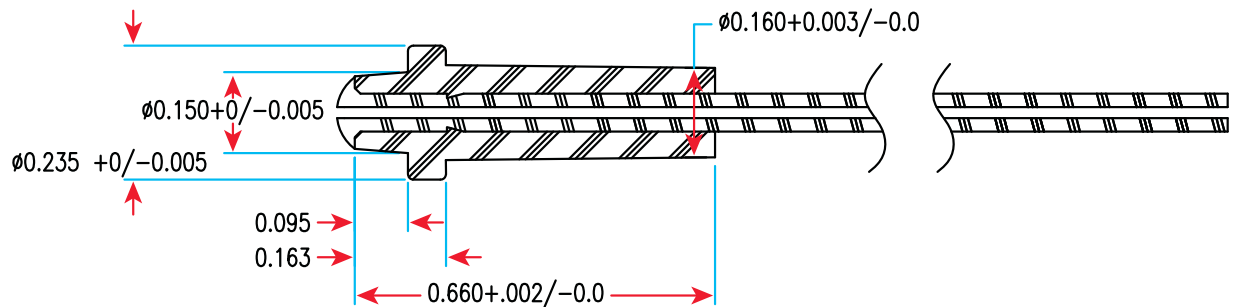
Part # 200989 AXEON 35 GPD Yellow 368 ml/pmin Capillary Flow Restrictor

Part # 200990 AXEON 50 GPD Green 525 ml/pmin Capillary Flow Restrictor

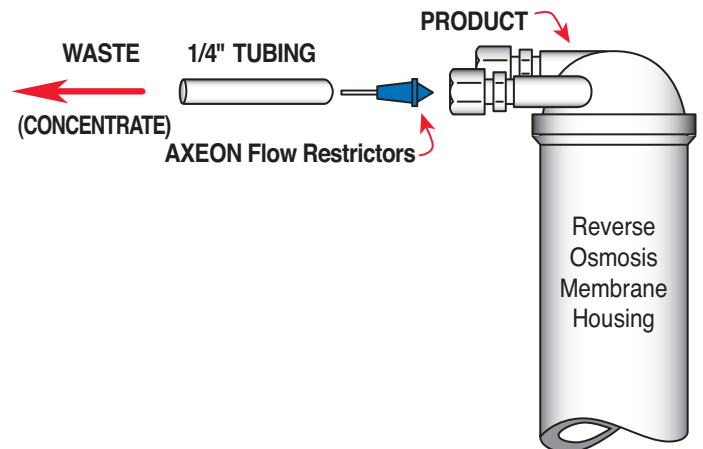
Part # 200991 AXEON 75 GPD Blue 735 ml/pmin Capillary Flow Restrictor

Part # 200992 AXEON 100 GPD White 1052 ml/pmin Capillary Flow Restrictor

Part # 200993 AXEON 150 GPD Grey 1577 ml/pmin Capillary Flow Restrictor



4:1 Waste to Product Ratio				
AXEON Capillary Flow Restrictor Part Number	Color Code	Tubing Inner Diameter	Size	Membrane Size
200985	Red	.023"	105 ml/pmin	10 GPD
200986	Red	.023"	125 ml/pmin	12 GPD
200987	Brown	.023"	189 ml/pmin	18 GPD
200988	Black	.029"	263 ml/pmin	25 GPD
200989	Yellow	.029"	368 ml/pmin	35 GPD
200990	Green	.036"	525 ml/pmin	50 GPD
200991	Blue	.036"	735 ml/pmin	75 GPD
200992	White	.042"	1052 ml/pmin	100 GPD
200993	Grey	N/A	1577 ml/pmin	150 GPD



Engineered Membrane Solutions