

APPLIED MEMBRANES INC.®

Industry Leader in RO Expertise and Membrane Applications Since 1983™

Quality

Service

Reliability

PRODUCT CATALOG 30th Edition



Membranes

Press. Vessels

Residential

Filters

Commercial

RO Systems

Media Filters

Testers

Chemicals

UV Systems

Technical

Why Applied Membranes?

- Industry Leader in RO Expertise and Membrane Applications Since 1983™
- ISO 9001:2008 Certified
- Over 10,000 commercial/industrial systems in operation.
- Our products are being used in over 100 countries worldwide.
- From packaged systems to custom engineered Reverse Osmosis systems, we can take care of your needs.
- We are one of the few companies that have the expertise to provide Reverse Osmosis systems for drinking water, boiler feed water, seawater desalination, ultrapure water, USP water, and water reuse.
- We have supplied more systems to more countries than most of our competitors.
- Our customers include major national and international companies in every field of application.
- We stock more components for all sizes of RO systems than any other company.
- We have earned an enviable reputation for our product quality, performance reliability and business integrity.



2450 Business Park Dr.
Vista, CA 92081
www.appliedmembranes.com

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Fax: (760) 727-4427
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Representatives Worldwide

How To Place An Order

To place an order, please contact us using the information below:

- **Fax:** You may fax an order to us at 760-727-4427. For your convenience, we have enclosed an order form to copy and use for faxed orders, please see page 11-15. Purchase orders are also accepted.
- **Phone:** Call us at 760-727-3711 to speak to a member of our technical sales or customer service department.
- **E-mail:** E-mail our customer service department at sales@appliedmembranes.com

Payment: Applied Membranes, Inc. accepts Visa, MasterCard, American Express, and Discover. For account terms and additional payment information, please contact Applied Membranes, Inc.



Delivery: We have a large inventory for immediate delivery for most parts contained in this catalog. Orders placed before 2:30 P.M. will ship the same day if the product is in stock. Orders placed after 2:30 P.M. will ship the next business day. If the product is not in stock, we will be happy to process a back order.

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Company Overview

Products

Applied Membranes manufactures commercial and industrial reverse osmosis, nanofiltration, ultrafiltration and microfiltration systems, from 20 gallons per day to millions of gallons per day. These systems also include all pretreatment and post-treatment equipment.

Applied Membranes also manufactures membrane elements for reverse osmosis, nanofiltration, and ultrafiltration use. In addition, Applied Membranes carries every component used in building reverse osmosis systems of any size. Our large inventory of these components allows us to give our customers a fast and efficient service. We are a major stocking distributor for FILMTEC® (Dow), Hydranautics, Toray and other membranes elements.

Experience

Applied Membranes has experience in every facet of membrane technology. From membranes to systems, from water chemistry to membrane cleaning and from tap water to seawater we have over 20 years of hands-on experience to help you in your requirements.

We have supplied systems and services to customers in ultrapure, potable, dialysis, pharmaceutical, water recycle, seawater desalination and numerous other applications. Each application has required our in-depth understanding of the specific need of the industry and the optimum use of membrane technology.

Applied Membranes has trained hundreds of professionals in reverse osmosis technology. This exchange and transfer of ideas and information keeps Applied Membranes in the forefront of technology.

Applied Membranes has supplied systems or provided consulting for many Fortune 500 companies. Our products have earned a high reputation for excellence in quality, reliability and follow-up service. This reputation is the key impetus for the growth of the company.

Markets

Applied Membranes sells membranes, components and systems for all applications where membrane technology is proven and competitive. Examples of these applications are ultrapure water for semiconductor and pharmaceutical industries; potable water from well, river or sea water; rinse water for manufacturing, car wash or electroplating industries; central water supply for hemodialysis; water recycle for municipal or industrial water.

Our products are sold worldwide through original equipment manufacturers or company representatives. These companies also provide local service and parts for the operations and maintenance of systems. Some markets are served directly by Applied Membranes from its offices in Vista, California.

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What's Inside?

• MEMBRANES & PRESSURE VESSELS

- Tap Water Thin Film/ CTA/CAB Elements
- Brackish Water FRP Elements
- Seawater Elements
- Ultrafiltration, Nanofiltration, Microfiltration Elements
- Stainless Steel, PVC & Fiberglass Housings

• RESIDENTIAL COMPONENTS & SYSTEMS

- Under the Counter & Counter-Top Systems
- Membrane Housings
- Flow Restrictors
- Faucets
- Storage Tanks
- Brackets & Clips
- Fittings
- Tubing
- Booster Pumps

• FILTERS & HOUSINGS

- Carbon Filter Cartridges
- Sediment Filter Cartridges
- In-Line Filters
- Specialty Filters
- Filter Housings
- Commercial Filters & Housings
- Bag Filters

• COMMERCIAL COMPONENTS

- Pumps & Motors
- System Controllers & Instruments
- Flow Meters, Pressure Gauges, Floats
- Solenoid Valves, Valves, Fittings, Hose
- Fittings & Tubing
- Storage Tanks

• MEMBRANE SYSTEMS

- Tap Water & Brackish Water Systems
- Seawater Systems
- Packaged Water Systems - Water Stores
- Hollow Fiber Ultrafiltration Systems
- Electrodeionization
- Cleaning Systems
- Mineral Injection Systems

• MEDIA FILTERS

- Softeners, Carbon Filters, Multimedia Filters
- Iron Filters, Neutralization Filters
- Filtration Media & Ion Exchange Resins
- Fleck Valves
- Mineral Tanks, Distributors & Components
- Brine Tanks, Cabinets, KMNO4 Feeders

• TEST KITS & METERS

- Silt Density Index Test Kits & Monitors
- Hand Held and Pocket Test Meters
- Water Quality Test Kits

• MEMBRANE CHEMICALS

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- Membrane Cleaning Cartridges
- Antiscalants & Dispersants
- Membrane Cleaning Services

• ULTRAVIOLET DISINFECTION

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- Ultraviolet Drinking Water Systems w/ Filters

• TECHNICAL INFORMATION

Membranes

- AMI®
- DOW/ FILMTEC®
- Hydranautics®
- Koch Fluid Systems®
- Toray®
- Inge®

Filters & Housings

- AMI®
- KX®
- Pentek®
- Ompipure®
- Aqualine®
- Hydroblend®
- Cuno AquaPure®
- Shelco®
- Harmsco®

Residential

- AMI®
- HM Digital®
- Tomlinson®
- ROMATE®
- Amtrol®
- Jaco®
- John Guest®
- AquaTec®
- ShurFlo®
- FloJet®

Commercial Pumps

- Procon®
- Goulds®
- Grundfos®
- CAT®
- Sta-Rite®
- LMI®

Instruments

- AMI®
- Blue-White®
- Hach®
- HM Digital®
- Hanna®
- King®
- Myron-L®
- GF Signet®
- SquareD®
- Nason®
- Furnas®
- ITT®

Pressure Vessels

- AMI®
- CodeLine®
- Protec®

Media

- APPLIED®
- DOW®
- ResinTech®
- Clack®
- Structural/Fleck®

Testers

- APPLIED®
- HM Digital®
- Hanna®
- Myron L®
- Hach®

UV

- AMI®
- Sterilight®
- NeoTech Aqua®

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*AMI has a large inventory of water treatment systems, membranes, and components.
Most items in this catalog can ship the same day you place your order.*

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Terms and Conditions

- All prices are quoted Ex-Works Vista, California and are in US Dollars. Only domestic packaging is included. Special packaging or crating is not included in the prices.
- All products carry a one-year material and workmanship guarantee. Please refer to our detailed warranty information on pages 11-17 and 11-18.
- Applied Membranes, Inc. expressly disclaims any liability for consequential damages resulting from the failure of its products to perform as specified.
- Claims for error in quantity or condition must be made within 10 days after receipt of the material. Applied Membranes will not be responsible for any claimed shortages not reported within this period.
- Claims for damages incurred in transit must be filed immediately and directly to the carrier. Please notify us if a claim has been made. Applied Membranes will offer as much assistance as possible.
- Payment is by wire transfer, credit card, letter of credit, or on terms if an account with credit approval has been established.
- All weights, dimensions, and volumes are approximate.
- Prices subject to change without notice.

Product Return Policy

- All product returns must bear an RGA (Return Goods Authorization) number. Please contact Applied Membranes to obtain an RGA number prior to shipment. The RGA number must appear on the outside of all packages. Items sent without an RGA number will be returned.
- Returns should be sent to: Applied Membranes, Inc.
2450 Business Park Dr.
Vista, CA 92081, USA
- Returns for warranty evaluation of items within the warranty period must be approved by Applied Membranes and have an RGA number. Buyer pays all freight charges for returned goods. Returned goods must be properly packaged before shipment to allow a complete warranty inspection.
- All returns for credit or exchange are subject to a 25% restock fee.
- All goods must be returned freight prepaid within 7 days of receipt. Freight will not be credited.
- All returned items must be new and unused. Assembled items or kits consisting of multiple parts must be returned complete with all components present.
- Returned goods must be properly packaged before shipment and arrive in good condition to be considered for a credit.

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AMI[®] MEMBRANES

About AMI[®] Brand Membrane Elements

AMI Membrane Elements have earned the reputation of consistent quality. With hundreds of thousands of membranes in operation world-wide, AMI Membrane Elements are among the finest in the industry with performance comparable to most major brands.

Advantages of AMI Membranes

- Made in the USA in our ISO 9001:2008 Certified Facilities
- Offered in Reverse Osmosis, Ultrafiltration, Nanofiltration, Microfiltration, Seawater, and Special Membranes
- Available in a Large Range of Both Residential and Commercial Styles and Sizes
- NSF Certified in Select Models
- Backed by our Experienced Technical Support Staff
- High Quality for Consistent and Reliable Performance
- Competitive Prices



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Private Label & Custom Membrane Elements are also available

Applied Membranes, Inc. can supply private label membranes in any membrane material in standard or proprietary styles in varying colors and dimensions based on your specifications. We can also provide encapsulated membrane elements.



Please contact us with your project information and we will be happy to work with you to fulfill your requirements.

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Residential Tap Water TFC Membranes



M-T1512A12, M-T1512A18, M-T1812A24, M-T1812A36, M-T1812A50, M-T1812A75 & M-T1812A100 are certified to NSF/ANSI 58 for the reduction of Arsenic, Barium, Cadmium, Chromium (Hexavalent), Chromium (Trivalent), Copper, Cysts, Turbidity, Fluoride, Lead, Radium 226/228, Selenium, and TDS.

Performance Specifications

Model No.	Permeate Flow Rate*		Size (Dia."× Length")	Minimum Salt Rejection (%)*	Stabilized Salt Rejection (%)*
	gpd	lpd			
M-T1512A12	12	45	1.50 × 12	96	98
M-T1512A18	18	68	1.50 × 12	96	98
M-T1812A24	24	91	1.75 × 12	96	98
M-T1812A36	36	136	1.75 × 12	96	98
M-T1812A50	50	190	1.75 × 12	96	98
M-T1812A75	75	284	1.75 × 12	96	98
M-T1812A100	100	379	1.75 × 12	96	98
M-T1812A150†	150	568	1.95 × 12	96	98
M-T3012A‡	300	1,138	3.00 × 12	98	99

* Salt rejection and performance specifications shown are from internal test data.

Note: Performance specifications based on 500 ppm tap water, 50 psi (0.35 MPa) applied pressure, 77°F (25°C) feed water temperature, feed water pH 7-8 and 15% recovery. Element permeate flow may vary ± 20%.

Recommended Operating Conditions*

• Maximum operating pressure	125 psig (0.86 MPa)
• Maximum feed flow rate	2 gpm
• Maximum operating temperature	113°F (45°C)
• Maximum feed water turbidity	1 NTU
• Maximum feed water silt density index (15 min)	5
• Chlorine tolerance	<0.1 ppm
• Feed water pH range, Continuous Operation	2-11
• Feed water pH range, Short-Term Cleaning (30 minutes)	1-12
• Minimum brine flow to permeate flow ratio	4:1



M-T18512A12 – M-T1812A100



Membrane Element Dimensions

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-T1512A(12-18)	11.75	29.8	10.00	25.4	1.50	3.8
M-T1812A(24-100)	11.75	29.8	10.00	25.4	1.75	4.4
M-T1812A150	11.75	29.8	10.00	25.4	1.95	5.0
M-T3012A	11.75	29.8	10.25	26.0	3.2	8.1

† The 150 gpd membranes are designed for a tight fit in most standard housings. If the membrane fits loosely, you may need to wrap a few layers of tape near one end to make a tight fit. Tape Part # X-T160VWHI-2113. A loose fit will result in a higher permeate TDS.

‡ M-T3012A uses 3x12 membrane housing and does not fit standard residential housings.

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Tape Wrapped RO Membranes for Commercial Applications

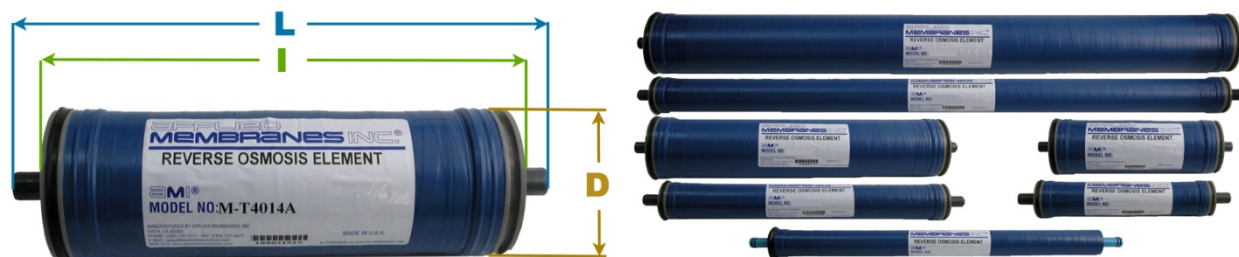
Performance Specifications

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Stabilized Salt Rejection (%)
	gpd	lpd			
M-T2013A	100	378	2.0 × 13	5	98.0
M-T2013AHF	130	492	2.0 × 13	5	98.0
M-T2026A	220	833	2.0 × 26	10	98.0
M-T2026AHF	280	1060	2.0 × 26	10	98.0
M-T2514A	200	757	2.5 × 14	5	99.5
M-T2514AHF	250	946	2.5 × 14	5	99.5
M-T2521A	325	1230	2.5 × 21	8	99.5
M-T2521AHF	405	1533	2.5 × 21	8	99.5
M-T2540A	850	3217	2.5 × 40	15	99.5
M-T2540AHF	1060	4012	2.5 × 40	15	99.5
M-T4014A	525	1987	4.0 × 14	5	99.5
M-T4014AHF	655	2479	4.0 × 14	5	99.5
M-T4021A	900	3407	4.0 × 21	8	99.5
M-T4021AHF	1125	4258	4.0 × 21	8	99.5
M-T4040A	2400	9084	4.0 × 40	15	99.5
M-T4040AHF	3000	11355	4.0 × 40	15	99.5

Note: Performance specifications based on 2,000 mg/l sodium chloride, 225 psi (1.6 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Recommended Operating Conditions

• Maximum Operating Pressure	300 psig (2.1MPa)	• Maximum Feed Flow Rate	
• Maximum Operating Temperature	113°F (45°C)	○ 2" Dia. Elements	3 gpm
• Maximum Feed water Turbidity	1 NTU	○ 2.5" Dia. Elements	6 gpm
• Maximum Feed water SDI (15 min)	4	○ 4" Dia. Elements	17 gpm
• Chlorine Tolerance	0	• Feed water pH Range (Continuous)	2-11
• Maximum Pressure Drop:	13psig (0.9 bar)	• Feed water pH Range (Cleaning – 30 min.)	1-12



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-T2013A, AHF	13	33	10.64	27	1.8	4.6
M-T2026A, AHF	26	66	23.64	60	1.8	4.6
M-T2514A, AHF	14	35.6	11.62	30	2.5	6.4
M-T2521A, AHF	21	53.3	19	48	2.5	6.4
M-T2540A, AHF	40	101.6	38	96	2.5	6.4
M-T4014A, AHF	14	35.6	12	30	3.9	9.9
M-T4021A, AHF	21	53.3	19	48	3.9	9.9
M-T4040A, AHF	40	101.6	38	96	3.9	9.9

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Low Energy Reverse Osmosis Membranes

AMI Low Energy Membrane Elements are specially designed to run at 150 psi. By using these elements instead of standard elements, you can significantly reduce your operating costs.

Performance Specifications

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Stabilized Salt Rejection (%)
	gpd	lpd			
M-T2026ALE	450	1703	2.0 × 26	10	99.0
M-T2514ALE	264	999	2.5 × 14	5	99.0
M-T2521ALE	450	1703	2.5 × 21	8	99.0
M-T2540ALE	1000	3785	2.5 × 40	15	99.0
M-T4014ALE	610	2309	4.0 × 14	5	99.0
M-T4021ALE	1148	4345	4.0 × 21	8	99.0
M-T4040ALE	2900	10976	4.0 × 40	15	99.0

Note: Performance specifications based on 2,000 mg/l sodium chloride, 150psi (1 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Caution: Do not run these membranes at a pressure that will produce more than their rated product flow rate. This will lead to premature fouling of the membrane resulting in drop in permeate flow and higher TDS of the permeate.

Recommended Operating Conditions

• Maximum Operating Pressure	300 psig (2.1MPa)	• Maximum Feed Flow Rate	
• Maximum Operating Temperature	113°F (45°C)	○ 2" Dia. Elements	3 gpm
• Maximum Feed water Turbidity	1 NTU	○ 2.5" Dia. Elements	6 gpm
• Maximum Feed water SDI (15 min)	4	○ 4" Dia. Elements	17 gpm
• Chlorine Tolerance	0	• Feed water pH Range (Continuous)	2-11
• Maximum Pressure Drop:	13psig (0.9 bar)	• Feed water pH Range (Cleaning – 30 min.)	1-12



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Membrane Element Dimensions

Model No.	L		I	D
	inches	centimeters		
M-T2026ALE	26	66	23.64	60
M-T2514ALE	14	35.6	11.62	30
M-T2521ALE	21	53.3	19	48
M-T2540ALE	40	101.6	38	96
M-T4014ALE	14	35.6	12	30
M-T4021ALE	21	53.3	19	48
M-T4040ALE	40	101.6	38	96

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Extra Low Energy Reverse Osmosis Membranes

AMI Extra Low Energy Membrane Elements are specially designed to run at 100 psi. By using these instead of standard elements, you can significantly reduce your operating costs.

Performance Specifications

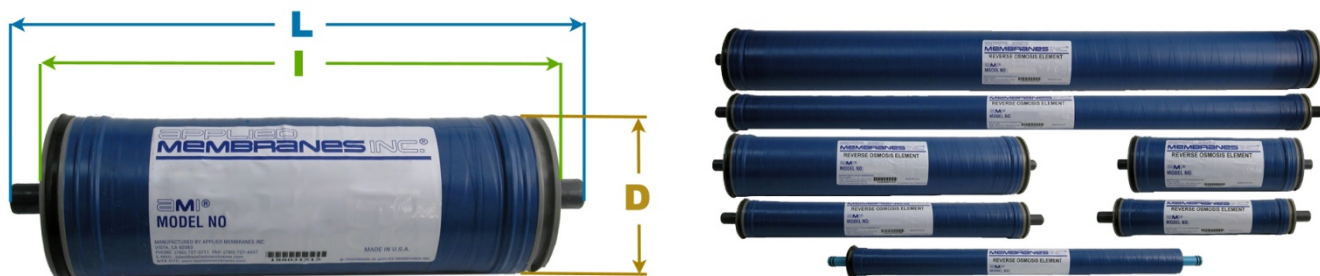
Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)*†	Stabilized Salt Rejection (%)*†
	gpd	lpd				
M-T2026AXLE	240	908	2.0 × 26	10	98	99
M-T2514AXLE	190	719	2.5 × 14	5	98	99
M-T2521AXLE	365	1382	2.5 × 21	8	98	99
M-T2540AXLE	850	3217	2.5 × 40	15	98	99
M-T4014AXLE	540	2044	4.0 × 14	5	98	99
M-T4021AXLE	1025	3880	4.0 × 21	8	98	99
M-T4040AXLE	2860	10825	4.0 × 40	15	98	99

Note: Performance specifications based on 500 mg/l sodium chloride, 100psi (0.7 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Caution: Do not run these membranes at a pressure that will produce more than their rated product flow rate. This will lead to premature fouling of the membrane resulting in drop in permeate flow and higher TDS of the permeate.

Recommended Operating Conditions

• Maximum Operating Pressure	300 psig (2.1MPa)	• Maximum Feed Flow Rate	
• Maximum Operating Temperature	113°F (45°C)	○ 2" Dia. Elements	3 gpm
• Maximum Feed water Turbidity	1 NTU	○ 2.5" Dia. Elements	6 gpm
• Maximum Feed water SDI (15 min)	4	○ 4" Dia. Elements	17 gpm
• Chlorine Tolerance	0	• Feed water pH Range (Continuous)	2-11
• Maximum Pressure Drop:	13psig (0.9 bar)	• Feed water pH Range (Cleaning – 30 min.)	1-12



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Membrane Element Dimensions

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-T2026AXLE	26	66	23.64	60	1.8	4.6
M-T2514XALE	14	35.6	11.62	30	2.5	6.4
M-T2521AXLE	21	53.3	19	48	2.5	6.4
M-T2540AXLE	40	101.6	38	96	2.5	6.4
M-T4014AXLE	14	35.6	12	30	3.9	9.9
M-T4021AXLE	21	53.3	19	48	3.9	9.9
M-T4040AXLE	40	101.6	38	96	3.9	9.9

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Fiberglass Wrapped Brackish Water RO Membranes

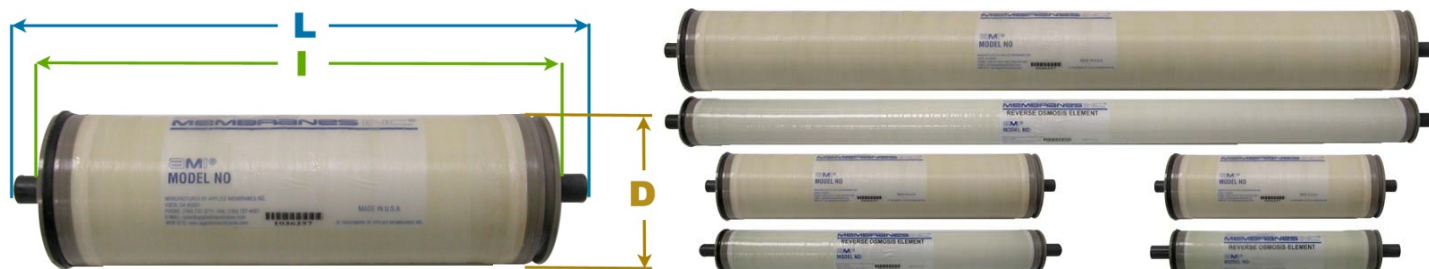
Performance Specifications

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	lpd				
M-B2514A	200	757	2.5 × 14	5	98	99
M-B2521A	325	1230	2.5 × 21	8	98	99
M-B2540A	850	3217	2.5 × 40	15	98	99
M-B2540AHF	1060	4012	2.5 × 40	15	98	99
M-B4014A	525	1987	4.0 × 14	5	98	99
M-B4014AHF	655	2479	4.0 × 14	5	98	99
M-B4021A	900	3407	4.0 × 21	8	98	99
M-B4021AHF	1125	4258	4.0 × 21	8	98	99
M-B4040A	2400	9084	4.0 × 40	15	98	99
M-B4040AHF	3000	11355	4.0 × 40	15	98	99

Note: Performance specifications based on 2,000 mg/l sodium chloride, 225 psi (1.6 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Recommended Operating Conditions

• Maximum Operating Pressure	600 psig (4.1MPa)	• Maximum Feed Flow Rate	
• Maximum Operating Temperature	113°F (45°C)	○ 2" Dia. Elements	3 gpm
• Maximum Feed water Turbidity	1 NTU	○ 2.5" Dia. Elements	6 gpm
• Maximum Feed water SDI (15 min)	4	○ 4" Dia. Elements	17 gpm
• Chlorine Tolerance	0	• Feed water pH Range (Continuous)	2-11
• Maximum Pressure Drop:	15psig (1 bar)	• Feed water pH Range (Cleaning – 30 min.)	1-12



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Membrane Element Dimensions

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-B2514A	14	35.6	11.62	30	2.5	6.4
M-B2521A	21	53.3	19	48	2.5	6.4
M-B2540A, AHF	40	101.6	38	96	2.5	6.4
M-B4014A	14	35.6	12	30	3.9	9.9
M-B4021A, AHF	21	53.3	19	48	3.9	9.9
M-B4040A, AHF	40	101.6	38	96	3.9	9.9

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Fiberglass Wrapped Low Energy Membranes

AMI Low Energy Membrane Elements are specially designed to run at 150 psi. By using these instead of standard elements, you can significantly reduce your operating costs.

Performance Specifications

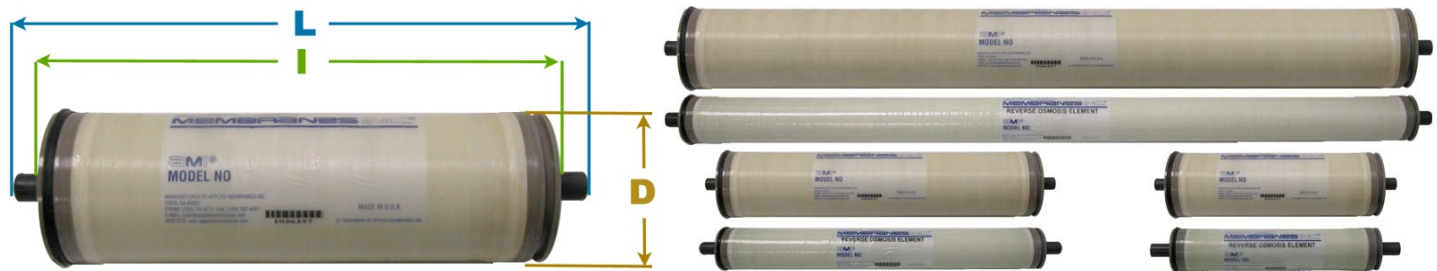
Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	lpd				
M-B2514ALE	264	999	2.5 × 14	5	98	99
M-B2521ALE	450	1703	2.5 × 21	8	98	99
M-B2540ALE	850	3217	2.5 × 40	15	98	99
M-B4014ALE	610	2309	4.0 × 14	5	98	99
M-B4021ALE	1148	4345	4.0 × 21	8	98	99
M-B4040ALE	2700	10220	4.0 × 40	15	98	99

Note: Performance specifications based on 2,000 mg/l sodium chloride, 150 psi (1 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Caution: Do not run these membranes at a pressure that will produce more than their rated product flow rate. This will lead to premature fouling of the membrane resulting in drop in permeate flow and higher TDS of the permeate.

Recommended Operating Conditions

• Maximum Operating Pressure	600 psig (4.1MPa)	• Maximum Feed Flow Rate	
• Maximum Operating Temperature	113°F (45°C)	○ 2" Dia. Elements	3 gpm
• Maximum Feed water Turbidity	1 NTU	○ 2.5" Dia. Elements	6 gpm
• Maximum Feed water SDI (15 min)	4	○ 4" Dia. Elements	17 gpm
• Chlorine Tolerance	0	• Feed water pH Range (Continuous)	2-11
• Maximum Pressure Drop:	15psig (1 bar)	• Feed water pH Range (Cleaning – 30 min.)	1-12



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Membrane Element Dimensions

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-B2514ALE	14	35.6	11.62	30	2.5	6.4
M-B2521ALE	21	53.3	19	48	2.5	6.4
M-B2540ALE	40	101.6	38	96	2.5	6.4
M-B4014ALE	14	35.6	12	30	3.9	9.9
M-B4021ALE	21	53.3	19	48	3.9	9.9
M-B4040ALE	40	101.6	38	96	3.9	9.9

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Fiberglass Wrapped Extra Low Energy Membranes

AMI Extra Low Energy Membrane Elements are specially designed to run at 100 psi. By using these instead of standard elements, you can significantly reduce your operating costs.

Performance Specifications

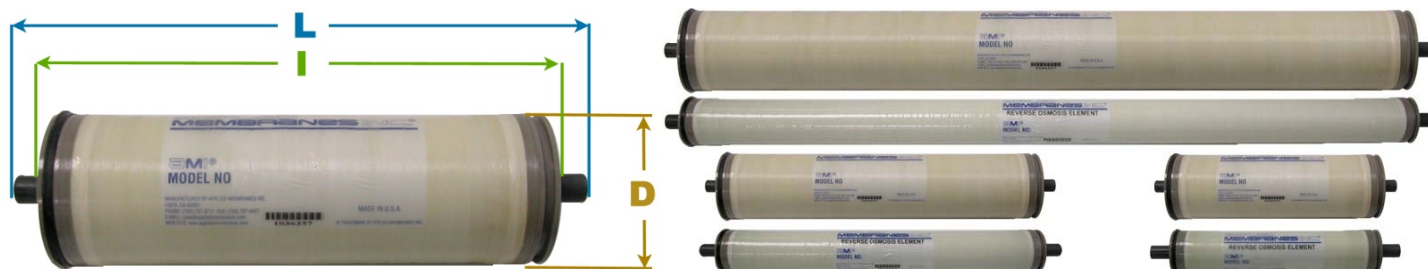
Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)*†
	gpd	m ³ /day			
M-B2514AXLE	190	0.7	2.5 x 14	10	98
M-B2521AXLE	365	1.4	2.5 x 21	10	98
M-B2540AXLE	850	3.2	2.5 × 40	10	98
M-B4014AXLE	540	2.0	4.0 × 14	10	98
M-B4021AXLE	1,025	3.9	4.0 × 21	10	98
M-B4040AXLE	2,600	9.8	4.0 × 40	10	98

Note: Performance specifications based on 2,000 mg/l sodium chloride, 100 psi (1 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Caution: Do not run these membranes at a pressure that will produce more than their rated product flow rate. This will lead to premature fouling of the membrane resulting in drop in permeate flow and higher TDS of the permeate.

Recommended Operating Conditions

• Maximum Operating Pressure	600 psig (4.1MPa)	• Maximum Feed Flow Rate	
• Maximum Operating Temperature	113°F (45°C)	○ 2" Dia. Elements	3 gpm
• Maximum Feed water Turbidity	1 NTU	○ 2.5" Dia. Elements	6 gpm
• Maximum Feed water SDI (15 min)	4	○ 4" Dia. Elements	17 gpm
• Chlorine Tolerance	0	• Feed water pH Range (Continuous)	2-11
• Maximum Pressure Drop:	15psig (1 bar)	• Feed water pH Range (Cleaning – 30 min.)	1-12



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Membrane Element Dimensions

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-B2514AXLE	14	35.6	11.62	30	2.5	6.4
M-B2521AXLE	21	53.3	19	48	2.5	6.4
M-B2540AXLE	40	101.6	38	96	2.5	6.4
M-B4014ALE	14	35.6	12	30	3.9	9.9
M-B4021AXLE	21	53.3	19	48	3.9	9.9
M-B4040AXLE	40	101.6	38	96	3.9	9.9

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Seawater Desalination RO Membrane Elements

AMI offers high rejection and high productivity seawater reverse osmosis membranes designed for marine applications. These seawater membranes are ideal for seawater desalination in shipboard applications, watermakers, land and sea based desalinators.

Performance Specifications

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	m ³ /day				
M-S2514A	150	0.57	2.5 × 14	2	99.2	99.4
M-S2521A	300	1.14	2.5 × 21	4	99.2	99.4
M-S2540A	700	2.65	2.5 × 40	8	99.2	99.4
M-S4021A	800	3.03	4.0 × 21	4	99.2	99.4
M-S4040A	1950	7.38	4.0 × 40	8	99.2	99.4

Note: Performance specifications based on 32,000 mg/l sodium chloride, 800 psi (5.5 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Recommended Operating Conditions

• Maximum Operating Pressure	1,000 psig (6.9MPa)	• Maximum Feed Flow Rate	
• Maximum Operating Temperature	113°F (45°C)	○ 2.5" Dia. Elements	6 gpm
• Maximum Feed water SDI (15 min)	5	○ 4" Dia. Elements	16 gpm
• Chlorine Tolerance	0	• Feed water pH Range (Continuous)	2-11
• Maximum Pressure Drop:	15psig (1 bar)	• Feed water pH Range (Cleaning – 30 min.)	1-13



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Membrane Element Dimensions

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-S2514A	14	35.6	11.62	30	2.5	6.4
M-S2521A	21	53.3	19	48	2.5	6.4
M-S2540A	40	101.6	38	96	2.5	6.4
M-S4021A	21	53.3	19	48	3.9	9.9
M-S4040A	40	101.6	38	96	3.9	9.9

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Residential CTA (Cellulose Triacetate) RO Membranes

Performance Specifications

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Minimum Salt Rejection (%)
	gpd	lpd		
M-C1812A10	10	38	1.8 × 12	94
M-C1812A15	15	57	1.8 × 12	94
M-C1812A20	20	76	1.8 × 12	94

Note: Performance specifications based on 500 ppm tap water, 65 psi (0.47 MPa) applied pressure, 77°F (25°C) feed water temperature, feed water pH 7-8 and 15% recovery. Element permeate flow may vary ± 20%.

Recommended Operating Conditions

• Maximum operating pressure	125 psi (0.86 MPa)
• Maximum feed flow rate	2 gpm
• Maximum operating temperature	104°F (40°C)
• Maximum feed water turbidity	1 NTU
• Maximum feed water silt density index (15 min)	4
• Chlorine tolerance	0.3-0.5 ppm (1ppm maximum)
• Feed water pH range, Continuous Operation	4-6
• Feed water pH range, Short-Term Cleaning (30 minutes)	3-8
• Minimum brine flow to permeate flow ratio	4:1



Membrane Element Dimensions

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-C1812A10	11.75	29.8	10.0	25.4	1.8	4.6
M-C1812A15	11.75	29.8	10.0	25.4	1.8	4.6
M-C1812A20	11.75	29.8	10.0	25.4	1.8	4.6

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Commercial CTA (Cellulose Triacetate) RO Membranes

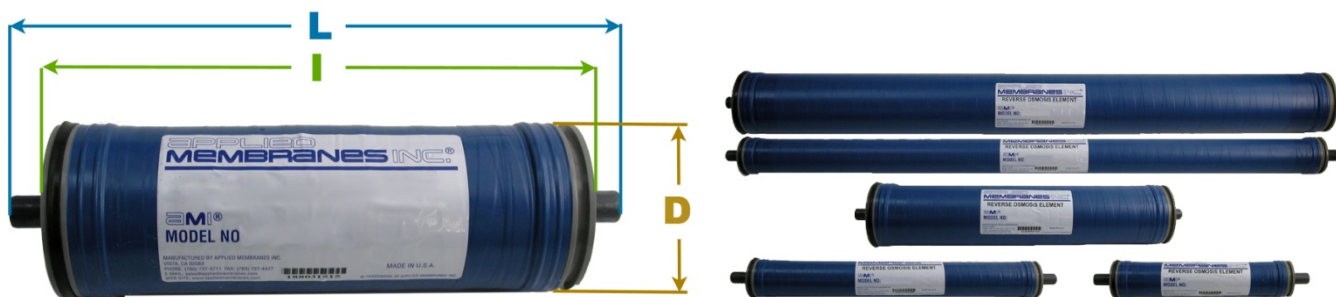
Performance Specifications

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Single Element Recovery (%)	Minimum Salt Rejection (%)
	gpd	lpd			
M-C2514A	80	303	2.5 × 14	5	96
M-C2521A	117	443	2.5 × 21	8	96
M-C2540A	250	946	2.5 × 40	15	96
M-C4021A	350	1325	4.0 × 21	8	96
M-C4040A	1000	3785	4.0 × 40	15	96

Note: Performance specifications based on 500 ppm tap water, 225psi (1.6 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 7-8 and the recovery listed in the table above. Element permeate flow may vary ± 20%.

Recommended Operating Conditions

• Maximum Operating Pressure	300 psig (2.1MPa)
• Maximum Operating Temperature	104°F (40°C)
• Maximum Feed water Turbidity	1 NTU
• Maximum Feed water Silt Density Index (15 min)	4
• Chlorine Tolerance	0.3-0.5 ppm (1 ppm maximum)
• Maximum Pressure Drop:	13psig (0.9 bar)
• Maximum Feed Flow Rate	
○ 2.5" Dia. Elements	6 gpm
○ 4" Dia. Elements	17 gpm
• Feed water pH Range (Continuous)	4-6
• Feed water pH Range (Cleaning – 30 min.)	3-8
• Minimum Brine Flow to Feed Flow Ratio	5:1



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Membrane Element Dimensions

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-C2514A	14	35.6	11.62	30	2.5	6.4
M-C2521A	21	53.3	19	48	2.5	6.4
M-C2540A	40	101.6	38	96	2.5	6.4
M-C4021A	21	53.3	19	48	3.9	9.9
M-C4040A	40	101.6	38	96	3.9	9.9

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Replacement Membranes for Other Manufacturers

CULLIGAN®: AMI Membrane Elements to Replace Culligan Brand Membranes

Model No.	Replaces Culligan Product	Type	Permeate Flow Rate		Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
			gpd	lpd		
M-T1812C24	TFC 24 – H8, H83	TF	24	90	96	98
M-T1812AC24	TFC 24 – AC Series	TF	24	90	96	98
M-T1812C36	TFC 36 – H8, H83	TF	36	136	96	98
M-T1812AC36	TFC 36 – AC Series	TF	36	136	96	98
M-T1812C50	TFC 50 – H8, H83	TF	50	190	96	98
M-T1812AC50	TFC 50 – AC Series	TF	50	190	96	98

H5, H8, H83 Style



AC- Series/ Aqua Clear Style



RAINSOFT®: AMI Membrane Elements to Replace Rainsoft Brand Membranes

Model No.	Replaces Rainsoft Product	Type	Permeate Flow Rate		Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
			gpd	lpd		
M-C1810R10	9564, 9590, 9593	CTA	10	38	94	94
M-T1810R12	9565, 9591, 9594, 9772, 9548	TF	15	45	96	98
M-T1810R24	9568, 9596	TF	24	90	96	98
M-T1810R50	18644, 18571, 12447, 21179, 17370, 9757, UF50T	TF	50	190	96	98
M-C1812A10	9744	CTA	10	38	94	94
M-T2514A	9792	TF	175	662	98	99



AMETEK/PENTEK®: AMI Membrane Elements to Replace Ametek Brand Membranes

Style (#)	Model No.	Replaces Ametek/US Filter & American Plumber Product	Type	Permeate Flow Rate	
				gpd	lpd
1	M-C1812A15	155414-01, RO-2127, CF1812T1738	CTA	15	57
2	M-T1812A24	155431-19, RO-3167, TFM-24-PL, WRO-31687	TF	24	90

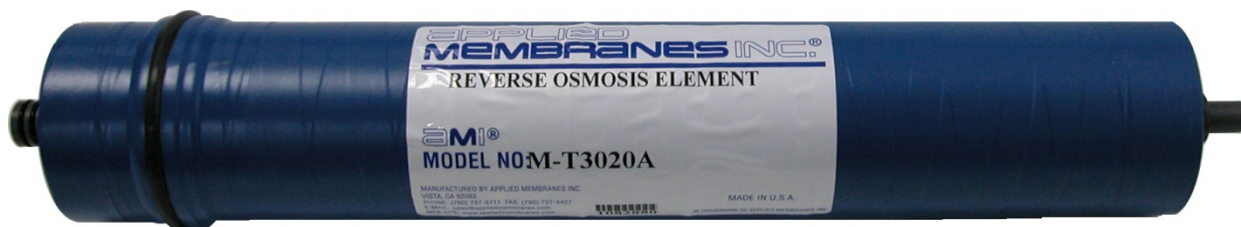


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Replacement Membranes for Other Manufacturers

AMETEK/PENTEK®: AMI Membrane Elements to Replace Ametek Brand Membranes

Model No.	Replaces Ametek Product	Type	Permeate Flow Rate		Size (Dia." × Length")	Minimum Salt Rejection (%)	Test Pressure (psi)
			gpd	lpd			
M-T3011AXLE	AMETEK 10	Thin Film	150	568	3.3 × 08	98	60
M-T3020A	AMETEK 20	Thin Film	800	3028	3.3 × 20	98	225



OSMONICS®/DESAL®: AMI Membrane Elements to Replace Osmonics/Desal Brand

Model No.	Replaces Osmonics Product	Replaces Desal Product	Flow Rate (gpd)	Size (Dia." × Length")	Minimum Salt Rejection (%)	Test Conditions
M-T2026A	112	SG2025TF	220	2.0 × 26	98	A
M-T2514A	--	SG2514TF, SH2514TF	175	2.5 × 14	98	A
M-T2521A	--	SG2521TF, SH2521TF	300	2.5 × 21	98	A
M-T2525A*	--	SG2525TF	500	2.5 × 25	98	A
M-T2525AHF*	--	SH2525TF	650	2.5 × 25	98	A
M-T2540A	217	AG2540TF, SG2540TF	660	2.5 × 40	98	A
M-C2540A	--	CE2540TF	250	2.5 × 40	96	B
M-B4040OSMO	411HR(PA)	--	2200	4.0 × 40	98	A
M-B4040AHF	414	AG4040FF	2800	4.0 × 40	98	A
M-T4040AHF	415	AG4040TF	2800	4.0 × 40	98	A
M-CB4040OSMO	411SR, 411HR	--	2100	4.0 × 40	96	C
M-CB4040AD	--	CE4040F, CD4040F	2100	4.0 × 40	96	C

* Sold without end adapters. End adapters AD-2425 and AD-2425PLG must be purchased separately.

TEST CONDITIONS: All 77°F, 25°C

	TDS, ppm	Press., psi	pH	% Recovery
A	2000	225	8	10
B	500	255	8	15
C	2000	425	5-6	15



M-B4040OSMO

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Nanofiltration Membrane Elements: NF5 & NF9

Performance Specifications

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Average Salt Rejection (%)	Average Hardness Rejection (%)
	gpd	lpd			
M-N1812A5	36	136	1.75 × 12	50	97 +
M-N2514A5	175	662	2.5 × 14	50	97 +
M-N2521A5	250	946	2.5 × 21	50	97 +
M-N2540A5	600	2271	2.5 × 40	50	97 +
M-N4014A5	450	1703	4.0 × 14	50	97 +
M-N4021A5	800	3028	4.0 × 21	50	97 +
M-N4040A5	2000	7570	4.0 × 40	50	97 +
M-N4040A5D*	2000	7570	4.0 × 40	50	97 +
M-N1812A9	36	136	1.75 × 12	90	97 +
M-N2514A9	175	662	2.5 × 14	90	97 +
M-N2521A9	250	946	2.5 × 21	90	97 +
M-N2540A9	600	2271	2.5 × 40	90	97 +
M-N4014A9	450	1703	4.0 × 14	90	97 +
M-N4021A9	800	3028	4.0 × 21	90	97 +
M-N4040A9	2000	7570	4.0 × 40	90	97 +
M-N4040A9D*	2000	7570	4.0 × 40	90	97 +

Note: Also available in FRP wrap (M-NB-)

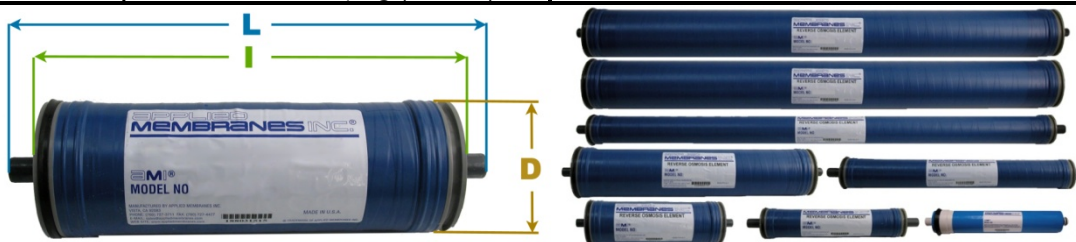
* D= Flush Style. Replaces Desal 5.

30 mil spacer standard. For 43 mil spacer, add -43 at the end of the model number. Example: M-N2540A5-43.

Note: Performance specifications based on 2000 mg/l magnesium sulfate, 150 psi (1 MPa) applied pressure, 77°F (25°C) feed water temperature and 15% recovery. Element permeate flow may vary ± 20%. Permeate flow rates for feed streams other than water will vary.

Recommended Operating Conditions

• Maximum Operating Pressure	300 psig (2.1MPa)	• Maximum Feed Flow Rate	
• Maximum Operating Temperature	113°F (45°C)	○ 1.8" Dia. Elements	
• Maximum Feed water Turbidity	1 NTU	○ 2.5" Dia. Elements	6 gpm
• Maximum Feed water SDI (15 min)	4	○ 4" Dia. Elements	17 gpm
• Chlorine Tolerance (A3)	Up to 1	• Feed water pH Range (A3)	4-11
• Chlorine Tolerance (A9)	< 0.1	• Feed water pH Range (A9)	3-10
• Maximum Pressure Drop:	13 psig (0.9 bar)		



4×14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-N1812A5, A9	11.75	29.8	10.0	25.4	1.75	4.4
M-N2514A5, A9	14	35.6	11.62	30	2.5	6.4
M-N2521A5, A9	21	53.3	19	48	2.5	6.4
M-N2540A5, A9	40	101.6	38	96	2.5	6.4
M-N4014A5, A9	14	35.6	12	30	3.9	9.9
M-N4021A5, A9	21	53.3	19	48	3.9	9.9
M-N4040A5, A9	40	101.6	38	96	3.9	9.9
M-N4040A5D, A9D	40	101.6	38	96	3.9	9.9

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Ultrafiltration Membranes – Polyethersulfone (PES)

Performance Specifications

Model No.	Size (Dia."× Length")	Style	Outer Wrap	Molecular Weight Cut-Off (MWCO)
M-U1812PES	1.75 × 12	Standard	Tape Wrap	10,000
M-U2514PES	2.5 × 14	Standard	Tape Wrap	10,000
M-U2521PES	2.5 × 21	Standard	Tape Wrap	10,000
M-U2540PES	2.5 × 40	Standard	Tape Wrap	10,000
M-U4014PES	4.0 × 14	Standard	Tape Wrap	10,000
M-U4021PES	4.0 × 21	Standard	Tape Wrap	10,000
M-U4040PES	4.0 × 40	Standard	Tape Wrap	10,000
M-U4040PESD	4.0 × 40	Flush-Cut	Tape Wrap	10,000
M-UB4040PESD	4.0 × 40	Flush-Cut	FRP Wrap	10,000
M-UB8040PES	8.0 × 40	Flush-Cut, 46 mil	FRP Wrap	10,000

30 mil spacer standard for 2-4" Dia.. For 43 mil spacer, add -43 at the end of the model number. Example: M-U2540PES-43.

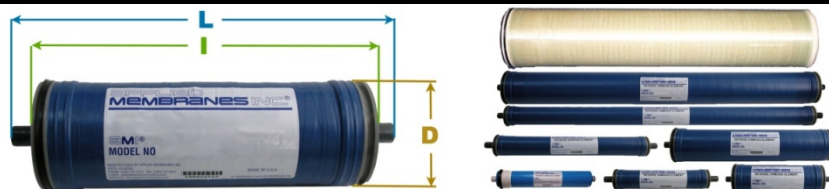
Note: An interconnector is provided with each 8" element, part no. PV-IN810.

Applications

- Absolute bacteria and virus removal from surface waters
- Beverage and liquid food processing and byproduct streams
- Applications requiring tolerance to solvents
- Treatment of oil, food, and pharmaceutical streams that require resistance to many esters and aromatics

Recommended Operating Conditions

• Maximum Operating Pressure	150psi (10 bar) at 77°F (25°C)
• Maximum Feed Flow Rate	
○ 1.8" Diameter Elements	2 gpm
○ 2.5 – 4" Diameter Elements	20 gpm
○ 8" Diameter Elements	80 gpm
• Maximum Operating Temperature	140°F (60°C) at 100 psi
• Chlorine Tolerance	5000 ppm days
• Feed water pH Range, Continuous Operation	2-11
• Feed water pH Range, Short-Term Cleaning (30 mins)	1-13



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-U1812PES	11.75	29.8	10.0	25.4	1.75	4.4
M-U2514PES	14	35.6	11.62	30	2.5	6.4
M-U2521PES	21	53.3	19	48	2.5	6.4
M-U2540PES	40	101.6	38	96	2.5	6.4
M-U4014PES	14	35.6	12	30	3.9	9.9
M-U4021PES	21	53.3	19	48	3.9	9.9
M-U4040PES	40	101.6	38	96	3.9	9.9
M-U(B)4040PESD	40	101.6	N/A	N/A	3.9	9.9
M-UB8040PES 1.125" Permeate Tube	40	101.6	N/A	N/A	7.9	20.1

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Ultrafiltration Membranes – Polyacrylonitrile (PAN)

Performance Specifications

Model No.	Size (Dia."× Length")	Style	Outer Wrap	Molecular Weight Cut-Off (MWCO)
M-U1812PAN	1.75 × 12	Standard	Tape Wrap	20,000
M-U2514PAN	2.5 × 14	Standard	Tape Wrap	20,000
M-U2521PAN	2.5 × 21	Standard	Tape Wrap	20,000
M-U2540PAN	2.5 × 40	Standard	Tape Wrap	20,000
M-U4014PAN	4.0 × 14	Standard	Tape Wrap	20,000
M-U4021PAN	4.0 × 21	Standard	Tape Wrap	20,000
M-U4040PAN	4.0 × 40	Standard	Tape Wrap	20,000
M-U4040PAND	4.0 × 40	Flush-Cut	Tape Wrap	20,000
M-UB4040PAND	4.0 × 40	Flush-Cut	FRP Wrap	20,000
M-UB8040PAN400	8.0 × 40	Flush-Cut, 46 mil	FRP Wrap	20,000

30 mil spacer standard for 2-4" Dia. For 43 mil spacer, add -43 at the end of the model number. Example: M-U2540PAN-43.

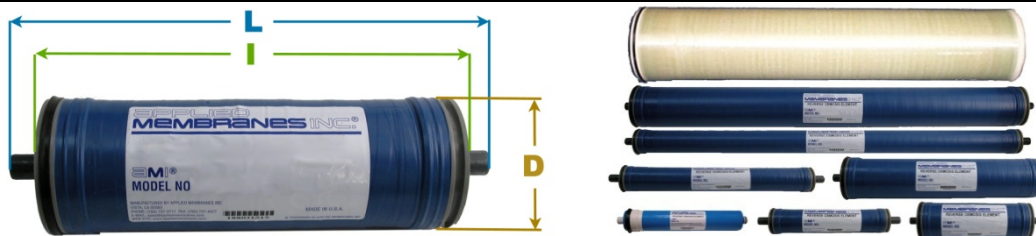
Note: An interconnector is provided with each 8" element, part no. PV-IN810.

Applications

- Fuel Oil/Water Separations
- Gray Water
- Black Water
- Paper/Pulp Wastewater Treatment
- Lignin and Textile Wastewater Cleanup
- Applications Requiring Tolerance to Many Solvents and Oils

Recommended Operating Conditions

• Maximum Operating Pressure	200 psig at 77°F (25°C)
• Maximum Feed Flow Rate	
○ 1.8" Diameter Elements	2 gpm
○ 2.5 – 4" Diameter Elements	20 gpm
○ 8" Diameter Elements	80 gpm
• Maximum Operating Temperature	122°F (50°C)
• Feed water pH Range, Continuous Operation	3-9



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-U1812PAN	11.75	29.8	10.0	25.4	1.75	4.4
M-U2514PAN	14	35.6	11.62	30	2.5	6.4
M-U2521PAN	21	53.3	19	48	2.5	6.4
M-U2540PAN	40	101.6	38	96	2.5	6.4
M-U4014PAN	14	35.6	12	30	3.9	9.9
M-U4021PAN	21	53.3	19	48	3.9	9.9
M-U4040PAN	40	101.6	38	96	3.9	9.9
M-U(B)4040PAND	40	101.6	N/A	N/A	3.9	9.9
M-UB8040PAN400 1.125" Permeate Tube	40	101.6	N/A	N/A	7.9	20.1

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Hollow Fiber Ultrafiltration Membrane Elements

- Ideal for Pre-Treatment to Reverse Osmosis
- Can be used in Standard RO Housing with Filtrate Connector Kit (sold separately)
- Reliable Rejection of Microorganisms and Viruses
- Excellent Quality of Filtrate
- Easy Installation and Handling
- Housing, Filtrate Tube, Filtrate Connectors: PVC-U, White
- Maximum Trans-membrane Pressure†: 43.5 psi (3 bar)
- Temperature Range: 32°F to 104°F (0°C to 40°C)



Part Number	Size (Dia. x Length)	Membrane Type	Est. Flow† (gpd)		Membrane Area	
			Min	Max	sq. ft	m²
M-U2514HF09	2.5" x 14"	Hollow Fiber 0.9	108	324	5.4	0.5
M-U2521HF09	2.5" x 21"	Hollow Fiber 0.9	220	660	11.0	1.0
M-U4021HF15	4" x 21"	Hollow Fiber 1.5	388	1,164	19.4	1.8
M-U4021HF09	4" x 21"	Hollow Fiber 0.9	540	1,620	27.0	2.5
M-U4040HF15	4" x 40"	Hollow Fiber 1.5	860	2,580	43.0	4.0
M-U4040HF09	4" x 40"	Hollow Fiber 0.9	1,300	3,900	65.0	6.0

†Design Notes:

1. Individual UF modules can be configured in parallel to provide increased system capacities.
2. The individual UF module flow ranges depend upon the source water quality and pretreatment. Consult with AMI for specific design flow rates for a specific application.
3. To avoid mechanical damage, do not subject the membrane to sudden temperature changes (>1°C/min) or water hammer

Filtrate Connectors for UF Membranes

Our hollow fiber UF membranes can be used in standard housings with the appropriate Filtrate Connector Kit as listed below. Please choose the appropriate connector kits below to adapt the hollow fiber elements to the vessel you will be using. (Two connectors are required per pressure vessel.)

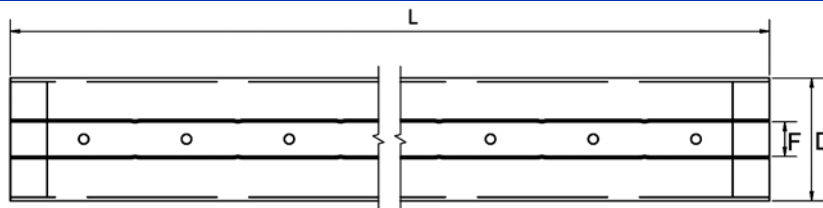
Part Number	For HF UF Membrane	For Pressure Vessel
FC25	2.5" Diameter (M-&2514HF09 & M-U2521HF09)	Standard AMI/FilmTec Style 2.5" Dia. †
AD-40HF	4" Diameter (M-U4021HF* & M-U4040HF*)	Standard AMI/FilmTec Style 4" Dia. †
FC40	4" Diameter (M-U4021HF* & M-U4040HF*)	Special UF HF Vessel with 3/4" Filtrate Ports‡

Pressure Vessels for Use with UF HF Membranes

For 4" Diameter elements, a specialty vessel with a larger filtrate port is available to reduce pressure drop. These are special order items and may not be in stock. †For standard vessels, please refer to section 2 of our catalog.

Part Number	Description
PV4021HF	PVC Pressure Vessel with 3/4" Filtrate Port for 4" x 21" HF UF Membrane (Qty. 2 - FC40 Required)
PV4040HF	PVC Pressure Vessel with 3/4" Filtrate Port for 4" x 40" HF UF Membrane (Qty. 2 - FC40 Required)

Membrane Element Dimensions



Model No.	Length (L)		Diameter (D)		Filtrate Connection ID (F)		Shipping Weight (Wet)
	inches	mm	inches	mm	inches	mm	
M-U2514HF09	11.8	300 ± 1.5	2.40	61	0.67	17.0	0.9 lbs
M-U2521HF09	18.7	475 ± 1.5	2.40	61	0.67	17.0	1.6 lbs
M-U4021HF15, 09	18.7	475 ± 1.5	3.94	100	1.12	28.4	5.0 lbs
M-U4040HF15, 09	37.8	960 ± 1.5	3.94	100	1.12	28.4	10 lbs

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Polyvinylidene Fluoride (PVDF) MF & UF Elements

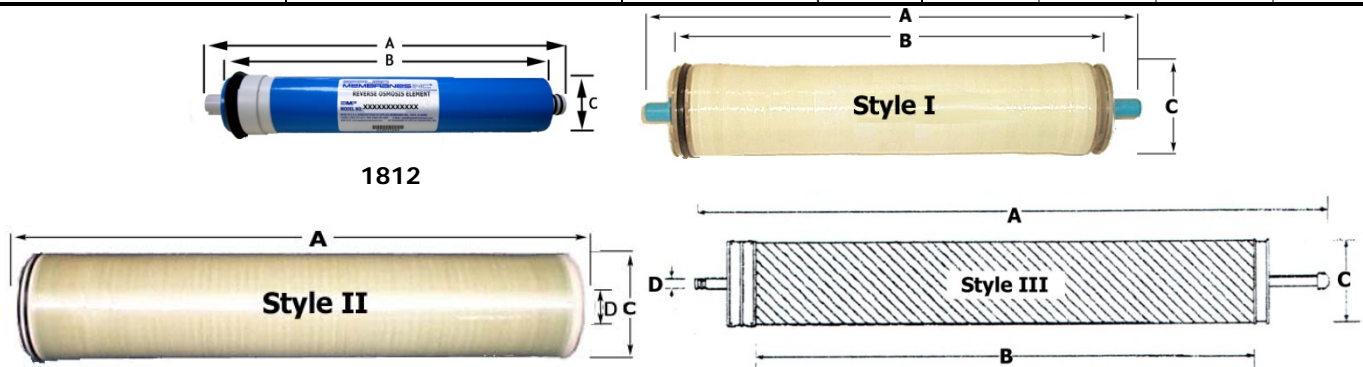
MICROFILTRATION (MF) PVDF – 0.2 Micron for Waste Water, Oily Water & Clarification.

Model No.	Size (Dia."× Length")	Style (From Below)	Outer Wrap	Dimensions (inches)			
				A	B	C	D
M-MB2521VDF	2.5 × 21	I	FRP Wrap	21	19	2.5	0.75
M-MB2540VDF	2.5 × 40	I	FRP Wrap	40	38	2.5	0.75
M-MB4021VDF	4.0 × 21	I	FRP Wrap	21	19	3.9	0.75
M-MB4040VDF	4.0 × 40	I	FRP Wrap	40	38	3.9	0.75

30 mil spacer standard for 2-4" Dia. For 43 mil spacer, add -43 at the end of the model number. Example: M-M2540VDF-43.

ULTRAFILTRATION (UF) PVDF – Electrocoat Elements

Model No.	Style (From Below)	Outer Wrap	Dimensions (inches)			
			A	B	C	D
M-U4028VDF-D400	II	FRP Wrap	28	N/A	4.0	0.62
M-U4033VDF-D400	II	FRP Wrap	33	N/A	4.0	0.62
M-U7640VDF-D400	II	FRP Wrap	40	N/A	7.4	1.285
M-U7638VDF-D400	III	FRP Wrap	38	33	7.4	1.66
M-U7641VDF-D400	III	FRP Wrap	40.5	33	7.4	1.66
M-U7648VDF-D400	III	FRP Wrap	47.5	40	7.4	1.66



Recommended Operating Conditions

• Maximum Operating Pressure (MF)	200 psig at 77°F (25°C)
• Maximum Operating Pressure (UF)	50 psig
• Maximum Feed Flow Rate	
○ 4" Diameter Elements	20-25 gpm
○ 5.6" Diameter Elements	40-70 gpm
○ 7.6" Diameter Elements	50-110 gpm
• Feed water pH Range, Continuous Operation	2-12
• Feed water pH Range, Short-Term Cleaning	1-11

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Microfiltration Elements – Polysulfone (PS)

Performance Specifications

Model No.	Size (Dia."× Length")	Style	Outer Wrap	Molecular Weight Cut-Off (MWCO)
M-M1812PS20	1.75 × 12	Standard	Tape Wrap	20,000
M-M2514PS20	2.5 × 14	Standard	Tape Wrap	20,000
M-M2521PS20	2.5 × 21	Standard	Tape Wrap	20,000
M-M2540PS20	2.5 × 40	Standard	Tape Wrap	20,000
M-M4014PS20	4.0 × 14	Standard	Tape Wrap	20,000
M-M4021PS20	4.0 × 21	Standard	Tape Wrap	20,000
M-M4040PS20-D	4.0 × 40	Flush-Cut	Tape Wrap	20,000
M-MB4040PS20D	4.0 × 40	Flush-Cut	FRP Wrap	20,000
M-MB8040PS20	8.0 × 40	Flush-Cut, 46 mil	FRP Wrap	20,000

30 mil spacer standard for 2-4" Dia. For 43 mil spacer, add -43 at the end of the model number. Example: M-M2540PS20-43.

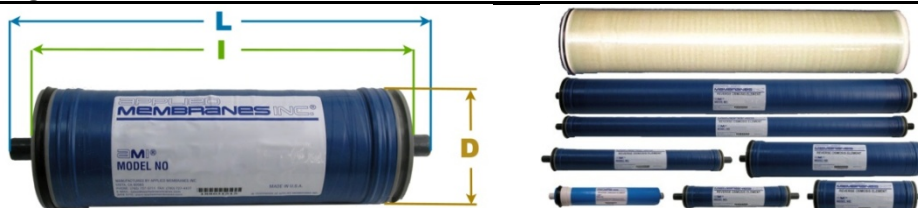
Note: An interconnector is provided with each 8" element, part no. PV-IN810.

Applications

- Post-Treatment of ultrapure water
- Removal of suspended solids
- Process steam clarification, such as sugar solutions

Recommended Operating Conditions

- Maximum Feed Flow Rate
 - 1.8" Diameter Elements 2 gpm
 - 2.5 – 4" Diameter Elements 20 gpm
 - 8" Diameter Elements 80 gpm
- Maximum Operating Temperature 122°F (50°C)
- Chlorine Tolerance 5,000+ ppm days
- Feed water pH Range, Continuous Operation 2-11
- Feed water pH Range, Short-Term Cleaning (30 min) 2-11.5
- Performance Challenge Material and Pressure Polyethylene Glycol @ 30 psig



4 × 14 Shown for Dimensions, Actual Membrane Appearance Varies per Size.

Model No.	L		I		D	
	inches	centimeters	inches	centimeters	inches	centimeters
M-M1812PS20	11.75	29.8	10.0	25.4	1.75	4.4
M-M2514PS20	14	35.6	11.62	30	2.5	6.4
M-M2521PS20	21	53.3	19	48	2.5	6.4
M-M2540PS20	40	101.6	38	96	2.5	6.4
M-M4014PS20	14	35.6	12	30	3.9	9.9
M-M4021PS20	21	53.3	19	48	3.9	9.9
M-M4040PS20	40	101.6	38	96	3.9	9.9
M-M(B)4040PS20D	40	101.6	N/A	N/A	3.9	9.9
M-MB8040PS20 1.125" Permeate Tube	40	101.6	N/A	N/A	7.9	20.1

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Residential Tap Water Thin Film Elements



Models listed on this page are Tested and Certified to ANSI/NSF Standard 58.

Performance Specifications

Model No.	Permeate Flow Rate†		Size (Dia."× Length")	Applied Pressure (psi)	Stabilized Salt Rejection (%)*†
	gpd	lpd			
TW30-1812-24	24	91	1.8 × 12	50	98
TW30-1812-36	36	136	1.8 × 12	50	98
TW30-1812-50	50	190	1.8 × 12	50	98
BW60-1812-75*	75	284	1.8 × 12	50	99
TW30-1812-100	100	379	1.8 × 12	50	90

- Permeate flow and salt rejection based on the following test conditions: 250 ppm softened tap water, 77°F (25°C), 15% recovery and the specified applied pressure.
- Minimum salt rejection is 96.0%. (BW60-1812-75 minimum is 97.0%)
- Permeate flows for individual elements may vary +/-20%.
- Product specifications may vary slightly as improvements are implemented.
- For ease of installation, element O-rings have been pre-lubricated with glycerin.



*BW60-1812-75 replaces TW30-1812-75, offering higher rejection as well as longer life in high hardness applications.

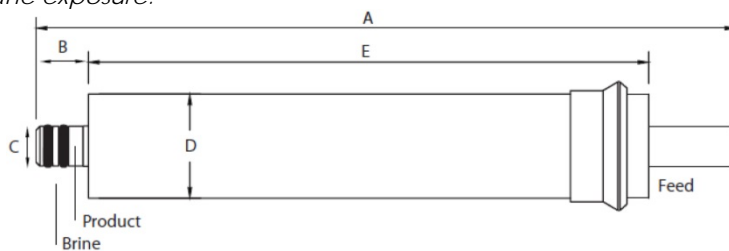
Operating Limits

• Membrane Type	Polyamide Thin-Film Composite
• Maximum Operating Temperature	113°F (45°C)
• Maximum Operating Pressure	150 psig (10 bar)
• Maximum Feed Flow Rate	2 gpm (7.6 lpm)
• Feed water pH Range, Continuous Operation ^a	2-11
• Feed water pH Range, Short-Term Cleaning (30 minutes) ^b	24-75 gpd: 1-12 • 100 gpd: 1-13
• Maximum Feed water Silt Density Index (SDI)	5
• Free Chlorine Tolerance ^c	<0.1 ppm

^a Maximum temperature for continuous operation above pH 10 is 95°F (35°C).

^b Refer to Cleaning Guidelines in specification sheet 609-23010.

^c 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, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure.



Model No.	A		B		C		D		E	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
TW30-1812-24,36	11.74	298	1.17	30	0.68	17	1.75	44.5	9.4	239
TW30-1812-50 & BW60-1812-75	11.74	298	0.87	22	0.68	17	1.75	44.5	9.4	239
TW30-1812-100	11.74	298	0.87	22	0.68	17	1.75	44.5	10.0	254

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Tape Wrapped Elements for Commercial Applications

Standard Membrane Elements (TW30)

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Active Surface Area (Sq. Ft.)	Single Element Recovery (%)	Applied Pressure (psi)	Stabilized Salt Rejection (%)
	gpd	m³/d					
TW30-2026	220	0.83	2.0 × 26	7	10	225	99.5
TW30-2514	200	0.76	2.5 × 14	7	5	225	99.5
TW30-2521	325	1.23	2.5 × 21	13	8	225	99.5
TW30-2540	850	3.2	2.5 × 40	28	15	225	99.5
TW30-4014	525	1.99	4.0 × 14	20	5	225	99.5
TW30-4021	900	3.41	4.0 × 21	36	8	225	99.5
TW30-4040	2400	9.1	4.0 × 40	78	15	225	99.5

Low and Extra Low Energy/Low Pressure Membrane Elements (LP & XLE)

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Active Surface Area (Sq. Ft.)	Single Element Recovery (%)	Applied Pressure (psi)	Stabilized Salt Rejection (%)
	gpd	m³/d					
LP-2540	1000	3.8	2.5 × 40	28	8	145	99.0
LP-4040	2900	11.0	4.0 × 40	78	8	145	99.2
XLE-2521	365	1.38	2.5 × 21	13	10	100	99.0
XLE-2540	850	3.2	2.5 × 40	28	15	100	99.0
XLE-4021	1025	3.88	4.0 × 21	36	5	100	99.0
XLE-4040	2600	9.8	4.0 × 40	87	15	100	99.0

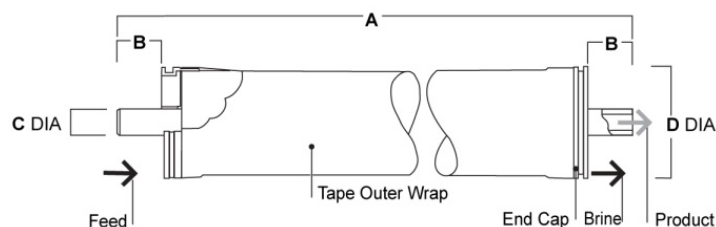
- Permeate flow and salt rejection based on the following test conditions: TW30 2,000 ppm NaCl feed stream XLE & LP 500 ppm NaCl feed stream, 77°F (25°C) and the pressure & recovery rates listed above..
- Permeate flows for individual elements may vary +/-20%. •For the purpose of improvement, specifications may be updated periodically.

Operating Limits

• Membrane Type: Polyamide Thin-Film Composite	• Maximum Feed Water Silt Density Index 5 SDI
• Maximum Operating Temperature 113°F (45°C)	• Free Chlorine Tolerance^c <0.1 ppm
• Feed water pH Range (Continuous)^a 2-11	• Maximum Pressure Drop 13 psig (0.9 bar)
• Feed water pH Range (Cleaning)^b 1-13	• Maximum Operating Pressure 600 psig (41 bar)

^a Maximum temperature for continuous operation above pH 10 is 95°F (35°C). ^b Refer to Cleaning Guidelines in spec sheet 609-23010.

^c 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, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure.



Model No.	Max. Feed Flow Rate		A		B		C		D	
	gpm	m³/hr	inches	mm	inches	mm	inches	mm	inches	mm
TW30-2026	5	1.1	26.0	660	1.18	30	0.68	17	1.8	46
TW30-2514	6	1.4	14.0	356	1.19	30	0.75	19	2.4	61
TW30-2521, XLE-2521	6	1.4	21.0	533	1.19	30	0.75	19	2.4	61
TW30-2540, XLE-2540, LP-2540	6	1.4	40.0	1016	1.19	30	0.75	19	2.4	61
TW30-4014	14	3.2	14.0	356	1.05	27	0.75	19	3.9	99
TW30-4021, XLE-4021	14	3.2	21.0	533	1.05	27	0.75	19	3.9	99
TW30-4040, XLE-4040, LP-4040	14	3.2	40.0	1016	1.05	27	0.75	19	3.9	99

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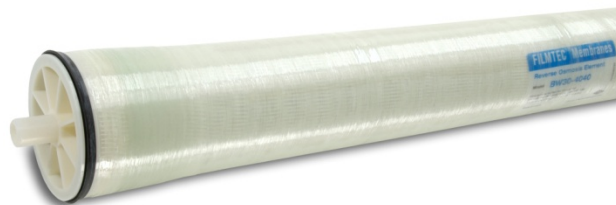
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Fiberglass Elements for Commercial Systems

Fiberglass Wrapped RO Membrane Elements (BW30, LE, LC LE, LC HR)

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Stabilized Salt Rejection (%)
	gpd	m ³ /d					
BW30-2540	850	3.2	2.5 × 40	28	34	225	99.5
BW30-4040	2400	9.1	4 × 40	78	34	225	99.5
LE-4040	2500	9.5	4 × 40	78	28	150	99.0
LC LE-4040	2500	9.5	4.0 × 40	94	15	125	99.1
LC HR-4040	2900	11	4.0 × 40	94	15	225	99.5

- Permeate flow and salt rejection based on the following test conditions: 2,000 ppm NaCl, applied pressure as above, 77°F (25°C) and 15% recovery.
- Permeate flows for individual elements may vary +/-20%.
- For the purpose of improvement, specifications may be updated periodically.
- LE-4040 replaces BW30LE-4040.



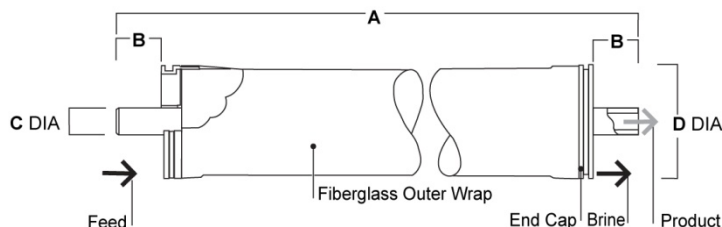
Operating Limits

• Membrane Type	Polyamide Thin-Film Composite
• Maximum Operating Temperature	113°F (45°C)
• Maximum Operating Pressure	600 psig (41 bar)
• Maximum Pressure Drop	15 psig (1 bar)
• Maximum Feed Flow Rate	- 2.5 × 40 Elements: 6 gpm (1.4 m ³ /h) - 4 × 40 Elements: 16 gpm (3.6 m ³ /h)
• Feed water pH Range, Continuous Operation ^a	2-11
• Feed water pH Range, Short-Term Cleaning (30 minutes) ^b	1-13
• Maximum Feed water Silt Density Index (SDI)	5
• Free Chlorine Tolerance ^c	<0.1 ppm

^a Maximum temperature for continuous operation above pH 10 is 95°F (35°C).

^b Refer to Cleaning Guidelines in specification sheet 609-23010.

^c 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, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to technical bulletin 609-22010 for more information.



Model No.	A		B		C		D	
	inches	mm	inches	mm	inches	mm	inches	mm
BW30-2540	40.0	1016	1.19	30	0.75	19	2.4	61
BW30-4040, LE-4040, LC LE-4040, LC HR-4040	40.0	1016	1.05	27	0.75	19	3.9	99

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Brackish Water Elements for Industrial Applications

Brackish Water RO Membrane Elements

FILMTEC BW30 is the element of choice for systems requiring consistently high performance and the highest quality permeate. BW30-400 has more active area for a higher permeate flow; BW30-365 offers a wider feed spacer to maximize element life when treating difficult feed waters.

Model No.	Permeate Flow Rate		Size (Dia."× L")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	m ³ /d						
BW30-365	9,500	36	8"×40"	365	34	225	99.0	99.5
BW30-365-IG*	9,500	36	8"×40"	365	34	225	99.0	99.5
BW30-400	10,500	40	8"×40"	400	28	225	99.0	99.5
BW30-400-IG*	10,500	40	8"×40"	400	28	225	99.0	99.5

*Industrial Grade (IG) elements are designed for use in industrial water treatment applications. They maintain the same flow and rejection performance of the equivalent elements, but do not carry the ANSI standard 61 or KIWA certifications, offering a more cost effective option for industrial applications.

Low Energy and Extra Low Energy Brackish Water RO Membrane Elements

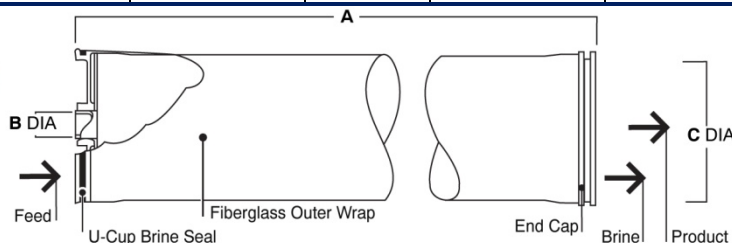
FilmTec Low Energy Brackish Water RO Elements are designed to deliver high quality water at 40-50% lower feed pressure to reduce energy and operating cost in municipal and industrial water applications.

Model No.	Permeate Flow Rate		Size (Dia."× L")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	m ³ /d						
XLE-440	14,000	53	8"×40"	440	28	125	98.0	99.0
LE-400	11,500	44	8"×40"	400	28	150	99.0	99.3

Fouling Resistant RO Membrane Elements

FILMTEC fouling resistant elements are designed to purify water with high biological or organic fouling potential in systems with well-controlled pretreatment and offer superior fouling resistance and clean ability. BW30FR-400 has more active area for higher permeate flow; BW30FR-365 offers a wider feed spacer to maximize cleanability.

Model No.	Permeate Flow Rate		Size (Dia."× L")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	m ³ /d						
BW30FR-400	10,500	40	8"×40"	400	28	225	99.0	99.5
BW30FR-365	9,500	36	8"×40"	365	34	225	99.0	99.5



Model No.	A		B (ID)		C		Interconnector (one included with each element)
	inches	mm	inches	mm	inches	mm	
BW30FR-365, BW30FR-400, LE-400	40	1016	1.125	29	7.9	201	PV-IN810
XLE-440	40	1016	1.500	38	7.9	201	PV-IN810LE

Permeate flow rate and salt rejection shown on this page are based on the following test conditions: 2,000ppm NaCl (500 ppm for XLE), design pressures listed above, 77°F (25°C), and 15% recovery. Permeate flow rates for individual elements may vary +25/-15%. The above specifications are benchmark values. Please be sure to operate according to our system design guidelines. Please see individual products' specification sheet for operating limits and guidelines.

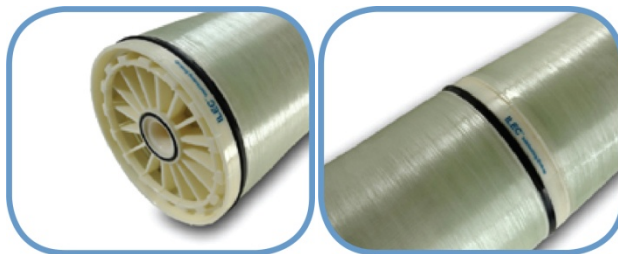
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iLEC™ Interlocking Style Brackish Water Elements

A variety of FILMTEC elements are now available with iLEC interlocking end caps, an innovative element coupling technology that significantly enhances the performance of RO systems. Instead of using interconnectors to couple membranes end-to-end within a vessel, interlocking end caps twist directly together, reducing the number of sealing surfaces to a single axially compressed O-ring. The design reduces the potential for seal leakage, enabling sustained higher quality permeate, and reduces energy-consuming flow resistance, resulting in lower operating costs.



Interlocking Brackish Water Elements

FILMTEC BW30 is the element of choice for systems requiring consistently high performance and the highest quality permeate. BW30-440i has more active area for a higher permeate flow; BW30-400/34i offers a wider feed spacer to maximize element life when treating difficult feed waters. BW30HR-440i is a high productivity, high rejection RO membrane, with 99.7% Stabilized Salt Rejection, as well as stabilized rejection of 85% Boron, 99% NH₄⁺, 98.5% NO₃⁻, and 99.9% SiO₂.

Model No.	Permeate Flow Rate		Size (Dia." × L")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	m ³ /d						
BW30-400/34i	10,500	40	8" × 40"	400	34	225	99.0	99.5
BW30-440i	11,500	43	8" × 40"	440	28	225	99.0	99.5
BW30HR-440i	12,650	48	8" × 40"	440	28	225	99.4	99.7

Interlocking Low Energy Brackish Water Elements

FilmTec Low Energy Brackish Water RO Elements are designed to deliver high quality water at 40% lower feed pressure to reduce energy and operating cost in municipal and industrial water applications.

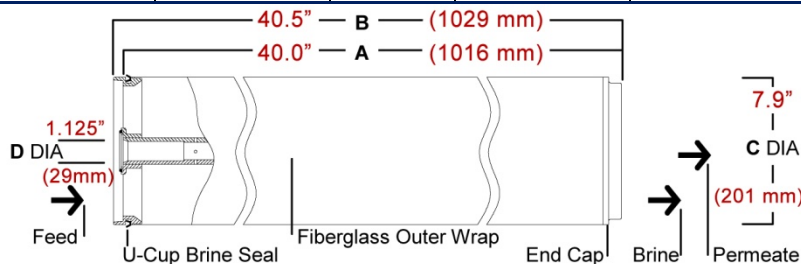
Model No.	Permeate Flow Rate		Size (Dia." × L")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	m ³ /d						
LE-440i	12,650	48	8" × 40"	440	28	150	99.0	99.3
HRLE-440i	12,650	48	8" × 40"	440	28	150	99.5	99.3

Interlocking Fouling Resistant Elements

FILMTEC fouling resistant elements are designed to purify water with high biological or organic fouling potential in systems with well-controlled pretreatment and offer superior fouling resistance and cleanability. BW30XFR-400/34i is a high productivity, high rejection RO membrane, with 99.65% Stabilized Salt Rejection, as well as stabilized rejection of 80% Boron, 98.8% NH₄⁺, 98.2% NO₃⁻, and 99.8% SiO₂.

Model No.	Permeate Flow Rate		Size (Dia." × L")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	gpd	m ³ /d						
BW30XFR-400/34i	11,500	44	8" × 40"	400	34	225	99.4	99.65
BW30FR-400/34i	10,500	40	8" × 40"	400	34	225	99.0	99.50
XFRLE-400/34 i	11,500	44	8" × 40"	400	34	225	99.4	99.2

Permeate flow rate and salt rejection shown on this page are based on the following test conditions: 2,000ppm NaCl, design pressures listed above, 77°F (25°C), and 15% recovery. Permeate flow rates for individual elements may vary +25/-15%. The above specifications are benchmark values. Please be sure to operate according to our system design guidelines. See product specifications sheets for operating limits and guidelines.



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Seawater RO Elements for Marine Systems

Designed to convert Seawater to Drinking Water in land and sea-based desalinators, the improved FILMTEC seawater reverse osmosis elements offer the highest productivity while maintaining excellent salt rejection in seawater desalination systems. FILMTEC seawater RO Elements can be used in water makers for seawater desalination in shipboard applications.



Performance Specifications

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Active Surface Area (Sq. Ft.)	Single Element Recovery (%)	Applied Pressure (psi)	Stabilized Salt Rejection (%)
	gpd	m ³ /d					
SW30-2514	150	0.6	2.5" × 14"	6.5	2	800	99.4
SW30-2521	300	1.1	2.5" × 21"	13	4	800	99.4
SW30-2540	700	2.6	2.5" × 40"	29	8	800	99.4
SW30-4021	800	3.0	4.0" × 21"	33	4	800	99.4
SW30-4040	1,950	7.4	4.0" × 40"	80	8	800	99.4

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Active Surface Area (Sq. Ft.)	Single Ele. Rec. (%)	Applied Pressure (psi)	Salt Rejection (%)		Stabilized Boron Rej. (%)
	gpd	m ³ /d					Stabilized	Min.	
SW30HRLE-4040	1,600	6.1	4.0" × 40"	85	8	800	99.7	99.6	91.0

Note: SW30HRLE-4040 RO Element is a four inch diameter version of SW30HRLE-400 and may also be used as a pilot element to demonstrate performance for the design of larger systems.

Permeate flow and salt rejection based on the following test conditions: 32,000 ppm NaCl feed stream (5ppm Boron, SW30HRLE), 77°F (25°C) and the pressure & recovery rates listed above. Permeate flows for individual elements may vary +/-20%.

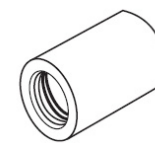
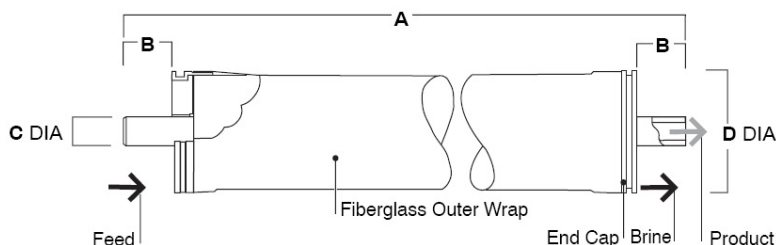
For the purpose of improvement, specifications may be updated periodically.

Operating Limits

• Membrane Type:	Polyamide Thin-Film Composite	• Maximum Feed Water Silt Density Index	5 SDI
• Maximum Operating Temperature	113°F (45°C)	• Free Chlorine Tolerance ^c	<0.1 ppm
• Feed water pH Range (Continuous) ^a	2-11	• Maximum Pressure Drop	15 psig (1 bar)
• Feed water pH Range (Cleaning) ^b	1-13	• Maximum Operating Pressure	1,000 psig (69 bar) (SW30HRLE: 1,200 psig)

^a Maximum temperature for continuous operation above pH 10 is 95°F (35°C). ^b Refer to Cleaning Guidelines in spec sheet 609-23010.

^c 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, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please see individual products' specification sheet for operating limits and guidelines



FilmTec sells coupler part number 89055 for use in multiple element housings. Each coupler includes two 2-210 EPR O-rings, FilmTec part number 89255.

Model No.	Max. Feed Flow Rate		A		B		C		D	
	gpm	m ³ /hr	inches	mm	inches	mm	inches	mm	inches	mm
SW30-2514	6	1.4	14.0	356	1.19	30	0.75	19	2.4	61
SW30-2521	6	1.4	21.0	533	1.19	30	0.75	19	2.4	61
SW30-2540	6	1.4	40.0	1016	1.19	30	0.75	19	2.4	61
SW30-4021	14	3.2	21.0	533	1.05	27	0.75	19	3.9	99
SW30-4040, SW30HRLE-4040	14	3.2	40.0	1016	1.05	27	0.75	19	3.9	99

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Seawater RO Elements for Industrial Systems

Performance Specifications

- SW30HR-380 delivers high boron rejection.
- SW30HRLE-400 offers highest capacity available.
- SW30-8040 & SW30-6040 seawater desalination reverse osmosis elements for marine applications.

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Salt Rejection (%)		Stabilized Boron Rej. (%)
	gpd	m³/d					Stabilized	Min.	
SW30HR-380	6,000	23	8"×40"	380	28	800	99.70	99.6	92.0
SW30HRLE-400	7,500	28	8"×40"	400	28	800	99.75	99.6	91.0
SW30-6040	2,100	8	6"×40"	N/A	34	800	99.40	99.0	N/A

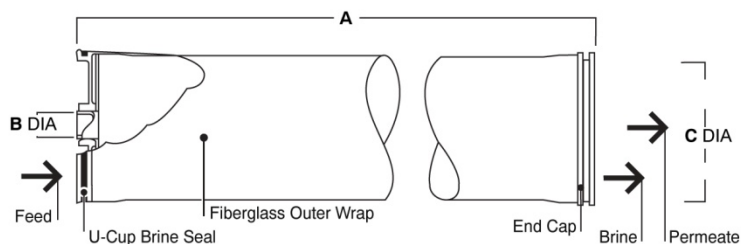
The above values are normalized to the following test conditions: 32,000 ppm NaCl, 5 ppm Boron (SW30HR-380), 800 psi (5.5 MPa), 77°F (25°C), pH 8 and 8% recovery. Permeate flow rates for individual elements may vary +/-15%. Sales specifications may vary as design revisions take place.

Recommended Operating Conditions

• Membrane Type: Polyamide Thin-Film Composite	• Maximum Feed Water Silt Density Index 5 SDI
• Maximum Operating Temperature 113°F (45°C)	• Free Chlorine Tolerance^c <0.1 ppm
• Feed water pH Range (Continuous)^a 2-11	• Maximum Pressure Drop 15 psig (1 bar)
• Feed water pH Range (Cleaning)^b 1-13	• Maximum Operating Pressure 1,000 psig (69 bar) (SW30HRLE: 1,200 psig)

^a Maximum temperature for continuous operation above pH 10 is 95°F (35°C). ^b Refer to Cleaning Guidelines in spec sheet 609-23010.

^c 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, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please see individual products' specification sheet for operating limits and guidelines



Model No.	A		B		C	
	inches	mm	inches	mm	inches	mm
SW30HR-380	40	1,016	1.125	29	7.9	201
SW30HRLE-400	40	1,016	1.125	29	7.9	201
SW30-6040	40	1,016	1.27	32.3	5.97	151.6

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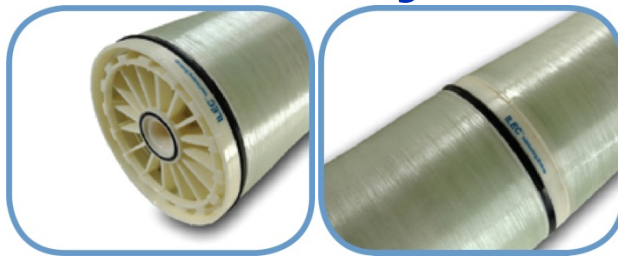


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iLEC™ Seawater RO Elements for Industrial Systems

A variety of FILMTEC seawater desalination elements are now available with iLEC interlocking end caps, an innovative element coupling technology that significantly enhances the performance of RO systems. Instead of using interconnectors to couple membranes end-to-end within a vessel, interlocking end caps twist directly together, reducing the number of sealing surfaces to a single axially compressed O-ring. The design reduces the potential for seal leakage, enabling sustained higher quality permeate, and reduces energy-consuming flow resistance, resulting in lower operating costs.



iLEC Interlocking Style Seawater Membranes

- SW30 offers 34 mil feed spacer to lessen the impact of fouling
- SW30XLE offers high productivity and low energy requirements
- SW30ULE offers highest productivity available
- SW30HRLE offers high NaCl and boron rejection
- SW30HR highest boron rejection

Model No.	Permeate Flow Rate		Size (Dia."× Length")	Active Surface Area (Sq. Ft.)	Feed Spacer Thickness (mil)	Applied Pressure (psi)	Salt Rejection (%)		Stabilized Boron Rej. (%)
	gpd	m ³ /d					Stabilized	Min.	
SW30XLE-400 <i>i</i>	9,000	34	8"×40"	400	28	800	99.80	99.65	88
SW30XLE-440 <i>i</i>	9,900	38	8"×40"	440	28	800	99.80	99.65	88
SW30ULE-400 <i>i</i>	11,000	42	8"×40"	400	28	800	99.70	99.60	87
SW30ULE-440 <i>i</i>	12,000	45	8"×40"	440	28	800	99.70	99.60	89
SW30HRLE-370/34 <i>i</i>	6,700	25	8"×40"	370	34	800	99.80	99.65	92
SW30HRLE-400 <i>i</i>	7,500	28	8"×40"	400	28	800	99.80	99.65	92
SW30HRLE-440 <i>i</i>	8,200	31	8"×40"	440	28	800	99.80	99.65	92
SW30XHR-400 <i>i</i>	6,000	23	8"×40"	400	28	800	99.82	99.70	93

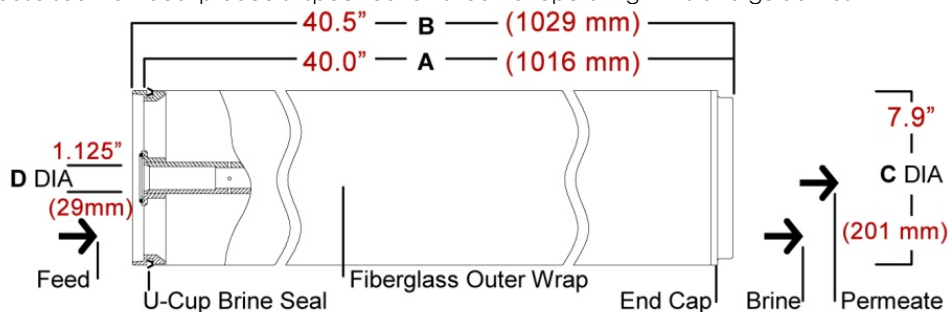
The above benchmark values are based on the following test conditions: 32,000 ppm NaCl, 5 ppm Boron, 800 psi (5.5 MPa), 77°F (25°C), pH 8 and 82% recovery. Permeate flows for individual elements may vary +/-15%. Product specifications may vary slightly as improvements are implemented.

Recommended Operating Conditions

• Membrane Type: Polyamide Thin-Film Composite	• Maximum Feed Water Silt Density Index	5 SDI
• Maximum Operating Temperature	• Free Chlorine Tolerance ^c	<0.1 ppm
• Feed water pH Range (Continuous) ^a	• Maximum Pressure Drop	15 psig (1 bar)
• Feed water pH Range (Cleaning) ^b		

^a Maximum temperature for continuous operation above pH 10 is 95°F (35°C). ^b Refer to Cleaning Guidelines in spec sheet 609-23010.

^c 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, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please see individual products' specification sheet for operating limits and guidelines



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Full Fit & Heat Sanitizable Membrane Elements

DOW FilmTec's full-fit configuration minimizes stagnant areas and is an ideal choice for applications requiring a sanitary design. All components comply with U.S. Food & Drug Administration standards.



- The DOW RO-390-FF product is a premier membrane for evaporator condensate polishing.
- HSRO heat sanitizable reverse osmosis membrane elements deliver exceptional quality water with the added capability to withstand sanitization with hot water.

Model No.	Permeate Flow Rate		Size (Dia. " × Length")	Active Surface Area (Sq. Ft.)	Applied Pressure (psi)	Stabilized Salt Rejection (%)
	gpd	m ³ /d				
RO-4040-FF	2,400	9.1	4"×40"	85	225	99.5
HSRO-4040-FF	1,900	7.2	4"×40"	90	150	99.5
RO-390-FF	10,800	40.9	8"×40"	390	225	99.5
HSRO-390-FF	9,000	34.1	8"×40"	390	150	99.5

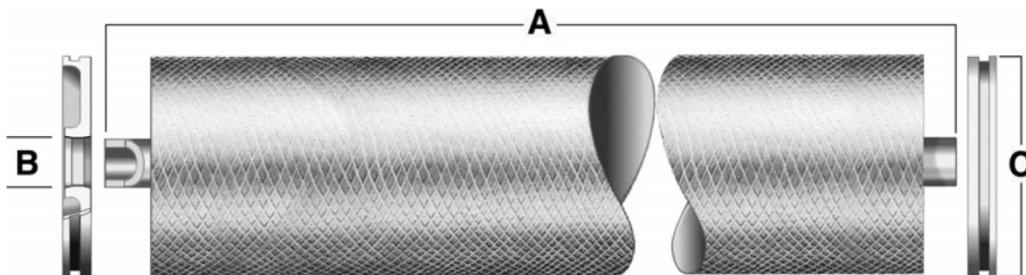
Permeate flow and salt rejection based on the following test conditions: 2,000 ppm NaCl, pressure specified above, 77°F (25°C) and 15% recovery. Elements must be conditioned prior to start-up. A one-time flux loss will occur during stabilization. Listed values apply after performance stabilization. Permeate flows for individual elements may vary +/-20%.

Recommended Operating Conditions

• Membrane Type: Thin-Film Composite	• Maximum Feed Water Silt Density Index 5 SDI
• Maximum Operating Temperature 113°F (45°C)	• Maximum Operating Pressure 600 psig (41 bar)
• Maximum Sanitizing Temp. (HSRO) 185°F (85°C)	• Maximum Pressure Drop 15 psig (1 bar)
• Feed water pH Range (Continuous)^a RO: 3-10 HSRO: 2-11	• Free Chlorine Tolerance^c RO: Below detectable amounts HSRO: <0.1 ppm
• Feed water pH Range (Cleaning)^b 1-12	

^a Maximum temperature for continuous operation above pH 10 is 95°F (35°C). ^b Refer to Cleaning Guidelines in spec sheet 609-23010.

^c 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, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please see individual products' specification sheet for operating limits and guidelines



Model No.	A		B		C	
	inches	mm	inches	mm	inches	mm
RO-4040-FF	40	1,016	0.75	19	3.9	99
HSRO-4040-FF	40	1,016	0.75	19	3.9	99
RO-390-FF	40	1,016	1.125	28.58	7.9	200
HSRO-390-FF	40	1,016	1.125	28.58	7.9	200

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Nanofiltration Membrane Elements

The DOW™ FILMTEC™ NF270 membrane elements are ideal for removing a high percentage of TOC and THM precursors with medium to high salt passage and medium hardness passage. The DOW FILMTEC NF270 membrane is an ideal choice for surface water and ground water where good organic removal is desired with partial softening.

The DOW FILMTEC™ NF90 membrane elements provide high productivity performance while removing a high percentage of salts, nitrate, iron and organic compounds such as pesticides, herbicides and THM precursors. The low net driving pressure of the NF90 membrane allows the removal of these compounds at low operating pressures.



Nanofiltration Elements

Model No.	Permeate Flow Rate		Size (Dia." x Length")	Applied Pressure (psi)	Stabilized Salt Rejection (%)
	gpd	m ³ /d			
NF270-2540	850 ¹	3.2	2.5" x 40"	70	>97.0 ¹
NF90-2540	680 ¹	2.6	2.5" x 40"	70	>97.0 ¹
NF270-4040	2,500 ¹	9.5	4" x 40"	70	>97.0 ¹
NF90-4040	2,000 ¹	7.6	4" x 40"	70	>97.0 ¹
NF270-400	CaCl ₂ : 14,700 ² MgSO ₄ : 12,500 ²	CaCl ₂ : 55.6 ² MgSO ₄ : 47.3 ²	8" x 40"	70	CaCl ₂ : 40-60 ² MgSO ₄ : >97 ²
NF90-400	NaCl: 7,500 ³ MgSO ₄ : 9,500 ³	NaCl: 28.4 ³ MgSO ₄ : 36.0 ³	8" x 40"	70	NaCl: 85-95 ³ MgSO ₄ : > 97 ³

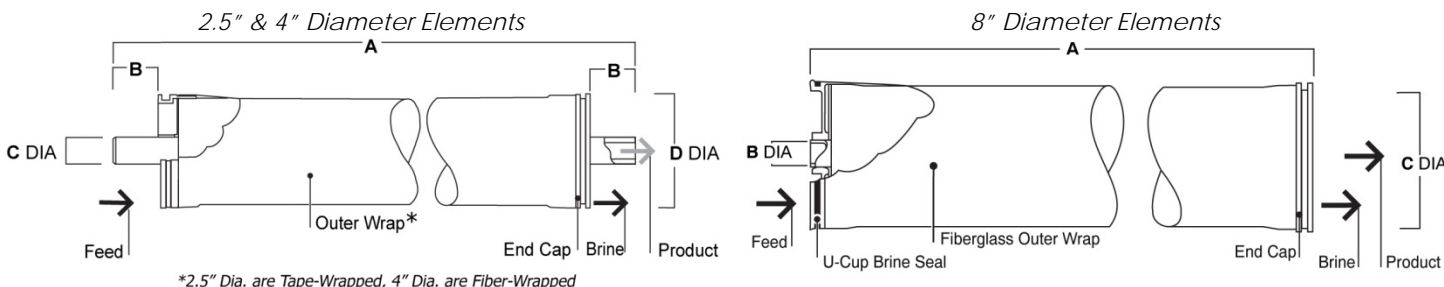
¹ Permeate flow and salt passage based on: 2000 mg/l MgSO₄, 70 psi (0.48 MPa), and 77 °F (25°C) and 15% recovery.

² Permeate flow and salt passage based on: 500 mg/l CaCl₂ or 2000 mg/l MgSO₄, 70 psi (0.48 MPa), 77 °F (25°C), 15% recovery.

³ Permeate flow and salt passage based on: 2,000 mg/l NaCl or 2000 mg/l MgSO₄, 70 psi (0.48 MPa), 77 °F (25°C), 15% recovery.

Recommended Operating Conditions

• Membrane Type: Polyamide Thin-Film Composite	• Maximum Feed Water Silt Density Index SDI 5
• Maximum Operating Temperature 113°F (45°C)	• Free Chlorine Tolerance <0.1 ppm
• Maximum Operating Pressure 600 psig (41 bar)	• Maximum Feed Flow: 2.5" Dia.: 6 gpm 4" Dia.: 16 gpm 8" Dia.: 7 gpm
• Feed water pH Range (Continuous) 2.5 & 4" Dia.: 2-11 8" Dia.: 3-10	• Maximum Pressure Drop 2.5" Dia.: 13 psig (0.9 bar) 4" & 8" Dia.: 15 psig (1.0 bar)
• Feed water pH Range (Cleaning) 2.5 & 4" Dia.: 1-12 8" Dia.: 1-13	



Model No.	A		B		C		D	
	inches	mm	inches	mm	inches	mm	inches	mm
NF270-2540, NF90-2540	40.0	1016	1.19	30	0.75	19	2.4	61
NF270-4040, NF90-4040	40.0	1016	1.05	27	0.75	19	3.9	99

Model No.	A		B		C	
	inches	mm	inches	mm	inches	mm
NF270-400, NF90-400	40	1,016	1.5	38	7.9	201

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Hollow Fiber Ultrafiltration Modules

About DOW™ Ultrafiltration

The DOW™ Ultrafiltration module utilizes a double-walled hollow fiber (capillary) PVDF membrane which has a very small nominal pore diameter for PVDF material that allows for the removal of all particulate matter, bacteria and most viruses and colloids. Despite the small pore diameter, the membrane has a very high porosity resulting in a flux similar to that of micro-filtration (MF) and can effectively replace MF in most cases.

Systems designed with DOW Ultrafiltration use an outside-in flow configuration which allows for less plugging, higher solids loading, higher flow area and easy cleaning. The primary flow design is dead-end filtration but the module can be operated using a concentrate bleed. Dead-end filtration uses less energy and has a lower operating pressure than the concentrate bleed, therefore reducing operating costs.

Typically, DOW Ultrafiltration is operated at a constant permeate flow. The transmembrane pressure (TMP) will naturally increase over time and the module can be cleaned periodically by back flushing and air scouring to remove the fouling layer. Disinfectants and other cleaning agents can be used to fully remove and prevent performance loss due to biological growth as well as other foulants.

DOW™ Ultrafiltration Advantages

- Low fouling Hydrophilic Polyvinylidene fluoride (H-PVDF) membrane
- Excellent filtration performance with high flux
- Durable and break resistant double-walled fiber structure
- High chemical resistance and temperature tolerance for effective membrane cleaning
- Very fine nominal pore diameter (0.03 μm)
- High removal efficiency of bacteria and viruses
- Dead-end or concentrate bleed flow capabilities
- Outside-In flow configuration that allows for less plugging and higher solids loading, higher flow area and easier cleaning
- Can be periodically back washed and air scoured to improve performance and extend operating life by removing the fouling layer
- Simple, vertical, modular design allows low cost, compact systems



DOW™ UF Specifications Ordering Information

Model No.	Size	Flow Range		Membrane Area		Module Volume		Weight-EMPTY		Weight-Water FILLED	
		gpm	m ² /hr	ft ²	m ²	gallons	liters	lbs	kg	lbs	kg
<i>Pretreatment Models</i>											
SFP-2660	6" × 60"	5.9 – 17.3	1.3 – 4.0	355	33	4.2	16	25	55	41	90
SFP-2860	8" × 60"	9.2 – 26.7	2.0 – 6.1	549	51	9.3	35	106	48	183	83
SFP-2880	8" × 80"	3.1 – 9.3	13.6 – 40.9	829	77	10.3	39	135	61	220	100
<i>NSF/ANSI 61 Drinking Water Models</i>											
SFD-2660	6" × 60"	5.9 – 17.3	1.3 – 4.0	355	33	4.2	16	25	55	41	90
SFD-2860	8" × 60"	9.2 – 26.7	2.0 – 6.1	549	51	9.3	35	106	48	183	83
SFD-2880	8" × 80"	3.1 – 9.3	13.6 – 40.9	829	77	10.3	39	135	61	220	100

Recommended Operating Conditions

• Filtrate Flux @ 25°C	24 – 70 gfd (40 – 120 l/m ² /hr)	• NaOCl (max)	2,000 mg/l
• pH, Operating	2-11	• TSS (max)	100 mg/l
• Temperature	34 – 104°F (1 – 40°C)	• Turbidity (max)	300 ntu
• Max. Inlet Module Pressure (@20°C)	93.75 psi (6.25 bar)	• Particle Size (max)	300 μm
• Max. Operating TMP	30 psi (2.1 bar)	• Flow Configuration	Outside In, Dead End Flow
• Max. Operating Air Scour Flow	7.1 scfm (12 Nm ³ /hr)	• Expected Filtrate Turbidity	≤ 0.1 NTU
• Max. Backwash Pressure	36 psi (2.5 bar)	• Expected Filtrate SDI	≤ 2.5

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ESPA® Ultra Low Pressure Membrane Elements

ESPA SERIES – Ultra Low Pressure Brackish Water RO Membranes

- **ESPA1** – High Productivity, energy saving membranes
- **ESPA2-LD** – New technology for higher productivity; minimizes bio-fouling & colloidal fouling; enhanced cleanability
- **ESPA2 MAX** – Highest productivity at the highest rejection level
- **ESPA4-LD & ESPA4 MAX**– Extra Low energy membranes with high productivity & rejection



Model No.	Size (Dia."× Length")	Flow Rate		Test Pressure (psi)	Nominal Salt Rejection (%)	Minimum Salt Rejection (%)
		gpd	m ³ /d			
ESPA-2514	2.5" × 14"	250	0.9	150	99.4	98.0
ESPA-2521	2.5" × 21"	350	1.3	150	99.4	98.0
ESPA-2540	2.5" × 40"	750	2.8	150	99.4	98.0
ESPA-4014	4" × 14"	500	1.9	150	99.4	98.0
ESPA-4021	4" × 21"	1,000	3.8	150	99.4	98.0
ESPA1-4040	4" × 40"	2,600	9.8	150	99.3	99.0
ESPA2-LD-4040	4" × 40"	2,000	7.6	150	99.6	99.4
ESPA4-4040	4" × 40"	2,500	9.5	100	99.2	99.0
ESPA1	8" × 40"	12,000	45.4	150	99.3	99.0
ESPA2-LD	8" × 40"	10,000	37.9	150	99.6	99.5
ESPA2MAX	8" × 40"	12,000	45.4	150	99.6	99.5
ESPA4-LD	8" × 40"	12,000	45.4	100	99.2	99.0
ESPA4MAX	8" × 40"	13,200	50.0	100	99.2	99.0

ESPAB Series – Boron Removal

- Provides a new option for communities where boron levels are naturally high or for manufacturers challenged by boron contamination issues.

Model No.	Size (Dia."× Length")	Flow Rate		Test Pressure (psi)	Salt Rejection (%)		Ave. Boron Rej. (%@10psi)
		gpd	m ³ /d		Nominal	Minimum	
ESPABMAX	8" × 40"	9,000	34.1	150	99.3	99	99.6

Applications

- Municipal Potable and Wastewater Plants
- Bottling Operations
- Light Industrial

Advantages

- 99-99.6% Nominal Rejection
- Lower Pressure for Lower CAPEX-OPEX

Recommended Operating Conditions and Technical Information

• Configuration:	Spiral Wound	• Maximum Feedwater Turbidity	1.0 NTU
• Membrane Polymer:	Composite Polyamide	• Feedwater pH Range:	3-10
• Maximum Chlorine Concentration:	<0.1 ppm	• Maximum Single-Element Recovery Ratio:	5:1
• Maximum Operating Temperature:	113°F (45°C)	• Maximum Single-Element Pressure Drop:	10 psi
• Maximum Feedwater SDI (15 mins):	2.5" Dia. & 4" 14 & 21"L: 4.0 4×40" & 8"×40": 5.0	• Maximum Applied Pressure:	2.5" Dia. & 4" 14 & 21"L: 300 psi 4×40" & 8"×40": 600 psi

Note: Performance specifications based on 1,500 ppm NaCl solution (ESPA4 500 ppm NaCl), 77°F (25°C) feed water temperature, feed water pH 6.5-7, 15% recovery and applied pressures as listed above. Element permeate flow may vary +35% or -15%. See technical literature for extended pH tolerance and additional application data.

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CPA High Rejection Membrane Elements

CPA SERIES – Highest Rejection Brackish Water RO Membranes

CPA (Composite Polyamide) elements set the standard for RO membrane elements – over 600 million gallons per day of pure water are produced by CPA elements for global municipalities and industries.

- **CPA2** – “The Workhorse” Most widely used with consistent performance
- **CPA3** – Best combination of productivity and salt rejection available
- **CPA5-LD Series** – New technology minimizing bio-fouling and colloidal fouling and enhancing cleanability



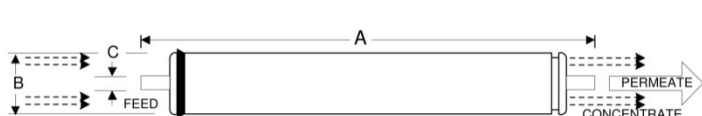
Model No.	Size (Dia."× Length")	Flow Rate		Test Pressure (psi)	Nominal Salt Rejection (%)	Minimum Salt Rejection (%)
		gpd	m ³ /d			
CPA2-4040	4" × 40"	2,250	8.5	225	99.5	99.2
CPA5-LD-4040	4" × 40"	2,100	7.95	225	99.7	99.5
CPA3	8" × 40"	11,000	41.6	225	99.7	99.6
CPA5-LD	8" × 40"	11,000	41.6	225	99.7	99.6
CPA5MAX	8" × 40"	12,000	45.4	225	99.7	99.6

Applications

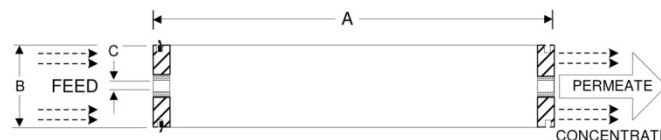
- Desalting of Well Waters – Municipal Drinking Water
- Reducing TDS Prior to Ion Exchange
- Boiler Make-up Water
- Ultrapure Water For Semiconductor Manufacture

Advantages

- 99.7% Nominal Rejection
- High TOC, Silica and Hardness Rejection



4" × 40"



8" × 40"

Model No.	A		B		C	
	inches	mm	inches	mm	inches	mm
CPA2-4040, CPA5-LD-4040	40	1,016	3.95	100.3	0.75	19.1
CPA3, CPA5-LD, CPA5 MAX	40	1,016	7.89	200	1.125	28.6

Recommended Operating Conditions and Technical Information

• Configuration:	Spiral Wound	• Maximum Feedwater Turbidity	1.0 NTU
• Membrane Polymer:	Composite Polyamide	• Maximum Feedwater SDI:	5 (15 min.)
• Maximum Chlorine Concentration:	<0.1 ppm	• Maximum Single-Element Recovery Ratio:	5:1
• Maximum Operating Temperature:	113°F (45°C)	• Maximum Single-Element Pressure Drop:	10 psi
• Feedwater pH Range:	3-10	• Maximum Applied Pressure:	600 psi

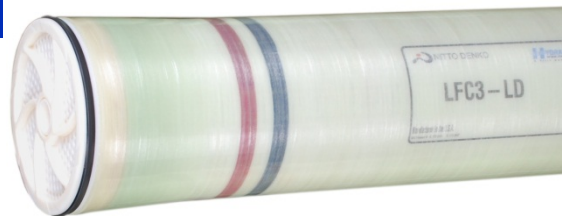
Note: Performance specifications based on 1,500 ppm NaCl solution, 77°F (25°C) feed water temperature, feed water pH 6.5-7, 15% recovery and applied pressures as listed above. Element permeate flow may vary +35% or -15%. See technical literature for extended pH tolerance and additional application data.

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LFC® Low Fouling Membrane Elements

LFC SERIES – Low Fouling Brackish Water RO Elements

LFC® (Low Fouling Composite) elements combine neutral surface charge and hydrophilicity, providing significant reduction in fouling rates and increasing membrane efficiency by restoring nominal performance after cleaning. The LFC3-LD is designed with a thicker brine spacer lowering the Delta P meeting the increased demand for lower fouling membranes that require less frequent cleanings while maintaining a high permeate flow. The LFC3-LD provides 11,000 gallons per day (41.6 m³/d) of flow at 99.7% nominal salt rejection. This membrane is well suited for the treatment of difficult feed waters for numerous municipal and industrial applications, which up to now required significant feed water pretreatment upstream of any composite reverse osmosis membrane.



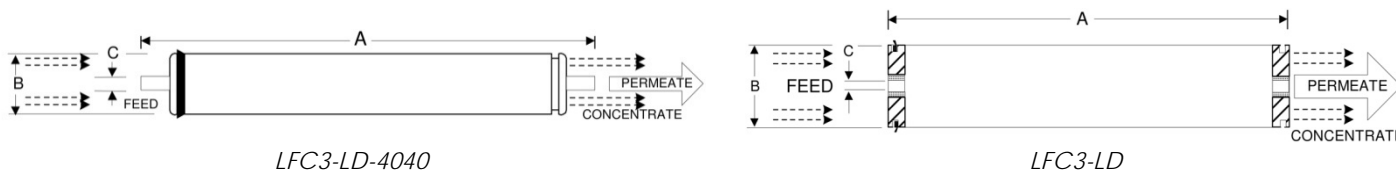
Model No.	Size (Dia."× Length")	Flow Rate		Test Pressure (psi)	Nominal Salt Rejection (%)	Minimum Salt Rejection (%)
		gpd	m ³ /d			
LFC3-LD-4040	4" × 40"	2,100	7.95	225	99.7	99.5
LFC3-LD	8" × 40"	11,000	41.6	225	99.7	99.5

Applications

- Municipal/Industrial surface and waster waters
- Difficult feed waters requiring significant pretreatment

Advantages

- 99.7% Nominal rejection
- Low fouling membrane chemistry reduces or eliminates pre-treatment
- LD technology increases brine spacer thickness for reduced differential pressures
- Lower cleaning frequency and costs



Model No.	A		B		C	
	inches	mm	inches	mm	inches	mm
LFC3-LD-4040	40	1,016	3.95	100.3	0.75	19.1
LFC3-LD	40	1,016	7.89	200	1.125	28.6

Recommended Operating Conditions and Technical Information

• Configuration:	Spiral Wound	• Maximum Feedwater Turbidity	1.0 NTU
• Membrane Polymer:	Composite Polyamide	• Maximum Feedwater SDI:	5 (15 min.)
• Maximum Chlorine Concentration:	<0.1 ppm	• Maximum Single-Element Recovery Ratio:	5:1
• Maximum Operating Temperature:	113°F (45°C)	• Maximum Single-Element Pressure Drop:	10 psi
• Feedwater pH Range:	3-10	• Maximum Applied Pressure:	600 psi

Note: Performance specifications based on 1,500 ppm NaCl solution, 77°F (25°C) feed water temperature, feed water pH 6.5-7, 15% recovery and applied pressures as listed above. Element permeate flow may vary +35% or -15%. See technical literature for extended pH tolerance and additional application data.

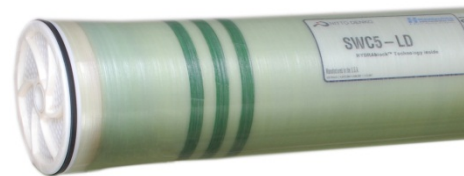
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SWC® Seawater Membrane Elements

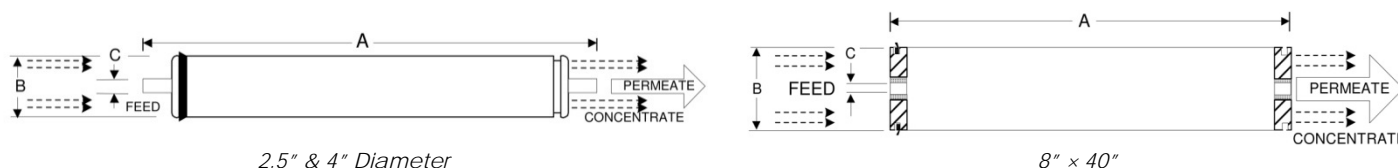
SWC SERIES – Seawater Desalination RO Membranes

SWC seawater desalination elements offer the highest levels of salt rejection and a consistently pure end product. Membrane formulations are designed to accommodate varying levels of seawater salinities worldwide with reliable field-proven performance.

- **SWC4B MAX** – Highest Boron Rejection Available (95% average) †
- **SWC5 MAX, SWC5-LD** – Lower Fouling for Maximum Performance
- **SWC6-4040, SWC6, SWC6 MAX** – Highest Permeate Flow Rate Available with 91% Average Boron Rejection †



Model No.	Size (Dia."× Length")	Flow Rate		Test Pressure (psi)	Nominal Salt Rejection (%)	Minimum Salt Rejection (%)
		gpd	m³/d			
SWC-2514	2.5" × 14"	110	0.4	800	99.4	99.0
SWC-2521	2.5" × 21"	220	0.8	800	99.4	99.0
SWC-2540	2.5" × 40"	520	2.0	800	99.4	99.0
SWC-4014	4" × 14"	370	1.4	800	99.4	99.0
SWC-4021	4" × 21"	640	2.4	800	99.4	99.0
SWC5-LD-4040	4" × 40"	1,750	6.6	800	99.7	99.5
SWC6-4040	4" × 40"	2,500	7.2	800	99.7	99.5
SWC4BMAX	8" × 40"	7,200	27.3	800	99.8	99.7
SWC5-LD	8" × 40"	9,000	34.1	800	99.8	99.7
SWC5MAX	8" × 40"	9,900	37.5	800	99.8	99.7
SWC6	8" × 40"	12,000	45.5	800	99.8	99.7
SWC6MAX	8" × 40"	13,200	50	800	99.8	99.7



2.5" & 4" Diameter

8" × 40"

Model No.	A		B		C		Maximum Feed Flow	
	inches	mm	inches	(gpm)	inches	mm	gpm	m³/h
SWC-2514	14	355.6	2.4	61	0.75	19.1	6	1.4
SWC-2521	21	533.4	2.4	61	0.75	19.1	6	1.4
SWC-2540	40	1,016	2.4	61	0.75	19.1	6	1.4
SWC-4014	14	355.6	3.95	100.3	0.75	19.1	12	2.7
SWC-4021	21	533.4	3.95	100.3	0.75	19.1	12	2.7
SWC – All 4"×40"	40	1,016	3.95	100.3	0.75	19.1	16	3.6
SWC – All 8"×40"	40	1,016	7.89	200	1.125	28.6	75	17.0

Recommended Operating Conditions and Technical Information

• Configuration:	Spiral Wound	• Maximum Feedwater	2.5" Dia. & 4" 14 & 21"L: 4.0
• Membrane Polymer:	Composite Polyamide	SDI (15 mins):	4×40" & 8"×40": 5.0
• Maximum Chlorine Concentration:	<0.1 ppm	• Maximum Single-Element Recovery Ratio:	5:1
• Maximum Operating Temperature:	113°F (45°C)	• Maximum Single-Element Pressure Drop:	10 psi
• Maximum Feedwater Turbidity	1.0 NTU	• Maximum Applied Pressure:	2.5" Dia. & 4" 14 & 21"L: 1,000 psig
• Feedwater pH Range:	2.5" Dia. & 4" 14 & 21"L: 3-10		4×40" & 8"×40": 1,200 psig
	4×40" & 8"×40": 2-11		

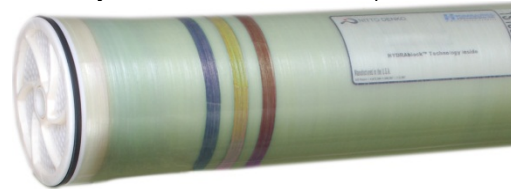
Note: Performance specifications based on 32,000 ppm NaCl solution, 77°F (25°C) feed water temperature, feed water pH 6.5-7, 10% recovery and applied pressures as listed above. Element permeate flow may vary +35% or -15%. See technical literature for extended pH tolerance and additional application data. †When tested at standard conditions with 5.0ppm Boron in feed solution.

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Nanofiltration Membrane Elements

ESNA SERIES – Energy Saving Nanofiltration (NF) Membranes

High performance energy savings ESNA nanofiltration membrane elements are ideal for softening applications and the removal of pesticides, bacteria or viruses. They provide 50%-90% salt rejection with ultra-low-pressure operations, increased energy savings, and significantly lower installation and operating costs. They can effectively remove organics which can form disinfection by-products in municipal water distribution lines. At the Boca Raton plant the THM formation potential was reduced from 0.6 mg/L to less than 0.020 mg/L, well below the 0.042 mg/L limit.



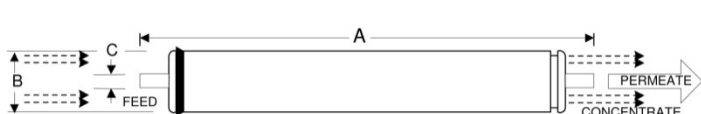
Advantages

- Municipal Water Treatment
- New technology for higher productivity; minimizes bio-fouling and colloidal fouling and enhancing cleanability

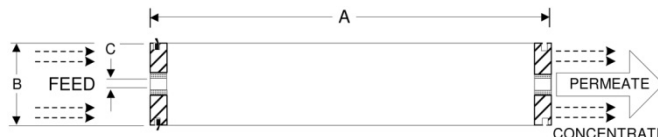
Applications

- Up to 91% nominal rejection
- Effectively removes organics
- Optimum hardness rejection
- Ultra-low pressure, energy saving, lower OPEX

Model No.	Size (Dia."× Length")	Flow Rate		Test Pressure (psi)	Nominal CaCl ₂ Rejection (%)	Minimum CaCl ₂ Rejection (%)
		gpd	m ³ /d			
ESNA1-LF-LD-4040	4" × 40"	1,700	6.4	75	89	86
ESNA1-LF2-LD-4040	4" × 40"	2,000	7.6	75	86	83
ESNA1-LF-LD	8" × 40"	8,200	31.0	75	89	86
ESNA1-LF2-LD	8" × 40"	10,500	39.7	75	86	83



ESNA1-LF-LD-4040 & ESNA1-LF2-LD-4040



ESNA1-LF-LD & ESNA1-LF2-LD

Model No.	A		B		C		Maximum Feed Flow	
	inches	mm	inches	mm	inches	mm	gpm	m ³ /h
ESNA1-LF-LD-4040 & ESNA1-LF2-LD-4040	40	1,016	3.95	100.3	0.75	19.1	16	3.6
ESNA1-LF-LD & ESNA1-LF2-LD	40	1,016	7.89	200	1.125	28.6	75	17

Recommended Operating Conditions and Technical Information

• Configuration:	Spiral Wound	• Maximum Feedwater	LF-LD 5.0
• Membrane Polymer:	Composite Polyamide	SDI (15 mins):	LF2-LD 4.0
• Maximum Chlorine Concentration:	<0.1 ppm	• Maximum Single-Element Recovery Ratio:	5:1
• Maximum Operating Temperature:	113°F (45°C)	• Maximum Single-Element Pressure Drop:	10 psi
• Feedwater pH Range:	2-10	• Maximum Applied Pressure:	600 psi
• Maximum Feedwater Turbidity	1.0 NTU		

Note: Performance specifications based on 500 ppm CaCl solution, 77°F (25°C) feed water temperature, feed water pH 6.5-7, 15% recovery and applied pressures as listed above. Element permeate flow may vary +25% or -25%. See technical literature for extended pH tolerance and additional application data.

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HYDRAcap® Ultrafiltration Modules

HYDRAcap is used to treat surface water, ground water, seawater and waste water as either primary treatment or as pre-treatment to reverse osmosis (RO) and Nano filtration (NF). Compared to conventional pretreatment, HYDRAcap allows higher fluxes for RO and NF systems while maintaining longer intervals between cleanings. In some cases it replaces conventional pretreatment for portable applications, ground water recharging and water recycling.



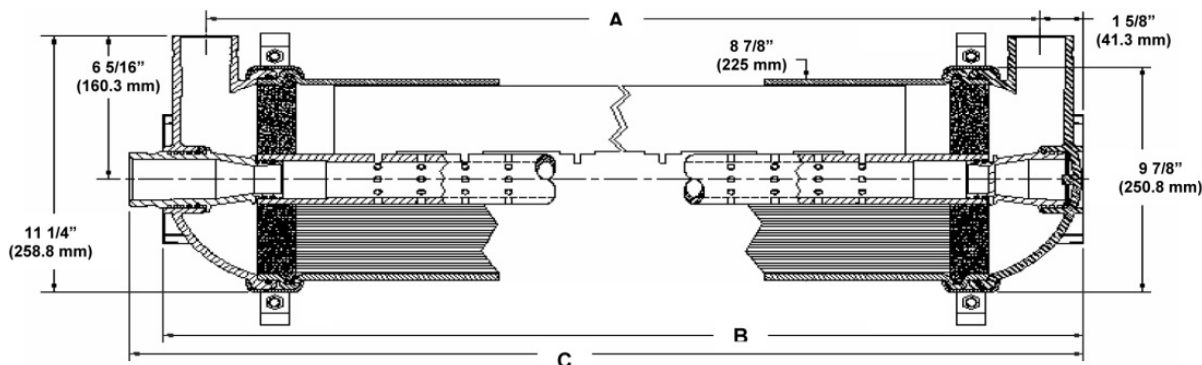
HYDRAcap® Advantages and Performance

- Low fouling hydrophilic polyethersulfone membrane
- Tolerant to chlorine, peroxide and other oxidants.
- Resistant to pH extremes
- Filtrate Turbidity: ≤ 0.07 NTU
- Virus & Bacteria Removal: ≥ 4 log
- TOC Reduction: 5 – 65%
- MWCO, nominal: 150,000 Daltons
- Operating Mode: Inside to Outside Filtration; Direct flow or Crossflow

HYDRAcap and HYDRAcap LD

- The 0.8 mm HYDRAcap is used for surface water applications containing lower turbidities.
- The 1.2 mm HYDRAcapLD offers a 50% larger capillary diameter for a wider range of high fouling applications.

Model No.	Filtrate Flow Rate		Nominal Membrane Area	Number of Fibers	Fiber Dimensions	
	gpm	m ³ /h			ID	OD
HYDRAcap40	7 – 19	1.6 – 4.4	320 ft ²	13,200	0.031" (0.8 mm)	0.051" (1.3 mm)
HYDRAcap40-LD	5 – 12.3	1.1 – 2.8	208 ft ²	5,600	0.047" (1.2 mm)	0.080" (2.0 mm)
HYDRAcap60	11 – 30	2.7 – 6.8	500 ft ²	13,200	0.031" (0.8 mm)	0.051" (1.3 mm)
HYDRAcap60-LD	7.8 – 19	1.8 – 4.3	323 ft ²	5,600	0.047" (1.2 mm)	0.080" (2.0 mm)



Model No.	A		B		C		Pipe Connections	Average Weight	
	inches	mm	inches	mm	inches	mm		lb	kg
HYDRAcap40, 40-LD	43	1092	46 1/8	1172	47 1/4	1200	2" Victaulic	63	28
HYDRAcap80, 60-LD	63	1600	66 1/8	1680	67 1/4	1708	2" Victaulic	97	44

Note: Performance listed is typical module performance for most feedwaters. Typical TOC rejection is 5-15% without coagulant and 40-65% with coagulant. Refer to product specification sheets for application data and typical process conditions.

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Fluid Systems® RO Spiral Membrane Elements

KMS spiral reverse osmosis membranes are recognized for exceptional performance and dependability. TFC membranes excel at desalination as well as removing trace organics and reducing hardness. ROGA membranes are designed for high organic fouling environments, where chlorine may be present and are ideal for high rejection, low-pressure processes where oxidizing agents are a concern.



HR Series – High Rejection Low Pressure Thin Film Elements

Model No.	Size (Dia."× L")	Permeate Flow		Chloride Rejection (%)	Test Pressure (psi)	Overwrap	Membrane Area		Feed Spacer	
		gpd	m³/d				(ft²)	(m²)	mil	mm
2540HR	2.5 × 40	750	2.8	99.40	225	Tape	27	2.5	31	0.8
4040-HR-T	4 × 40	2,270	8.6	99.55	225	Tape	85	7.9	28	0.7
4040-HR	4 × 40	2,270	8.6	99.55	225	Fiberglass	85	7.9	28	0.7
8040-HR-375	8 × 40	10,200	38.6	99.5	225	Fiberglass	375	34.8	31	0.8
8040-HR-400	8 × 40	11,000	41.6	99.5	225	Fiberglass	400	37.2	28	0.7

Test Conditions: 2,000 mg/l NaCl (700mg/l for 2.5") solution at 225 psi (1,550 kPa) applied pressure, 15% recovery, 77°F (25°C) and pH 7.5

XR Series – High Rejection Thin Film Elements

Model No.	Size (Dia."× L")	Permeate Flow		Chloride Rejection (%)	Test Pressure (psi)	Overwrap	Membrane Area		Feed Spacer	
		gpd	m³/d				(ft²)	(m²)	mil	mm
4040-XR	4 × 40	2,200	8.3	99.75	325	Fiberglass	85	7.9	28	0.7
8040-XR-375	8 × 40	9,800	37.1	99.75	325	Fiberglass	375	34.8	31	0.8
8040-XR-400	8 × 40	10,500	39.7	99.75	325	Fiberglass	400	37.2	28	0.7

Test Conditions: 2,000 mg/l NaCl solution at 325 psi (2,240 kPa) applied pressure, 15% recovery, 77°F (25°C) and pH 7.5

ROGA Series – Chlorine Resistant High Rejection Cellulose Acetate RO Elements

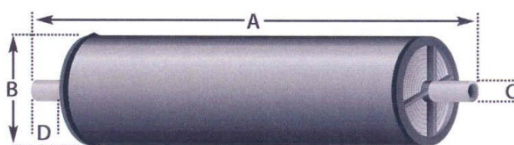
Model No.	Size (Dia."× L")	Permeate Flow		Chloride Rejection (%)	Test Pressure (psi)	Overwrap	Membrane Area		Feed Spacer	
		gpd	m³/d				(ft²)	(m²)	mil	mm
ROGA-4040-HR	4 × 40	1,700	6.4	98.0	420	Fiberglass	80	7.4	31	0.8
ROGA-8040-HR-325	8 × 40	7,100	26.9	98.0	420	Fiberglass	325	30.2	31	0.8

Test Conditions: 2,000 mg/l NaCl solution at 420 psi (2,900 kPa) applied pressure, 15% recovery, 77°F (25°C) and pH 5.7

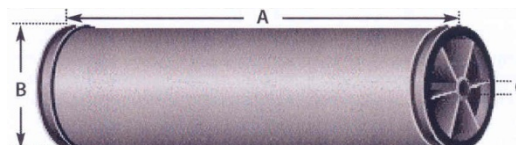
SW Series – Seawater Elements

Model No.	Size (Dia."× L")	Permeate Flow		Chloride Rejection (%)	Test Pressure (psi)	Overwrap	Membrane Area		Feed Spacer	
		gpd	m³/d				(ft²)	(m²)	mil	mm
2540-SW	2.5 × 40	520	2.0	99.5	800	Fiberglass	25	2.3	31	0.8
2540SWHF	2.5 × 40	700	2.6	99.5	800	Fiberglass	25	2.3	31	0.8
4040-SW	4 × 40	1,330	5.0	99.75	800	Fiberglass	74	6.9	31	0.8
8040-SW-335	8 × 40	6,000	22.7	99.75	800	Fiberglass	335	31.1	34	0.9
8040-SW-400	8 × 40	7,200	27.2	99.75	800	Fiberglass	400	37.2	28	0.7

Test Conditions: 32,800 mg/l NaCl solution (isotonic to ASTM standard seawater) at 800 psi (5,520 kPa) applied pressure, 7% recovery, 77°F (25°C) and pH 7.5



HR, XR, SW - 2.5"×40" & 4"×40"



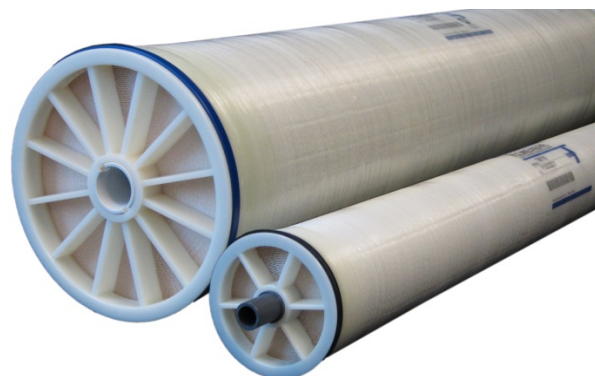
8"×40" & ROGA 4"×40"

Size	A		B		C		D		Weight	
	inches	mm	inches	mm	inches	mm	inches	mm	Lbs	kg
2.5"×40" (All)	40.0	1,016	2.4	61.0	0.75	19.0	1.0	25.4	3.0	1.4
4"×40" (HR, XR, SW)	40.0	1,016	4.0	101.6	0.75	19.0	1.0	25.4	10	4.5
4"×40" ROGA	40.0	1,016	4.0	101.6	0.625	15.9	n/a	n/a	10	4.5
8"×40" (All)	40.0	1,016	8.0	203	1.125	29	n/a	n/a	38	17

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Brackish Water Membrane Elements

- Membrane Type: Cross-linked fully aromatic polyamide composite membrane
- High rejection TM700 series, for high salinity brackish water applications
- Ultra low pressure TMH and TMG series for low salinity brackish water applications
- Low fouling TML series for brackish water applications
- High rejection TM800 series, for sea water applications



TM700 Series – High Rejection Brackish Water RO Elements

Model No.	Size (Dia."× L")	Permeate Flow		Salt Rejection (%)	Test Pressure (psi)	Membrane Area		Feed Spacer	
		gpd	m ³ /d			(ft ²)	(m ²)	mil	mm
TM710	4 × 40	2,400	9.1	99.7	225	87	8	31	0.8
TM720-370	8 × 40	9,500	36.0	99.7	225	370	34	31	0.8
TM720-400	8 × 40	10,200	38.6	99.7	225	400	37	31	0.8
TM720N-400	8 × 40	10,200	38.7	99.7	225	400	37	34	0.9
TM720-440	8 × 40	11,300	42.8	99.7	225	440	41	28	0.7
<i>TM700C – Brackish with 95% Boron Rejection (at pH 10 & 5 ppm Feed)</i>									
TM720C-400	8 × 40	10,200	38.7	99.7	225	400	37	31	0.8
TM720C-440	8 × 40	11,300	42.8	99.7	225	440	41	28	0.7
<i>TM700L – Low Pressure High Rejection Brackish</i>									
TM720L-400	8 × 40	8,500	32.2	99.5	225	400	37	28	0.7
TM720L-440	8 × 40	9,200	34.8	99.5	225	440	41	28	0.7

Test Conditions: 2,000 mg/l NaCl solution at 225 psi (1.55 MPa) applied pressure, 15% recovery, 77°F (25°C) and pH 7. Minimum Salt Rejection is 99%.

TMG Series – Low Pressure Brackish Water RO Elements

Model No.	Size (Dia."× L")	Permeate Flow		Salt Rejection (%)	Test Pressure (psi)	Membrane Area		Feed Spacer	
		gpd	m ³ /d			(ft ²)	(m ²)	mil	mm
TMG10	4 × 40	2,400	9.1	99.5	110	87	8	31	0.8
TMG20-400	8 × 40	10,200	38.6	99.5	110	400	37	28	0.7
TMG20-400C*	8 × 40	10,200	38.6	99.5	110	400	37	31	0.8
TMG20N-400	8 × 40	10,200	38.6	99.5	110	400	37	34	0.9
TMG20N-400C*	8 × 40	10,200	38.6	99.5	110	400	37	34	0.9
TMG20-440	8 × 40	11,300	42.8	99.5	110	440	41	28	0.7
TMG20-440C*	8 × 40	11,300	42.8	99.5	110	440	41	28	0.7

Test Conditions: 500 mg/l NaCl solution at 110 psi (0.76 MPa) applied pressure, 15% recovery, 77°F (25°C) and pH 7. Minimum Salt Rejection is 99%.

*Elements ending in "C" contain 1.125" pwt.

TMH Series – Ultra Low Pressure Brackish Water RO Elements

Model No.	Size (Dia."× L")	Permeate Flow		Salt Rejection (%)	Test Pressure (psi)	Membrane Area		Feed Spacer	
		gpd	m ³ /d			(ft ²)	(m ²)	mil	mm
TMH10A	4 × 40	2,400	9.1	99.3	100	87	8	31	0.8
TMH20A-400	8 × 40	11,000	41.6	99.3	100	400	37	28	0.7
TMH20A-440	8 × 40	11,800	44.7	99.3	100	440	41	28	0.7

Test Conditions: 500 mg/l NaCl solution at 100 psi (0.69 MPa) applied pressure, 15% recovery, 77°F (25°C) and pH 7. Minimum Salt Rejection is 99%.

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Brackish & Seawater Membrane Elements

TML Series – Low Fouling Brackish Water RO Elements

Model No.	Size (Dia." × L")	Permeate Flow		Salt Rejection (%)	Test Pressure (psi)	Membrane Area		Feed Spacer	
		gpd	m ³ /d			(ft ²)	(m ²)	mil	mm
TML10	4 × 40	1,850	7.0	99.7	225	73	7	34	0.9
TML10F	4 × 40	2,200	8.3	99.7	225	87	8	31	0.8
TML20-370	8 × 40	9,500	36.0	99.7	225	370	34	34	0.9
TML20N-400	8 × 40	10,200	38.6	99.7	225	400	37	34	0.9

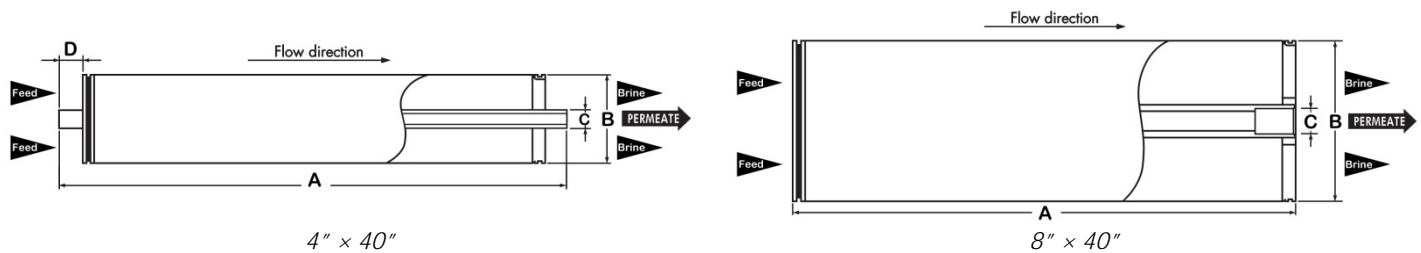
Test Conditions: 2,000 mg/l NaCl solution at 225 psi (1.55 MPa) applied pressure, 15% recovery, 77°F (25°C) and pH 7. Minimum Salt Rejection is 99%.

TM800 Series – Seawater Desalination RO Elements

Model No.	Size (Dia." × L")	Permeate Flow		Salt Rejection (%)	Test Pressure (psi)	Membrane Area		Feed Spacer	
		gpd	m ³ /d			(ft ²)	(m ²)	mil	mm
<i>TM800B – Seawater with High Pressure Capability (Up to 1,400 PSI)</i>									
TM820B-400	8 × 40	5,600	21.2	99.75	800	400	37	31	0.8
<i>TM800C – Seawater with 93% Boron Rejection (at pH8 & 5mg/l feed)</i>									
TM810C	4 × 40	1,200	4.5	99.75	800	73	7	31	0.8
TM820C-370	8 × 40	6,000	22.7	99.75	800	370	34	31	0.8
TM820C-400	8 × 40	6,500	24.6	99.75	800	400	37	28	0.7
<i>TM800E – Energy Saving Seawater with 91% Boron Rejection (at pH8 & 5mg/l feed)</i>									
TM820E-400	8 × 40	7,500	28.3	99.75	800	400	37	28	0.7
<i>TM800F & TM800L – High Flow Seawater Elements</i>									
TM810L	4 × 40	1,900	7.2	99.70	800	73	7	28	0.7
TM810F	4 × 40	2,200	8.3	99.70	800	73	7	31	0.8
TM820F-400	8 × 40	9,000	34.1	99.70	800	400	37	28	0.7
<i>TM800S – High Flow Seawater with 90% Boron Rejection (at pH8 & 5mg/l feed)</i>									
TM820S-400	8 × 40	9,000	34.1	99.75	800	400	37	28	0.7

Test Conditions: 32,000 mg/l NaCl solution at 800 psi (5.52 MPa) applied pressure, 15% recovery, 77°F (25°C) and pH 8. Minimum Salt Rejection is 99.5%.

Dimensions of Toray Membranes



Model No.	A		B		C		D	
	inches	mm	inches	mm	inches	mm	inches	mm
4" × 40" (All)	40	1,016	4	101	0.75	19	1.05	26
8" × 40" Standard	40	1,016	7.9	201	1.50	38	n/a	n/a
8" × 40" "C" (Marked with *)	40	1,016	7.9	201	1.125	29	n/a	n/a

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Inge Hollow Fiber UF Elements

Dizzer XL Modules & T-Rack Integrated

Dizzer® XL Series Ultrafiltration Modules for Large Scale Applications

- Complete Modules – No additional Pressure Housing Required
- Reliable Rejection of Microorganisms and Viruses
- Excellent Quality of Filtrate
- Efficient backwash and simple operation
- No fiber breaks – guaranteed quality
- Ideal for Pre-Treatment to Reverse Osmosis
- Easy Installation and Handling
- Welded Feed Connectors (Modules with filtrate clamps [to use for replacement in existing "old style" installations] are available upon request.)



Part #	Product Name	Size (Dia."× Length")	Membrane Type	Estimated Flow Rate* (gpm)		Membrane Area	
				Min.	Max.	sq. ft	m ²
DIZZERXL38	dizzer XL 0.9 MB 38	9 ⁷ / ₈ " × 46 ¹ / ₂ "	Multibore® 0.9	5.7	17.1	410	38
DIZZERXL25	dizzer XL 1.5 MB 25	9 ⁷ / ₈ " × 46 ¹ / ₂ "	Multibore® 1.5	3.8	11.3	270	25
DIZZERXL60	dizzer XL 0.9 MB 60	9 ⁷ / ₈ " × 66 ¹ / ₈ "	Multibore® 0.9	9.0	26.9	645	60
DIZZERXL40	dizzer XL 1.5 MB 40	9 ⁷ / ₈ " × 66 ¹ / ₈ "	Multibore® 1.5	6.0	17.9	430	40

***Design Notes:**

1. Individual UF modules can be configured in parallel to provide increased system capacities.
2. The individual UF module flow ranges depend upon the source water quality and pretreatment. Consult with AMI for specific design flow rates for a specific application.

Technical Information

- Housing: PVC-U, white with End Cap: PVC-U, grey and SS Coupling (sealing EPDM)
- Maximum pressure* 70 psi (5 bar)
- Temperature Range: 32°F to 104°F (0°C to 40°C)

**To avoid mechanical damage, do not subject the membrane to sudden temperature changes (>1°C/min) or water hammer*

T-Rack® Vario Integrated Module & Rack

AMI Offers Inge T-Rack Vario Racks of Integrated Hollow Fiber UF Membranes in many sizes and configurations. Please contact us with the details of your application for an engineered quotation.

- Integrated module & rack design with integration of feed and drain pipes in module end caps.
- 60% smaller footprint compared to conventional racks.
- Integration of feed and drain pipes in middle
- Modular design enables each T-Rack to be individually configured and tailored to the available floor space. Can be arranged in two or four rows for High flexibility design and no engineering costs.
- Module bodies and filtrate headers with filtrate connections; No O-Rings. Provides high operating reliability.
- All headers have the same nominal diameter and all flange connections are mounted at the same level for simple piping layout and lower installation costs.
- Each row can be operated as a separate filtration line.
- Expandable – more modules can be easily installed at a later date.



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PVC Pressure Vessels

AMI 2.5" Diameter, 200 PSI, U-Pin Style

Description

Attractive 2.5" PVC pressure vessels available for 14", 21" & 40" length membranes. This style is designed for direct connection to **AMI**[®]/Applied Membranes and FILMTEC/DOW style elements.



Configuration

- U-Pin Style
- End Entry

Specifications

- **Maximum Operating Pressure:** 200 PSI (14 BAR)
- **Materials:** Rigid PVC body, PVC end plugs, PVC reinforcement cuff, Stainless steel cuff bands

Pressure Vessels

Model No.	For Membranes				Vessel Dimensions				Connection, FNPT		
	Diameter		Length		Diameter		Length		Feed	Brine	Prod.
	In	cm	In	cm	In	cm	In	cm			
PV2514PVCAU	2.5	6.4	14	35.6	2.5	6.4	19	48.3	1/4"	1/4"	1/4"
PV2521PVCAU	2.5	6.4	21	53.3	2.5	6.4	25.75	65.4	1/4"	1/4"	1/4"
PV2540PVCAU	2.5	6.4	40	101.6	2.5	6.4	45	114.3	1/4"	1/4"	1/4"

Note: Vessels sold complete with End Plugs, U-Pins, Feed Plug and O-Rings. Mounting Pads and Straps not included.

Spare Parts

Model No.	Description	Qty. per Vessel
PV-EP25U	End Plug with O-Rings	2
PV-RR25U1	U-Pin	2
PV-OR40-330	O-Ring for End Plug – External	2
PV-OR40-210	O-Ring for End Plug – Internal	2
3850.002	Plug for Feed End, 1/4" (64 MM)	1



End caps not interchangeable w/SSAU model

WARNING: PVC pressure vessels are limited to a maximum pressure of 200 psi (14 BAR) at 77°F (25°C). Higher pressure, higher temperature or water hammer will lead to a premature failure. It is highly recommended that when these conditions exist, a pressure switch or relief valve be installed to protect the vessel. Alternately, you may consider a stainless steel or FRP vessel.

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PVC Pressure Vessels

AMI 4" Diameter, 200 PSI, U-Pin Style

Description

Attractive 4" PVC pressure vessels available for 21" & 40" length membranes. This style is designed for direct connection to **AMI**[®] / Applied Membranes and FILMTEC/DOW style elements.



Configuration

- U-Pin Style
- End Entry

Specifications

- **Maximum Operating Pressure:** 200 PSI (14 BAR)
- **Materials:** Rigid PVC body, PVC end plugs, PVC reinforcement cuff, Stainless steel cuff bands

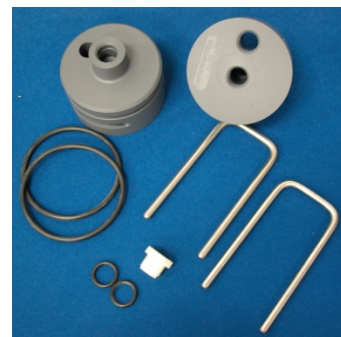
Pressure Vessels

Model No.	For Membranes					Vessel Dimensions				Connection, FNPT		
	Diameter		Length		Qty.	Diameter		Length		Feed	Brine	Prod.
in	cm	in	cm	in		cm	in	cm				
PV4021PWG	4	10.2	21	53.3	1	4	10.2	25.75	65.4	½"	½"	½"
PV4040PWG	4	10.2	40	101.6	1	4	10.2	45	114.3	½"	½"	½"
PV4080PWG	4	10.2	40	101.6	2	4	10.2	85	215.9	½"	½"	½"

Note: Vessels sold complete with End Plugs, U-Pins, Feed Plug and O-Rings. Mounting Pads and Straps not included. Membrane Interconnectors are sold separately.

Spare Parts

Model No.	Description	Qty. per Vessel
PV-EP40PD1212	End Plug with O-Rings, ½" Brine x ½" Prod	2
PV-EP40PD134	End Plug with O-Rings, ¾" Brine x ½" Prod	2
PV-EP40PD1	End Plug with O-Rings, ½" Brine x ¾" Prod	2
PV-RR40U	U-Pin	2
PV-OR40-342	O-Ring for End Plug – External	2
PV-OR40-210	O-Ring for End Plug – Internal	2
3850.005	Plug for Feed End, ½" MNPT	1
3850.003	Plug for Feed End, ¾" MNPT	1



End caps not interchangeable w/SSAU model

WARNING: PVC pressure vessels are limited to a maximum pressure of 200 psi (14 BAR) at 77°F (25°C). Higher pressure, higher temperature or water hammer will lead to a premature failure. It is highly recommended that when these conditions exist, a pressure switch or relief valve be installed to protect the vessel. Alternately, you may consider a stainless steel or FRP vessel.

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Stainless Steel Pressure Vessels

AMI 2" Diameter, 300 PSI, U-Pin Style

Description

Stainless Steel pressure vessels enhance system appearance and allow you to take full advantage of the membrane capability. Safer and more reliable than the PVC pressure vessels. This style is designed for direct connection to **AMI**[®] /Applied Membranes and FILMTEC/DOW style elements.



Configuration

- U-Pin Style
- End Entry

Specifications

- **Maximum Operating Pressure:** 300 PSI (20 BAR)
- **Materials:** 316 Stainless Steel Body, PVC End Plugs, SS U-Pins

Pressure Vessels

Model No.	For Membranes				Vessel Dimensions				Connection, FNPT		
	Diameter		Length		Diameter		Length		Feed	Brine	Prod.
	in	cm	in	cm	In	cm	In	cm			
PV2013SSAU-316	2.0	5.1	13	33.0	2.0	5.0	15.5	39.4	1/8"	1/8"	1/8"
PV2026SSAU-316	2.0	5.1	26	66.0	2.0	5.0	28	71.1	1/8"	1/8"	1/8"

Note: Vessels sold complete with End Plugs, U-Pins, Feed Plug and O-Rings. Mounting Pads and Straps not included.

Spare Parts

Model No.	Description	Qty. per Vessel
PV-EP20SSU2	End Plug with O-Rings	2
PV-RR20U	U-Pin	2
PV-OR20-326	O-Ring for End Plug	4
3850.001	Feed plug, 1/8" for feed end	1



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Stainless Steel Pressure Vessels

AMI 2.5" Diameter, 300 PSI, U-Pin Style

Description

Stainless Steel pressure vessels enhance system appearance and allow you to take full advantage of the membrane capability. Safer and more reliable than the PVC pressure vessels. This style is designed for direct connection to **AMI**[®] /Applied Membranes and FILMTEC/DOW style elements.



Configuration

- U-Pin Style
- End Entry

Specifications

- **Maximum Operating Pressure:** 300 PSI (20 BAR)
- **Materials:** 316 Stainless Steel Body, PVC End Plugs, SS U-Pins

Pressure Vessels

Model No.	For Membranes				Vessel Dimensions				Connection, FNPT		
	Diameter		Length		Diameter		Length		Feed	Brine	Prod.
	in	cm	in	cm	in	cm	in	cm			
PV2514SSAU-316	2.5	6.4	14	35.6	2.5	6.4	16	40.6	1/4"	1/4"	1/4"
PV2521SSAU-316	2.5	6.4	21	53.3	2.5	6.4	22.5	57.2	1/4"	1/4"	1/4"
PV2540SSAU-316	2.5	6.4	40	101.6	2.5	6.4	42	106.7	1/4"	1/4"	1/4"

Note: Vessels sold complete with End Plugs, U-Pins, Feed Plug and O-Rings. Mounting Pads and Straps not included.

Spare Parts

Model No.	Description	Qty. per Vessel
PV-EP25GWD	End Plug with O-Rings, 2 Ports for Product End	1
PV-EP25GWS	End Plug with O-Rings, 1 Port for Feed End	1
PV-RR25U2	U-Pin	2
PV-OR40-330	O-Ring for End Plug – External	2
PV-OR40-210	O-Ring for End Plug – Internal	2



End caps not interchangeable w/PVCAU model

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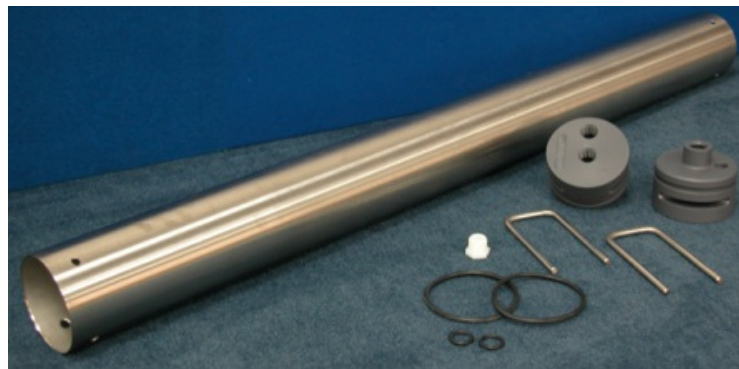
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Stainless Steel Pressure Vessels

AMI 4" Diameter, 300 PSI, U-Pin Style

Description

Stainless Steel pressure vessels enhance system appearance and allow you to take full advantage of the membrane capability. Safer and more reliable than the PVC pressure vessels. This style is designed for direct connection to **AMI**[®] /Applied Membranes and FILMTEC/DOW style elements.



Configuration

- U-Pin Style
- End Entry

Specifications

- **Maximum Operating Pressure:** 300 PSI (20 BAR)
- **Materials:** 316 Stainless Steel Body, PVC End Plugs, SS U-Pins

Pressure Vessels

Model No.	For Membranes					Vessel Dimensions				Connection, FNPT		
	Diameter		Length		Qty.	Diameter		Length		Feed	Brine	Prod.
in	cm	in	cm	in		cm	in	cm				
PV4014SSAU-316	4	10.2	14	35.6	1	4	10.2	19	48.3	1/2"	1/2"	1/2"
PV4021SSAU-316	4	10.2	21	53.3	1	4	10.2	26	66.0	1/2"	1/2"	1/2"
PV4040SSAU-316	4	10.2	40	101.6	1	4	10.2	45	114.3	1/2"	1/2"	1/2"
PV4080SSAU-316	4	10.2	40	101.6	2	4	10.2	85	215.9	1/2"	1/2"	1/2"

Note: Vessels sold complete with End Plugs, U-Pins and O-Rings. Feed Plug, Mounting Pads and Straps not included. Membrane Interconnectors are sold separately.

Spare Parts

Model No.	Description	Qty. per Vessel
PV-EP40PD1212	End Plug with O-Rings, 1/2" Brine x 1/2" Product	2
PV-EP40PD134	End Plug with O-Rings, 3/4" Brine x 1/2" Product	2
PV-EP40PD1	End Plug with O-Rings, 1/2" Brine x 3/8" Product	2
PV-RR40U	U-Pin	2
PV-OR40-342	O-Ring for End Plug – External	2
PV-OR40-210	O-Ring for End Plug – Internal	2
3850.005	Plug for Feed End, 1/2" MNPT	1
3850.003	Plug for Feed End, 3/8" MNPT	1



End caps not interchangeable w/PWG model

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Stainless Steel Pressure Vessels

AMI 2.5" Diameter, 250 PSI, End Clamp Style

Description

End entry stainless steel pressure vessels have a smooth, sleek look. This unique design saves both time and money. Prices are competitive with other stainless steel and FRP pressure vessels. This style is designed for direct connection to **AMI**[®]/Applied Membranes and FILMTEC/DOW style elements.



Configuration

- End Clamp
- End Entry

Specifications

- **Maximum Operating Pressure:** 250 PSI (17 BAR)
- **Materials:** 316 Stainless Steel body, PVC End Plugs, SS Clamps

Pressure Vessels

Model No.	For Membranes				Vessel Dimensions				Connection, FNPT		
	Diameter		Length		Diameter		Length		Feed	Brine	Prod.
	in	cm	in	cm	in	cm	in	cm			
PV2514SSAW-316	2.5	6.4	14	35.6	2.5	6.4	16	40.6	3/8"	3/8"	1/4"
PV2521SSAW-316	2.5	6.4	21	53.3	2.5	6.4	22.5	57.2	3/8"	3/8"	1/4"
PV2540SSAW-316	2.5	6.4	40	101.6	2.5	6.4	42	106.7	3/8"	3/8"	1/4"

Note: Vessels sold complete with End Plugs, End Clamps, and O-Rings. Feed end product port plug, Mounting Pads and Straps not included.

Spare Parts

Model No.	Description	Qty. per Vessel
PV-EPW25PD3814	End Plug with O-Rings, 3/8" Brine x 1/4" Product	2
PV-CL25W	End Clamp, single, with bolts & nuts	2
3850.002	Feed end product port plug, 1/4" MNPT <i>(not included with vessel, sold separately)</i>	1
PV-OR25-329	O-Ring for End Plug – External	2
PV-OR40-210	O-Ring for End Plug – Internal	2



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Stainless Steel Pressure Vessels

AMI 4" Diameter, 300 PSI, End Clamp Style

Description

End entry stainless steel pressure vessels have a smooth, sleek look. This unique design saves both time and money. Prices are competitive with other stainless steel and FRP pressure vessels. This style is designed for direct connection to **AMI**[®]/Applied Membranes and FILMTEC/DOW style elements.



Configuration

- End Clamp
- End Entry

Specifications

- **Maximum Operating Pressure:** 300 PSI (20 BAR)
- **Materials:** 316 Stainless Steel body, PVC End Plugs, SS Clamps

Pressure Vessels

Model No.	For Membranes					Vessel Dimensions				Connection, FNPT		
	Diameter		Length		Qty.	Diameter		Length		Feed	Brine	Prod.
in	cm	in	cm	in		cm	in	cm				
PV4040SSAW-316	4	10.2	40	101.6	1	4	10.2	43.5	110.5	½"	½"	½"
PV4080SSAW-316	4	10.2	40	101.6	2	4	10.2	85	215.9	¾"	¾"	½"

Note: Vessels sold complete with End Plugs, End Clamps, and O-Rings. Feed end product port plug, Mounting Pads and Straps not included. Membrane Interconnectors are sold separately.

Spare Parts

Model No.	Description	Qty. per Vessel
PV-EPW40PD1212	End Plug with O-Rings, ½" Brine x ½" Product	2
PV-EPW40PD3412	End Plug with O-Rings, ¾" Brine x ½" Product	2
PV-CL40W	End Clamp, single, with bolts & nuts	2
3850.005	Feed end product port plug, ½" MNPT <i>(not included with vessel, sold separately)</i>	1
PV-OR40-342	O-Ring for End Plug – External	4
PV-OR40-210	O-Ring for End Plug – Internal	2



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2.5" Dia. End Port 1000 PSI SW Membrane Housings

Description

AMI fiberglass housings are suitable for seawater conditions, rated at 1000 psi. The vessels use a strong coated fiberglass and feature machined, duplex end caps for extended life under corrosive conditions. The end caps are end-ported configuration and are designed for direct connection to Applied Membranes and FilmTec/DOW 2.5" standard male style elements.



Configuration

- End port/End-Entry design
- End plate locking kit, securing ring and screws

Specifications

- **Maximum Operating Pressure:** 1,000 PSI (68 BAR)
- **Qualification Pressure:** 6000 PSI (414 BAR)
- **Operating Temperature:** 14°F-150°F
- **Materials:** FRP/Fiberglass Shell, Stainless Steel End Plate, Securing Ring, Locking Kit and Screws



Pressure Vessels

Model No.	For Membranes				Vessel Dimensions				Connection, FNPT		
	Dia.		Length		Dia.		Length		Feed	Brine	Prod
	in	cm	in	cm	in	cm	in	cm			
F2514-14141000C	2.5	6.4	14	35.6	3.2	8.2	17.5	44.4	1/4" FNPT	1/4" FNPT	1/4" FNPT
F2521-14141000C	2.5	6.4	21	53.3	3.2	8.2	24.5	62.2	1/4" FNPT	1/4" FNPT	1/4" FNPT
F2540-14141000C	2.5	6.4	40	101.6	3.2	8.2	43.5	110.5	1/4" FNPT	1/4" FNPT	1/4" FNPT

Note: Fiberglass membrane pressure vessels sold complete with end plates and end closure hardware (detailed below). Feed/brine port fittings and mounting hardware are not included.

High Pressure Feed/Brine Port Fittings (Not Included)


Model No.	Description	Qty. Needed Per Vessel
8-4 FTX-SS	1/4" NPT x 1/2" Flare Fitting	2
8CM4316	1/4" NPT x 1/2" Tube Fitting	2

8-4 FTX-SS
8CM4316

Spare Parts

Model No.	Description	Qty. Per Vessel
RP-20041*	End Plug	2
RP-2009.1*	Locking Kit Segment	2 sets
RP-2012*	Securing Ring	2
RP-2010*	Screws for Securing Ring	4
RP-56X3.55GGB/T*	O-ring	2
RP-19X2.65GGB/T*	O-ring	4



Note: Items marked with () are included with pressure vessel assembly.

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2.5" Dia. Side Port 1000 PSI SW Membrane Housings

Description

AMI fiberglass housings are suitable for seawater conditions, rated at 1000 psi. Corrosion resistant filament wound fiberglass reinforced epoxy tubing suitable for seawater conditions. Used for watermakers and other land-and-sea based seawater desalination reverse osmosis systems, this style of fiberglass membrane housing is designed for direct connection to Applied Membranes and FilmTec/DOW 2.5" standard male style elements.



Configuration

- Side Port/Side Entry Design
- Retaining Plates with Screws

Specifications

- **Maximum Operating Pressure:** 1,000 PSI (68 BAR)
- **Materials:** FRP/Fiberglass body, Filament wound fiberglass reinforced epoxy tubing, PVC End Plugs, Aluminum End Rings

Pressure Vessels

Model No.	For Membranes				Vessel Dimensions				Connection, FNPT	
	Dia.		Length		Dia.		Length		Feed/Brine Port	Product Port
	in	cm	in	cm	in	cm	in	cm		
PV2521PRO1000	2.5	6.4	21	53.3	3.2	8.2	24.5	62.2	¼" - 16 SAE J514 Straight FNPT	⅜" FNPT
PV2540PRO1000	2.5	6.4	40	101.6	3.2	8.2	43.5	110.5	¼" - 16 SAE J514 Straight FNPT	⅜" FNPT

Note: Fiberglass membrane pressure vessels sold complete with end plates and end closure hardware (detailed below). Feed/brine port fittings and mounting hardware are not included.

Feed/Brine Port Fittings (Required for Installation – Select Appropriate Type)

Model No.	Description	Qty. Needed Per Vessel	Image	
PL-MTS-3/4Sx1/2	Fitting for Connection of Tubing or High Pressure Hose to Vessel ¼-16 SAE x ½"	2		
PL-MFF-3/4Sx1/2	Fitting for Connection of SS Tubing to Vessel ¼-16 SAE x ½" 37° JIC Flare	2		

Spare Parts

Model No.	Description	Qty. Per Vessel	Image	
FT-PV-EP2*	End Plug for 2.5" FRP SW Pressure Vessel	2		
FT-PV-ER2*	End Ring for 2.5" FRP SW Pressure Vessel	2		
HDW-TL-CYLT	Spanner Wrench for 2.5" FRP SW Pressure Vessel	1		
PL-HP-1/8*	NPT Nylon Port Plug	3		
PL-NP-1/8N*	Nylon Close Nipple	1		
KIT-PVA-SEAL*	O-Ring Kit with Grease Pack for 2.5" Pressure Vessel	1		
KIT-PV-25PVMK	Mounting Kit for 2.5" FRP SW Pressure Vessel	1		

Note: Items marked with () are included

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4" & 8" RO/UF/Seawater Membrane Housings

Key features of CodeLine 4" & 8" vessels include: Mirror finish I.D for easy & quick loading & unloading of membranes; Quick lock head retention system for quick access to membranes; Exteriors coated with high gloss polyurethane paint for UV resistance; ASME (American Society of Mechanical Engineers) compliant & CE marking.

Pressure Vessels for 4" x 40" Membranes

Pressure Rating (PSI)	Port Type (E=End, S=Side)	Model Number – Per Length, in Number of 4" x 40" Elements per Vessel					
		1 Membrane (Approx. 40" L)	2 Membranes (Approx. 80" L)	3 Membranes (Approx. 120" L)	4 Membranes (Approx. 160" L)	5 Membranes (Approx. 200" L)	6 Membranes (Approx. 240" L)
Series 40E: 4" Diameter End Port – 3/4" NPT Female Feed/Concentrate Ports, 1/2" NPT Female Permeate Port							
300	E	40E30N-1WHITE	40E30N-2WHITE	40E30N-3WHITE	--	--	--
600	E	40E60-1	40E60-2	40E60-3	40E60-4	40E60-5	40E60-6
1000	E	40E100-1	40E100-2	40E100-3	40E100-4	40E100-5	40E100-6
Series 40S: 4" Diameter Side Port – 1" IPS Pipe Feed/Concentrate Ports, 1/2" NPT Female Permeate Port							
300	S	40S30-1	40S30-2	40S30-3	40S30-4	40S30-5	40S30-6
450	S	40S45-1	40S45-2	40S45-3	40S45-4	40S45-5	40S45-6
600	S	40S60-1	40S60-2	40S60-3	40S60-4	40S60-5	40S60-6

Please specify the element model and manufacturer when ordering to ensure the correct interface hardware is included. 40E30N Series is available in blue or white exterior finish. To order in blue, use part # ending in "BLUE" instead of "WHITE". Example: 40E30N-1BLUE

Pressure Vessels for 8" x 40" Membranes

Pressure Rating (PSI)	Port Type (E=End, S=Side)	Model Number – Per Length, in Number of 8" x 40" Elements per Vessel						
		1 Membrane (Approx. 40" L)	2 Membranes (Approx. 80" L)	3 Membranes (Approx. 120" L)	4 Membranes (Approx. 160" L)	5 Membranes (Approx. 200" L)	6 Membranes (Approx. 240" L)	7 Membranes (Approx. 280" L)
Series 80E: 8" Diameter End Port Vessels – 1.5" IPS Pipe Feed/Concentrate Ports, 1" NTP Female Permeate Port								
300	E	80E30-1	80E30-2	80E30-3	80E30-4	80E30-5	80E30-6	80E30-7
450	E	80E45-1	80E45-2	80E45-3	80E45-4	80E45-5	80E45-6	80E45-7
600	E	80E60-1	80E60-2	80E60-3	80E60-4	80E60-5	80E60-6	80E60-7
1000	E	80E100-1	80E100-2	80E100-3	80E100-4	80E100-5	80E100-6	80E100-7
1200	E	80E120-1	80E120-2	80E120-3	80E120-4	80E120-5	80E120-6	80E120-7
Series 80S ASME Coded 8" Diameter Side Port – 1.5" IPS Pipe Feed/Concentrate Ports, 1" NTP Female Permeate Port								
150	S	80S15A-1	80S15A-2	80S15A-3	80S15A-4	80S15A-5	80S15A-6	80S15A-7
300	S	80S30A-1	80S30A-2	80S30A-3	80S30A-4	80S30A-5	80S30A-6	80S30A-7
450	S	80S45A-1	80S45A-2	80S45A-3	80S45A-4	80S45A-5	80S45A-6	80S45A-7
600	S	80S60A-1	80S60A-2	80S60A-3	80S60A-4	80S60A-5	80S60A-6	80S60A-7
1000	S	80S100A-1	80S100A-2	80S100A-3	80S100A-4	80S100A-5	80S100A-6	80S100A-7
1200	S	80S120A-1	80S120A-2	80S120A-3	80S120A-4	80S120A-5	80S120A-6	80S120A-7
Series 80S Non-Coded 8" Diameter Side Port – 1.5" IPS Pipe Feed/Concentrate Ports, 1" NTP Female Permeate Port								
150	S	80S15-1	80S15-2	80S15-3	80S15-4	80S15-5	80S15-6	80S15-7
300	S	80S30-1	80S30-2	80S30-3	80S30-4	80S30-5	80S30-6	80S30-7
450	S	80S45-1	80S45-2	80S45-3	80S45-4	80S45-5	80S45-6	80S45-7
600	S	80S60-1	80S60-2	80S60-3	80S60-4	80S60-5	80S60-6	80S60-7
Series 80H "High Flow" 8" Diameter Side Port – 3" IPS Pipe Feed/Concentrate Ports, 1" NTP Female Permeate Port								
150	S	80H15-1	80H15-2	80H15-3	80H15-4	80H15-5	80H15-6	80H15-7
300	S	80H30-1	80H30-2	80H30-3	80H30-4	80H30-5	80H30-6	80H30-7
450	S	80H45-1	80H45-2	80H45-3	80H45-4	80H45-5	80H45-6	80H45-7
600	S	80H60-1	80H60-2	80H60-3	80H60-4	80H60-5	80H60-6	80H60-7
1000	S	80H100-1	80H100-2	80H100-3	80H100-4	80H100-5	80H100-6	80H100-7
1200	S	80H120-1	80H120-2	80H120-3	80H120-4	80H120-5	80H120-6	80H120-7
Series 80U "Ultra High Flow" 8" Diameter Side Port – 4" IPS Pipe Feed/Concentrate Ports, 1" NTP Female Permeate Port								
300	S	80U30-1	80U30-2	80U30-3	80U30-4	80U30-5	80U30-6	80U30-7
450	S	80U45-1	80U45-2	80U45-3	80U45-4	80U45-5	80U45-6	80U45-7
600	S	80U60-1	80U60-2	80U60-3	80U60-4	80U60-5	80U60-6	80U60-7

Please specify the element model and manufacturer when ordering to ensure the correct interface hardware is included.

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Spare Parts for 4" & 8" RO/UF/Seawater Housings

Spare Parts for 40E Series 4" Dia. End Port

Description	40E30N-*	40E60-*	40E100-*
Head Assembly	94665	47533	47474
End Plug	96288	50420	n/a
Plug Seal	PV-OR40-342	PV-OR40-342	PV-OR40-342
Bearing Plate	n/a	n/a	47471
Seal Plate	n/a	n/a	50481
Permeate Port	n/a	n/a	47469
Permeate Port Seal	n/a	n/a	PV-OR40-120
Port Retainer	n/a	n/a	45244
Feed/Conc. Port	n/a	n/a	47472
Adapter Seal	PV-OR40-116	PV-OR40-114	PV-OR40-114
Retaining Ring	45260	45260	45260

Spare Parts for 40S Series 4" Dia. Side Port

Description	40S30-*	40S45-*	40S60-*
Bearing Plate	96803	96803	96803
Sealing Plate	96855	96855	96855
Head Seal	PV-OR40-342	PV-OR40-342	PV-OR40-342
Permeate Port	96807	96807	96807
Permeate Port Seal	45335	45335	45335
Port Retainer	45242	45242	45242
Retaining Ring	45260	45260	45260
Adapter Seal	PV-OR40-116	PV-OR40-116	PV-OR40-116
End Plug	96287	96287	96287

Spare Parts for 80E Series 8" Dia. End Port

Description:	80E30	80E45	80E60	80E100	80E120
Head Assembly	94002	94003	94004	94005	94006
Bearing Plate	51050	51051	51052	47317	47317
Sealing Plate	96003	96003	96003	96003	96003
Feed/Conc. Port	50607	50567	50567	50556	50556
Port Retainer	45247	45090	45090	45090	45090
Port Nut	n/a	45066	45066	45066	45066
Permeate Port	50608	50569	50569	50558	50558
Permeate Port Seal	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225
Head Seal	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD
Retaining Ring	47336	47336	47336	47336	47336
Adapter Seal	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124
Thrust Ring	45069	45069	45069	45069	45069

Spare Parts for 80S Series 8" Dia. Side Port

Description	80S15	80S30	80S45	80S60	80S100	80S120
Bearing Plate	96156	96156	96157	96157	96158	96158
Sealing Plate	96160	96160	96160	96160	96160	96160
Permeate Port	96162	96162	96162	96162	96162	96162
Port Nut	45066	45066	45066	45066	45066	45066
Head Seal	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD
Permeate Port Seal	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225
Retaining Ring	47336	47336	47336	47336	47336	47336
Adapter Seal	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124
Thrust Cone	96163	96163	96163	96163	96163	96163

Spare Parts for 80H & 80U "High-Flow" and "Ultra-High Flow" Series 8" Dia. Side Port

Description	80H15	80H30	80H45	80H60	80H100	80H102	80U30	80U45	80U60
Bearing Plate	96156	96156	96157	96157	96158	96158	96156	96157	96157
Sealing Plate	96159	96159	96159	96159	96159	96159	96159	96159	96159
Permeate Port	96161	96161	96161	96161	96161	96161	96263	96263	96263
Port Nut	45066	45066	45066	45066	45066	45066	45066	45066	45066
Head Seal	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD	PV-OR80-442-QD
Perm. Port Seal	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225	PV-OR80-225
Retaining Ring	47336	47336	47336	47336	47336	47336	47336	47336	47336
Adapter Seal	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124	PV-OR80-124
Thrust Cone	96163	96163	96163	96163	96163	96163	96163	96163	96163
Spacer	n/a	n/a	n/a	n/a	n/a	n/a	96262	96262	96262

Please contact us for information on spare parts not listed. Vessel model & serial number and/or membrane model may be required.

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4" RO/UF/Seawater Membrane Housings & Spares

Pressure Vessels for 4"×40" Membranes

These models are designed for continuous use housing membrane filtration elements to purify typical waters at any positive pressure up to 1000 PSI. The design will accommodate any make of four-inch nominal diameter spiral-wound element as well as many hollow fiber elements. The element interface hardware for the specified element is supplied with the vessel. The models have been designed to meet the standards of the American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, Section X. At an additional cost, vessels can be inspected during fabrication by an ASME Authorized Inspector and Code stamped.

Pressure Rating (PSI)	Model Number – Per Length, in Number of 4"×40" Elements per Vessel					
	1 Membrane (Approx. 40" L)	2 Membranes (Approx. 80" L)	3 Membranes (Approx. 120" L)	4 Membranes (Approx. 160" L)	5 Membranes (Approx. 200" L)	6 Membranes (Approx. 240" L)
End Port Pressure Vessels						
300	PRO-4-300-EP-1	PRO-4-300-EP-2	PRO-4-300-EP-3	--	--	--
600	PRO-4-600-EP-1	PRO-4-600-EP-2	PRO-4-600-EP-3	PRO-4-600-EP-4	PRO-4-600-EP-5	PRO-4-600-EP-6
1000	PRO-4-1000-EP-1	PRO-4-1000-EP-2	PRO-4-1000-EP-3	PRO-4-1000-EP-4	PRO-4-1000-EP-5	PRO-4-1000-EP-6
Side Port Pressure Vessels						
300	PRO-4-300-SP-1	PRO-4-300-SP-2	PRO-4-300-SP-3	PRO-4-300-SP-4	PRO-4-300-SP-5	PRO-4-300-SP-6
450	PRO-4-450-SP-1	PRO-4-450-SP-2	PRO-4-450-SP-3	PRO-4-450-SP-4	PRO-4-450-SP-5	PRO-4-450-SP-6

Please note that vessels on this page are supplied with qty. (2) In/Out Ports. Additional or larger ports are not included in the price. Please specify the element model and manufacturer when ordering to ensure the correct interface hardware is included.

Spare Parts for End Port Protec 4" Pressure Vessels

PRO-4-300-EP-*

Part No.	Description	Qty
4040084	Shell	1
4040087-1	End Plug, ½" NPT Feed	2
4040088-1	End Plug, ¾" NPT Feed	2
4040079	Retaining Ring (w/ finger pull)	4
PV-OR40-342	Head Seal	2
PV-OR40-116	Adapter Seal	2

PRO-4-600-EP-*

Part No.	Description	Qty
3040007	Shell	1
4040054-1	End Plug	2
4040060-1	Bearing Ring	2
6150002	Screw, Bearing Ring	4
4040079	Retaining Ring (w/ finger pull)	2
PV-OR40-342	Head Seal	2
PV-OR40-116	Adapter Seal	2

PRO-4-1000-EP-*

Part No.	Description	Qty
3040008	Shell	1
4040011	Bearing Plate	2
4040012-1	Sealing Plate	2
4040014-2	Feed/Conc. Port	2
6121100	Retaining Ring (F/C Port)	2
4040019-3	Clocking Tab	2
4040079	Retaining Ring (w/ finger pull)	2
PV-OR40-342	Head Seal	2
PV-OR40-114	Adapter Seal	2
PV-OR40-120	Seal, F/C & Perm. Port	2

Spare Parts for Side Port Protec 4" Pressure Vessels

PRO-4-300-SP-*

Part No.	Description	Qty
3040022	Shell	1
4040026	Bearing Plate	2
4040030-1	Sealing Plate	2
4040031-1	Feed/Conc. Port	A/R
6120125	Retaining Ring, F/C Port	A/R
4040079	Retaining Ring (w/ finger pull)	2
PV-OR40-342	Head Seal	2
6110218-N	F/C Port Seal, Square	A/R
6110221-N	Permeate Port Seal, Sq.	2
PV-OR40-116	Adapter Seal	2

PRO-4-450-SP-*

Part No.	Description	Qty
3040023	Shell	1
4040027	Bearing Plate	2
4040030-1	Sealing Plate	2
4040031-1	Feed/Conc. Port	A/R
6120125	Retaining Ring, F/C Port	A/R
4040079	Retaining Ring (w/ finger pull)	2
PV-OR40-342	Head Seal	2
6110218-N	F/C Port Seal, Square	A/R
6110221-N	Permeate Port Seal, Sq.	2
PV-OR40-116	Adapter Seal	2

Mounting Accessories

Mounting Accessories for All 4" Protec Membrane Housings (Sold Separately)

Part No.	Description	Qty
4040040	Strap Assembly, Stainless Steel, 300 Series	2
4040037	Support Saddle, Polyurethane	2*
615001	Strap Screw, Stainless Steel, 300 Series	4

*3 with each shell length -4 and longer

Please contact us for information on spare parts not listed. Vessel model & serial number and/or membrane model may be required.

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8" RO/UF/Seawater Membrane Housings & Spares

Pressure Vessels for 8"×40" Membranes

These models are designed for continuous use housing membrane filtration elements to purify waters at any positive pressure up to 1200 PSI. The design will accommodate any make of eight-inch nominal diameter spiral-wound element as well as many hollow fiber elements. The element interface hardware for the specified element is supplied with the vessel. The models have been designed to meet the standards of the American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, Section X. At an additional cost, vessels can be inspected during fabrication by an ASME Authorized Inspector and Code stamped. Models with a PSI of 150-600 purify typical brackish waters while models with a PSI of 1000-1200 purify typical seawater.

Pressure Rating (PSI)	Model Number – Per Length, in Number of 8"×40" Elements per Vessel						
	1 Membrane (40" L)	2 Membranes (80" L)	3 Membranes (120" L)	4 Membranes (160" L)	5 Membranes (200" L)	6 Membranes (240" L)	7 Membranes (280" L)
End Port Pressure Vessels							
150	PRO-8-150-EP-1	PRO-8-150-EP-2	PRO-8-150-EP-3	PRO-8-150-EP-4	PRO-8-150-EP-5	PRO-8-150-EP-6	PRO-8-150-EP-7
300	PRO-8-300-EP-1	PRO-8-300-EP-2	PRO-8-300-EP-3	PRO-8-300-EP-4	PRO-8-300-EP-5	PRO-8-300-EP-6	PRO-8-300-EP-7
450	PRO-8-450-EP-1	PRO-8-450-EP-2	PRO-8-450-EP-3	PRO-8-450-EP-4	PRO-8-450-EP-5	PRO-8-450-EP-6	PRO-8-450-EP-7
600	PRO-8-600-EP-1	PRO-8-600-EP-2	PRO-8-600-EP-3	PRO-8-600-EP-4	PRO-8-600-EP-5	PRO-8-600-EP-6	PRO-8-600-EP-7
1000	PRO-8-1000-EP-1	PRO-8-1000-EP-2	PRO-8-1000-EP-3	PRO-8-1000-EP-4	PRO-8-1000-EP-5	PRO-8-1000-EP-6	PRO-8-1000-EP-7
1200	PRO-8-1200-EP-1	PRO-8-1200-EP-2	PRO-8-1200-EP-3	PRO-8-1200-EP-4	PRO-8-1200-EP-5	PRO-8-1200-EP-6	PRO-8-1200-EP-7
Side Port Pressure Vessels							
150	PRO-8-150-SP-1	PRO-8-150-SP-2	PRO-8-150-SP-3	PRO-8-150-SP-4	PRO-8-150-SP-5	PRO-8-150-SP-6	PRO-8-150-SP-7
300	PRO-8-300-SP-1	PRO-8-300-SP-2	PRO-8-300-SP-3	PRO-8-300-SP-4	PRO-8-300-SP-5	PRO-8-300-SP-6	PRO-8-300-SP-7
450	PRO-8-450-SP-1	PRO-8-450-SP-2	PRO-8-450-SP-3	PRO-8-450-SP-4	PRO-8-450-SP-5	PRO-8-450-SP-6	PRO-8-450-SP-7
600	PRO-8-600-SP-1	PRO-8-600-SP-2	PRO-8-600-SP-3	PRO-8-600-SP-4	PRO-8-600-SP-5	PRO-8-600-SP-6	PRO-8-600-SP-7
1000	PRO-8-1000-SP-1	PRO-8-1000-SP-2	PRO-8-1000-SP-3	PRO-8-1000-SP-4	PRO-8-1000-SP-5	PRO-8-1000-SP-6	PRO-8-1000-SP-7
1200	PRO-8-1200-SP-1	PRO-8-1200-SP-2	PRO-8-1200-SP-3	PRO-8-1200-SP-4	PRO-8-1200-SP-5	PRO-8-1200-SP-6	PRO-8-1200-SP-7

*Please note that vessels on this page are supplied with qty. (2) 1.5" In/Out Ports. Additional or larger ports are not included in the price. Please specify the element model and manufacturer when ordering to ensure the correct interface hardware is included.

Spare Parts for End Port Protec 8" Vessels

Part Description	For Protec Series No:					
	8-150-EP	8-300-EP	8-450-EP	8-600-EP	8-1000-EP	8-1200-EP
Bearing Plate	4080027	4080027	4080029	4080031	4080033	4080033
Adapter Seal	6110326-N	6110326-N	6110326-N	6110326-N	6110326-N	6110326-N
Sealing Plate	4080065-1	4080065-1	4080065-1	4080065-1	4080065-1	4080065-1
Feed/Concentrate Port	4080176-1	4080176-1	4080176-1	4080176-1	4080231	4080231
Retaining Ring, F/C Port	6121187	6121187	6121187	6121187	6121187	6121187
Feed/Concentrate Port Seal	6184604-N	6184604-N	6184604-N	6184604-N	6184604-N	6184604-N
Head Seal U-Cup	6168434	6168434	6168434	6168434	6168434	6168434
Head Seal Quad Seal	6100442MK	6100442MK	6100442MK	6100442MK	6100442MK	6100442MK
Permeate Port Seal	6110229-N	6110229-N	6110229-N	6110229-N	6110229-N	6110229-N
Retaining Ring w/ finger pull	4080080	4080320	4080320	4080320	4080320	4080320
Thrust Ring	4080043	4080043	4080043	4080043	4080043	4080043

Spare Parts for Side Port Protec 8" Vessels

Part Description	For Protec Series No:					
	8-150-SP	8-300-SP	8-450-SP	8-600-SP	8-1000-SP	8-1200-SP
Bearing Plate	4080008	4080028	4080030	4080032	4080034	4080034
Adapter Seal	6110326-N	6110326-N	6110326-N	6110326-N	6110326-N	6110326-N
Sealing Plate U-Cup	4080177-3	4080177-3	4080177-3	4080177-3	4080177-2	4080177-2
Feed/Concentrate Port	4080250	4080250	4080250	4080257-1	4080234	4080234
Retaining ring F/C Port	6121187	6121187	6121187	6121187	6121187	6121187
Head Seal U-Cup	6168434	6168434	6168434	6168434	6168434	6168434
Head Seal Quad-Ring	6100442MK	6100442MK	6100442MK	6100442MK	6100442MK	6100442MK
Permeate Port Seal	6110229-N	6110229-N	6110229-N	6110229-N	6110229-N	6110229-N
Retaining Ring w/ Finger Pull	4080080	4080320	4080320	4080320	4080320	4080320

Please contact us for information on spare parts not listed. Vessel model & serial number and/or membrane model may be required.

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Pressure Vessel Components

Mounting Accessories


Mounting Clamps for PVC 4" Pressure Vessels

Model No.	Description	
1949.040	Click-Lock Style Mounting Click Clamps #113 for 4" Dia. Vessel	
PV-STPVC40	Mounting Strap for 4" Dia. Pressure Vessel	
YCUP400	Unistrut Clamp with bolt for 4" Dia. Vessels, Plated Metal <i>(Requires Channel Iron listed below)</i>	
YCUF400	Unistrut Clamp with bolt for 4" Dia. Vessels, FRP <i>(Requires Channel Iron listed below)</i>	


Mounting Clamps for Stainless Steel 2", 2.5" & 4" Pressure Vessels

Model No.	Description	
1949.005	Click-Lock Style Mounting Click Clamps #20 for 1/2" Dia. Pressure Vessel	
1949.007	Click-Lock Style Mounting Click Clamps #25 for 3/4" Dia. Pressure Vessel	
1949.010	Click-Lock Style Mounting Click Clamps #32 for 1/2" Dia. Pressure Vessel	
1945.015	Click-Lock Style Mounting Click Clamps #47 for 1 1/2" Dia. Pressure Vessel	
1949.020	Click-Lock Style Mounting Click Clamps #59 for 2" Dia. Pressure Vessel	
1949.025	Click-Lock Style Mounting Click Clamps #71 for 2 1/2" Dia. Pressure Vessel	
PV-ST40A-SS	Mounting Strap for 4" Dia. Vessel	
YCUP218-OD	Unistrut Clamp with bolt for 2" Dia. SS, Plated Material	
YCUP258-OD	Unistrut Clamp with bolt for 2.5" Dia. SS, Plated Material	
YCUP418-OD	Unistrut Clamp with bolt for 4" Dia. SS, Plated Material	

Mounting Straps and Saddle Pads for FRP 4" and 8" Pressure Vessels

Model No.	Description	
PV-SA40AEA	Saddle for All 4" Dia. SS, FRP or PVS Vessel, 1 each	
4040037	Support Saddle (1 pc.) for 4" Protec Housings	
4040040	Strap Assembly for 4" Protec Housings (Universal)	
4080173	Support Saddle (1 pc.) for 8" 150/300psi Protec Housings	
4080174	Support Saddle (1 pc.) for 8" 450/600psi Protec Housings	
4080175	Support Saddle (1 pc.) for 8" 1000/1200psi Protec Housings	
4080137	Strap Assembly for 8" Protec Housings (Universal)	
6150001	Screw for straps for 4" & 8" Protec Housings	
47459	Strap/Each for 4" CodeLine Housings (Universal)	
45058	Saddle/Each for 4" CodeLine Housings (Universal)	
52169	Saddle/Each for 8" CodeLine Housings (Universal)	
45042	Strap/Each for 8" CodeLine Housings (Universal)	
46265	Screw for straps for 8" CodeLine Housings	

Membrane Extraction Tools and Channel Iron

Model No.	Description	
PS200-10	Unistrut Channel iron (For use with clamps) 1 5/8" deep x 1 5/8" wide	
PV-EXT14	End Plug Extractor Tool for 1/4" NPT thread	
PV-EXT38	End Plug Extractor Tool for 3/8" NPT thread	

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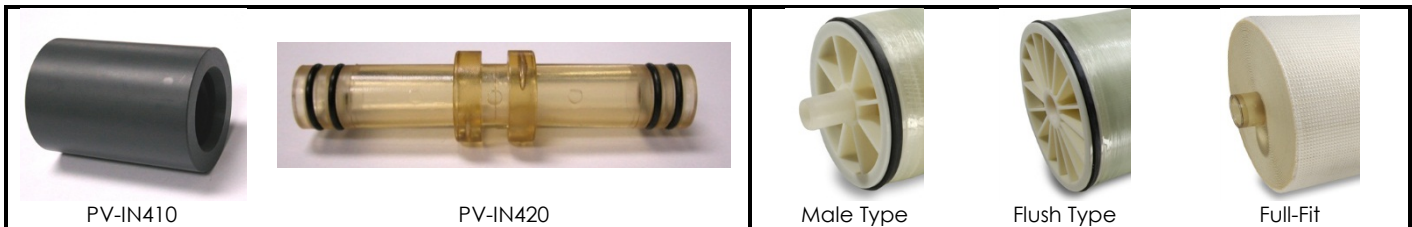
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Pressure Vessel Components

Membrane Interconnector Couplers

Interconnectors for 4" Diameter Membrane Elements

Model No.	Description	For Membranes with Permeate Tube		Compatible with Membrane Manufacturer(s)	Seals Included (Can be ordered Separately using Part #'s Below)
		Size (Dia.)	Style		
PV-IN410	Standard Style Coupler	0.75" OD	Male	<ul style="list-style-type: none"> • AMI • FilmTec • Hydranautics • Koch • Toray 	PV-OR40-210 (2)
PV-IN420	Flush-Cut Style Coupler	0.625" ID	Flush	<ul style="list-style-type: none"> • AMI • Desal • Koch 	PV-OR40-014 (4)
PV-IN440	Full-Fit Style Coupler	0.75" OD	Full-Fit	<ul style="list-style-type: none"> • FilmTec 	PV-OR40-210 (2)



Interconnectors for 8" Diameter Membrane Elements

Model No.	Description	For Membranes with Permeate Tube		Compatible with Membrane Manufacturer(s)	Seals Included (Can be ordered Separately using Part #'s Below)
		Size (Dia.)	Style		
PV-IN810	FilmTec Standard Tube Membrane Coupler for Brackish & Seawater Elements	1.125" ID	Flush	FilmTec	PV-OR80-912 (2)
PV-IN811LE	FilmTec Large Tube Membrane Coupler for Brackish & Seawater Elements	1.5" ID	Flush	FilmTec	PV-OR80-218 (2)
PV-IN810LE	FilmTec Step-Down Coupler for use between Std-Tube & Large-Tube Membrane Elements	1.125" ID to 1.5" ID	Flush	FilmTec	PV-OR80-912 (2) PV-OR80-218 (1)
PV-IN880	FilmTec Full-Fit Membrane Coupler	1.125" ID	Full-Fit	FilmTec	PV-OR80-912 (2)
PV-IN870	Hydranautics Brackish Membrane Coupler	1.125" ID	Flush	Hydranautics	PV-OR80-912 (2)
PV-IN870S	Hydranautics Seawater Membrane Coupler	1.125" ID	Flush	Hydranautics	PV-OR80-912 (2)
PV-IN830	Koch Membrane Coupler	1.125" ID	Flush	Koch	PV-OR80-912 (2)
PV-IN840	Toray Standard Tube Membrane Coupler	1.125" ID	Flush	Toray	PV-OR80-912 (2)
PV-IN841L	Toray Large Tube Membrane Coupler	1.5" ID	Flush	Toray	PV-OR80-218 (2)



PV-IN810

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4 Stage Simple-Change™ Reverse Osmosis Systems

AMI Simple-Change™ RO Systems provide clean, fresh drinking water and quick and easy maintenance. The self-encapsulated filter and membranes are removed and replaced with a simple ¼ turn, while the internal valve shuts off the flow automatically when the cartridge is removed.



- No Wrenches! Filter & Membrane Cartridges are connected and removed with a simple 1/4 turn.
- No Mess! Automatic shut-off when cartridges are removed.
- No Fuss! No need to disconnect tubing when replacing membranes.
- Hinged bracket aids cartridge replacement.
- Quick connect fittings for easy installation.
- Cartridges have double o-rings so they will not leak.
- Valves are built into the heads to prevent back-flow for water quality assurance.
- WQA Gold Seal Certified to NSF/ANSI Std. 58.

- **Stage 1** (Red): 5 Micron Sediment Filter to remove dirt, rust and other suspended particles
- **Stage 2** (Yellow): Carbon Block Filter Cartridge to remove chlorine, taste and odor
- **Stage 3** (Green): Thin Film Reverse Osmosis Membrane to remove 99% of dissolved solids
- **Stage 4** (Blue): GAC Post Filter for final polishing of taste and odor

Ordering Information

Simple-Change™ RO Systems are available in 50 GPD and 100 GPD models. Please select the appropriate model below.

Model No.	Flow Rate	Cartridge Length
50SC	50 GPD	11"
100SC	100 GPD	13"

Each system ships with a long reach chrome faucet, 4-gallon metal storage tank, complete installation kit and detailed product manual.



Replacement Cartridge Kits

Filter replacement packs are available for order, as well as the individual cartridges. One-year filter packs contain a one-year supply of cartridges:

- (2) Pre-Sediment Filters (change every 6 months)
- (2) Pre-Carbon Filters (change every 6 months)
- (1) Membrane Element (change every 12 months)
- (1) Post-Carbon Filter (change every 12 Months)

Kit Part #	For System	Cartridge Length
RSC-50YEAR	50SC	11"
RSC-100YEAR	100SC	13"



Individual Replacement Cartridges

For System	Cartridge Length	Replacement Cartridge Model Numbers			
		Pre-Sediment (red)	Pre-Carbon (yellow)	Membrane (green)	Post-Carbon (blue)
50SC	11"	RSC-50S	RSC-50C	RSC-50M	RSC-50P
100SC	13"	RSC-100S	RSC-100C	RSC-100M	RSC-100P

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AMI® Point of Use Water Treatment

5 Stage Reverse Osmosis Systems

AMI Point of Use RO Systems provide a continuous supply of clean, fresh drinking water. Systems are assembled on a heavy-duty SS bracket for wall-mounting under the sink or in a nearby location.



- Eliminate up to 99% of dissolved solids, chlorine, fluoride, microorganisms and heavy metals such as barium, cadmium, chromium, lead and mercury from your water. Use RO purified water for drinking, cooking & ice for improved flavor and increased health benefits.
- System can be used to supply filtered water to a refrigerator ice-maker/water-dispenser by inserting a branch tee fitting (sold separately) between the post filter and the faucet.
- Systems are equipped with automatic shut-off valves to eliminate waste by closing the feed line when the tank is full.
- Quick-Connect in/out connection points for easy installation. Complete installation kit and product manual included with every system.

System Dimensions: 16"W x 17.5"H x 6"D • Tank Dimensions: 11" dia x 15"H

- **Stage 1:** 5M Sediment Filter in a clear housing with flat cap and ¼" FNPT connections
- **Stage 2:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 3:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 4:** AMI® Thin Film RO Membrane element in white membrane housing with ⅛" FNPT connections
- **Stage 5:** In-line GAC Filter for final polishing of taste and odor, ¼" quick connect in/out connections

Ordering Information

AAA series units are available in several flow rates to meet your water usage needs. Please select the appropriate model below.

Model No.	System Flow Rate
AAA-125	12 Gallons per Day
AAA-245	24 Gallons per Day
AAA-365	36 Gallons per Day
AAA-505	50 Gallons per Day

Model No.	System Flow Rate
AAA-755	75 Gallons per Day
AAA-1005	100 Gallons per Day
AAA-2005NT*	200 Gallons per Day

*Storage Tank not included in 200GPD unit. A larger storage tank (sold separately) is recommended for this unit.

Standard Installation Kit (Included)

1. 4 Gal. Storage Tank*		2. Tank Valve*		3. Faucet Kit		4. Feed Adapter Kit	
5. Drain Saddle		6. Filter Wrench		7. Tubing (color-coded)		8. Installation & Operation Manual	

Blue, Yellow, Orange, Black

*Storage Tank not included in 200GPD unit. A larger storage tank (sold separately) is recommended for this unit.

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AMI® Point of Use Water Treatment

5 Stage RO Systems with Booster Pump

AMI Point of Use RO Systems provide a continuous supply of clean, fresh drinking water. These systems include a booster pump to raise the pressure of the feed water and are the ideal choice when the incoming water pressure is less than 40 PSI. Systems are assembled on a heavy-duty SS bracket for wall-mounting under the sink or in a nearby location.



System Dimensions: 16"W x 19.5"H x 6"D • Tank Dimensions: 11" dia x 15"H

- Eliminate up to 99% of dissolved solids, chlorine, fluoride, microorganisms and heavy metals such as barium, cadmium, chromium, lead and mercury from your water. Use RO purified water for drinking, cooking & ice for improved flavor and increased health benefits.
- System can be used to supply filtered water to a refrigerator ice-maker/water-dispenser by inserting a branch tee fitting (sold separately) between the post filter and the faucet.
- Systems are equipped with automatic shut-off valves to eliminate waste by closing the feed line when the tank is full.
- Quick-Connect in/out connection points for easy installation. Complete installation kit and product manual included with every system.

- **Stage 1:** 5M Sediment Filter in a clear housing with flat cap and ¼" FNPT connections
- **Stage 2:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 3:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 4:** AMI® Thin Film RO Membrane element in white membrane housing with ⅜" FNPT connections
- **Stage 5:** In-line GAC Filter for final polishing of taste and odor, ¼" quick connect in/out connections

Ordering Information

Model No.	System Flow Rate
AAA-125P*	12 Gallons per Day
AAA-245P*	24 Gallons per Day
AAA-365P*	36 Gallons per Day

Model No.	System Flow Rate
AAA-505P*	50 Gallons per Day
AAA-755P*	75 Gallons per Day
AAA-1005P*	100 Gallons per Day

*Please add our voltage code to the end of the model number when ordering. Example: AAA-505PU
 U = USA: 110-115v/ 60Hz • J = Japan: 100v/50-60Hz • E = Europe: 230v/50Hz

Standard Installation Kit (Included)

1. 4 Gal. Storage Tank		2. Tank Valve		3. Faucet Kit		4. Feed Adapter Kit	
5. Drain Saddle		6. Filter Wrench		7. Tubing (color-coded)		8. Installation & Operation Manual	

Blue, Yellow, Orange, Black

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6 Stage RO Systems with Ultraviolet Sterilization

AMI Point of Use RO Systems provide a continuous supply of clean, fresh drinking water and incorporate an ultraviolet post-filtration system to sterilize the water. Systems are assembled on a heavy-duty SS bracket for wall-mounting under the sink or in a nearby location.



System Dimensions: 16"W x 19.5"H x 6"D • Tank Dimensions: 11" dia x 15"H

- Eliminate up to 99% of dissolved solids, chlorine, fluoride, microorganisms and heavy metals such as barium, cadmium, chromium, lead and mercury from your water. UV provides 99.99% destruction of bacteria, virus & protozoan cysts. Use RO purified water for drinking, cooking & ice for improved flavor and increased health benefits.
- System can be used to supply filtered water to a refrigerator ice-maker/water-dispenser by inserting a branch tee fitting (sold separately) between the post filter and the faucet.
- Systems are equipped with automatic shut-off valves to eliminate waste by closing the feed line when the tank is full.
- Quick-Connect in/out connection points for easy installation. Complete installation kit and product manual included with every system.

- **Stage 1:** 5M Sediment Filter in a clear housing with flat cap and ¼" FNPT connections
- **Stage 2:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 3:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 4:** AMI® Thin Film RO Membrane element in white membrane housing with ½" FNPT connections
- **Stage 5:** In-line GAC Filter for final polishing of taste and odor, ¼" quick connect in/out connections
- **Stage 6:** The water runs through a UV disinfection system just before dispensing from the faucet for 99.99% destruction of bacteria, virus & protozoan cysts.

Ordering Information

Model No.	System Flow Rate
AAA-126UV*	12 Gallons per Day
AAA-246UV*	24 Gallons per Day
AAA-366UV*	36 Gallons per Day

Model No.	System Flow Rate
AAA-506UV*	50 Gallons per Day
AAA-756UV *	75 Gallons per Day
AAA-1006UV *	100 Gallons per Day

*Please add our voltage code to the end of the model number when ordering. Example: AAA-506UVU

U = USA: 110-115v/ 60Hz • J = Japan: 100v/50-60Hz • E = Europe: 230v/50Hz

Standard Installation Kit (Included)

1. 4 Gal. Storage Tank		2. Tank Valve		3. Faucet Kit		4. Feed Adapter Kit	
5. Drain Saddle		6. Filter Wrench		7. Tubing (color-coded)		8. Installation & Operation Manual	

Blue, Yellow, Orange, Black

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6 Stage RO Systems with Ultraviolet & Booster Pump

AMI Point of Use RO Systems provide a continuous supply of clean, fresh drinking water and incorporate an ultraviolet post-filtration system to sterilize the water. These systems include a booster pump to raise the pressure of the feed water and are the ideal choice when the incoming water pressure is less than 40 PSI. Systems are assembled on a heavy-duty SS bracket for wall-mounting under the sink or in a nearby location.



- Eliminate up to 99% of dissolved solids, chlorine, fluoride, microorganisms and heavy metals such as barium, cadmium, chromium, lead and mercury from your water. UV provides 99.99% destruction of bacteria, virus & protozoan cysts. Use RO purified water for drinking, cooking & ice for improved flavor and increased health benefits.
- System can be used to supply filtered water to a refrigerator ice-maker/water-dispenser by inserting a branch tee fitting (sold separately) between the post filter and the faucet.
- Systems are equipped with automatic shut-off valves to eliminate waste by closing the feed line when the tank is full.
- Quick-Connect in/out connection points for easy installation. Complete installation kit and product manual included with every system.

System Dimensions: 16"W x 21.5"H x 6"D • Tank Dimensions: 11" dia x 15"H

- **Stage 1:** 5M Sediment Filter in a clear housing with flat cap and ¼" FNPT connections
- **Stage 2:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 3:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 4:** AMI® Thin Film RO Membrane element in white membrane housing with ½" FNPT connections
- **Stage 5:** In-line GAC Filter for final polishing of taste and odor, ¼" quick connect in/out connections
- **Stage 6:** The water runs through a UV disinfection system just before dispensing from the faucet for 99.99% destruction of bacteria, virus & protozoan cysts.

Ordering Information

Model No.	System Flow Rate
AAA-126P*-UV	12 Gallons per Day
AAA-246P*-UV	24 Gallons per Day
AAA-366P*-UV	36 Gallons per Day

Model No.	System Flow Rate
AAA-506P*-UV	50 Gallons per Day
AAA-756P*-UV	75 Gallons per Day
AAA-1006P*-UV	100 Gallons per Day

*Please add our voltage code to the model number when ordering. Example: AAA-506PU-UV
 U = USA: 110-115v/ 60Hz • J = Japan: 100v/50-60Hz • E = Europe: 230v/50Hz

Standard Installation Kit (Included)

1. 4 Gal. Storage Tank		2. Tank Valve		3. Faucet Kit		4. Feed Adapter Kit	
5. Drain Saddle		6. Filter Wrench		7. Tubing (color-coded)		8. Installation & Operation Manual	

Blue, Yellow, Orange, Black

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AMI® Point of Use Water Treatment

4 Stage Reverse Osmosis Systems

AMI Point of Use RO Systems provide a continuous supply of clean, fresh drinking water. Systems are assembled on a heavy-duty SS bracket for wall-mounting under the sink or in a nearby location.



System Dimensions: 14"W x 16"H x 6"D • Tank Dimensions: 11" dia x 15"H

- Eliminate up to 99% of dissolved solids, chlorine, fluoride, microorganisms and heavy metals such as barium, cadmium, chromium, lead and mercury from your water. Use RO purified water for drinking, cooking & ice for improved flavor and increased health benefits.
- System can be used to supply filtered water to a refrigerator ice-maker/water-dispenser by inserting a branch tee fitting (sold separately) between the post filter and the faucet.
- Systems are equipped with automatic shut-off valves to eliminate waste by closing the feed line when the tank is full.
- Quick-Connect in/out connection points for easy installation. Complete installation kit and product manual included with every system.

- **Stage 1:** 5M Sediment Filter in a clear housing with flat cap and ¼" FNPT connections
- **Stage 2:** Carbon Block Cartridge in a white housing with flat cap and ¼" FNPT connections
- **Stage 3:** AMI® Thin Film RO Membrane element in white membrane housing with ½" FNPT connections
- **Stage 4:** In-line GAC Filter for final polishing of taste and odor, ¼" quick connect in/out connections

Ordering Information

AAA series units are available in several flow rates to meet your water usage needs. Please select the appropriate model below.

Model No.	System Flow Rate
AAA-124	12 Gallons per Day
AAA-244	24 Gallons per Day
AAA-364	36 Gallons per Day

Model No.	System Flow Rate
AAA-504	50 Gallons per Day
AAA-754	75 Gallons per Day
AAA-1004	100 Gallons per Day

Standard Installation Kit (Included)

1. 4 Gal. Storage Tank	1		2		3		4	
2. Tank Valve								
3. Faucet Kit								
4. Feed Adapter Kit								
5. Drain Saddle	5		6		7		8	
6. Filter Wrench								
7. Tubing (color-coded)								
8. Installation & Operation Manual								

Blue, Yellow, Orange, Black

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Spare Parts for AAA Series Under the Counter RO Sys.

Replacement Filter Kits

Model Number	Description	Image
RFK-5	Replacement Filter Cartridge Kit for 5 Stage & 6 Stage AAA Series Systems Includes: (1) 5 Micron Sediment H-F1005CF, (2) 10 Micron Carbon Block H-F2510AC, and (1) GAC In-Line Post Filter H-F1032-43QC. <i>Membrane sold separately.</i> <i>Recommended Change-Out Schedule: Filter Cartridges every 6 months; Membrane Elements Yearly.</i>	
RFK-5-PRE	Replacement Pre-Filter Only Filter Cartridge Kit for 5 Stage & 6 Stage AAA Series Systems Includes: (1) 5 Micron Sediment H-F1005CF and (2) 10 Micron Carbon Block H-F2510AC. <i>Membrane sold separately.</i> <i>Recommended Change-Out Schedule: Filter Cartridges every 6 months; Membrane Elements Yearly.</i>	
RSC-50YEAR	Replacement Membrane & Filter Cartridge Kit for 50SC 50 GPD Simple-Change™ System Includes a 1 year supply* of replacements: (2) Pre-Sediment Filters RSC-50S, (2) Pre-Carbon Filters RSC-50C, (1) RO Membrane RSC-50M, (1) Post-Carbon RSC-50P. <i>*Recommended Change-Out Schedule: Prefilters Every 6 mo.; Membrane & Post-Carbon Yearly.</i>	
RSC-100YEAR	Replacement Membrane & Filter Cartridge Kit for 100SC 100 GPD Simple-Change™ System Includes a 1 year supply* of replacements: (2) Pre-Sediment Filters RSC-100S, (2) Pre-Carbon Filters RSC-100C, (1) RO Membrane RSC-100M, (1) Post-Carbon RSC-100P. <i>*Recommended Change-Out Schedule: Prefilters Every 6 mo.; Membrane & Post-Carbon Yearly.</i>	

Membranes & Filters (for AAA units)		
Membrane Elements		
M-T11512A12 – 12 GPD	M-T1812A50 – 50 GPD	
M-T1812A24 – 24 GPD	M-T1812A75 – 75 GPD	
M-T1812A36 – 36 GPD	M-T1812A100 – 100 GPD	
Sediment Filter	Carbon Pre-Filter	Filter Housing
H-F1005CF	H-F2510AC	H-H14FWW33
Carbon Post-Filter	Membrane Housing	
H-F1032-43QC	PV2012PME	

Replacement Components		
Tank	Tank Valve	Feed Ball Valve
H-S4010ANW	PPSV500822W	PPSV010822W
Filter Wrench	Housing Clip	Post-Filter Clip
H-C9200	H-J2028PW	H-J2021KW
Tubing (500' Roll):		Check Valve (in elbow fitting)
Blue: PE-08-BI-0500FB		
Yellow: PE-08-BI-0500FY		
Orange: PE-08-BI-0500FO		
Black: PE-08-BI-0500FE		
White: PE-08-BI-0500FW		
H-V1003		

Replacement Components		
Flow Restrictors		
H-R2051QC – 12 GPD	H-R2068QC – 50 GPD	
H-R2062QC – 24 GPD	H-R2069QC – 75 GPD	
H-R2064QC – 36 GPD	H-R1000QC – 100 GPD	
Faucet	Drain Saddle	Auto Shut-Off
H-T5019	H-D3000M	H-V1050W-QC

Replacement Fittings	
Union Tee	Straight
PI0208S	PI010822S
Stem Adapter	Male Elbow
PI050822S	1/4" x 1/4": PI480821S
	1/4" x 1/8": PI480822S

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Countertop Water Filtration Systems

AMI Countertop Water Filtration Kits require very minimal installation and filter water directly from the tap. The system sits beside the sink and uses a diverter valve attached to the faucet to supply feed water. The single-cartridge system removes sediment and chlorine as well as objectionable taste and odor from your tap water.



- Fully Assembled with a 10 Micron Extruded Carbon Filter Cartridge to Remove:
 - Sediment
 - Chlorine
 - Organics
 - Color
 - Tannin
 - Objectionable tastes and odors
- Dispensing Spout is Attached Directly to the System – No Need to Drill a Hole in the Sink or Drain Line.
- 100% System Recovery – No Wasted Water
- Portable and Reusable, Can be Moved from Sink to Sink with Ease
- System includes: Filter Cartridge & Housing, 8" Chrome Dispensing Spout, Faucet Diverter Valve, and 4 feet of white ¼" Tubing.
- Approximate Size of System: 12.5"H x 4.5" Diameter Base (10"W at the widest point)

Ordering Information

Model No.	Description
H-H4500CT	Complete Countertop System with White Filter Housing (shown in photo)
H-H4500CTCL	Countertop System with Clear Filter Housing (not shown)

Standard Installation Kit (Included)

1. Chrome diverter valve attaches to a standard threaded faucet. An external adapter is also supplied for threadless faucets. The handle on the valve allows you to switch the water flow back and forth from the sink to the filter without disconnecting the valve.
2. White ¼" tubing, (approx. 4 ft.) for connecting the filter feed to the sink faucet.
3. Filter wrench for easy filter cartridge change out.



Replacement Components

Replacement Filter	Diverter Valve	Faucet	Tubing (500' Roll)	Filter Wrench
				
H-F2510AC	H-V1200	H-H4500CTSP	PE-08-BI-0500FW	H-C9200BK

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AMI[®] Point of Entry Water Treatment

Whole House Carbon and Sediment Filter Assemblies

AMI point of entry filter systems provide filtered water to an entire home or business facility. Available in 10" or 20" sizes, and two or three stage configurations. Pressure relief housings and inlet/outlet shut-off valves included for easier filter replacement.

Specifications:

- Maximum Flow Rate: 10" Filters: 6 GPM; 20" Filters: 10 GPM
- Maximum Water Temperature: 90°F
- Maximum Water Pressure: 80 psi
- In/Out Connections: 1" FNPT

Filter Types:

- **Fine Sediment:** First stage 5 micron filter catches the larger particles in the water stream, and a second stage filters down to 1 micron.
- **Sediment & Carbon:** First stage 5 micron filter removes sediment from water, second (and third) stage carbon filter removes chlorine, organics, color, tannin, and objectionable tastes and odors.
- *Other filter cartridge combinations or assemblies without cartridges are available upon request.*



Model No.	Filter Type	# of Stages	Filter Length	Filter #1	Filter #2	Filter #3
FA-210BB-51	Fine Sediment	2	10"	5 Micron H-F10BB05CF	1 Micron H-F10BB01CF	n/a
FA-210BB-5C	Sediment & Carbon	2	10"	5 Micron H-F10BB05CF	Carbon Block H-F4210AC	n/a
FA-220BB-51	Fine Sediment	2	20"	5 Micron H-F20BB05CF	1 Micron H-F20BB01CF	n/a
FA-220BB-5C	Sediment & Carbon	2	20"	5 Micron H-F20BB05CF	Carbon Block H-F4220AC	n/a
FA-310BB-5CC	Sediment & Carbon	3	10"	5 Micron H-F10BB05CF	Carbon Block H-F4210AC	Carbon Block H-F4210AC
FA-320BB-5CC	Sediment & Carbon	3	20"	5 Micron H-F20BB05CF	Carbon Block H-F4220AC	Carbon Block H-F4220AC



10" Double



20" Double



10" Triple



20" Triple

Optional Equipment: In/Out Pressure Gauges

Model No.: A624

In and Out pressure gauges may be added on in order to monitor differential pressure of the filter system, to indicate when the filters need to be replaced. To include these in your system, add model number A624 to your order. Includes (2) 0-100 psi pressure gauges and installation tees.



Model Number A624

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Anti-Scale Water Heater Systems & Leak Controllers

Anti-Scale Systems for Tankless Water Heaters or Whole-House Scale Protection

- Prevent scale formation to improve efficiency and prolong the life of your water heater, household appliances, or other downstream equipment.
- The fully assembled, ready to install system is supplied complete with:
 - 20" Filter Housing with ¾" In/Out Connectors
 - Anti-Scale Filter Cartridge
 - Heavy Duty Steel Mounting Bracket
 - Inlet Ball Valve, Pressure Relief Button & Filter Wrench for Easy Cartridge Change-Out.
- Operating Limits: MAX Pressure: 90psi (6.3kg/cm²);
MAX Temperature: 100°F(38°C)
- Service Flow Rate: 0.5 to 10 gpm (1.9 to 38 lpm)
- Capacity: up to 6gpm, 24/7/365 for 2 years*
- Approximate Dimensions: 29"H × 7.5"W × 7.5"D



Model No. FA-120BB-S

*Cartridge should be replaced every two years.

Replacement cartridge: C-C4220-NS

Leak Controller – Water Alarm and Shut-Off System to Defend Against Water Damage

Upon sensing moisture, Leak Controller will engage the shut-off valve and sound an alarm. The water source is cut off, stopping the leak while the alarm continues to sound until the valve is manually reset. By preventing continuous water flow, mold and property damage are restricted and user liability is reduced. Leak Controller is designed for simple installation and operation. Leak controller can be connected to: Water Purification Systems, Refrigerators/Ice Makers, Coffee Makers, Industrial Applications, and more.

Model No. LCS-25



- Made in USA
- NSF Approved Ball Valve with Auto Shut-off
- Programmable Service Reminder & Status Test Button
- Audio Alarm
- Maximum Water Temperature to 140°F
- Connections: ¼" for Plastic or Copper Tubing
- Audio and Blue LED Indicators
- LeakLogic RISC Based Logic Control
- Stainless Steel 2 Screw Mounting Plate with Hardware
- Sensor Contacts Stainless Steel Plated
- 4 "AA" Alkaline Batteries for Extended Operation
- Built with Superior Impact Resistant ABS Plastic and Reinforced Nylon & Glass Materials on Stressed Components
- One Sensor Included with Coin Test Slot & Series Connectors & Water Detection Sensitivity Down to 2ppm TDS

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Components for Residential RO Systems

Water Quality Monitors & Membrane Housings

In-Line Water Quality Monitors for Residential Point of Use RO Systems



- Install on a home RO System to measure and display the TDS levels of the purified product water and/or incoming feed water.
- Highly efficient and accurate due to its advanced microprocessor technology.
- Auto-Off function conserves battery power. The unit shuts off automatically after non-use.
- Factory calibrated with a 342 ppm NaCl solution. Meters can be recalibrated with a mini-screwdriver.
- Includes 1/4" Quick-Connect T-fittings for quick and easy installation. (3/8" or 1/2" fitting available upon request)
- Cable Length: 24.5"* (including sensor) *DM-2 comes with 46" shielded cables.

Model No.	Description	Measures	Range	Sensors	Accuracy
DM-1	In-Line Dual TDS Monitor	TDS	Dual Range: 0-999 ppm or 1,000-9,990 ppm	Dual (in & out)	± 2%
DM-2	Commercial In-Line Dual TDS Monitor <i>Differences from DM-1:</i> <ul style="list-style-type: none"> • Water-Resistant • In-Line Dual TDS • Larger Display • Digital Calibration • 46" Shielded Cables 	TDS	Dual Range: 0-999 ppm or 1,000-9,990 ppm	Dual (in & out)	± 2%
SM-1	In-Line Single TDS Monitor	TDS	Dual Range: 0-999 ppm or 1,000-9,990 ppm	Single (1)	± 2%
QC-1	Quick Check "Push to Check" Monitor with Green "Good" and Red "Service" Lights. Eight programmable set points.	TDS & Conductivity	0-5,000 ppm 0-10,000 µS	Single (1)	± 3%



DM-1



DM-2



SM-1

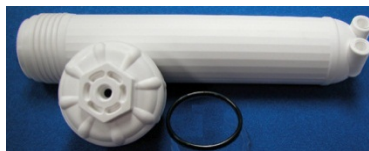


QC-1

AMI® Membrane Housings for Residential RO Membranes



- AMI Polypropylene membrane housing with o-ring
- Fits standard 1.5 to 2" dia., 12" L membrane elements
- PV2012FS fits std. 1.5 to 1.85" dia., 12" L elements
- 1/8" FNPT in and out connections



PV2012PME



PV2012FS

Model No.	Feed Port (IN) Connection	Product/BrinePorts (OUT) Connection
PV2012PME	Straight	90° Elbow
PV2012FS	90° Elbow	90° Elbow

Pentek® RO Membrane Housing

- NSF listed component
- Manufactured from an FDA-approved polypropylene
- Accommodates most standard 12" membrane elements
- 1/8" FNPT connections, with 90° elbow outlets



Model No.	Feed Port (IN) Connection	Product/BrinePorts (OUT) Connection
144376	Straight	90° Elbow

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Components for Residential RO Systems

Long Reach Faucets & Filter Monitors

AMI Long Reach RO Faucets



Model No.	Type	Plating	Description
H-T5019	Non-Air-Gap	Chrome Plated	Our Most Economically Priced Faucet
H-T5020	Non-Air-Gap	Lead Free, Chrome Plated	NSF Approved
H-T5022	Air Gap	Lead Free, Chrome Plated	NSF Approved



Tomlinson Designer & Contemporary RO Faucets



- NSF listed to ANSI NSF Std. 61, AB1953 compliant
- Universal design can be used as either Air Gap, or Non-Air Gap by using the adapter included with each faucet
- Designs complement today's high-end kitchens, with 9 designer finishes to match any décor
- Lever-style handles
- Protective spout tip design prevents after-drip
- Internal ceramic disc provides smooth operation
- High reach neck of 12" (305 mm) swivels 360°
- All mounting hardware is included
- Preinstalled tubing for quick connections
- Patented modular air gap (U.S. patent #7,011,106)
- Retrofits most brands
- Two-year warranty



Designer Style



Contemporary Style

Model No.	Finish (Color)*	Style
1019299	Polished Chrome	Designer
1019303	White	Designer
1019305	Biscuit	Designer
1019307	Black	Designer
1019301	Satin Nickel	Designer
1019311	Antique Bronze	Designer
1019444	Bright Nickel	Designer
1019309	Polished Brass	Designer
1020518	Brushed Stainless	Designer

Model No.	Finish (Color)*	Style
1020587	Polished Chrome	Contemporary
1020893	White	Contemporary
1020897	Biscuit	Contemporary
1020894	Black	Contemporary
1020889	Satin Nickel	Contemporary
1020891	Antique Bronze	Contemporary
1020892	Bright Nickel	Contemporary
1020895	Polished Brass	Contemporary
1020896	Brushed Stainless	Contemporary

*Visit our website to view photos of the different colors of Tomlinson Faucets: www.appliedmembranes.com/faucets

Filter Monitors with LED Faucet Indicator by HM Digital

The new Filter Monitor is an innovative system to alert when a filter needs to be changed via color-coded lights at the base of the faucet. The battery-powered FM-1 has five timers for a 5-stage system and programmable set-points and alarms for each function.

Model No.	Description
FM-1	Filter Monitor 5-Stage Timer
FM-2	Filter Monitor with Volumizer & 5-Stage Timer



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Components for Residential RO Systems

Flow Restrictors for RO Membranes



Quick Connect Flow Restrictors

- ¼" Tube × ¼" Tube QC Connections
- Encapsulated Capillary



Model No.	Restrictor Flow (mL per Minute)	Calibrated For Membrane (GPD)
H-R2050QC	100	5
H-R2051QC	150	10
H-R2052QC	200	16
H-R2061QC	250	18
H-R2062QC	300	24
H-R2063QC	350	30
H-R2064QC	420	36

Model No.	Restrictor Flow (mL per Minute)	Calibrated For Membrane (GPD)
H-R2068QC	600	50/55
H-R2074QC	650	55
H-R2071QC	750	65
H-R2069QC	850	75
H-R1000QC	1000	100

Male Threaded Flow Restrictors



- ¼" M × ¼" M Connection (Nuts Sold Separately)
- Encapsulated Capillary



Model No.	Restrictor Flow (mL per Minute)	Calibrated For Membrane (GPD)
H-R2051M	150	10
H-R2061M	250	18
H-R2064M	420	36
H-R2065M	550	50

Model No.	Restrictor Flow (mL per Minute)	Calibrated For Membrane (GPD)
H-R2071M	750	65
H-R2069M	850	75
F-1050-004	Nut for M Flow Restrictor ¼" FNPT	

Flow Restrictor Insert



- For Insertion into ½" M Fitting (sold separately)
- Encapsulated Capillary



Model No.	Restrictor Flow (mL per Minute)	Calibrate For Membrane (GPD)
H-R2066	300	24
H-R2087	350	30
H-R2067	400	35

Flow Restrictor Insert in Fitting



AMI Insert Flow Restrictor Assembled into ¼" T × ½" M AMI Quick Connect Elbow Fitting

Model No.	Restrictor Flow (mL per Minute)	Calibrated For Membrane (GPD)
H-R2057QC	250	18
H-R2087QC	350	30
H-R2067QC	400	35



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Components for Residential RO Systems

Pressurized Storage Tanks

AMI RO Storage Tanks

- Certified to ANSI/NSF 058
- Stainless Steel System Connection
- Maximum Working Pressure: 100 psi; Pre-Charge: 7 psi

Model No.	Capacity (Gal.)		Color	Conn.	Dimensions	
	Total	Usable			Height	Dia.
H-S4015ANW	3.2	2.8	White	¼" M	15"	9"
H-S4010ANB	4.5	3.2	Blue	¼" M	15"	11"
H-S4010ANW	4.5	3.2	White	¼" M	15"	11"
H-S4016ANW	6.5	5.2	White	¼" M	17"	12"

Non-Removable Bladders • Tank shut-off switch sold separately – see next page.



H-S4015ANW

H-S4010ANW

ROMATE® Large Capacity Plastic – Alloy Pressurized Storage Tanks

- Maximum Operating Pressure & Temperature: 125 psi; 120°F
- Material of Construction: Polyethylene inner shell, fiberglass exterior NSF and/or FDA listed materials, 100% Lead-free, will not introduce chemicals or elements into water.

Model No.	Capacity (Gal.)		Conn.	Dimensions	
	Total	Usable*		Height	Dia.
ROMATE15	15	10	1" M	26.5"	16"
ROMATE20	20	13	1" M	32.5"	16"
ROMATE30	30	20	1" M	44.5"	16"
ROMATE40	40	27	1" M	57.5"	16"
ROMATE80	80	58	1¼" M	56.5"	24"

Non-Removable Bladders

* Approximate usable volume is based on 60 PSI Shutoff and 10 PSI Charge



AMTROL® Storage Tanks

- Made in USA at an ISO Certified facility
- All Models NSF Listed
- Steel tank with fully enclosed polypropylene and butyl water reservoir

Model No.	Product Name	Capacity (Gal.)		Conn.	Dimensions	
		Total	Usable*		Height	Dia.
143-132	RO-10	10	7	¾" M	17 ⅜"	15 ⅜"
143-293	RO-14	14	10	¼" M	22 ⅜"	15 ⅜"
143-198	RO-14	14	10	¾" M	22 ⅜"	15 ⅜"
144-120	RO-20	20	12	1" M	31 ¾"	15 ⅜"
147-47	RO-34	34	20	1 ¼" M	22"	29 ½"
147-69	RO-44	44	27	1 ¼" M	22"	36"
150-6	RO-86	86	53	1 ¼" M	26"	47 ⅞"

* Approximate usable volume is based on 50 psi feed pressure and 5 psi charge.



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Components for Residential RO Systems

Tank Valves, Ball Valves, Float Valves, Shut-Off Valves

AMI® Tank Valves and Threaded Ball Valves

- AMI Two-Way Ball Valves shut off the flow of the water to and from equipment with a ¼ twist of the handle.
- Female National Pipe Thread (FNPT), Quick Connect (QC) Connections, and Male Compression fittings.

Model No.	Shape	Connections	Material
H-S4033	Straight	¼" FNPT × ¼" FNPT	Gray Plastic
H-S4047	Elbow	¼" FNPT × ¼" Male (compression nut included)	White Polypropylene

*Note: H-S4044QC (¼" FNPT × ¼" QC Elbow) has been discontinued. Please refer to replacement # PPSV500822W in table below.



H-S4033



H-S4047

John Guest® Speedfit™ Ball Valves

- White Polypropylene
- Speedfit for Faster Installation



Straight



Elbow



Model No.	Connections	Style
PPSV040808W	¼" T × ¼" T	Straight
PPSV041212W	¾" T × ¾" T	Straight
PPSV010822W	¼" T × ¼" M	Straight
PPSV011223W	¾" T × ¾" M	Straight
PISV0416S	½" T × ½" T	Straight
PPSV500822W	¼" T × ¼" F	Elbow
PPSV501222W	¾" T × ¼" F	Elbow

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AMI® Float Valves

- Automatically shut off water feed when the water level reaches a specified level within the storage reservoir.
- ¼" Compression Fittings

Model No.	Description
H-V1012	Horizontal Float Valve, ¼"
H-V1014	Vertical Float Valve, ¼"



AMI® Automatic Shut-Off Valves

For use in a point of use RO with pressurized storage tank, these valves automatically shut off the feed water supply when the tank pressure reaches approximately 65% of the line pressure.

Model No.	Connection	Color
H-V1050B	¼" Male w/Nuts	Black
H-V1050W	¼" Male w/Nuts	White
H-V1050FB-QC	¼" Quick Conn.	Black
H-V1050W-QC	¼" Quick Conn.	White
H-V1050FB - NSF listed	¼" Male W/Nuts	Black



H-V1050B



H-V1050W



H-V1050FB-QC

Accessories for Shut-Off Valves

Model No.	Description
H-B2050B	Bracket/Clip - Black
H-B2050W	Bracket/Clip - White
F-1050-003	¼" White Compression Nut
F-1050-004	¼" Black Compression Nut



H-B2050B/W



F-1050-003



F-1050-004



H-V1050W-QC



H-V1050FB



NSF COMPONENT



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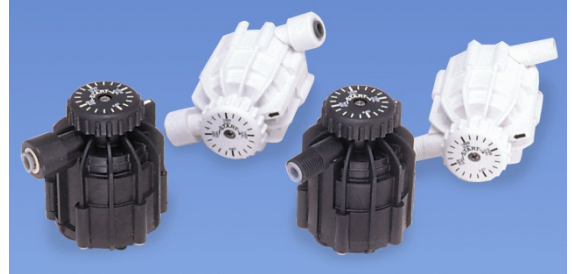
Components for Residential RO Systems

Gallon Meters, Check Valves, Drain Saddles, Feed Valves

Waterminder™ Gallon Meter Auto Shut-Off Valves

For use on an RO System, these meter valves provide automatic shut off of a potable water system for filter replacement after a pre-determined quantity of water has been filtered. Meters are equipped with a dial for adjustment in increments of 100 gallons.

- Operating Pressures from 15 to 125 psi
- Manufactured using NSF listed materials



Model No.	Capacity	Connection	Color
WM2000B	1,800 gallons	¼" Male Threaded	Black
WM2000W	1,800 gallons	¼" Male Threaded	White
WM2000HCB	1,800 gallons	¼" Quick Connect	Black
WM3000W	3,800 gallons	¼" Male Threaded	White
WM3000B	3,800 gallons	¼" Male Threaded	Black

AMI® Check Valves

Protect membrane elements by preventing backflow in the permeate line.



In Elbow



Male Threaded



RC385OR (O-Ring Not Shown)

Model No.	Description
H-V1001	Installed into ¼"T × ⅛"M Elbow, nut included.
H-V1002	Installed into ¼"T × ⅛"M Straight, nut included.
H-V1003	Installed into ¼"T × ⅛"M Elbow, Quick Connect.
RC385OR	Inserts into membrane permeate tube. With O-Ring
YFCV2500SS	Male threaded check valve, ¼"M × ¼"M
YFCV1800SS	Male threaded check valve, ⅛"M × ⅛"M



AMI® Drain Saddles

Used to connect reject line of point of use RO to a sink drain line.

Model No.	Tubing Connection	Color
H-D3000QC	¼" Quick Connect	White
H-D3000M	¼" Male Nut (compression nut included)	Black



H-D3000QC







H-D3000M



AMI® Feed & Diverter Valves

AMI feed valves are used to connect point of use RO systems to the sink to supply water to the system.

Model No.	Description	Image
H-V1008T	Clamp/Needle Self-Piercing Style Feed Valve, Flat/Saddle Style Used to pierce through hard copper pipes. Connects to ¼" tubing, compression nut included.	 H-V1008T
H-V1011T	Clamp/Needle Self-Piercing Style Feed Valve, C-Frame Style Used to pierce through hard copper pipes. Connects to ¼" tubing, compression nut included.	 H-V1011T
H-V1009	Chrome Adapter for use between a standard kitchen sink faucet line and the supply line from angle stop. ½" FNPT × ½" MNPT. Includes connecting ball valve with ¼" tubing connection, nut included.	
H-V1200	Chrome diverter valve attaches to a standard threaded faucet. The handle on the valve allows you to switch the water flow back and forth from the sink to the filter without disconnecting the valve.	



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Components for Residential Systems

Mounting Brackets and Clips

AMI® RO and Filter Brackets



Model No.	Description	Image
Brackets for Systems Using Standard Filter Housings		
H-B2010W	Single 10" or 20" Standard Housing Up to 3/4" Port	
H-B2020W	(2) Std. Housings or 4-Stage RO Lip Down	
H-B2021W	(2) Std. Housings or 4-Stage RO Lip Up	
H-B2031W	(3) Std. Housings or 5-Stage RO Lip Down	
H-B2030W	(3) Std. Housings or 5-Stage RO Lip Up	
H-B2044W	(3) Std. Housings, 5 or 6-Stage RO w/ Booster Pump or UV	

Model No.	Description	Image
Brackets for Systems Using Big Blue Filter Housings		
H-B2039W	Single 10" or 20" Big Blue Filter Housing	
H-B2052	(2) 10" or 20" Big Blue Filter Housings	
H-B2053	(3) 10" or 20" Big Blue Filter Housings	
Other Brackets		
H-BRO1P	Bracket for RO Faucet	

Mounting Screws for Filter Brackets

Model No.	Description
H-S1034	#10 3/4" Phillips Screws
H-S1012	#10 1/2" Phillips Screws
H-S1035	6-32 1/2" SS P-Part/Nut

AMI® Mounting Clips



Model No.	Description	Image
H-J2029	Flow Restrictor Clip with Adhesive Back Color: White	
H-J2025PW	Membrane Housing Clip with Screw Hole for Bracket Color: White	
H-J2030W	Membrane Housing to Membrane Housing Clip Color: White	
H-J2021KW	Membrane Housing to In-Line Filter Clip Color: White	

Model No.	Description	Image
H-J2028PW	In-Line Filter with Screw Hole for Bracket Color: White	
H-B2050W	Shut-Off Valve Clip w/ Screw Hole for Bracket Color: White	
H-B2050B	Shut-Off Valve Clip w/ Screw Hole for Bracket Color: Black	
H-B2051P	Permeate Pump Clip with Screw Hole for Bracket Color: Black	

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Components for Residential Systems

Mounting Brackets and Clips

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JACO® Brand Nylon Threaded Fittings

M: Male
F: Female
T: Tubing

Also available in Polypropylene or other materials upon request.


Male Straight Connectors

Model No.	Description
10-4-2-N-O	¼" T x ⅛" M ST
10-4-4-N-O	¼" T x ¼" M ST
10-4-6-N-O	¼" T x ⅜" M ST
10-6-4-N-O	⅜" T x ¼" M ST
10-6-2-N-O	⅜" T x ⅛" M ST
10-6-6-N-O	⅜" T x ⅜" M ST
10-8-8-N-O	½" T x ½" M ST




Female Straight Connectors

Model No.	Description
25-4-2-N-O	¼" T x ⅛" F
25-4-4-N-O	¼" T x ¼" F
25-6-6-N-O	⅜" T x ⅜" F
25-6-4-N-O	⅜" T x ¼" F
25-8-8-N-O	½" T x ½" F




Union Connectors

Model No.	Description
20-4-N-O	¼" Bulkhead Union
15-4-N-O	¼" T x ¼" T Union
15-6-N-O	⅜" T x ⅜" T Union
15-6-4-N-O	⅜" T x ¼" T Reducing




Male Branch Tees

Model No.	Description
60-4-2-N-O	¼" T x ¼" T x ⅛" M
60-4-4-N-O	¼" T x ¼" T x ¼" M
60-6-4-N-O	⅜" T x ⅜" T x ¼" M
60-8-6-N-O	½" T x ½" T x ⅜" M
60-8-8-N-O	½" T x ½" T x ½" M




Male Run Tees

Model No.	Description
75-4-2-N-O	¼" T x ¼" T x ⅛" M
75-4-4-N-O	¼" T x ¼" T x ¼" M
75-6-4-N-O	⅜" T x ⅜" T x ¼" M
75-6-6-N-O	⅜" T x ⅜" T x ⅜" M
75-8-6-N-O	½" T x ½" T x ⅜" M




Union Tees

Model No.	Description
70-4-N-O	¼" T ALL SIDES
70-6-N-O	⅜" T ALL SIDES
70-8-N-O	½" T ALL SIDES




Male Elbows

Model No.	Description
40-4-2-N-O	¼" T x ⅛" M
40-4-4-N-O	¼" T x ¼" M
40-4-6-N-O	¼" T x ⅜" M
40-6-4-N-O	⅜" T x ¼" M
40-6-6-N-O	⅜" T x ⅜" M
40-8-8-N-O	½" T x ½" M




Union Elbows

Model No.	Description
50-4-N-O	¼" Union
50-6-N-O	⅜" Union




Female Elbows

Model No.	Description
45-4-2-N-O	¼" T x ⅛" F
45-4-4-N-O	¼" T x ¼" F
45-6-4-N-O	⅜" T x ¼" F




Tubing Inserts

Model No.	Description
P-4-N	¼"
P-6-N	⅜"




Compression Nuts

Model No.	Description
N-O-4-BLK	¼" Black
N-O-4-WHITE	¼" White
N-O-6-BLK	⅜" Black



Hex Nipples

Model No.	Description
PN-4-P	¼" M x ¼" M Hex Nipple
PN-6-P	⅜" M x ⅜" M Hex Nipple



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John Guest Brand Quick Connect Fittings

Working Pressures and Temperatures:

Maximum: 150 psi@ 70°F (10 Bar @ 20°C)
60 psi@ 140°F (4 Bar @ 60°C)

Minimum: 33°F (1°C)


Connections Codes:

M: Male Thread **T:** Tubing **G:** Grey **B:** Blue
F: Female Thread **S:** Stem **W:** White

Color Codes:

Union Tees


Model No.	Description	Color
PI0208S	¼" T	G
CI0208W	¼" T	W
PI0212S	⅜" T	G
CI0212W	⅜" T	W
PI0216S	½" T	G



Male Straight Connectors


NPTF Thread

Model No.	Description	Color
PI010821S	¼" T × ⅛" M	G
CI010821W	¼" T × ⅛" M	W
PI010822S	¼" T × ¼" M	G
CI010822W	¼" T × ¼" M	W
PI010823S	¼" T × ⅜" M	G
PI011221S	⅜" T × ⅛" M	G
PI011222S	⅜" T × ¼" M	G
CI011222W	⅜" T × ¼" M	W
PI011223S	⅜" T × ⅜" M	G
PI011224S	⅜" T × ½" M	G
PI011624S	½" T × ½" M	G
F-010422S1	5/32" T × ¼" M	W



Reducing Branch Tees


Model No.	Description	Color
PI301208S	⅜" T End × ⅜" T End × ¼" T Branch	G
PI301612S	½" T End × ½" T End × ⅜" T Branch	G



Fixed Male Elbows

NPTF Thread


Model No.	Description	Color
PI480821S	¼" T × ⅛" M	G
CI480821W	¼" T × ⅛" M	W
PI480822S	¼" T × ¼" M	G
CI480822W	¼" T × ¼" M	W
PI480823S	¼" T × ⅜" M	G
CI480823W	¼" T × ⅜" M	W
PI481222S	⅜" T × ¼" M	G
CI481222W	⅜" T × ¼" M	W
PI481223S	⅜" T × ⅜" M	G
PI482024S	5/8" T × ½" M	G



Male Stem Adaptors


NPTF Thread

Model No.	Description	Color
PI050821S	¼" S × ⅛" M	G
CI050821W	¼" S × ⅛" M	W
PI050822S	¼" S × ¼" M	G
CI050822W	¼" S × ¼" M	W
PI051222S	⅜" S × ¼" M	G
CI051222W	⅜" S × ¼" M	W
PI051223S	⅜" S × ⅜" M	G
CI051223W	⅜" S × ⅜" M	W
PI051623S	½" S × ⅜" M	G
PI051624S	½" S × ½" M	G




Union Elbows & Reducing Union Elbows

Model No.	Description	Color
PI0308S	¼" T × ¼" T	G
CI0308W	¼" T × ¼" T	W
PI0312S	⅜" T × ⅜" T	G
CI0312W	⅜" T × ⅜" T	W
PI0316S	½" T × ½" T	G
PI211008S	5/16" T × ¼" T	G
PI211208S	⅜" T × ¼" T	G
PI211612S	½" T × ⅜" T	G




Stem Reducers

Model No.	Description	Color
CI061208S	⅜" S × ¼" T	W
CI061208W	⅜" S × ¼" T	W
PI061612S	½" S × ⅜" T	G




Plugs

Model No.	Description	Color
PI0808S	¼" Plug	B
PI0812S	⅜" Plug	B
PI0816S	½" Plug	B



Stem Elbows

Model No.	Description	Color
PI220808S	¼" S × ¼" T	G
CI220808W	¼" S × ¼" T	W
PI221208S	⅜" S × ¼" T	G
PI221212S	⅜" S × ⅜" T	G



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John Guest Brand Quick Connect Fittings

Working Pressures and Temperatures:

Maximum: 150 psi @ 70°F (10 Bar @ 20°C)
60 psi @ 140°F (4 Bar @ 60°C)

Minimum: 33°F (1°C)

Connections Codes:

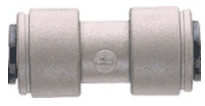
M: Male Thread **T:** Tubing
F: Female Thread **S:** Stem

Color Codes:

G: Grey
W: White


Union Connectors & Reducing Unions

Model No.	Description	Color
PI0408S	¼" T × ¼" T	G
CI0408W	¼" T × ¼" T	W
PI0412S	⅜" T × ⅜" T	G
CI0412W	⅜" T × ⅜" T	W
PI0416S	½" T × ½" T	G
PI200806S	¼" T × ⅜" T	G
PI201008S	5/16" T × ¼" T	G
PI201208S	⅜" T × ¼" T	G
PI201612S	½" T × ¼" T	G



Bulkhead Unions & Reducers


Model No.	Description	Color
PI1208S	¼" T × ¼" T	G
PI1212S	⅜" T × ⅜" T	G
PI1216S	½" T × ½" T	G
PI121208S	⅜" T × ¼" T	G



Female Connectors

NPTF Thread


Model No.	Description	Color
PI450822S	¼" T × ¼" F	G
PI451222S	⅜" T × ¼" F	G



Female Flare Connectors

FFL Thread, 45° Flare

Model No.	Description	Color
PI4512F4S	⅜" T × ¼" F	G
PI4512F6S	⅜" T × ⅜" F	G




Female Cross

Model No.	Description	Color
PI4712S	⅜" T – All Sides	G




End Stop

Model No.	Description	Color
PI4608S	¼" T	G
PI4612S	⅜" T	G




Barb Connector

Model No.	Description
CI270808W	¼" Supeseal × ¼" Hose



Dividers and U-Bend


Model No.	Description	Color
PI2312S	⅜" T In & Out Two-Way Divider	G
PI491612S	½" T In × ⅜" T Out Three-Way Divider	G
PIUB16S	½" In & Out U-Bend	G



Faucet Connectors


UNS Thread

Model No.	Description
CI3208U7S	¼" T × 7/16" Thread
CI3212U7S	⅜" T × 7/16" Thread




Tube to Hose Stem

Model No.	Description	Color
PI250808S	¼" S × ¼" Hose	G
PI251208S	⅜" S × ¼" Hose	G
PI251212S	⅜" S × ⅜" Hose	G
PI251216S	⅜" S × ½" Hose	G
PI251612S	½" S × ⅜" Hose	G
PI251616S	½" S × ½" Hose	G



Tube to Hose Elbow

Model No.	Description	Color
PI290808S	¼" S × ¼" Hose	G
PI291208S	⅜" S × ¼" Hose	G



Collet Covers


Model No.	Size	Color
PI1908B	¼"	Blue
PI1908R	¼"	Red
PI1908S	¼"	Gray
PI1908Y	¼"	Yellow



Model No.	Size	Color
PI1912B	⅜"	Blue
PI1912R	⅜"	Red
PI1912S	⅜"	Gray

Locking Clips

Model No.	Description
PIC1808R	For ¼" Tubing
PIC1812R	For ⅜" Tubing
PIC1816R	For ½" Tubing



Other Fitting Components & Support

Model No.	Description
PI2808S	Half Cartridge ¼"
TS250000S	Tube Support ¼"
CP-C081-DG	¼" Collet – Gray
CP-C121-DG	⅜" Collet – Gray
CP-C161-DG	½" Collet – Gray

Model No.	Description
TSPT001	Release Tool ¼" & ⅜"
CP-R081-S	¼" O-Ring
CP-R121-S	⅜" O-Ring
CP-R161-S	½" O-Ring

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Components for Residential Systems

Tubing, O-Ring Lubricant, Auto Flush Timers

John Guest LLDPE Tubing



The John Guest PE range of plastic tubing is produced in Linear Low Density Polyethylene for cold and intermittent hot water applications. This tubing is made from FDA compliant non-contaminating materials and is NSF International certified. Designed for use with all standard tubing connectors.

Model No.	Size	Color	Ft. Per Roll
PE-08-BI-0500FB	¼"	Blue	500'
PE-08-BI-0500FW	¼"	White	500'
PE-08-BI-0500FE	¼"	Black	500'
PE-08-BI-0500FG	¼"	Green	500'
PE-08-BI-0500FN	¼"	Natural	500'
PE-08-BI-0500FO	¼"	Orange	500'
PE-08-BI-0500FY	¼"	Yellow	500'
PE-08-BI-1000FW	¼"	White	1000'

Model No.	Size	Color	Ft. Per Roll
PE-12-EI-0500FB	¾"	Blue	500'
PE-12-EI-0500FE	¾"	Black	500'
PE-12-EI-0500FR	¾"	Red	500'
PE-12-EI-0500FW	¾"	White	500'
PE-16-GI-0250FB	½"	Blue	250'
PE-16-GI-0250FN	½"	Natural	250'
PE-16-GI-0250FW	½"	White	250'



Sold in full roll quantities only.

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Tubing Cutter

Model No.	Description
H-TUPTC-001	Tube Cutter - Cuts Plastic Tubing up to ½"



Lubricant

Model No.	Description
H-C111DC	High grade silicone for RO Vessel O-Rings, 5 oz. Tube DOW Corning 111, NSF 61
AM-225	Glycerine Lubricant, 1 Gallon Container



Aquatec Automatic Flush Flow Restrictors/Timers for RO Systems



Aquatec's Auto Flush Timers are engineered to maximize system efficiency and prolong membrane life. These components utilize a normally closed solenoid valve which automatically "power flushes" the membrane upon start-up and then subsequently for 15-20 seconds every hour. This turbulent water action removes organic and inorganic contaminants from the membrane surface. Any standing, idle water in the membrane module is automatically purged to the drain.

Model No.	With Flow Restrictor	For Membrane Flow (GPD)	In/Out Connections
AFR603	300 M/L per Min.	25	¼" w/ Compression Nut
AFR604	400 M/L per Min.	35	¼" w/ Compression Nut
AFR605	500 M/L per Min.	50	¼" w/ Compression Nut
AFR606	600 M/L per Min.	50	¼" w/ Compression Nut
AFR607	700 M/L per Min.	75	¼" w/ Compression Nut
AFR608	800 M/L per Min.	75	¼" w/ Compression Nut



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Booster Pumps for Residential RO



Aquatec Booster Pumps and Accessories

Aquatec Booster Pumps

- Booster pumps provide reliable inlet pressure for efficient membrane utilization and are ideally suited for continuous duty.
- Safe operation with low voltage AC motors. Can be used with compatible transformers (100VAC, 120VAC, 230VAC to be ordered separately).
- Built-in Fittings: 1/4" or 3/8" Quick Connect or Threaded Compression

These pumps are commonly used with one or more flow control components including: pressure switches, tank level controllers, or electronic shut-off valves. A typical "RO Kit" includes a booster pump, pressure switch, and transformer – all system components are sold separately.



Model No.	Flow @60 psi	Additional Information	
6800 Series – Low Flow Pumps for use with 10 to 36 GPD RO Systems			
6840-2J03-B221S	0.11 GPM (0.43 LPM)	<ul style="list-style-type: none"> • 1/4" Quick Connect Ports • 7 ft. Prime 	<ul style="list-style-type: none"> • 110 psi By-Pass Pressure Relief Control Valve • Flexible Mounting Plate
8800 Series – High Flow Pumps for use with 50 to 100 GPD RO Systems			
8851-2J03-B423	0.37 GPM (1.4 LPM)	<ul style="list-style-type: none"> • Quick Connect Ports • 7 ft. Prime 	<ul style="list-style-type: none"> • 110 psi By-Pass Pressure Relief Control Valve • Universal Base Plate
8851-2J03-B323	0.37 GPM (1.4 LPM)	<ul style="list-style-type: none"> • Threaded Elbow Con. • 7 ft. Prime 	<ul style="list-style-type: none"> • 110 psi By-Pass Pressure Relief Control Valve • Universal Base Plate

Power Supplies for Aquatec Booster Pumps

Model No.	For Pump	Type of Plug	Input Voltage	Overload Protection
TAS114-19EP	6800	USA	115-120v, 50 Hz	Circuit Breaker, Auto Reset
TAS104-19	6800	Japan	100v, 50/60 Hz	Circuit Breaker, Auto Reset
TAS234-19EP	6800	Europe 2 Prong	230v, 50Hz	Circuit Breaker, Auto Reset
TACS114-48	8800	USA	115-120v, 60 Hz	Thermal Fuse
TACS104-48	8800	Japan	100v, 50/60 Hz	Thermal Fuse
TACS234-48RF	8800	Europe 2 Prong	230v, 50Hz	Circuit Breaker, Auto Reset



Tank Pressure Shut-Off Switches for Aquatec Booster Pumps

Model No.	For Pump	Off Pressure	Conn.
PSW240	6800	40 psi	1/4" QC
PSW260	6800	60 psi	1/4" QC
PSW280	6800	80 psi	1/4" QC



Model No.	For Pump	Off Pressure	Conn.
PSW340	8800	40 psi	3/8" QC
PSW360	8800	60 psi	3/8" QC
PSW380	8800	80 psi	3/8" QC

Additional Accessories for Aquatec Booster Pumps

Model No.	Description
LPS340G	Low Pressure Shut-Off Switch 1/4" MPT Connection
TLC-DC901	Tank Level Control with 3 Sensors for Plastic Tank, 1/4" Threaded Connections
ESO460-24VAC	Electronic Shut-Off Normally Closed Solenoid Valve, 1/4" Threaded Connections
LDS900	Leak Detector Valve and Switch with Sensor

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Pumps for Residential RO Systems

Permeate Pumps & Delivery Pumps



Aquatec Permeate Pumps

- Effective for inlet water pressure as low as 30 psi
- Increases membrane life, lowers "TDS creep" to enhance contaminant rejection
- Fills product tank up to 4 times more rapidly
- Requires no electricity, powered by energy from brine water
- Improves recovery rates by as much as 400%, reduces waste water by up to 80%



Model No.	In/Out Port Type
ERP1000-JG-S	5/16" Male Stem

Fittings for Male Stem Pump:	
P1201008S	5/16" x 1/4" T Reducing Union, Straight
P1211008S	5/16" x 1/4" T Reducing Union, Elbow

Aquatec Delivery Pumps



Model No.	Flow (GPM)	Design Details
<i>Series 5800 Delivery Pumps, Totally Enclosed, Non Ventilated, Permanent Magnet</i>		
5851-7E12-J574	1.0 GPM Open Flow to 0.7 GPM @ 60 PSI	3/8" Quick Connect Ports, 8Ft. Prime, 60psi Pressure-Switch Control, 120 VAC w/ Power Cord and USA Plug
5852-7E12-J584	1.2 GPM Open Flow to 0.9 GPM @ 60 PSI	3/8" Quick Connect Ports, 9Ft. Prime, 60psi Pressure-Switch Control, 120 VAC w/ Power Cord and USA Plug
5853-GE12-V81D	1.3 GPM Open Flow to 1.1 GPM @ 60 PSI	3/8" Quick Connect Ports, 3.5 Degree Cam, 60psi Pressure Switch Control, EMI/RFI Noise Suppression, 115 VAC w/ Power Cord, Variable Speed Electronically Controlled Pump
<i>Series 550 High Flow Delivery Pumps, Totally Enclosed, Non Ventilated, Permanent Magnet</i>		
5512-1E12-J586	3.2 GPM open flow to 1.5 GPM @ 60 PSI	1/2" NPT Female Ports, 10Ft. Prime, 60psi Pressure Switch Control, 115VAC/60Hz w/ Power Cord & Plug
5512-1E12-B586	3.2 GPM open flow to 1.5 GPM @ 60 PSI	1/2" NPT Female Ports, 10Ft. Prime, 60psi Pressure Switch Control, 115VAC/60Hz w/ Lead Wires Only



Shurflo Water Delivery Pumps



Model No.	Flow (GPD)	Voltage	Conn.	Description
2088-594-154	3.2	115 VAC	1/2" MSPT	Direct, No Power Supply Included
2088-474-144	3.0	24 VDC	1/2" MSPT	Direct, No Power Supply Included
2088-564-144	3.0	230 VAC	1/2" MSPT	Direct, No Power Supply Included
8005-233-236	1.4	115 VAC	3/8" FPT	No Cord
8005-733-155	1.4	115 VAC	1/2" MPT	No Cord
8005-733-255	1.5	115 VAC	3/8" FPT	No Cord
8005-791-255	1.2	230 VAC	3/8" FPT	No Cord
8005-912-260	1.4	115 VAC	3/8" FPT	No Cord
8025-213-256	1.6	115 VAC	3/8" FPT	Cord Included



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Bottle Water Dispensing System & Dispensing Pumps

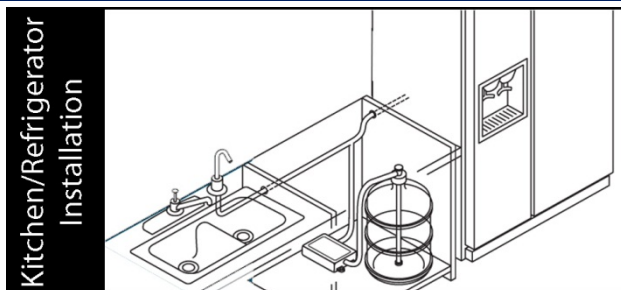
Flojet Bottle Water Dispensing Systems

- For dispensing water from 5 gallon water bottles.
- Float switch for automatic shut-off when bottle is empty
- Built-in check valve to prevent back flow
- Universal seal cap fits most water containers
- Compact size for easy mounting
- Easy installation
- Illuminated On/Off Switch: Provides clear visibility in dark cabinets or hard to reach places
- Long Life Motor: Ensures years of reliable operation
- Flojet Diaphragm Pump: Provides dependable run dry capabilities, extending the life of the pump
- Quick Disconnect Port: Allows for easy wand replacement in seconds
- Quiet Operation: Equipped with noise dampening rubber feet to minimize noise pollution
- Thermal Protection: Prevents overheating, protecting the pump and control box from damage
- New Ergonomic T-Shaped Wand Handle: Allows for ease of installation and removal of wand from bottle

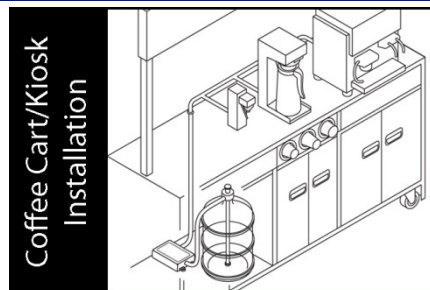


ECO-FRIENDLY – Up to 25% more energy efficient than previous bottled water systems.

Model No.	Description
BW4000-000A	110v/50-60 Hz AC, 1.09 GPM/ 40 PSI Max , 6' Cord with Plug, ¼" x 20' Discharge Tube
BW4003-000A	230v/50-60 Hz, 1.09 GPM/ 40 PSI Max , 6' Cord with Plug, ¼" x 20' Discharge Tube



Kitchen/Refrigerator Installation



Coffee Cart/Kiosk Installation

Flojet Dispensing Pumps

Model No.	Description	
4100-500	<ul style="list-style-type: none"> - 3.5 GPM @ 45 PSI - 115v - No Pressure Switch - ½" Hose Barb Connections 	

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Carbon Filters – Cartridges & In-Line

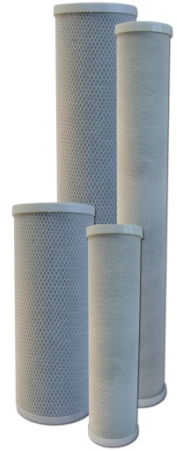
AMI Carbon Filters

- Efficient Removal of Chlorine Taste, Odor, and Organic Chemicals
- Fit Most Standard Residential and Commercial Housings
- Ideal for Residential and Commercial Applications
- Competitively Priced
- Extended Life
- Free of Surfactants, Binders & Adhesives

AMI Extruded Carbon Filter Cartridges

- 10 Micron Sediment Filtration (> 98%)
- Uniform Extruded Carbon Core
- No Release of Carbon Fines
- High Dirt-Holding Capacity
- Outer Protective Polypropylene Spunbonded Netting Finish

Model No.	Diameter	Length	For Housing	Micron Rating	Case Qty.
H-F2510AC	2.50"	9.75"	10" Standard	10 μ	20
H-F2520AC	2.50"	20"	20" Standard	10 μ	12
H-F4210AC	4.25"	9.75"	10" Big Blue	10 μ	9
H-F4220AC	4.25"	20"	20" Big Blue	10 μ	9



AMI Granular Activated Carbon (GAC) Filter Cartridges

- Granular Activated Carbon in a 10" Filter Cartridge for Standard 10" Filter Housing

Model No.	Diameter	Length	For Housing	Volume of GAC	Case Qty.
H-F2510GAC	2.50"	9.75"	10" Standard	0.56 cu. ft.	24



AMI In-Line Granular Activated Carbon (GAC) Filters

- Granular Activated Carbon in Self-Contained 6" & 10" In-Line Filters
- In-line Installation Eliminates the Need for Additional Housings
- Carbon Type T33 is Ideal for Use as a Post/Polishing Filter

Model No.	Length	Dia.	Connection	Case Qty.
H-F1031-4A	6"	2"	1/4" FNPT	50
H-F1032-43A	10"	2"	1/4" FNPT	25
H-F1032-43QC	10"	2"	1/4" Quick Conn.	25



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Sediment Filter Cartridges

AMI Melt-Blown Polypropylene Sediment Filter Cartridges

- Graded Pore Structure Enhances Dirt-Holding Capacity
- Easy and Safe Cartridge Incineration and Disposal
- Free of Surfactants, Binders and Adhesives

Model No.	Micron Rating	Dia.	Length	For Housing	Case Qty.
H-F1001CF	1 μ	2.50"	9.75"	10" Standard	50
H-F1005CF	5 μ	2.50"	9.75"	10" Standard	50
H-F1010CF	10 μ	2.50"	9.75"	10" Standard	50
H-F1020CF	20 μ	2.50"	9.75"	10" Standard	50
H-F1050CF	50 μ	2.50"	9.75"	10" Standard	50
H-F10100CF	100 μ	2.50"	9.75"	10" Standard	50
H-F10BB01CF	1 μ	4.25"	9.75"	10" Big Blue	20
H-F10BB05CF	5 μ	4.25"	9.75"	10" Big Blue	20
H-F2001CF	1 μ	2.50"	20"	20" Standard	25
H-F2005CF	5 μ	2.50"	20"	20" Standard	25
H-F2010CF	10 μ	2.50"	20"	20" Standard	25
H-F2020CF	20 μ	2.50"	20"	20" Standard	25
H-F2050CF	50 μ	2.50"	20"	20" Standard	25
H-F20BB01CF	1 μ	4.25"	20"	20" Big Blue	10
H-F20BB05CF	5 μ	4.25"	20"	20" Big Blue	10
H-F20BB10CF	10 μ	4.25"	20"	20" Big Blue	10
H-F3001CF	1 μ	2.50"	30"	30" Standard	25
H-F3005CF	5 μ	2.50"	30"	30" Standard	25
H-F3010CF	10 μ	2.50"	30"	30" Standard	25
H-F3020CF	20 μ	2.50"	30"	30" Standard	25
H-F4001CF	1 μ	2.50"	40"	40" Standard	20
H-F4005CF	5 μ	2.50"	40"	40" Standard	20
H-F4010CF	10 μ	2.50"	40"	40" Standard	20
H-F4020CF	20 μ	2.50"	40"	40" Standard	20



AMI String Wound Sediment Filter Cartridges

- Enhanced Dirt-Holding Capacity
- Extended Life
- Easy and Safe Cartridge Incineration and Disposal
- Free of Surfactants, Binders and Adhesives

Model No.	Micron Rating	Dia.	Length	For Housing	Case Qty.
H-F1005STR	5 μ	2.50"	9.75"	10" Standard	30
H-F1020STR	20 μ	2.50"	9.75"	10" Standard	30
H-F2005STR	5 μ	2.50"	20"	20" Standard	15
H-F3005STR	5 μ	2.50"	30"	30" Standard	30
H-F4005STR	5 μ	2.50"	40"	40" Standard	15



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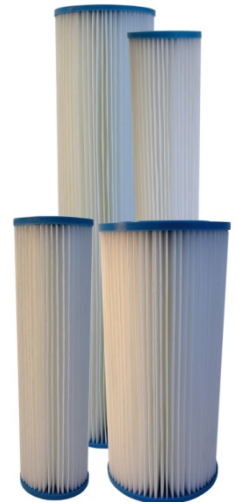
AMI® FILTERS

Sediment Filters & DI Filters

AMI Pleated Cellulose Poly Sediment Filter Cartridges

- Graded Pore Structure Enhances Dirt-Holding Capacity
- Easy and Safe Cartridge Incineration and Disposal
- Free of Surfactants, Binders and Adhesives

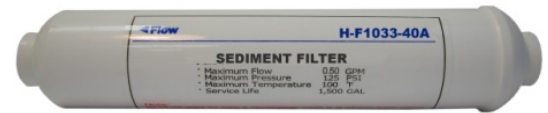
Model No.	Micron Rating	Dia.	Length	For Housing
H-FS105PCAMI	5 μ	2.5"	10"	10" Standard
H-FS1030PCAMI	30 μ	2.5"	10"	10" Standard
H-FS205PCAMI	5 μ	2.5"	20"	20" Standard
H-FS10BB5PCAMI	5 μ	4.25"	10"	10" Big Blue
H-FS10BB30PCAMI	30 μ	4.25"	10"	10" Big Blue
H-FS20BB5PCAMI	5 μ	4.25"	20"	20" Big Blue



AMI In-Line Sediment Filters

- In-line Installation Eliminates the Need for Additional Housings
- Free of Surfactants, Binders, and Adhesives

Model No.	Micron Rating	Dia.	Length	Connection
H-F1033-40A	5 μ	2"	10"	1/4" FNPT



Deionization (DI) Polishing Filter Cartridges

Non-regenerable general purpose deionization polishing cartridges are designed to use as RO Polishers for potable water, or to give multi-megohm quality water for analytical and general laboratory use. The highly purified ion exchange resins will deliver high purity water with a minimum TOC background. Constructed from FDA grade materials and media.

AMI® Filter Cartridges for Deionization (DI)

Model No.	For Use in Housing	Service Flow (GPM)	Capacity for Deionization
H-F2510DI	10" Standard	0.25 to 0.50	7,500 ppm gallons
H-F2520DI	20" Standard	0.50 to 1.00	15,000 ppm gallons
H-F4210DI	10" Big Blue	0.75 to 1.50	22,500 ppm gallons
H-F4220DI	20" Big Blue	1.50 to 3.00	45,000 ppm gallons



AMI® In-Line Deionization + GAC Carbon Post Filter

Model No.	Filter Media	Filter Size	Connection
H-F1035ADIC	<ul style="list-style-type: none"> • DI Resin (2/3) • GAC (1/3) 	2" Dia. x 11"L	1/4" Female Threaded



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AMI® FILTERS

Special Purpose Filter Cartridges



Manufactures a wide variety of specialty filters. These filters contain medias which are specially designed to remove specific contaminants from the water. Listed here are the most frequently requested filter types. We are able to supply a wide range of specialty filters. Please contact us with your specific requirements if your filter is not listed below.



AMI® Calcite Filters for pH Neutralization

Raise the pH of RO permeate to make it non-aggressive and compatible with copper piping. Self-Limiting to correct pH only excessive enough to reach a noncorrosive equilibrium.

Model No.	For Use in Housing	Max Flow (GPM)	*Capacity in Gallons of Water Per Amount of Free CO ₂ in Water					
			@ 10ppm	@ 20ppm	@ 30ppm	@ 40ppm	@ 50ppm	@ 60ppm
H-F2510CALCITE	10" Standard	5	8,486	4,243	2,829	2,122	1,697	1,414
H-F2520CALCITE	20" Standard	5	26,737	13,369	8,912	6,684	5,347	4,456
H-F4210CALCITE	10" Big Blue	20	26,737	13,369	8,912	6,684	5,347	4,456
H-F4220CALCITE	20" Big Blue	20	63,937	31,968	21,312	15,984	12,787	10,656

*The table above is an approximate idea of the life of calcite for PH adjustment. The actual value will depend on many factors including the flow rate, water TDS, etc. Use this information as a reference only. **These are not guaranteed values.**

AMI Water Softening Filters

Remove minerals from water through an ion exchange process. Used to prevent hard water scaling and staining, and to prolong the life of RO membranes if used for pretreatment to an RO system.

Model No.	For Use in Housing	Capacity (Grains of Hardness)	Max Flow (GPM)
H-F2510SOFT	10" Standard	750	0.50
H-F2520SOFT	20" Standard	1,500	0.75
H-F4210SOFT	10" Big Blue	2,250	1.50
H-F4220SOFT	20" Big Blue	4,500	2.00

AMI Scale & Corrosion Inhibitor

- Crystalline polyphosphate (slow dissolving) scale inhibitors are used to prevent scaling and precipitation.
- Can be used for: RO pretreatment, ice machines, coffee makers, distillers, hot water heaters, evaporators, steam generators, and more.

Model No.	For Use in Housing	Service Flow (GPM)	Capacity
H-F1099S	10" Standard	0.2 – 0.5 Continuous	25,000+ Gallons

Empty Refillable Cartridges

Model No.	For Use in Housing	Maximum Service Flow (GPM)	Color
C-C2510-EP	10" Standard	5	White Opaque
C-C2510-CLEAR	10" Standard	5	Clear
C-C2520-EP	20" Standard	5	White Opaque
C-C4210-EP	10" Big Blue	20	White w/ Blue End Caps
C-C4220-EP	20" Big Blue	20	White w/ Blue End Caps

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MATRIKX[®] CTO[®], VOC[®], and CTO PLUS[®] Filter Cartridges

MATRIKX[®] CTO[®] - Chlorine Taste & Odor Reduction Filters - White End Caps

- Chlorine Taste and Odor Reduction*
- 5 Micron Nominal Filtration for Dirt and Sediment Removal*
- High Adsorptive Capacity and Efficiency*
- Competitively Priced



Model No.	Micron Rating*		Dimensions		For Housing	Chlorine Taste & Odor Reduction Capacity*	Case Qty.
	Nominal	Absolute	Dia.	Length			
32-250-125-050	5 μ	10 μ	2.50"	4.88"	5" Standard	>3,000 gal @ 0.5 gpm	40
32-250-125-975	5 μ	10 μ	2.50"	9.75"	10" Standard	>6,000 gal @ 1 gpm	20
E32-250-125-975**	5 μ	10 μ	2.50"	9.75"	10" Standard	>6,000 gal @ 1 gpm	20
32-250-125-20	5 μ	10 μ	2.50"	20"	20" Standard	>12,000 gal @ 2 gpm	20
32-425-125-975	5 μ	10 μ	4.25"	9.75"	10" Big Blue	>12,000 gal @ 3 gpm	9
32-425-125-20	5 μ	10 μ	4.25"	20"	20" Big Blue	>26,000 gal @ 7 gpm	9

*Based on Manufacturer's Internal Testing

****New Economy-Priced CTO Filter! Contact Us for a Quote.**

MATRIKX[®] VOC[®] - VOC, Chlorine Taste & Odor Reduction - Green End Caps

- VOC Reduction based on NSF/ANSI Standard 53*
- 0.6 Micron Nominal Filtration for Dirt and Sediment Removal*
- Turbidity Reduction based on NSF/ANSI Standard 53*
- Outstanding Chlorine Taste and Odor Reduction*



Model No.	Micron Rating *		Dimensions		For Housing	Reduction Capacity* (gal)		Case Qty.
	Nominal	Absolute	Dia.	Length		CTO	Chloroform	
02-250-125-050	0.6 μ	2 μ	2.50"	4.88"	5" Standard	Not Rated	Not Rated	40
02-250-125-20	0.6 μ	2 μ	2.50"	20"	20" Standard	Not Rated	Not Rated	20
02-425-125-975	0.6 μ	2 μ	4.25"	9.75"	10" Big Blue	Not Rated	Not Rated	9
02-425-125-20	0.6 μ	2 μ	4.25"	20"	20" Big Blue	Not Rated	Not Rated	9

*Based on Manufacturer's Internal Testing

MATRIKX[®] CTO[®] Plus - High Capacity Chlorine Taste & Odor Filters - Purple End Caps

- High Chemical Adsorptive Capacity*
- 0.6 Micron Nominal Filtration for Dirt and Sediment Removal*
- High VOC Reduction*



Model No.	Micron Rating*		Dimensions		For Housing	Chlorine Taste & Odor Reduction Capacity*	Case Qty.
	Nominal	Absolute	Dia.	Length			
01-250-125-050	0.6 μ	2 μ	2.50"	4.88"	5" Standard	Not Rated	40
01-250-125-975	0.6 μ	2 μ	2.50"	9.75"	10" Standard	>20,000 gal @ 1 gpm	20
01-250-125-20	0.6 μ	2 μ	2.50"	20"	20" Standard	>45,000 gal @ 2 gpm	20
01-425-125-975	0.6 μ	2 μ	4.25"	9.75"	10" Big Blue	>70,000 gal @ 3 gpm	9
01-425-125-20	0.6 μ	2 μ	4.25"	20"	20" Big Blue	>150,000 gal @ 7 gpm	9

*Based on Manufacturer's Internal Testing

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MATRIKX[®] PB1[®], CR1[®], and P10[®] Filter Cartridges

MATRIKX[®] PB1[®] - Lead & Cyst Reduction Filter Cartridges - Grey End Caps

- Lead, Cyst and Turbidity Reduction Based on NSF/ANSI Standard 53*
- 0.5 Micron Nominal Filtration for Dirt and Sediment Removal*
- Outstanding Chlorine Taste and Odor Reduction*



Model No.	Micron Rating* (for Sediment Removal)		Filter Dimensions		For Housing	Reduction Capacity*			Case Qty.
	Nominal	Absolute	Dia.	Length		CTO (gal)	Lead (gal)	@ Flow (gpm)	
06-250-125-050	0.5 μ	1 μ	2.50"	4.88"	5" Standard	Not Rated			40
06-250-125-975	0.5 μ	1 μ	2.50"	9.75"	10" Standard	6,000	2,500	0.75	20
06-250-125-20	0.5 μ	1 μ	2.50"	20"	20" Standard	12,000	5,000	1.50	20
06-425-200-975	0.5 μ	1 μ	4.25"	9.75"	10" Big Blue	20,000	8,000	2.50	9
06-425-200-20	0.5 μ	1 μ	4.25"	20"	20" Big Blue	42,000	17,000	5.00	9

*Based on Manufacturer's Internal Testing

MATRIKX[®] CR1[®] - Cyst, Chlorine Taste & Odor Reduction - Yellow End Caps

- 0.5 Micron Nominal Filtration for Dirt and Sediment Removal*
- Cyst Reduction Based on NSF/ANSI Standard 53*
- Turbidity Reduction based on NSF/ANSI Standard 53*
- Outstanding Chlorine Taste and Odor Reduction*



Model No.	Micron Rating* (for Sediment Removal)		Filter Dimensions		For Housing	Chlorine Taste & Odor Reduction Capacity*	Case Qty.
	Nominal	Absolute	Dia.	Length			
19-250-125-050	0.5 μ	1 μ	2.50"	4.88"	5" Standard	Not Rated	40
19-250-125-975	0.5 μ	1 μ	2.50"	9.75"	10" Standard	>10,000 gal @ 2.5 gpm	20
19-250-125-39	0.5 μ	1 μ	2.50"	39"	40" Standard	Not Rated	4

*Based on Manufacturer's Internal Testing

MATRIKX[®] P10[®] - 5M Sediment, Chlorine Taste & Odor Filter - Black End Caps

- 5 Micron Nominal Filtration for Dirt and Sediment Removal*
- High Chlorine Taste and Odor Reduction*
- Efficient Sediment Filter with Large Dirt-Holding Capacity*



Model No.	Micron Rating* (for Sediment Removal)		Filter Dimensions		For Housing	Chlorine Taste & Odor Reduction Capacity*	Case Qty.
	Nominal	Absolute	Dia.	Length			
P10-250-109-096	5 μ	10 μ	2.5"	9.75"	10" Standard	>2,500 gal @ 1.0 gpm	20

*Based on Manufacturer's Internal Testing

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Carbon Filter Cartridges

GAC & CC Series Granular Activated Carbon Cartridges

GAC & CC Series cartridges effectively reduce unwanted tastes and odors, including chlorine taste & odor, from drinking water. They are designed to allow maximum contact between the water and carbon, ensuring optimal adsorption. The 20-micron post-filter reduces carbon fines. CC Series contain coconut shell based activated carbon which also reduces VOC and MTBE.



Model No.	Name	Max. Dimensions		For Housing	Chlorine Taste & Odor Reduction Capacity	Case Qty.
		Dia.	Length			
<i>GAC Series Granular Activated Carbon Cartridges</i>						
155110-43	GAC-5	2.88"	4.88"	5" Standard	250 gal @ 0.5 gpm	24
155109-43	GAC-10	2.88"	9.75"	10" Standard	5,000 gal @ 1.0 gpm	12
155111-43	GAC-20	2.88"	20.0"	20" Standard	10,000 gal @ 2.0 gpm	6
155153-43	GAC-BB	4.50"	9.75"	10" Big Blue	12,500 gal @ 2.0 gpm	8
155249-43	GAC20-BB	4.50"	20.0"	20" Big Blue	25,000 gal @ 4.0 gpm	4
<i>CC-10 Coconut Shell Granular Activated Carbon Cartridge</i>						
155155-43	CC-10	2.88"	9.75"	10" Standard	7,500 gal @ 1.0 gpm	12

CBC, EP & EPM Series – Carbon Briquette Filter Cartridges

Carbon Briquette Filter Cartridges are highly effective at reducing unwanted tastes and odors, including chlorine taste & odor from potable drinking water.

- **CBC series** filters offer reduction of Giardia, Cryptosporidium, Entamoeba, and Toxoplasma cysts as well as fine sediment particles down to 0.5 microns.
- **EP & EPM Series** cartridges have a nominal 5-micron filtration rating with high dirt-holding capacity and reduced plugging.
- **CBR2-10** filters reduce lead in addition to chlorine taste & odor.



CBC Series

Model No.	Name	Max. Dimensions		For Housing	Chlorine Taste & Odor Reduction Capacity	Case Qty.
		Dia.	Length			
<i>CBC Series 0.5 Micron Carbon Briquette Filters for Chlorine Taste, Odor & Cyst Reduction</i>						
155169-43	CBC-5	2.88"	4.88"	5" Standard	>3,000 gal @ 1 gpm	24
155162-43	CBC-10	2.88"	9.75"	10" Standard	>20,000 gal @ 2 gpm	12
155309-43	CBC-20	2.88"	20.0"	20" Standard	>45,000 gal @ 2 gpm	12
155170-43	CBC-BB	4.63"	9.75"	10" Big Blue	>50,000 gal @ 2 gpm	4
155312-43	CBC-20BB	4.63"	20.0"	20" Big Blue	>150,000 gal @ 4 gpm	4
<i>EP Series 5 Micron Carbon Briquette Filters for Chlorine Taste & Odor, High Dirt-Holding</i>						
155531-43	EP-10	2.88"	9.75"	10" Standard	>6,000 gal @ 1 gpm	12
155529-43	EP-20	2.88"	20.0"	20" Standard	>12,000 gal @ 2 gpm	6
155698-43	EP-30	2.88"	30"	30" Standard	Not Rated	12
155548-43	EP-BB	4.63"	9.75"	10" Big Blue	>22,000 gal @ 2 gpm	4
155583-43	EP20-BB	4.63"	20.0"	20" Big Blue	>40,000 gal @ 4 gpm	4
<i>EPM Series Economy Priced 5 M Carbon for Chlorine Taste & Odor, High Dirt-Holding</i>						
155634-43	EPM-10	2.88"	9.75"	10" Standard	>3,000 gal @ 1 gpm	24
155635-43	EPM-20	2.88"	20.0"	20" Standard	>6,000 gal @ 2 gpm	6
155782-43	EPM-BB	4.63"	9.75"	10" Big Blue	>15,000 gal @ 2 gpm	4
155783-43	EPM-20BB	4.63"	20.0"	20" Big Blue	>30,000 gal @ 4 gpm	4
<i>CBR2-10 Carbon Briquette Filter for Lead Removal and Chlorine Taste & Odor Reduction</i>						
155268-43	CBR2-10	2.88"	9.75"	10" Standard	20,000 gallons	12



EP & EPM Series

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Carbon Filter Cartridges

C-Series Dual Purpose Powdered-Activated Carbon Cartridges

Constructed of a carbon impregnated cellulose media, these dual-purpose filters provide sediment filtration with a high-dirt holding capacity as well as bad taste & odor, and chlorine taste & odor reduction. Recommended for chlorinated water supplies.

Model No.	Name	Micron Rating	Approx. Dim.		For Housing	Chlorine Taste & Odor Reduction Capacity	Case Qty.
			Dia.	Length			
155022-43	C2	5 μ	2.5"	4.88"	5" Standard	>1,250 gal @ 0.5 gpm	24
155220-43	C8	1 μ	2.5"	9.75"	10" Standard	>5,000 gal @ 1 gpm	24
155002-43	C1	5 μ	2.5"	9.75"	10" Standard	>2,500 gal @ 1 gpm	24
155597-43	C1-20	5 μ	2.5"	20.0"	20" Standard	>5,000 gal @ 2 gpm	14
155651-43	C1-20BB	5 μ	4.5"	20.0"	20" Big Blue	30,000 gallons	6



NCP Series Non-Cellulose Carbon Impregnated Pleated Cartridges

Non-Cellulose media resists bacterial attack allowing them to be used for municipal and non-chlorinated water applications. NCP Series filters provide sediment filtration as well as chlorine taste & odor reduction. Pleated for maximum dirt-loading capacity.

Model No.	Name	Micron Rating	Max. Dim.		For Housing	Chlorine Taste & Odor Reduction Capacity	Case Qty.
			Dia.	Length			
155367-43	NCP-10	10 μ	2.5"	9.75"	10" Standard	225 gal @ 1 gpm	24
155397-43	NCP-20	10 μ	2.5"	20"	20" Standard	450 gal @ 2 gpm	14
155398-43	NCP-BB	10 μ	4.5"	9.75"	10" Big Blue	500 gal @ 2 gpm	8
155382-43	NCP-20BB	10 μ	4.5"	20"	20" Big Blue	1,000 gal @ 2 gpm	6



RFC Series Radial Flow Granular Activated Carbon Cartridges

Ideal for point-of-entry and other high flow applications, RFC series carbon filters provide effective chlorine taste & odor reduction with lower pressure drop.

Model No.	Name	Max. Dimensions		For Housing	Chlorine Taste & Odor Reduction Capacity	Case Qty.
		Dia.	Length			
155065-43	RFC-20	2.75"	20.0"	20" Standard	>6,000 @ 2 gpm	6
155141-43	RFC-BB	4.50"	9.75"	10" Big blue	>35,000 @ 2 gpm	8
155247-43	RFC-20BB	4.50"	20.0"	20" Big Blue	>70,000 @ 4 gpm	6



CCBC Series Coconut Shell Based Granular Activated Carbon Filters

Water-Washed coconut-carbon cartridges are highly effective at reducing unwanted taste and odor and chlorine taste and odor from potable drinking water.

Model No.	Name	Micron Rating	Max. Dim.		For Housing	Chlorine Taste & Odor Reduction Capacity	Cs. Qty.
			Dia.	Length			
155713-43	CCBC-10	1 μ	2.63"	9.75"	10" Standard	>20,000 gal @ 1gpm	12
155714-43	CEP-10E	5 μ	2.63"	9.75"	10" Standard	>5,000 gal @ 1gpm	12



Chlorplus Series Chloramine Reduction Carbon Filter Cartridges

The ChlorPlus® carbon block cartridges offer superior chloramine and chlorine reduction, and have a 1 micron nominal sediment filtration rating.

Model No.	Name	For Housing	Reduction Capacity			Case Qty.
			Chlorine Taste Odor	Chloramine	@ Flow	
255416-43	ChlorPlus 10	10" Standard	>50,000	>1,000	1 gpm	12
255417-43	ChlorPlus 20	20" Standard	>100,000	>2,000	2 gpm	6
355752-43	ChlorPlus BB	10" Big Blue	>250,000	>3,500	2 gpm	4
355753-43	ChlorPlus 20BB	20" Big Blue	>500,000	>7,000	4 gpm	4



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Sediment Filter Cartridges

CRE-1 Ceramic Filter Cartridge

Specially designed and tested for the reduction of Cryptosporidium and Giardia cysts, ceramic filters are ideal for fine sediment filtration applications. The fine ceramic media will effectively trap dirt, sediment and cysts down to 1-micron in diameter. The ½" thick ceramic wall allows for many cleanings, extending cartridge life.



Model No.	Name	Micron Rating	Max. Dimensions		For Housing	Initial ΔP @ Flow Rate	Case Qty.
			Dia.	Length			
155159-43	CRE-1	1 μ	1.88"	9.75"	10" Standard	19 psi @ 1 gpm	6

P Series Spun-Bonded Polypropylene Cartridges

Manufactured from pure 100% polypropylene and designed for purity and chemical compatibility. Spun fibers form a true gradient density from outer to inner surfaces.



Model No.	Name	Micron Rating	Max. Dimensions		For Housing	Initial ΔP @ Flow Rate	Case Qty.
			Dia.	Length			
155030-43	P5-478	5 μ	2.38"	4.88"	5" Standard	0.3 psi @ 2 gpm	24
155225-43	P1	1 μ	2.38"	9.75"	10" Standard	0.6 psi @ 5 gpm	24
155014-43	P5	5 μ	2.38"	9.75"	10" Standard	0.2 psi @ 5 gpm	24
155015-43	P25	25 μ	2.38"	9.75"	10" Standard	0.2 psi @ 5 gpm	24
155304-43	P1-20	1 μ	2.38"	20.0"	20" Standard	0.6psi @ 10gpm	20
155016-43	P5-20	5μ	2.38"	20.0"	20" Standard	0.6psi @ 10gpm	20
155226-43	P25-20	25μ	2.38"	20.0"	20" Standard	0.2psi @ 10gpm	20
155228-43	P5-30	5 μ	2.38"	30.0"	30" Standard	0.2psi @ 10gpm	20
155224-43	P25-30	25 μ	2.38"	30.0"	30" Standard	0.2psi @ 10gpm	20

WP Series Big Blue Wound Polypropylene Filter Cartridges

WP Series filters are manufactured from a durable polypropylene cord that is wound around a rigid polypropylene core. They are an economical solution to reduce fine sediment including sand, silt, rust and scale particles from a variety of fluids.



Model No.	Name	Micron Rating	Approx. Dimensions		For Housing	Initial ΔP @ Flow Rate	Case Qty.
			Dia	Length			
355212-43	WP.5BB97P	0.5 μ	4.5"	9.75"	10" Big Blue	5 psi @ 10 gpm	8
355213-43	WP1BB97P	1 μ	4.5"	9.75"	10" Big Blue	4 psi @ 15 gpm	8
355214-43	WP5BB97P	5 μ	4.5"	9.75"	10" Big Blue	3 psi @ 20 gpm	8
355215-43	WP10BB97P	10 μ	4.5"	9.75"	10" Big Blue	1 psi @ 20 gpm	8
355216-43	WP25BB97P	25 μ	4.5"	9.75"	10" Big Blue	1 psi @ 20 gpm	8
355222-43	WP1BB20P	1 μ	4.5"	20"	20" Big Blue	6 psi @ 30 gpm	6
355223-43	WP5BB20P	5 μ	4.5"	20"	20" Big Blue	6 psi @ 40 gpm	6
355225-43	WP25BB20P	25 μ	4.5"	20"	20" Big Blue	5 psi @ 30 gpm	6

WPX Series Fibrillated Polypropylene String-Wound

355217-43	WPX5BB97P	5 μ	4.5"	9.75"	10" Big Blue	16 psi @ 10gpm	8
355218-43	WPX10BB97P	10 μ	4.5"	9.75"	10" Big Blue	12 psi @ 15gpm	8
355219-43	WPX25BB97P	25 μ	4.5"	9.75"	10" Big Blue	10 psi @ 20gpm	8
355220-43	WPX50BB97P	50 μ	4.5"	9.75"	10" Big Blue	8 psi @ 30 gpm	8
355221-43	WPX100BB97P	100 μ	4.5"	9.75"	10" Big Blue	8 psi @ 40 gpm	8
355226-43	WPX100BB20P	100 μ	4.5"	20"	20" Big Blue	8 psi @ 65 gpm	6

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Sediment Filter Cartridges

R Series Reusable Pleated Polyester Filter Cartridges

Pleated design maximizes dirt-holding capacity. Versatile and reusable, durable polyester media is bacteria and chemical resistant, allowing for a variety of uses.

Model No.	Name	Micron Rating	Max. Dimensions		For Housing	Initial ΔP @ Flow Rate	Case Qty.
			Dia.	Length			
155031-43	R30-478	30 μ	2.63"	4.88"	5" Standard	<1 psi @ 10gpm	24
155017-43	R30	30 μ	2.63"	9.75"	10" Standard	<1 psi @ 10gpm	24
155038-43	R50	50 μ	2.63"	9.75"	10" Standard	<1 psi @ 10gpm	24
155416-43	R30-20	30 μ	2.63"	20.0"	20" Standard	<1 psi @ 10gpm	14
155101-43	R30-BB	30 μ	4.50"	9.75"	10" Big Blue	<1 psi @ 10gpm	8
155053-43	R50-BB	50 μ	4.50"	9.75"	10" Big Blue	<1 psi @ 10gpm	8
155430-43	R30-20BB	30 μ	4.50"	20.0"	20" Big Blue	<1 psi @ 20gpm	6



DGD Series Dual-Gradient Density Filter Cartridges

Designed for purity and chemical compatibility, DGD Series filters are manufactured from pure 100% polypropylene. The larger diameter of the pre-filter reduces the particle load to the post filter, allowing it to operate at higher velocities.

Model No.	Name	Micron Rating		For Housing	Initial ΔP @ Flow Rate	Case Qty.
		Pre-filter	Post filter			
155359-43	DGD-2501	25 μ	1 μ	10" Big Blue	<1 psi @ 10 gpm	8
155357-43	DGD-5005	50 μ	5 μ	10" Big Blue	<1 psi @ 10 gpm	8
155355-43	DGD-7525	75 μ	25 μ	10" Big Blue	<1 psi @ 10 gpm	8
155360-43	DGD-2501-20	25 μ	1 μ	20" Big Blue	<1 psi @ 20 gpm	6
155358-43	DGD-5005-20	50 μ	5 μ	20" Big Blue	<1 psi @ 20 gpm	6
155356-43	DGD-7525-20	75 μ	25 μ	20" Big Blue	<1 psi @ 20 gpm	6



Series S1 Pleated Polyester Cartridges

Pleated design maximizes dirt-holding capacity. Designed for general water filtration purposes. Recommended for chlorinated water supplies. Economically priced.

Model No.	Name	Micron Rating	For Housing	Recommended Flow Rate	Initial ΔP @ Flow Rate	Case Qty.
155001-43	S1	20 μ	10" Standard	12 gpm	2.4psi @ 10gpm	24
155303-43	S1-20	20 μ	20" Standard	15 gpm	0.8psi @ 10gpm	14
155405-43	S1-BB	20 μ	10" Big Blue	20 gpm	1.2psi @ 10gpm	8
155305-43	S1-20BB	20 μ	20" Big Blue	35 gpm	1.2psi @ 10gpm	6



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Sediment Filter Cartridges

Series ECP Cellulose Polyester Cartridges

ECP Series cartridges are manufactured from a special formulation of resin-impregnated cellulose and polyester fibers, providing a higher wet strength than regular cellulose cartridges. It also provides high flow rates and dirt-holding capacity while maintaining extremely low pressure drop.



Model No.	Name	Micron Rating	End Cap Color	Max. Dims.		For Housing	Initial ΔP @ Flow Rate	Case Qty.
				Dia.	Length			
255481-43	ECP1-10	1 μ	Tan	2.63"	9.75"	10" Standard	<1 psi@10gpm	24
255482-43	ECP5-10	5 μ	White	2.63"	9.75"	10" Standard	<1 psi@10gpm	24
255483-43	ECP20-10	20 μ	Blue	2.63"	9.75"	10" Standard	<1 psi@10gpm	24
255484-43	ECP50-10	50 μ	Yellow	2.63"	9.75"	10" Standard	<1 psi@10gpm	24
255485-43	ECP1-20	1 μ	Tan	2.63"	20.0"	20" Standard	<1 psi@10gpm	14
255486-43	ECP5-20	5 μ	White	2.63"	20.0"	20" Standard	<1 psi@10gpm	14
255487-43	ECP20-20	20 μ	Blue	2.63"	20.0"	20" Standard	<1 psi@10gpm	14
255488-43	ECP50-20	50 μ	Yellow	2.63"	20.0"	20" Standard	<1 psi@10gpm	14
255489-43	ECP1-BB	1 μ	Tan	4.50"	9.75"	10" Big Blue	<1 psi@20gpm	8
255490-43	ECP5-BB	5 μ	White	4.50"	9.75"	10" Big Blue	<1 psi@20gpm	8
255491-43	ECP20-BB	20 μ	Blue	4.50"	9.75"	10" Big Blue	<1 psi@20gpm	8
255492-43	ECP50-BB	50 μ	Yellow	4.50"	9.75"	10" Big Blue	<1 psi@20gpm	8
255493-43	ECP1-20BB	1 μ	Tan	4.50"	20.0"	20" Big Blue	<1 psi@20gpm	6
255494-43	ECP5-20BB	5 μ	White	4.50"	20.0"	20" Big Blue	<1 psi@20gpm	6
255495-43	ECP20-20BB	20 μ	Blue	4.50"	20.0"	20" Big Blue	<1 psi@20gpm	6
255496-43	ECP50-20BB	50 μ	Yellow	4.50"	20.0"	20" Big Blue	<1 psi@20gpm	6

Polydepth Series Polypropylene Cartridge

Thermally-bonded polypropylene micro-fiber construction for higher filtration efficiency, consistent flow rate, and superior filtration performance.



Model No.	Name	Micron Rating	Max. Dimensions		For Housing	Initial ΔP @ Flow Rate	Case Qty.
			Dia.	Length			
155748-43	PD-1-934	1 μ	2.5"	9.75"	10" Standard	<2 psi @ 2 gpm	24
155749-43	PD-5-934	5 μ	2.5"	9.75"	10" Standard	<2 psi @ 2 gpm	24
155750-43	PD-10-934	10 μ	2.5"	9.75"	10" Standard	<2 psi @ 2 gpm	24
155751-43	PD-25-934	25 μ	2.5"	9.75"	10" Standard	<2 psi @ 2 gpm	24
155752-43	PD-50-934	50 μ	2.5"	9.75"	10" Standard	<2 psi @ 2 gpm	24
155755-43	PD-1-20	1 μ	2.5"	20"	20" Standard	<2 psi @ 5 gpm	14
155756-43	PD-5-20	5 μ	2.5"	20"	20" Standard	<2 psi @ 5 gpm	14
155757-43	PD-10-20	10 μ	2.5"	20"	20" Standard	<2 psi @ 5 gpm	14
155758-43	PD-25-20	25 μ	2.5"	20"	20" Standard	<2 psi @ 5 gpm	14
155759-43	PD-50-20	50 μ	2.5"	20"	20" Standard	<2 psi @ 5 gpm	14
155762-43	PD-1-30	1 μ	2.5"	30"	30" Standard	<2 psi @ 7 gpm	8
155763-43	PD-5-30	5 μ	2.5"	30"	30" Standard	<2 psi @ 7 gpm	8
155765-43	PD-25-30	25 μ	2.5"	30"	30" Standard	<2 psi @ 7 gpm	8
155769-43	PD-1-40	1 μ	2.5"	40"	40" Standard	<2 psi @ 9 gpm	6
155770-43	PD-5-40	5 μ	2.5"	40"	40" Standard	<2 psi @ 9 gpm	6
155772-43	PD-25-40	25 μ	2.5"	40"	40" Standard	<2 psi @ 9 gpm	6

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Specialty Filter Cartridges & Bag Filters

RFFE20-BB Iron Reduction Radial Flow Filter Cartridge

Easily and effectively reduces up to 3 ppm of dissolved iron from water, improves flavor and reduces the metallic taste caused by iron, and reduces the possibility of pipe and water heater damage. Should be installed on the main cold water line after the pressure tank or water meter. For best results, pre-sediment & post-carbon treatment is recommended.

Model No.	Name	For Housing
155263-43	RFFE20-BB	20" Big Blue

Approximate Life of Filter:

Iron Level in Water	Total Gallons Water Treated	250 GPD (Four People)	150 GPD (Two People)	75 GPD (One Person)
3 ppm	26,000 gal	104 days	208 days	416 days
2 ppm	40,000 gal	160 days	320 days	640 days
1 ppm	80,000 gal	320 days	640 days	1280 days
0.5 ppm	160,000 gal	640 days	1280 days	n/a



PCF Series Mixed Bed Deionization Cartridges

Designed for deionizing water up to 16 megohms, PCF Series DI Filters are manufactured using an FDA-compliant resin that has been subjected to additional post-production steps to minimize the total organic carbon (TOC) level.

Model No.	Name	Capacity		Suggested Flow Rate	For Housing	Initial ΔP @ Flow Rate
		Grains	mg TDS as CaCO ₃			
155273-43	PCF1-10MB	270	17,500	0.25 gpm	10" Standard	1.5psi @ 0.25gpm
155274-43	PCF1-20MB	600	38,800	0.50 gpm	20" Standard	3.4psi @ 0.50gpm
155281-43	BBF1-20MB	1,850	120,000	1.25 gpm	20" Big Blue	1.1psi @ 1.25gpm



WS Series Water Softener Cartridges

Designed for low water usage, these units will deliver softened product water through the use of FDA-grade sodium based, non-solvent rinsed softening resin. WS Series cartridges utilize single use resin technologies for maximum life grains (CaCo₃) capacity.

Model No.	Name	Dimensions		Suggested Flow Rate	For Housing	Capacity (Grains as CaCO ₃)
		Dia.	Length			
155319-43	WS-10	2.6"	9.75"	0.50 gpm	10" Standard	750
155320-43	WS-20	2.6"	20.0"	0.75 gpm	20" Standard	1500
155321-43	WS-20BB	4.5"	20.0"	2.00 gpm	20" Big Blue	4500



BP Series Filter Bags

Glazed polypropylene felt bags are compatible with a broad range of corrosive fluids including organic solvents, oils, acids, alkalis and micro-organisms. Case Qty: 20.

10" Bag Filters

Model No.	Name	Micron Rating
155383-03	BP-410-1	1 μ
155385-03	BP-410-5	5 μ
155387-03	BP-410-10	10 μ
155389-03	BP-410-25	25 μ
155391-03	BP-410-50	50 μ
155393-03	BP-410-100	100 μ



20" Bag Filters

Model No.	Name	Micron Rating
155384-03	BP-420-1	1 μ
155386-03	BP-420-5	5 μ
155388-03	BP-420-10	10 μ
155390-03	BP-420-25	25 μ
155392-03	BP-420-50	50 μ
155394-03	BP-420-100	100 μ

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Omnipure® Filters – CL Series



Female Threaded “Standard” In-Line Filters

Carbon – T33, T40 & T28 Granular Activated Carbon Filters

- Taste, Odor & Chlorine Reduction
- Ideal for RO or Distillation Units

Model No.	Size (Dia.×L)	Type of Carbon	Volume (Cu. In.)	Service Life (Gallons)	Nominal Rating	In/Out Connections		
						Size	Type	Angle
<i>T33 Acid Washed Granular Activated Carbon – 12×40 Mesh (Post RO)</i>								
CL6ROT33-A	2"×6"	T33 GAC	8.3	1,000	5 µ	1/8"	FNPT	Straight
CL6ROT33-B	2"×6"	T33 GAC	8.3	1,000	5 µ	1/4"	FNPT	Straight
CL6ROT33-C	2"×6"	T33 GAC	8.3	1,000	5 µ	3/8"	FNPT	Straight
CL10ROT33-A	2"×10"	T33 GAC	16.6	1,500	5 µ	1/8"	FNPT	Straight
CL10ROT33-B	2"×10"	T33 GAC	16.6	1,500	5 µ	1/4"	FNPT	Straight
CL10ROT33-C	2"×10"	T33 GAC	16.6	1,500	5 µ	3/8"	FNPT	Straight
<i>T40 Coconut-Shell Based Carbon – 12×40 Mesh (Post RO)</i>								
CL10ROT40-B	2"×10"	T40 GAC	16.6	1,500	5 µ	1/4"	FNPT	Straight
CL10ROT40-C	2"×10"	T40 GAC	16.6	1,500	5 µ	3/8"	FNPT	Straight
<i>T28 Granular Activated Carbon – 20×50 Mesh (Pre RO)</i>								
CL6ROT28-B	2"×6"	T28 GAC	8.3	1,000	5 µ	1/4"	FNPT	Straight
CL6ROT28-C	2"×6"	T28 GAC	8.3	1,000	5 µ	3/8"	FNPT	Straight
CL10ROT28-A	2"×10"	T28 GAC	16.6	1,500	5 µ	1/8"	FNPT	Straight
CL10ROT28-B	2"×10"	T28 GAC	16.6	1,500	5 µ	1/4"	FNPT	Straight
CL10ROT28-C	2"×10"	T28 GAC	16.6	1,500	5 µ	3/8"	FNPT	Straight



Series CL Filters

- **Uses:** Icemakers, refrigerators, under-the-counter, drinking fountains, beverage equipment, R.O. Systems, and in conjunction with commercial purification systems.

- **In/Out Connections:** Female Threaded

Fitting Size Code:

- A – 1/8"
- B – 1/4"
- C – 3/8"



- **Max. Pressure:** 125 psi
- **Max. Temp.:** 100°F
- **Flow:** Rated at 0.5 GPM
- **Max Service Life:**
Carbon: 1 Year
Sediment: 1 Year
Scale: 6 Months

Sediment Filters

- Polypropylene Depth Filters Remove Dirt, Sand and Sediment
- Protects Down-Line Equipment

Model No.	Size (Dia.×L)	Nominal Filtration Rating (Microns)	In/Out Connections		
			Size	Type	Angle
CL6PF5-A	2"×6"	5 µ	1/8"	FNPT	Straight
CL6PF5-B	2"×6"	5 µ	1/4"	FNPT	Straight
CL6PF5-C	2"×6"	5 µ	3/8"	FNPT	Straight
CL10PF5-A	2"×10"	5 µ	1/8"	FNPT	Straight
CL10PF5-B	2"×10"	5 µ	1/4"	FNPT	Straight
CL10PF5-C	2"×10"	5 µ	3/8"	FNPT	Straight
CL10PF5-PP	2"×10"	5 µ	1/4"	Male Post	

Scale Inhibitors – GAC & Polyphosphate

- Equipment Scaling Protection
- Reduction of Chlorine Taste and Odor

Model No.	Size (Dia.×L)	Media	Volume (Cu. In.)	Service Life (Gallons)	In/Out Connections		
					Size	Type	Angle
<i>SCL10 - GAC and Polyphosphate for Scale Control & Reduction of Chlorine Taste & Odor</i>							
SCL10-A	2"×10"	GAC/Polyphosphate	16.6	1,250	1/8"	FNPT	Straight
SCL10-B	2"×10"	GAC/Polyphosphate	16.6	1,250	1/4"	FNPT	Straight
SCL10-C	2"×10"	GAC/Polyphosphate	16.6	1,250	3/8"	FNPT	Straight
<i>SL10 - Polyphosphate for Scale Control (only)</i>							
SL10-B	2"×10"	Polyphosphate	16.6	1,250	1/4"	FNPT	Straight
SL10-C	2"×10"	Polyphosphate	16.6	1,250	3/8"	FNPT	Straight

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Quick Connect & High Capacity In-Line Carbon Filters

Carbon – T33, T40 & T28 Granular Activated Carbon Filters

- Taste, Odor & Chlorine Reduction
- Ideal for RO or Distillation Units

Model No.	Size (Dia. x L)	Type of Carbon	Volume (Cu. In.)	Service Life (Gallons)	In/Out Connections		
					Size	Type	Angle
T33 Acid Washed Granular Activated Carbon – 12x40 Mesh (Post RO)							
K2333JJ	2" x 6"	T33 GAC	9.5	1,000	1/4"	QC	Straight
K2333KK	2" x 6"	T33 GAC	9.5	1,000	3/8"	QC	Straight
K2333SS	2" x 6"	T33 GAC	9.5	1,000	1/4"	QC	90° Elbow
K2533BB	2" x 10"	T33 GAC	18.5	1,500	1/4"	FNPT	Straight
K2533JJ	2" x 10"	T33 GAC	18.5	1,500	1/4"	QC	Straight
K2533KK	2" x 10"	T33 GAC	18.5	1,500	3/8"	QC	Straight
K2533SS	2" x 10"	T33 GAC	18.5	1,500	1/4"	QC	90° Elbow
K2533PP	2" x 10"	T33 GAC	18.5	1,500	1/4"	Male Stem	
K5533BB	2.5" x 10"	T33 GAC	28.6	2,000	1/4"	FNPT	Straight
K5533JJ	2.5" x 10"	T33 GAC	28.6	2,000	1/4"	QC	Straight
K5633BB	2.5" x 12"	T33 GAC	35.5	2,500	1/4"	FNPT	Straight
K5633JJ	2.5" x 12"	T33 GAC	35.5	2,500	1/4"	QC	Straight
K5633SS	2.5" x 12"	T33 GAC	35.5	2,500	1/4"	QC	90° Elbow
T40 Coconut-Shell Based Carbon – 12x40 Mesh (Post RO)							
K2540JJ	2" x 10"	T40 GAC	18.5	1,500	1/4"	QC	Straight
T28 Granular Activated Carbon – 20x50 Mesh (Pre RO)							
K2328JJ	2" x 6"	T28 GAC	9.5	1,000	1/4"	QC	Straight
K2528JJ	2" x 10"	T28 GAC	18.5	1,500	1/4"	QC	Straight
K2528SS	2" x 10"	T28 GAC	18.5	1,500	1/4"	QC	90° Elbow
K5328JJ	2.5" x 6"	T28 GAC	14.7	1,250	1/4"	QC	Straight
K5528BB	2.5" x 10"	T28 GAC	28.6	2,000	1/4"	FNPT	Straight
K5528JJ	2.5" x 10"	T28 GAC	28.6	2,000	1/4"	QC	Straight
K5528KK	2.5" x 10"	T28 GAC	28.6	2,000	3/8"	QC	Straight
K5528SS	2.5" x 10"	T28 GAC	28.6	2,000	1/4"	QC	90° Elbow
K5628BB	2.5" x 12"	T28 GAC	35.5	2,500	1/4"	FNPT	Straight
K5628JJ	2.5" x 12"	T28 GAC	35.5	2,500	1/4"	QC	Straight
K5628SS	2.5" x 12"	T28 GAC	35.5	2,500	1/4"	QC	90° Elbow

Carbon Block In-Line Filters

- Taste, Odor & Chlorine & Cyst Reduction
- Scale Reduction (Scale/Polyphosphate Filters Only)

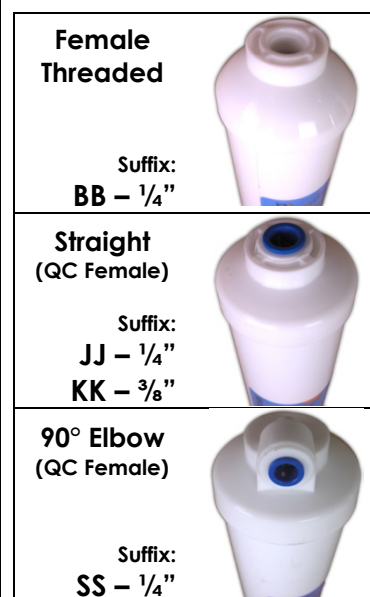
Model No.	Size (Dia. x L)	Nominal Micron Rating	Service Life (Gallons)	In/Out Connections		
				Size	Type	Angle
1 Micron Carbon Block Filters						
K2320BB	2" x 6"	1 μ	1,000	1/4"	FNPT	Straight
K2320JJ	2" x 6"	1 μ	1,000	1/4"	QC	Straight
K2320KK	2" x 6"	1 μ	1,000	3/8"	QC	Straight
K2520BB	2" x 10"	1 μ	1,500	1/4"	FNPT	Straight
K2520JJ	2" x 10"	1 μ	1,500	1/4"	QC	Straight
K5520BB	2.5" x 10"	1 μ	2,500	1/4"	FNPT	Straight
K5520JJ	2.5" x 10"	1 μ	2,500	1/4"	QC	Straight
K5620BB	2.5" x 12"	1 μ	3,000	1/4"	FNPT	Straight
1 Micron Carbon & Scale Filters – Carbon Block with Polyphosphate						
K5520PBB	2.5" x 12"	1 μ	2,000	1/4"	FNPT	Straight
K5520PJJ	2.5" x 12"	1 μ	2,000	1/4"	QC	Straight



Series K Filters

Uses: R.O. Systems, icemakers, under-the-counter, drinking fountains, beverage equipment, refrigerators, and in conjunction with commercial purification systems.

In/Out Connection Types:



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Omnipure® Filters – K Series



Quick Connect & High Capacity In-Line Carbon Filters

Carbon Block In-Line Filters

- Taste, Odor & Chlorine Reduction
- Class 1 Particulates Filtration Media
- Cyst Reduction & Lead Reduction (1 Micron Lead-Specific Filters Only)
- Max Service Life: One Year

Model No.	Size (Dia. x L)	Nominal Micron Rating	Service Life (Gallons)	In/Out Connections		
				Size	Type	Angle
1 Micron Carbon Block with Lead Specific Media						
K2515JJ	2" x 10"	1 µ	750	¼"	QC	Straight
K5515BB	2.5" x 10"	1 µ	1,250	¼"	FNPT	Straight
K5515JJ	2.5" x 10"	1 µ	1,250	¼"	QC	Straight
K5615BB	2.5" x 12"	1 µ	1,500	¼"	FNPT	Straight
K5615JJ	2.5" x 12"	1 µ	1,500	¼"	QC	Straight
5 Micron Carbon Block Filters						
K5522BB	2.5" x 10"	5 µ	2,500	¼"	FNPT	Straight
K5622BB	2.5" x 12"	5 µ	3,000	¼"	FNPT	Straight
10 Micron Carbon Block Filters						
K2521BB	2" x 10"	10 µ	1,500	¼"	FNPT	Straight
K2521JJ	2" x 10"	10 µ	1,500	¼"	QC	Straight
K2521KK	2" x 10"	10 µ	1,500	¾"	QC	Straight
K5521BB	2.5" x 10"	10 µ	2,500	¼"	FNPT	Straight
K5521JJ	2.5" x 10"	10 µ	2,500	¼"	QC	Straight
K5621BB	2.5" x 12"	10 µ	3,000	¼"	FNPT	Straight
K5621JJ	2.5" x 12"	10 µ	3,000	¼"	QC	Straight

Scale Inhibitors – GAC & Polyphosphate

- Scale Reduction: Equipment Scaling Protection
- Taste, Odor & Chlorine Reduction
- Class 1 Particulates Filtration Media
- Max Service Life: 6 Months

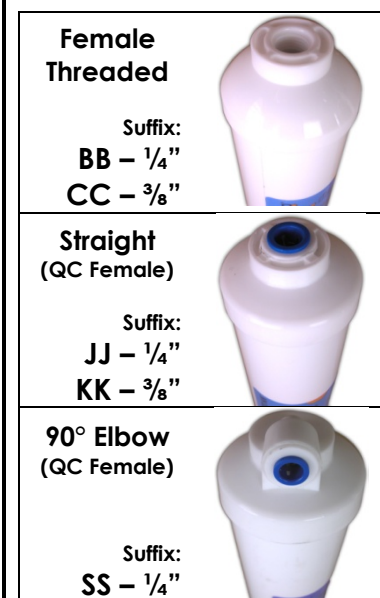
Model No.	Size (Dia. x L)	Volume (Cu. In.)	Service Life (Gallons)	In/Out Connections		
				Size	Type	Angle
K2386JJ	2" x 6"	9.5	750	¼"	QC	Straight
K2386KK	2" x 6"	9.5	750	¾"	QC	Straight
K2586JJ	2" x 10"	18.5	1,250	¼"	QC	Straight
K2586JJ-2oz	2" x 10"	18.5	1,250	¼"	QC	Straight
K2586JJ-4oz	2" x 10"	18.5	1,250	¼"	QC	Straight
K2586BB	2" x 10"	18.5	1,250	¼"	FNPT	Straight
K2586BB-6oz	2" x 10"	18.5	1,250	¼"	FNPT	Straight
K5586BB	2.5" x 10"	28.6	1,500	¼"	FNPT	Straight
K5586CC	2.5" x 10"	28.6	1,500	¾"	FNPT	Straight
K5586JJ	2.5" x 10"	28.6	1,500	¼"	QC	Straight
K5586KK	2.5" x 10"	28.6	1,500	¾"	QC	Straight
K5686BB	2.5" x 12"	35.5	2,000	¼"	FNPT	Straight
K5686JJ	2.5" x 12"	35.5	2,000	¼"	QC	Straight
K5686KK	2.5" x 12"	35.5	2,000	¾"	QC	Straight
Polyphosphate Only – For Scale Control (No GAC)						
K2385JJ	2" x 6"	9.5	n/a	¼"	QC	Straight



Series K Filters

Uses: R.O. Systems, icemakers, under-the-counter, drinking fountains, beverage equipment, refrigerators, and in conjunction with commercial purification systems.

In/Out Connection Types:



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Sediment & Specialty Media In-Line Filters

Sediment Filters – Block Media Sediment Reduction

- Polypropylene Depth Filtration for Reduction as Small as 5 Microns

Model No.	Size (Dia.×L)	Nominal Micron Rating	In/Out Connections		
			Size	Type	Angle
K2305CC	2"×6"	5 μ	3/8"	FNPT	Straight
K2305JJ	2"×6"	5 μ	1/4"	QC	Straight
K2305KK	2"×6"	5 μ	3/8"	QC	Straight
K2505JJ	2"×10"	5 μ	1/4"	QC	Straight
K2505SS	2"×10"	5 μ	1/4"	QC	90° Elbow
K5505BB	2.5"×10"	5 μ	1/4"	FNPT	Straight
K5505JJ	2.5"×10"	5 μ	1/4"	QC	Straight
K5605BB	2.5"×12"	5 μ	1/4"	FNPT	Straight
K5605JJ	2.5"×12"	5 μ	1/4"	QC	Straight
K5605SS	2.5"×12"	5 μ	1/4"	QC	90° Elbow



GAC with KDF-55

- Taste, Odor & Chlorine Reduction
- Enhanced Performance and Extended Capacity
- * Marked filters are ALL-KDF (no GAC)

Model No.	Size (Dia.×L)	Volume (Cu.In.)	Service Life (Gallons)	In/Out Connections		
				Size	Type	Angle
K2350BB	2"×6"	9.5	1,000	1/4"	FNPT	Straight
K2350CC	2"×6"	9.5	1,000	3/8"	FNPT	Straight
K2356JJ*	2"×6"	9.5	1,000	1/4"	QC	Straight
K2556JJ*	2"×10"	18.5	1,500	1/4"	QC	Straight
K2567BB	2"×10"	18.5	1,500	1/4"	FNPT	Straight
K2567BB-1M	2"×10"	18.5	1,500	1/4"	FNPT	Straight
K2567JJ	2"×10"	18.5	1,500	1/4"	QC	Straight
K2567KK	2"×10"	18.5	1,500	3/8"	QC	Straight
K5567BB	2.5"×10"	28.6	2,000	1/4"	FNPT	Straight
K5567BB-1M	2.5"×10"	28.6	2,000	1/4"	FNPT	Straight
K5668BB	2.5"×12"	35.5	2,500	1/4"	FNPT	Straight
K5668CC	2.5"×12"	35.5	2,500	3/8"	FNPT	Straight

Series K Filters

Uses: R.O. Systems, icemakers, under-the-counter, drinking fountains, beverage equipment, refrigerators, and in conjunction with commercial purification systems.

Connection Types:

Female Threaded

Suffix:
BB – 1/4"
CC – 3/8"



Straight (QC Female)

Suffix:
JJ – 1/4"
KK – 3/8"



90° Elbow (QC Female)

Suffix:
SS – 1/4"



Nitrate Removal Filters

Model No.	Size (Dia.×L)	Volume (Cu.In.)	Capacity	In/Out Connections		
				Size	Type	Angle
K2553BB	2"×10"	18.5	110 Grains	1/4"	FNPT	Straight
K2553JJ	2"×10"	18.5	110 Grains	1/4"	QC	Straight
K2553KK	2"×10"	18.5	110 Grains	3/8"	FNPT	Straight
K5553BB	2.5"×10"	28.6	165 Grains	1/4"	QC	Straight
K5553JJ	2.5"×10"	28.6	165 Grains	1/4"	QC	Straight

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DI & Specialty Media In-Line Filters

Deionizing (DI) Mixed Bed Polishing Cartridges

- Ion Exchange Process for Ultra-High Purity Water with a Minimum TOC Background
- Ideal for Polishing RO Product Water

Model No.	Size (Dia.×L)	Volume (Cu.In.)	Capacity	In/Out Connections		
				Size	Type	Angle
K2555BB	2"×10"	18.5	150 Grains	¼"	FNPT	Straight
K5555BB	2.5"×10"	28.6	230 Grains	¼"	FNPT	Straight
K5555JJ	2.5"×10"	28.6	230 Grains	¼"	QC	Straight
K5655BB	2.5"×12"	35.5	270 Grains	¼"	FNPT	Straight
K5655JJ	2.5"×12"	35.5	270 Grains	¼"	QC	Straight
NRW37 – Nuclear Grade Mixed Bed Ion Exchange Resin Filters						
K562JJ-NRW37	2"×10"	18.5	150 Grains	¼"	QC	Straight
K5555BB-NRW37	2.5"×10"	35.5	270 Grains	¼"	FNPT	Straight
K5655BB-NRW37	2.5"×12"	35.5	270 Grains	¼"	FNPT	Straight
K5655JJ-NRW37	2.5"×12"	35.5	270 Grains	¼"	QC	Straight
K5655SS-NRW37	2.5"×12"	35.5	270 Grains	¼"	QC	90° Elbow



Series K Filters

Uses: R.O. Systems, icemakers, under-the-counter, drinking fountains, beverage equipment, refrigerators, and in conjunction with commercial purification systems.

Silver Impregnated Carbon Filters

Model No.	Size (Dia.×L)	Volume (Cu.In.)	Service Life (Gallons)	In/Out Connections		
				Size	Type	Angle
K2530BB	2"×10"	18.5	1,500 gal	¼"	FNPT	Straight
K2530KK	2"×10"	18.5	1,500 gal	¾"	FNPT	Straight
K5530BB	2.5"×10"	28.6	2,000 gal	¼"	FNPT	Straight
K5530JJ	2.5"×10"	28.6	2,000 gal	¼"	QC	Straight
K5630BB	2.5"×12"	35.5	2,500 gal	¼"	FNPT	Straight
K5630JJ	2.5"×12"	35.5	2,500 gal	¼"	QC	Straight
K5630CC	2.5"×12"	35.5	2,500 gal	¾"	FNPT	Straight

Calcite (Neutralization) Filters

- Neutralize Acidic or Low pH Waters to a Neutral, Less Corrosive Effluent

Model No.	Size (Dia.×L)	Volume (Cu.In.)	In/Out Connections		
			Size	Type	Angle
K2548BB	2"×10"	18.5	¼"	FNPT	Straight
K2548JJ	2"×10"	18.5	¼"	QC	Straight

Softening Resin Filters

- Cation Exchange Softening Filters Remove Hardness, Calcium & Scale

Model No.	Size (Dia.×L)	Volume (Cu.In.)	In/Out Connections		
			Size	Type	Angle
K5654BB	2"×12"	35.5	¼"	FNPT	Straight
K5654JJ	2"×12"	35.5	¼"	QC	Straight

Connection Types:

Female Threaded

Suffix:

BB – ¼"

CC – ¾"



Straight (QC Female)

Suffix:

JJ – ¼"

KK – ¾"



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Twist-Off Quick Change Filters

Carbon – T33, T40 & T28 Granular Activated Carbon Filters

- Taste, Odor & Chlorine Reduction
- Maximum Service Life: One Year
- 2.5" Diameter, Fit VH & NVH Filter Heads

Model No.	Filter Length	Type of Carbon	Volume (Cu.In.)	Service Life (Gallons)
T33 Acid Washed Granular Activated Carbon – 12×40 Mesh (Post RO)				
Q5333	6"	T33 GAC	14.7	1,250 gal
Q5433	8"	T33 GAC	21.6	1,500 gal
Q5533	10"	T33 GAC	28.6	2,000 gal
Q5633	12"	T33 GAC	35.5	2,500 gal
Q5733	14"	T33 GAC	41.0	3,000 gal
T40 Coconut-Shell Based Carbon – 12×40 Mesh (Post RO)				
Q5540	10"	T40 GAC	28.6	2,000 gal
Q5640	12"	T40 GAC	35.5	2,500 gal
T28 Granular Activated Carbon – 20×50 Mesh (Pre RO)				
Q5328	6"	T28 GAC	14.7	1,250 gal
Q5428	8"	T28 GAC	21.6	1,500 gal
Q5528	10"	T28 GAC	28.6	2,000 gal
Q5628	12"	T28 GAC	35.5	2,500 gal
Q5728	14"	T28 GAC	41.0	3,000 gal

1 Micron Carbon Block Filters

- Taste, Odor & Chlorine Reduction
- Class 1 Particulates Filtration Media
- Cyst Reduction
- Lead Reduction & Scale Inhibitor Models Available
- Maximum Service Life: One Year
- 2.5" Diameter, Fit VH & NVH Filter Heads

Model No.	Filter Length	Nominal Filtration Rating	Service Life (Gallons)
1 Micron Carbon Block Filters with Cyst Reduction			
Q5320	6"	1µ Particulate & Cyst Reduction	1,500 gal
Q5420	8"	1µ Particulate & Cyst Reduction	2,000 gal
Q5520	10"	1µ Particulate & Cyst Reduction	2,500 gal
Q5620	12"	1µ Particulate & Cyst Reduction	3,000 gal
Q5720	14"	1µ Particulate & Cyst Reduction	3,500 gal
1 Micron Carbon Block Filters with Scale Inhibitor (Polyphosphate) & Cyst Reduction			
Q5420-P	8"	1µ Cyst Reduction & Scale Inhibitor	2,000 gal
Q5520-P	10"	1µ Cyst Reduction & Scale Inhibitor	2,500 gal
1 Micron Carbon Block Filters with Lead and Cyst Reduction			
Q5315	6"	1µ with Lead & Cyst Reduction	750 gal
Q5415	8"	1µ with Lead & Cyst Reduction	1,000 gal
Q5515	10"	1µ with Lead & Cyst Reduction	1,250 gal
Q5615	12"	1µ with Lead & Cyst Reduction	1,500 gal
1 Micron Carbon Block Filters with Lead and Cyst Reduction and Scale Inhibitor			
Q5415-P	8"	1µ Lead, Cyst & Scale	1,000 gal
Q5515-P	10"	1µ Lead, Cyst & Scale	1,250 gal
Q5615-P	12"	1µ Lead, Cyst & Scale	1,500 gal
Q5715-P	14"	1µ Lead, Cyst & Scale	2,000 gal



Series Q Filters

Filter bodies twist directly on/off the filter heads for fast and easy replacement. No housings or replaced fittings.

Uses: R.O. Systems, icemakers, under-the-counter, drinking fountains, beverage equipment, refrigerators, and in conjunction with commercial purification systems.

Filter Heads



Model No.	In/Out Connections
Valved "Twist-Tap" Filter Heads	
VH1/4	1/4" Female Threaded
VH1/4-JG	1/4" Quick Connect
VH3/8	3/8" Female Threaded
Non-Valved Filter Heads	
NVH1/4	1/4" Female Threaded
NVH1/4-JG	1/4" Quick Connect
NVH3/8	3/8" Female Threaded

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Omnipure® Filters – Q Series



Twist-Off Quick Change Filters

10 Micron Carbon Block Filters

- Taste, Odor & Chlorine Reduction
- Class 1 Particulates Filtration
- Maximum Service Life: One Year
- 2.5" Diameter, Fit VH & NVH Filter Heads

Model No.	Filter Length	Nominal Filtration Rating	Service Life (Gallons)
<i>10 Micron Carbon Block Filters</i>			
Q5321	6"	10µ	1,500 gal
Q5421	8"	10µ	2,000 gal
Q5521	10"	10µ	2,500 gal
Q5621	12"	10µ	3,000 gal
Q5721	14"	10µ	3,500 gal
<i>10 Micron Carbon Block Filters with Scale Inhibitor (Polyphosphate)</i>			
Q5321-P	6"	10µ w/ Scale Inhibitor	1,000 gal
Q5421-P	8"	10µ w/ Scale Inhibitor	1,600 gal
Q5621-P	12"	10µ w/ Scale Inhibitor	2,500 gal
Q5721-P	14"	10µ w/ Scale Inhibitor	3,000 gal

Scale Inhibitors – GAC with Polyphosphate

- Taste, Odor & Chlorine Reduction
- Scale Inhibitor for Equipment Scaling Protection
- 2.5" Diameter, Fit VH & NVH Filter Heads
- Maximum Service Life: 6 Months

Model No.	Filter Length	Media Type	Volume (Cu.In.)	Service Life (Gallons)
Q5386	6"	GAC & Polyphosphate	14.7	1,000 gal
Q5486	8"	GAC & Polyphosphate	21.6	1,250 gal
Q5586	10"	GAC & Polyphosphate	28.6	1,500 gal
Q5686	12"	GAC & Polyphosphate	35.5	2,000 gal
Q5786	14"	GAC & Polyphosphate	41.0	2,500 gal
<i>Polyphosphate Only – For Scale Control (No GAC)</i>				
Q5385	6"	Polyphosphate Only	14.7	n/a
Q5485	8"	Polyphosphate Only	21.6	n/a
Q5785	14"	Polyphosphate Only	41.0	n/a

Sediment Filters – Block Media Sediment Reduction

- Polypropylene Depth Filtration
- Protects Down-Line Equipment
- 2.5" Diameter, Fit VH & NVH Filter Heads

5 Micron Nominal Filtration

Model No.	Filter Length
Q5305	6"
Q5405	8"
Q5505	10"
Q5605	12"
Q5705	14"

25 Micron Nominal Filtration

Model No.	Filter Length
Q5325	6"
Q5425	8"
Q5625	12"

Specialty Medias in Q Series Filter Bodies

- 2.5" Diameter, Fit VH & NVH Filter Heads

Model No.	Filter Length	Media Type	Volume (Cu.In.)	Service Life/ Capacity
<i>Softening Filters, for Removal of Minerals through an Ion Exchange Process</i>				
Q5554-C100E	10"	Softening Resin	28.6	600 Grains
Q5654-C100E	12"	Softening Resin	35.5	750 Grains
Q5754-C100E	14"	Softening Resin	41.0	900 Grains
<i>GAC with KDF, For Enhanced Taste, Odor & Chlorine Reduction</i>				
Q5467	8"	T33 GAC & KDF	21.6	1,500 Gallons
Q5567	10"	T33 GAC & KDF	28.6	2,000 Gallons
<i>Mixed bed Deionizing (DI) Polishing Filters</i>				
Q5655	12"	Mixed Bed DI Resin	35.5	270 Grains
Q5562	10"	NRW-37 DI Resin	28.6	220 Grains

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Omnipure® Filters – E Series



“Universal” Replacement Filter Bodies

Carbon – T33, T40 & T28 Granular Activated Carbon Filters

- Taste, Odor & Chlorine Reduction.
- Maximum Service Life: One Year
- 2.5" Diameter, “Universal Style” for Use with Existing Permanent Head Installations

Model No.	Filter Length	Type of Carbon	Volume (Cu.In.)	Service Life (Gallons)
T33 Acid Washed Granular Activated Carbon – 12×40 Mesh (Post RO)				
E5333	6"	T33 GAC	14.7	1,250
E5433	8"	T33 GAC	21.6	1,500
E5533	10"	T33 GAC	28.6	2,000
E5633	12"	T33 GAC	35.5	2,500
E5733	14"	T33 GAC	41.0	3,000
T28 Granular Activated Carbon – 20×50 Mesh (Pre RO)				
E5328	6"	T28 GAC	14.7	1,250
E5428	8"	T28 GAC	21.6	1,500
E5528	10"	T28 GAC	28.6	2,000
E5628	12"	T28 GAC	35.5	2,500
E5728	14"	T28 GAC	41.0	3,000

1 Micron Carbon Block Filters

- Taste, Odor & Chlorine Reduction with Cyst Reduction
- Class 1 Particulates Filtration Media
- Lead Reduction & Scale Inhibitor Models Available
- Maximum Service Life: One Year
- 2.5" Diameter, “Universal Style” for Use with Existing Permanent Head Installations

Model No.	Filter Length	Nominal Filtration Rating	Service Life (Gallons)
1 Micron Carbon Block Filters with Cyst Reduction			
E5320	6"	1µ Particulate & Cyst Reduction	1,500 gal
E5420	8"	1µ Particulate & Cyst Reduction	2,000 gal
E5520	10"	1µ Particulate & Cyst Reduction	2,500 gal
E5620	12"	1µ Particulate & Cyst Reduction	3,000 gal
E5720	14"	1µ Particulate & Cyst Reduction	3,500 gal
1 Micron Carbon Block Filters with Scale Inhibitor (Polyphosphate) & Cyst Reduction			
E5320-P	6"	1µ Cyst Reduction & Scale Inhibitor	1,500 gal
E5420-P	8"	1µ Cyst Reduction & Scale Inhibitor	2,000 gal
E5520-P	10"	1µ Cyst Reduction & Scale Inhibitor	2,500 gal
E5620-P	12"	1µ Cyst Reduction & Scale Inhibitor	3,000 gal
E5720-P	14"	1µ Cyst Reduction & Scale Inhibitor	3,500 gal
1 Micron Carbon Block Filters with Lead and Cyst Reduction			
E5515	10"	1µ with Lead & Cyst Reduction	1,250 gal
E5615	12"	1µ with Lead & Cyst Reduction	1,500 gal
E5715	14"	1µ with Lead & Cyst Reduction	2,000 gal
1 Micron Carbon Block Filters with Lead & Cyst Reduction and Scale Inhibitor			
E5415-P	8"	1µ Lead, Cyst & Scale	1,000 gal
E5515-P	10"	1µ Lead, Cyst & Scale	1,250 gal
E5615-P	12"	1µ Lead, Cyst & Scale	1,500 gal
E5715-P	14"	1µ Lead, Cyst & Scale	2,000 gal
1 Micron Carbon Block Filters with KDF			
E5520-K	10"	1µ Cyst Reduction & KDF	2,500 gal
E5620-K	12"	1µ Cyst Reduction & KDF	3,000 gal



Series E Filters

Replacement filter body engineered with a universal cap designed to affix to existing permanent heads. This series offers similar performance to existing replacement bodies on the market but is offered at a lower price.

Ideal for use in commercial beverage and food service applications.

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“Universal” Replacement Filter Bodies

10 Micron Carbon Block Filters

- Taste, Odor & Chlorine Reduction
- Class 1 Particulates Filtration
- Maximum Service Life: One Year
- 2.5" Diameter, “Universal Style” for Use with Existing Permanent Head Installations

Model No.	Filter Length	Nominal Filtration Rating	Service Life (Gallons)
<i>10 Micron Carbon Block Filters</i>			
E5321	6"	10µ	1,500 gal
E5421	8"	10µ	2,000 gal
E5521	10"	10µ	2,500 gal
E5621	12"	10µ	3,000 gal
E5721	14"	10µ	3,500 gal
<i>10 Micron Carbon Block Filters with Scale Inhibitor (Polyphosphate)</i>			
E5321-P	6"	10µ w/ Scale Inhibitor	1,000 gal
E5421-P	8"	10µ w/ Scale Inhibitor	2,000 gal
E5521-P	10"	10µ w/ Scale Inhibitor	2,500 gal
E5621-P	12"	10µ w/ Scale Inhibitor	2,500 gal
E5721-P	14"	10µ w/ Scale Inhibitor	3,000 gal

Scale Inhibitors – GAC with Polyphosphate

- Taste, Odor & Chlorine Reduction
- Scale Inhibitor for Equipment Scaling Protection
- Maximum Service Life: 6 Months
- 2.5" Diameter, “Universal Style” for Use with Existing Permanent Head Installations

Model No.	Filter Length	Media Type	Volume (Cu.In.)	Service Life (Gallons)
E5386	6"	GAC & 2 Oz. Polyphosphate	14.7	1,000 gal
E5486	8"	GAC & 2 Oz. Polyphosphate	21.6	1,250 gal
E5586	10"	GAC & 3 Oz. Polyphosphate	28.6	1,500 gal
E5686	12"	GAC & 4 Oz. Polyphosphate	35.5	2,000 gal
E5786	14"	GAC & 4 Oz. Polyphosphate	41.0	2,500 gal
<i>Polyphosphate Only – For Scale Control (No GAC)</i>				
E5385	6"	Polyphosphate Only	14.7	n/a
E5485	8"	Polyphosphate Only	21.6	n/a
E5585	10"	Polyphosphate Only	28.6	n/a
E5685	12"	Polyphosphate Only	35.5	n/a
E5785	14"	Polyphosphate Only	41.0	n/a

Sediment Filters – Block Media Sediment Reduction

- Polypropylene Depth Filtration
- Protects Down-Line Equipment
- 2.5" Diameter, “Universal Style” for Use with Existing Permanent Head Installations

Model No.	Filter Length	Nominal Filtration Rating
E5305	6"	5µ
E5405	8"	5µ
E5505	10"	5µ
E5605	12"	5µ
E5705	14"	5µ

Mixed Bed Deionization (DI) Polishing Filters

- Ion Exchange Process for Ultra-High Purity Water with a Minimum TOC background
- Ideal for Polishing RO Product Water
- 2.5" Diameter, “Universal Style” for Use with Existing Permanent Head Installations

Model No.	Filter Length	Media Type	Volume (Cu.In.)	Service Capacity
E5455	8"	Mixed Bed DI Resin	21.6	160 Grains
E5555	12"	Mixed Bed DI Resin	28.6	220 Grains
E5655	10"	Mixed Bed DI Resin	35.5	270 Grains

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High Capacity Filters & Filter Cartridges

ELF Series “Large Format” High Capacity Filter Bodies

- Higher Flow Rates and Expanded Volume capacity
- Two-Piece Bayonet-Style Replaceable Body and Permanent Head
- 3.5" Dia. × 10" Length Large Format Filters
(ELFXL Series Extra Large Format 3.5" Dia. × 15" Length filters available upon request)

Model No.	Description	Nominal Rating	Service Life (Gallons)	Flow Rate
<i>ELF Series Carbon Block Filters</i>				
ELF-1M	GAC w/ Cyst Reduction	1µ	15,000 gal	1.67 GPM
ELF-1ML	GAC w/ Lead & Cyst Reduction	1µ	2,500 gal	1.67 GPM
ELF-1ML-KDF	GAC & KDF w/ Lead & Cyst Red.	1µ	2,500 gal	1.67 GPM
ELF-5M	GAC Block	5µ	10,000 gal	1.67 GPM
ELF-10M	GAC Block	10µ	10,000 gal	1.67 GPM

ELF Series Filter Head/Accessories

Model No.	Description
ELF-DK7	Permanent Head for ELF and E Series Filters. Also replaces existing “universal” filter head installations. 3/8" Female NPT in/out conn.
ELF-BRACKET	Bracket for ELF and Q Series Housings. Includes Screws.



Series ELF Filters

Replacement Filter Cartridges by Omnipure

- Fit Standard 10" Filter Housings with Slim Profiles
- Available in Standard Granular Media and Carbon Block Configurations

Model No.	Filter Length	Type of Carbon	Volume (Cu.In.)	Service Life (Gallons)
<i>Granular Activated Carbon Cartridges – OC Series</i>				
OCB934ROT-28	9 3/4"	T28 GAC	56	5,000 gal
OCB934ROT-33	9 3/4"	T33 GAC	56	5,000 gal

Model No.	Filter Length	Type of Carbon	Nominal Micron Rating	Chlorine Reduction
<i>Carbon Block Filter Replacements – OMB Series</i>				
OMB934-1M	9 3/4"	Carbon Block	1µ	>15,000 gal
OMB934-5M	9 3/4"	Carbon Block	5µ	>10,000 gal
OMB934-10M	9 3/4"	Carbon Block	10µ	>10,000 gal



Omnipure Filter Cartridges

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Aqualine[®] Special Purpose Filters

Deionization, Scale, KDF, and Nitrate Filters

Deionization (DI) Filter Cartridges

Non-regenerable general purpose di polishing cartridges are designed to use as RO Polishers for potable water, or to give multi-megohm quality water for analytical and general laboratory use. The highly purified ion exchange resins will deliver high purity water with a minimum TOC background. Media: Semiconductor grade (low TOC) mixed bed ion exchange resins (1:1 equivalent ratio)

- pH Range: 0-14

Model No.	For Use in Housing	Service Flow (GPM)	Capacity for Deionization
DI-4	10" Standard	0.50 GPM	7,500 ppm gallons
DI-4-20	20" Standard	1.00 GPM	15,000 ppm gallons
DI-2*	10" Standard	0.25 GPM	7,500 ppm gallons

*DI-2 is a high-purity deionization cartridge.

Scale & Corrosion Inhibitors

Crystalline polyphosphate (slow dissolving) scale inhibitors are used to prevent scaling and precipitation. Can be used as pretreatment for: RO, Ice Machines, Coffee Makers, Distillers, Hot Water Heaters, Evaporators, Steam Generators, and more.

- pH Range: 6 to 9

Model No.	For Use in Housing	Service Flow (GPM)	Capacity
PS-1	10" Standard	0.2 – 0.5 Continuous	25,000+ Gallons*

*Based on 5 ppm phosphate available for continuous use.

KDF Filter for Chlorine, Lead, and Heavy Metals Removal

Our KDF Filters contain a blend of KDF and high activity de-dusted granular activated carbon to give extremely effective and long life de-chlorination capacity, and can be used anywhere regular GAC's are used. In addition to chlorine removal, KDF filters may be used for the removal of lead and heavy metals. The capacity will be approximately 20% of those listed for chlorine.

- pH Range: 6.5 to 8.5

Model No.	Media	For Use in Housing	Service Flow (GPM)	Chlorine Capacity
KDC+4.0	GAC w/ 4 lbs. KDF	10" Standard	1.0 – 3.0	50,000 Gal*

*Tested on city water spiked to 2.2 ppm chlorine to 10% break. Capacity based on standard conditions. Your results may vary.

Nitrate Removal Filter

The NRC brine regenerable RO polishing will remove virtually all of the nitrates, nitrites and sulphates from tap water or RO product water for approximately 7500 ppm. The NRC is particularly useful as an RO polisher (since membrane rejection of nitrates can be limited) or in waters containing low sulphates. The NRC can be regenerated using sodium chloride brine.

Model No.	For Use in Housing	Service Flow (GPM)	Capacity
NRC	10" Standard	1.0 – 3.0	7,500 ppm gal



Aqualine (Systematix) Filter cartridges incorporate pre and post filter material, are constructed totally of FDA grade materials and media, and are available in 10" & 20" Lengths and Standard & Big Blue Sizes. Please contact AMI for any models or sizes not shown.

Pre-Filter: 100µ reticulated poly foam

Post Filter: 20µ spun-bonded polypropylene

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AquaPure[®], ScaleStick[®], Replacements

AquaPure, ScaleStick, Everpure & Culligan Replacement

Cuno[®] AquaPure[®] Filter Cartridges

- Fit 10" Standard Filter Housings (Approx. Dimensions: 2 $\frac{5}{8}$ "Dia. x 9 $\frac{3}{4}$ ")
- Progressive Porosity Design Helps Provide Longer Life
- Remove Dirt, Rust, Sand, and Particulates from Water Down to 5 Microns
- Carbon Filters use Specially Formulated High-Absorption Activated Carbon and are Double Action for Sediment, Chlorine Taste and Odor Reduction

Model No.	Description	Micron Rating
AP110	Resin Bonded Cellulose Sediment Filter	5 μ
AP117RO	Granular Activated Carbon + Sediment Filter	5 μ
APS117	GAC with Scale Inhibitor + Sediment Filter	5 μ

Additional Cuno/AquaPure filters not listed are available by special order.



AP110

AP117

HydroBlend[™] ScaleStick[™] Scale Inhibitor

HydroBlend is a unique composition blended to provide superior limescale (calcium carbonate) prevention and corrosion control in water fed equipment. The system feeds a controlled amount of specially blended scale control compounds into the water stream. ScaleStick cartridges fit standard 10" filter housings allowing them to be used in existing installations.

Model No.	For Use in Housing	Service Flow (GPM)	Capacity
SS-10	10" Standard	0.1 – 6	2-6,000 gal.



Hydrotech[®] Compatible Filter Replacements

- For Replacement into Hydrotech Reverse Osmosis Systems

Model No.	Description	Micron Rating
41400009	Block Carbon	5 μ
41400008	5 Micron Sediment	5 μ
RS-22-CB5-OMN	Block Carbon – Omnipure Brand	5 μ
RS-22-SED5-OMN	5 Micron – Omnipure Brand	5 μ
RS-22-SED10-OMN	10 Micron Sediment – Omnipure Brand	10 μ



Culligan[®] Compatible Filter Replacements

- For Replacement into Culligan Reverse Osmosis Systems

Model No.	Description	Replaces/Used In	Length
32-175-050-100	Extruded Carbon by KX	AC30/AC15, H83/H5	11.75"
CULLIGAN5M	5 M Sediment by Omnipure	AC30/AC15, H83/H5	10.8"
CULLIGAN10M	Carbon Block by Omnipure	AC30/AC15, H83/H5	10.8"

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Filter Housings & Accessories

10" Standard Filter Housings – for 2–2½" Dia. × 9¾" L Filter Cartridges

- MAX Pressure: 125psi (8.8 kg/cm²); MAX Temperature: 120°F (50°C)

Model No.	For Filters		Color		In/Out (FNPT)	Cap Style	Press. Relief	O-Ring Repl.
	Length	Dia. (Style)	Body	Cap				
H-H14FBE33	10"	Standard	Blue	Black	¼"	Flat	No	OR-H10F
H-H14FWW33	10"	Standard	White	White	¼"	Flat	No	OR-H10F
H-H14FCE33	10"	Standard	Clear	Black	¼"	Flat	No	OR-H10F
H-H38XWW33	10"	Standard	White	White	⅜"	Ribbed	No	OR-H10X
H-H12XBE33	10"	Standard	Blue	Black	½"	Ribbed	No	OR-H10X
H-H12XCE33	10"	Standard	Clear	Black	½"	Ribbed	No	OR-H10X
H-H34XBE33	10"	Standard	Blue	Black	¾"	Ribbed	No	OR-H10X
H-H34FBE33	10"	Standard	Blue	Black	¾"	Flat	No	OR-H10F
H-H34XCE33	10"	Standard	Clear	Black	¾"	Ribbed	No	OR-H10X
H-H34FCE33	10"	Standard	Clear	Black	¾"	Flat	No	OR-H10F



20" Standard Filter Housings – for 2–2½" Dia. × 20" L Filter Cartridges

- MAX Pressure: 125psi (8.8 kg/cm²); MAX Temperature: 120°F (50°C)

Model No.	For Filters		Color		In/Out (FNPT)	Cap Style	Pressure Relief	O-Ring Repl.
	Length	Dia. (Style)	Body	Cap				
H-H212XBE	20"	Standard	Blue	Black	½"	Ribbed	No	OR-H20X
H-H212XBER	20"	Standard	Blue	Black	½"	Ribbed	Yes	OR-H20X
H-H234WBE*	20"	Standard	Blue	Black	¾"	Ribbed	No	OR-H20X
H-H234WBER*	20"	Standard	Blue	Black	¾"	Ribbed	Yes	OR-H20X

*H-H234WBE & H-H234WBER are wide style housings: These fit standard diameter filters, but are not able to mount on multi-housing brackets. Use single-housing bracket (H-B2010W) for these models.



Ribbed Cap Flat Cap

10" Big Blue Filter Housings – for 4½" Dia. × 10" L Filter Cartridges

- MAX Pressure: 100psi (7kg/cm²); MAX Temperature: 120°F(50°C); MAX Flux: 50 GPM

Model No.	For Filters		Color		In/Out (FNPT)	Cap Style	Pressure Relief	O-Ring Repl.
	Length	Dia. (Style)	Body	Cap				
H-H101BBE	10"	Big Blue	Blue	Black	1"	Ribbed	No	OR-HBBX
H-H101BBER	10"	Big Blue	Blue	Black	1"	Ribbed	Yes	OR-HBBX
H-H115BBE	10"	Big Blue	Blue	Black	1½"	Ribbed	No	OR-HBBX
H-H115BBER	10"	Big Blue	Blue	Black	1½"	Ribbed	Yes	OR-HBBX

20" Big Blue Filter Housings – for 4½" Dia. × 20" L Filter Cartridges

- MAX Pressure: 90psi (6.3kg/cm²); MAX Temperature: 120°F(50°C); MAX Flux: 50 GPM

Model No.	For Filters		Color		In/Out (FNPT)	Cap Style	Pressure Relief	O-Ring Repl.
	Length	Dia. (Style)	Body	Cap				
H-H201BBE	20"	Big Blue	Blue	Black	1"	Ribbed	No	OR-HBBX
H-H201BBER	20"	Big Blue	Blue	Black	1"	Ribbed	Yes	OR-HBBX
H-H215BBE	20"	Big Blue	Blue	Black	1½"	Ribbed	No	OR-HBBX
H-H215BBER	20"	Big Blue	Blue	Black	1½"	Ribbed	Yes	OR-HBBX

Accessories for Filter Housings

Model No.	Description
155003	Filter Connector for connecting 2.5" Dia. Filters together in series
H-C9200	Wrench for 10" Standard AMI Filter Housings
H-C9203	Wrench for 20" Standard AMI Filter Housings
H-C9205	Wrench for AMI & Pentek Big Blue Housings



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Pentek Filter Housings & Accessories

Pentek® Filter Housings

Model No.	For Filters		Color		In/Out Conn. (FNPT)	Rpl. O-Ring	Pressure Relief
	Length	Dia. (Style)	Body	Cap			
5" Standard Filter Housings – for 2.5"Dia. x 5"L Filter Cartridges							
158002	5"	Standard	Blue	Black	3/8"	151121	No
158138	5"	Standard	Blue	Black	1/4"	151121	No
158203	5"	Standard	Blue	Black	1/2"	151121	No
10" Standard Filter Housings – for 2-2 1/2"Dia. x 9 3/4"L Filter Cartridges							
158008	10"	Standard	Clear	Blue	3/8"	151121	No
158098	10"	Standard	White	White	3/8"	151121	No
158115	10"	Standard	Blue	Black	1/4"	151121	Yes
158125	10"	Standard	White	White	1/4"	151121	No
158182	10"	Standard	White	White	1/4"	151121	Yes
158196	10"	Standard	Blue	Black	1/2"	151121	No
158195	10"	Standard	Blue	Black	1/2"	151121	Yes
150068	10"	Standard	Blue	Black	3/4"	151120	No
20" Standard Filter Housings – for 2-2 1/2"Dia. x 20"L Filter Cartridges							
158129	20"	Standard	Blue	Black	3/8"	151121	No
158204	20"	Standard	Blue	Black	1/2"	151121	Yes
158205	20"	Standard	Blue	Black	1/2"	151121	No
150069	20"	Standard	Blue	Black	3/4"	151120	Yes
150070	20"	Standard	Blue	Black	3/4"	151120	No
10" Big Blue Filter Housings – for 4 1/2"Dia. x 10"L Filter Cartridges							
150469	10"	Big Blue	Blue	Black	3/4"	151122	Yes
150470	10"	Big Blue	Blue	Black	3/4"	151122	No
150237	10"	Big Blue	Blue	Black	1"	151122	Yes
150238	10"	Big Blue	Blue	Black	1"	151122	No
150239	10"	Big Blue	Blue	Black	1 1/2"	151122	Yes
150240	10"	Big Blue	Blue	Black	1 1/2"	151122	No
20" Big Blue Filter Housings – for 4 1/2"Dia. x 20"L Filter Cartridges							
150467	20"	Big Blue	Blue	Black	3/4"	151122	Yes
150468	20"	Big Blue	Blue	Black	3/4"	151122	No
150233	20"	Big Blue	Blue	Black	1"	151122	Yes
150234	20"	Big Blue	Blue	Black	1"	151122	No
150235	20"	Big Blue	Blue	Black	1 1/2"	151122	Yes
150236	20"	Big Blue	Blue	Black	1 1/2"	151122	No



Slim Line 5" to 20"



Big Blue 10" & 20"

Filter Wrenches for Pentek Filter Housings

Model No.	For Use with Housing
150539	Slim Line Housings (5", 10", 20" up to 1/2" Port Size)
150295	Wide Housings (10", 20" Standard, 3/4" Port Size)
150296	10" Big Blue
144368	20" Big Blue



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Commercial Filter Housings

Bag Vessels, Stainless Steel, and FRP Housings

Pentek® Bag Filter Vessels

- Come Complete with Gauge, Wrench, and 3/8" Drain Valve

Model No.	Model Name	For Filter Bag	Connection	Max. Dimensions	Max. Pressure
150360	PBH-410-1	10"	1" NPT	13 ¹ / ₈ " × 7 ¹ / ₄ "	100 psi
150338	PBH-410-1.5	10"	1 ¹ / ₂ " NPT	13 ⁵ / ₈ " × 7 ¹ / ₄ "	100 psi
150367	PBH-420-1	20"	1" NPT	23 ³ / ₈ " × 7 ¹ / ₄ "	90 psi
150337	PBH-420-1.5	20"	1 ¹ / ₂ " NPT	23 ⁷ / ₈ " × 7 ¹ / ₄ "	90 psi

PBH-410 accepts a standard 4" x 8¹/₄" bag. Dimensions allow for 1" overlap on basket.
 PBH-420 accepts a standard 4" x 18¹/₂" bag. Dimensions allow for 1" overlap on basket.



Shelco® Stainless Steel Multi-Filter Housings

- Constructed of 304 Stainless Steel (316SS available upon request) with Poly-Coat Finish and FDA Grade Buna-N Gasket
- Pressure Rated at 150 psi @ 300°F
- 4FOS to 22FOS come standard with Band Clamp Closure, Swing-Bolt Closure available upon request. 36FOS & 56FOS come in Swing-Bolt Only
- Housings will accept filters up to 2³/₄" OD and in the following lengths as specified:
 - 10"=(9³/₄" or 10") • 20"=(19¹/₂" or 20") • 30"=(29¹/₄" or 30") • 40"=(39" or 40")



Model No.	Houses Filters		Max Flow (GPM)	Pipe Size
	Qty.	Length		
4FOS1	4	10"	28	2" MNPT
4FOS2	4	20"	56	2" MNPT
4FOS3	4	30"	84	2" MNPT
4FOS4	4	40"	112	2" MNPT
5FOS1	5	10"	35	2" MNPT
5FOS2	5	20"	70	2" MNPT
5FOS3	5	30"	105	2" MNPT
5FOS4	5	40"	140	2" MNPT
7FOS1	7	10"	49	2" MNPT
7FOS2	7	20"	98	2" MNPT
7FOS3	7	30"	147	2" MNPT
7FOS4	7	40"	196	2" MNPT

Model No.	Houses Filters		Max Flow (GPM)	Pipe Size
	Qty.	Length		
12FOS2	12	20"	168	3" Flange
12FOS3	12	30"	252	3" Flange
12FOS4	12	40"	336	3" Flange
22FOS3	22	30"	462	4" Flange
22FOS4	22	40"	616	4" Flange
36FOS3	36	30"	540	6" Flange
36FOS4	36	40"	720	6" Flange
56FOS3	56	30"	780	6" Flange
56FOS4	56	40"	1,040	6" Flange

*Also available in 316SS – add "316" to the end of the part # to order. Example: 4FOS1-316

Eden Excel® FRP Filter Housings

- Designed to ASME Code, Section X Standards
- Maximum Use Pressure: 150 PSI at 150° F
- Corrosion Resistance: Compatible with Fluids in the PH Range of 2-13

Model No.	Houses Filters		Max Flow (GPM)	Pipe Size
	Qty	Length		
6EFC1-2C150	6	10"	30	2" NPT
12EFC1-2C150	6	20"	60	2" NPT
18EFC1-2C150	6	30"	90	2" NPT
24EFC1-2C150	6	40"	120	2" NPT

Model No.	Houses Filters		Max Flow (GPM)	Pipe Size
	Qty	Length		
20EFC2-3C150	10	20"	100	3" NPT
30EFC2-3C150	10	30"	150	3" NPT
40EFC2-3C150	10	40"	200	3" NPT
50EFC2-3C150	10	50"	250	3" NPT



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AMI® Commercial Filter Housings

Stainless Steel Multi-Cartridge Filter Housings

AMI® Commercial Stainless Steel Multi-Cartridge Filter Housings provide a high quality solution for high-volume filtering at reduced pricing. Ideal for use in chemical systems, pre-filtration, high purity water, post-filtration and more, these housings will fit standard 30" or 40" filter cartridges.

Industry Applications

- Reverse Osmosis Pretreatment
- Chemical & Petrochemical
- Dairy
- Drinking Water
- Food and Beverage
- Liquid Desalination
- Electronics
- Fuel Material Extraction
- Pharmaceuticals & Biotechnology
- Pulp & Paper
- Wastewater Reuse
- Recycled Water
- Industrial Water Treatment

Features and Specifications

- Band V-Clamp Top Closure for Quick and Easy Cartridge Replacement
- Side-In and Side-Out Connections
- Available with Threaded or Flanged Fittings for Easy Installation
- Housings are Compatible with Standard 2.5" OD, 30" & 40" Length Melt-Blown or Wound Polypropylene Filter Cartridges
- Materials of Construction:
 - 316L Stainless Steel with Electropolish Finish
 - Buna-N O-Ring
- Operating Limits:
 - Maximum Operating Pressure: 150 psi (10 bar)
 - Maximum Operating Temperature: 250°F (120°C)



Design & Ordering Information

Model No.	Maximum Flow*		Houses Cartridges†		Inlet/ Outlet	Vent	Drain
	gpm	m³/hr	Qty.	Length			
C-0530-2F-316LEP	105	23.8	5	30"	2" Flange	¼" NPT	½" NPT
C-0530-2T-316LEP	105	23.8	5	30"	2" MNPT	¼" NPT	½" NPT
C-0730-2F-316LEP	147	33.4	7	30"	2" Flange	¼" NPT	½" NPT
C-0730-2T-316LEP	147	33.4	7	30"	2" MNPT	¼" NPT	½" NPT
C-0740-2F-316LEP	196	44.5	7	40"	2" Flange	¼" NPT	½" NPT
C-0740-2T-316LEP	196	44.5	7	40"	2" MNPT	¼" NPT	½" NPT
C-1230-3F-316LEP	252	57.2	12	30"	3" Flange	¼" NPT	½" NPT
C-1240-3F-316LEP	336	76.2	12	40"	3" Flange	¼" NPT	½" NPT
C-2230-4F-316LEP	462	104.9	22	30"	4" Flange	¼" NPT	½" NPT
C-2240-4F-316LEP	616	139.8	22	40"	4" Flange	¼" NPT	½" NPT

*Maximum flow shown is based on 7 gpm per 10" filter typical clean filter with DP of less than 3 psi. Flow rates are for guide lines only. Actual flow rates will vary based on fluid, viscosity, cartridge type, micron ratings and other factors.

†Housing will accept standard 2.5" OD Filter cartridges in the following lengths: 30"=(29¼" or 30") or 40"=(39" or 40")

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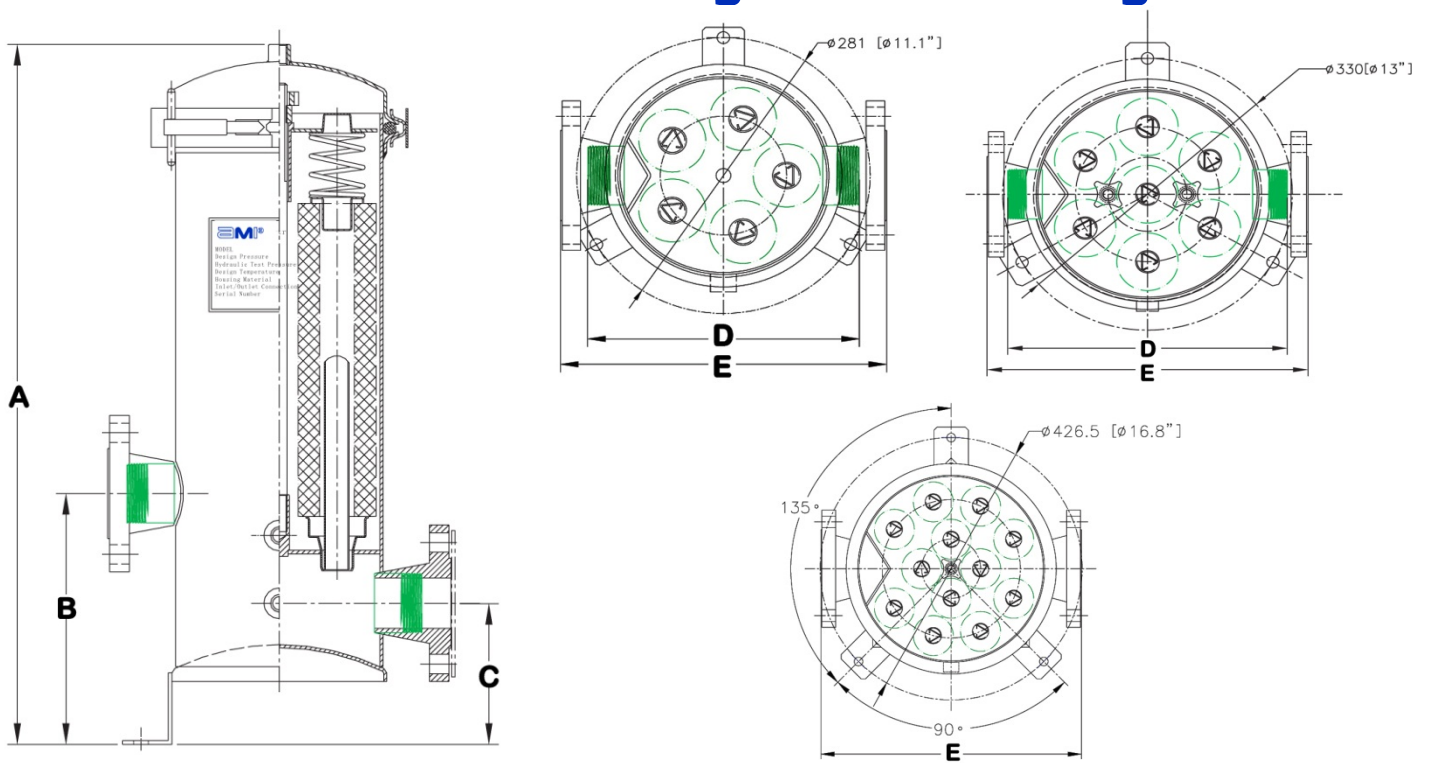


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AMI® Commercial Filter Housings

Stainless Steel Multi-Cartridge Filter Housings



Installation Dimensions

Model No.	Houses Cartridges		Installation Dimensions									
	Qty.	Length	A		B		C		D		E	
			in	mm	in	mm	in	mm	in	mm	in	mm
C-0530-2F-316LEP	5	30"	43.7	1111	9.5	242	5.5	140	10.2	260	12.0	305
C-0530-2T-316LEP	5	30"	43.7	1111	9.5	242	5.5	140	10.2	260	12.0	305
C-0730-2F-316LEP	7	30"	45.1	1145	10.6	269	5.8	148	12.4	316	14.4	366
C-0730-2T-316LEP	7	30"	45.1	1145	10.6	269	5.8	148	12.4	316	14.4	366
C-0740-2F-316LEP	7	40"	55.1	1399	10.6	269	5.8	148	12.8	326	14.6	370
C-0740-2T-316LEP	7	40"	55.1	1399	10.6	269	5.8	148	12.8	326	14.6	370
C-1230-3F-316LEP	12	30"	51.3	1303	15.1	384	9.8	248	n/a	n/a	16.7	424
C-1240-3F-316LEP	12	40"	61.3	1557	15.1	384	9.8	248	n/a	n/a	16.7	424
C-2230-4F-316LEP	22	30"	52.0	1321	15.2	387	9.5	241	n/a	n/a	21.0	533
C-2240-4F-316LEP	22	40"	62.0	1575	15.2	387	9.5	241	n/a	n/a	21.0	533

Dimensions are approximate for reference only.



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Stainless Steel Multi-Cartridge Filter Housings

Applications

- Reverse Osmosis Pre-Filtration
- Residential and Commercial Drinking Water
- Cooling Tower Filtration
- Process Water
- Ground Water Remediation
- Utility Water
- Industrial Waste Water Treatment
- Surface Water Treatment Rule (SWTR) II

Harmsco HIF Series Up-Flow Multi-Cartridge Housings

- 304 Stainless Steel Electro-Polished (316SS option available*)
- Fail-Safe Lids with Individual Studs and Bronze Wing Nuts
- CPVC Standpipe for Up-Flow Design
- Pressure Rated at 150 PSI



Certified to ANSI-NSF 61

Model No.	Max Flow (GPM)	# of Cartridges		Inlet/Outlet	Drain	Dimensions	
		Single	Alternate Config.			Height	Width
HIF-7	30	7	n/a	1½" NPT	1" NPT	19½"	13"
HIF-14	60	14	7 Double	1½" NPT	1" NPT	28"	13"
HIF-16	75	16	8 Double	2" NPT	1" NPT	28"	13"
HIF-21	90	21	7 Triple	1½" NPT	1" NPT	37"	13"
HIF-24	105	24	8 Triple	2" NPT	1" NPT	37"	13"
HIF-42	175	42	14 Triple	2" NPT	1" NPT	40"	18"
HIF-75	300	75	25 Triple	3" NPT	1½" NPT	42"	20"
HIF-100	400	100	50 Double	3" NPT	1½" NPT	52"	20"
HIF-150-FL	600	150	50 Triple	4" Flange	1½" NPT	48"	28"
HIF-200-FL	800	200	100 Double	4" Flange	1½" NPT	58"	28"



Cartridge Lengths: Single = 9¾", Double = 19½", Triple = 29¼"

* To order 316SS Option, add "-316SS" to the end of the part number. Example: HIF-7-316SS

Harmsco Band-Clamp Up-Flow Multi-Cartridge Housings

- 304 Stainless Steel Electro-Polished (316SS or Poly-Coated Options Available)
- Adjustable Top Plates to Accept Harmsco or Standard Length Cartridges
- Band-Clamp Closure with Buna-N O-Rings
- Pressure Rated at 150 PSI, up to 300°F (149°C)

Model No.	Rec'd Flow (GPM)	Max Flow (GPM)	Houses Cartridges		Inlet/Outlet	Dimensions	
			Qty.	Length		Height	Width
BC4-1-T-EP	12	25	4	9¾" or 10"	2" FNPT	19½"	11½"
BC4-2-T-EP	24	50	4	19½" or 20"	2" FNPT	29¼"	11½"
BC4-3-T-EP	36	75	4	29¼" or 30"	2" FNPT	39"	11½"
BC6-1-T-EP	18	42	6	9¾" or 10"	2" FNPT	25½"	12"
BC6-2-T-EP	36	84	6	19½" or 20"	2" FNPT	35¼"	12"
BC6-3-T-EP	54	126	6	29¼" or 30"	2" FNPT	45"	12"



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Premium Polyester and WaterBetter® Filter Cartridges

Highly Efficient Filter Cartridges made of pleated Polyester-Plus™ filter media, FDA approved materials; NSF 61 certified. Cleanable and reusable in most applications.



Applications:

- Reverse Osmosis Pre-Filtration
- Municipal Drinking Water Filtration
- Commercial/Residential Drinking Water Filtration
- Desalination Pre-filtration
- Industrial Water Filtration
- Cooling Tower Filtration
- Chill Water Loop Filtration
- Food & Beverage Filtration
- Marine/Aquatic Filtration

Premium Polyester “801” Series Filter Cartridges

Note that Premium Series Filter cartridges are available in two different size configurations: Harmsco Type will fit into Harmsco Multi-Filter Housings, while “Standard Type” will fit into single-cartridge and other housings which accept “industry standard” filter lengths. Please choose the appropriate size from the table below.

Single Length (10”) Filter Cartridges

Model Numbers (Choose Type)		Nominal Micron	End Cap Color
Harmsco (9¾”L)	Standard (10”L)		
801-0.35	801-0.35/10	0.35 µ	Brown
801-1*	801-1/10	1 µ	Tan
801-5*	801-5/10	5 µ	White
801-10	n/a	10 µ	Red
801-20*	801-20/10	20 µ	Blue
801-50*	801-50/10	50 µ	Yellow
801-100	n/a	100 µ	Green

*Items marked are available with “High Temperature” option (up to 200°F/93°C). To order, add “HT” to the part # - e.g.: 801-1HT

Double Length (20”) Filter Cartridges

Model Numbers (Choose Type)		Nominal Micron	End Cap Color
Harmsco (19½”L)	Standard (20”L)		
921-0.35	801-0.35/20	0.35 µ	Brown
921-1	801-1/20	1 µ	Tan
921-5	801-5/20	5 µ	White
921-10	801-10/20	10 µ	Red
921-20	801-20/20	20 µ	Blue
921-50	801-50/20	50 µ	Yellow

Triple Length (30”) Filter Cartridges

Model Numbers (Choose Type)		Nominal Micron	End Cap Color
Harmsco (29¼”L)	Standard (30”L)		
931-0.35	801-0.35/30	0.35 µ	Brown
931-1	801-1/30	1 µ	Tan
931-5	801-5/30	5 µ	White
931-10	801-10/30	10 µ	Red
931-20	801-20/30	20 µ	Blue
931-50	801-50/30	50 µ	Yellow

40” Length Filter Cartridges (Standard Style)

Model Numbers	Nominal Micron	End Cap Color
801-0.35/40	0.35 µ	Brown
801-1/40	1 µ	Tan
801-5/40	5 µ	White
801-10/40	10 µ	Red
801-20/40	20 µ	Blue
801-50/40	50 µ	Yellow

WaterBetter® Economically Priced Filter Cartridges

Harmsco WaterBetter Cartridges are available in Single, Double and Triple Length, and can be used in Harmsco Multi-Cartridge Filters, or as replacements for “standard” filter cartridges. Choose correct length in the table below.

Model Numbers (Please Choose Correct Length)				Nominal Micron	End Cap Color
Single (9¾”L) Harmsco or Std. Housing	Double (19½”L) Harmsco Only	20” Standard (20”L) Standard/Non-Harmsco	Triple (29¼”L) Harmsco or Std. Housing		
WB-1	WB-921-1	WB-20-1W	WB-931-1	1 µ	Tan
WB-5	WB-921-5	WB-20-5W	WB-931-5	5 µ	White
WB-20	WB-921-20	WB-20-20W	WB-931-20	20 µ	Blue
WB-50	WB-921-50	WB-20-50W	WB-931-50	50 µ	Yellow

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Poly-Pleat™, All-Poly & SureSafe™ Filter Cartridges

Poly-Pleat Absolute Rated Filter Cartridges

- Absolute rated one micron filter media removes cyst-sized particles for safe drinking water. Substantially removes: Cryptosporidium, Giardia Cysts, Harmful Organisms, Sediment, Silt, Turbidity and more.
- Constructed of FDA Listed Materials, NSF/ANSI 61 Certified
- Maximum Temperature: 140°F/60°C
- Micron Rating: 1µ Absolute
- Flow Rate: Up to 0.5 gpm per Square Foot of Media



Model No.	Size	Fits Housings		Dimensions		Media (Sq. Ft.)
		Harmsco HIF Style	Std. Single Cartridge	Length	O.D.	
<i>Standard Cartridges for use in Harmsco or Standard Filter Housings</i>						
PP-S-1	Single/ 10" Std.	✓	✓	9¾"	2¾"	3.7
PP-D-1	Double	✓	--	19½"	2¾"	7.5
PP-20E-1	20" Standard	--	✓	20"	2¾"	7.5
PP-T-1	Triple/ 30" Std.	✓	✓	29¼"	2¾"	11
<i>Calypso Blue™ Cartridges for Replacement in "Big Blue" Filter Housings</i>						
PP-BB-10-1	10" Big Blue	--	✓ (BB)	9¾"	4½"	8.0
PP-BB-20-1	20" Big Blue	--	✓ (BB)	20"	4½"	16.8

All-Poly High Purity Absolute Rated Filter Cartridges

- High Flow Absolute Rated Filters Constructed of 100% Polypropylene Media with Polypropylene End caps and Components
- Double Open Ended (Flat Gasket) End Cap Configuration (222, 226, 213 end caps also available)

Model Numbers (Please Choose Correct Length)				Absolute Micron
Single (9 ¾"L) Harmsco or Std. Housing	Double (19 ½"L) Harmsco Only	20" Standard (20"L) Standard/Non-Harmsco	Triple (29 ¼"L) Harmsco or Std. Housing	
PP-975-0.2-DOE	PP-195-0.2-DOE	PP-20-0.2-DOE	PP-2925-0.2-DOE	0.2 µ
PP-975-0.45-DOE	PP-195-0.45-DOE	PP-20-0.45-DOE	PP-2925-0.45-DOE	0.45 µ
PP-975-1-DOE	PP-195-1-DOE	PP-20-1-DOE	PP-2925-1-DOE	1 µ
PP-975-5-DOE	PP-975-5-DOE	PP-20-5-DOE	PP-2925-5-DOE	5 µ

SureSafe™ Antimicrobial Filter Cartridges

Model No.	Nominal Micron Rating	Size	Fits Housings		Dimensions		Media (Sq. Ft.)
			Harmsco HIF Style	Std. Single Cartridge	Length	O.D.	
<i>Standard Cartridges for use in Harmsco or Standard Filter Housings</i>							
801-20-AM	20 µ	Single/ 10" Std.	✓	✓	9¾"	2¾"	6
801-50-AM	50 µ	Single/ 10" Std.	✓	✓	9¾"	2¾"	6
<i>Calypso Blue™ Cartridges for Replacement in "Big Blue" Filter Housings</i>							
HB-10-20W-AM	20 µ	10" Big Blue	--	✓ (BB)	9¾"	4½"	12
HB-10-50W-AM	50 µ	10" Big Blue	--	✓ (BB)	9¾"	4½"	12
HB-20-20W-AM	20 µ	20" Big Blue	--	✓ (BB)	20"	4½"	26
HB-20-50W-AM	50 µ	20" Big Blue	--	✓ (BB)	20"	4½"	26

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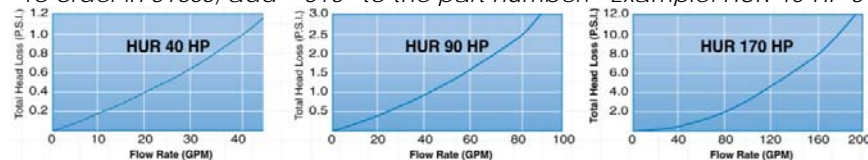
Hurricane® Single-Cartridge Filter Housings

HARMSCO HP Hurricane® Filter Housings

- Combination Cyclone Separator and Cartridge Filter
- Electropolished 304 Stainless Steel (316 SS option available*)
- Fail-Safe Lids with Individual Studs and Brass Wing Nuts
- CPVC Standpipe for Up-Flow Design
- Pressure Rated to 150 PSI, Temperature Rated to 140°F
- 2" NPT Pipe Connection, 1" NPT Drain

Model No.	Max Flow* (GPM)	Fits Cartridge	Dimensions		
			Height	Floor Space	Service Height
HUR-40-HP	50	HUR-40	19½"	15"×15"	35"
HUR-90-HP	100	HUR-90	29⅞"	15"×15"	52"
HUR-170-HP	150	HUR-170	40½"	15"×15"	72"

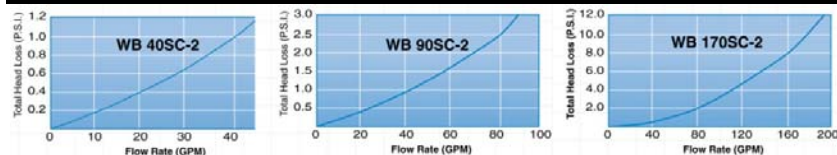
* To order in 316SS, add "-316" to the part number. Example: HUR-40-HP-316



WaterBetter® Economy-Priced Hurricane-Style Housings

- Electropolished 304 Stainless Steel (316SS option available*)
- Fail-Safe Lids with Brass Wing Nuts
- CPVC Standpipe (SS available upon request)
- Pressure rated to 150 PSI, Temperature rated to 140°F
- 2" NPT Pipe Connection, 1" NPT Drain (1" Pipe Size available)

Model No.	Max Flow* (GPM)	Fits Cartridge	Dimensions		
			Height	Floor Space	Service Height
WB-40SC-2	50	HUR-40	19¼"	15"×15"	31"
WB-90SC-2	100	HUR-90	29⅞"	15"×15"	51"
WB-170SC-2	150	HUR-170	39⅞"	15"×15"	72"



* To order in 316SS, add "-316" to the part number. Example WB-40SC-2-316



WaterBetter® High Capacity Multi-Hurricane Housing

- The Harmsco WB 5x170FL Houses (5) HUR170
- Pressure Rated up to 125psi, Temperature rated to 140°F.
- 4" Flange Pipe Connection, 1½"NPT Drain

Model No.	Max Flow* (GPM)	Fits Cartridges	Dimensions		
			Height	Floor Space	Service Height
WB-5x170FL	750	5×HUR-170	46"	28"×28"	72"

*Flows rates above are guidelines for housing capacity only. Actual flow rates will depend on filter cartridge type, water quality, and other factors.



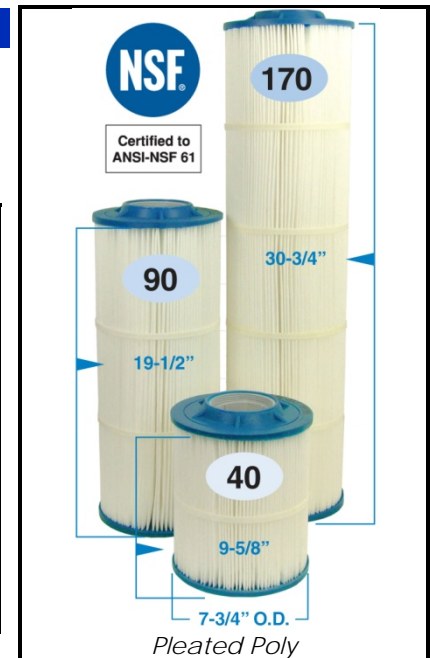
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Filter Cartridges for Hurricane & WaterBetter Housings

Pleated Polyester Filter Cartridges

- For Sediment Removal & Turbidity Reduction
- Cartridges are Cleanable and Reusable in Most Applications
- Cartridges Operate in pH of 3 to 11 and Temperatures to 140°F (60°C)
- Come in 3 sizes to Fit Hurricane-style Housings, Choose Correct Size from Table

Model No. (Choose Filter Size)			Nominal Micron Rating
Size 40 (HUR-40) (7¾"OD×9⅝"L)	Size 90 (HUR-90) (7¾"OD×19½"L)	Size 170 (HUR-170) (7¾"OD×30¾"L)	
HC/40-0.35	HC/90-0.35	HC/170-0.35	0.35 μ
HC/40-1	HC/90-1	HC/170-1	1 μ
HC/40-5	HC/90-5	HC/170-5	5 μ
HC/40-10	HC/90-10	HC/170-10	10 μ
HC/40-20	HC/90-20	HC/170-20	20 μ
HC/40-50	HC/90-50	HC/170-50	50 μ
HC/40-100	HC/90-100	HC/170-100	100 μ
HC/40-150	HC/90-150	HC/170-150	150 μ
HC/40-EZ-CLEAN	HC/90-EZ-CLEAN	HC/170-EZ-CLEAN	Cleaning Cartridge



Poly-Pleat Absolute Rated Filters

- 1 Micron Absolute for Cryptosporidium and Giardia Cysts; Sediment Removal & Turbidity Reduction
- 140°F (60°C) Temperature Limit (*Varies depending on pressure and time under load*)

Model No.	Size (For Housing)
PP-HC/40-1	HUR-40
PP-HC/90-1	HUR-90
PP-HC/170-1	HUR-170

All-Poly High Purity 100% Polypropylene Media

- High Flow Absolute Rated Filters Constructed of 100% Polypropylene Media with Polypropylene End Caps and Components

Model No. (Choose Filter Size)			Nominal Micron Rating
Size 40 (HUR-40) (7¾"OD×9⅝"L)	Size 90 (HUR-90) (7¾"OD×19½"L)	Size 170 (HUR-170) (7¾"OD×30¾"L)	
HC-PP-40-0.2	HC-PP-90-0.2	HC-PP-170-0.2	0.2 μ
HC-PP-40-0.45	HC-PP-90-0.45	HC-PP-170-0.45	0.45 μ
HC-PP-40-1	HC-PP-90-1	HC-PP-170-1	1 μ
HC-PP-40-5	HC-PP-90-5	HC-PP-170-5	5 μ



Recommended Flow Rates:

- HC/40: 35 GPM (Max. 50)
- HC/90: 70 GPM (Max. 100)
- HC/170: 105 GPM (Max. 150)
- HC-PP-40: 17 GPM (Max. 25)
- HC-PP-90: 35 GPM (Max. 50)
- HC-PP-170: 60 GPM (Max. 100)
- HC/40-AM: 35 GPM (Max. 50)
- HC/90-AM: 70 GPM (Max. 100)
- HC/170-AM: 105 GPM (Max. 150)

SureSafe™ Antimicrobial Filters for Hurricane Housings

- Reduces Growth of Bacteria and Mold on Media

Model No. (Choose Filter Size)			Nominal Micron Rating
Size 40 (HUR-40) (7¾"OD×9⅝"L)	Size 90 (HUR-90) (7¾"OD×19½"L)	Size 170 (HUR-170) (7¾"OD×30¾"L)	
HC/40-20-AM	HC/90-20-AM	HC/170-20-AM	20 μ
HC/40-50-AM	HC/90-50-AM	HC/170-50-AM	50 μ

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Procon Pumps



*Model No.	Series No.	Material	Style	Flow (Gal/Hr)		Pressure PSI	For Motor HP	
				60 HZ	50 HZ		60 HZ	50 HZ
112E025F11XX	2	Brass	Bolt-on	25	20	200	1/4	1/4
112A025F11XX	2	Brass	Clamp-On	25	20	200	1/4	1/4
113E025F31XX	3	SS	Bolt-on	25	20	200	1/4	1/4
113A025F31XX	3	SS	Clamp-on	25	20	200	1/4	1/4
112E050F11XX	2	Brass	Bolt-On	50	38	200	1/3	1/3
112A050F11XX	2	Brass	Clamp-On	50	38	200	1/3	1/3
113E050F31XX	3	SS	Bolt-on	50	38	200	1/3	1/3
113A050F31XX	3	SS	Clamp-on	50	38	200	1/3	1/3
112E080F11XX	2	Brass	Bolt-on	80	63	200	1/3	1/3
112A080F11XX	2	Brass	Clamp-On	80	63	200	1/3	1/3
113E080F31XX	3	SS	Bolt-On	80	63	200	1/3	1/3
113A080F31XX	3	SS	Clamp-On	80	63	200	1/3	1/3
112B100F31XX	2	Brass	Clamp-On	100	80	200	1/3	1/3
112E100F11XX	2	Brass	Bolt-on	100	80	200	1/3	1/3
112A100F11XX	2	Brass	Clamp-On	100	80	200	1/3	1/3
113E100F31XX	3	SS	Bolt-On	100	80	200	1/3	1/3
113A100F31XX	3	SS	Clamp-on	100	80	200	1/3	1/3
112E125F11XX	2	Brass	Bolt-On	125	100	200	1/3	1/3
112A125F11XX	2	Brass	Clamp-on	125	100	200	1/3	1/3
114E240F11XX	4	Brass	Bolt-on	240	186	200	3/4	3/4
114B240F11XX	4	Brass	Clamp-on	240	186	200	3/4	3/4
115E240F31XX	5	SS	Bolt-on	240	186	200	3/4	3/4
115B240F31XX	5	SS	Clamp-on	240	186	200	3/4	3/4
114E265F11XX	4	Brass	Bolt-on	265	190	200	1	1
114E330F11XX	4	Brass	Bolt-on	330	264	200	1	1
114B330F11XX	4	Brass	Clamp-on	330	264	200	1	1
116N360F11XX	6	SS	Bolt-on	360	300	250	2	2
116N600F11XX	6	SS	Bolt-on	600	505	250	2	2
116N660F11XX	6	SS	Bolt-on	660	547	250	2	2

*Note that the motor horsepower is that frequency (Hz). If a 60 Hz motor is used for a 50 Hz application, it must be de-rated. For example, a 2 HP 60 Hz motor is only 1.5 HP at 50 Hz.

- * Other pump models available. Please contact Applied Membranes Inc. for more information and details.
- * Clamps and other accessories available separately on the following pages.

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Procon Pumps Matrix

1 1 1 A 100 F 1 1 A A 250

Product Classification:

1 – Rotarv Vane Pump

Food Grade Classification:

0 – Non Food Grade – No Agency Approval
 1 – NSF C-2 Listed
 2 – WRC Approved
 3 – Food Grade – No Agency Approval

Series:

1 – Brass, 3/8 NPT Ports, Integral Strainer
 2 – Brass, 3/8 NPT Ports
 3 – ST STL, 3/8 NPT Ports
 4 – Brass, 1/2 NPT Ports
 5 – ST STL, 1/2 NPT Ports
 6 – ST STL, 1" NPT Ports
 7 – Brass, 3/8 NPT Ports, Mini Pro
 8 – ST STL, 3/8 NPT Ports, Integral Strainer

Mounting and Drive Configuration:

A – CLAMP ON WITH .188: DOUBLE FLAT DRIVE
 B – CLAMP ON WITH 1143 BRONZE COUPLING
 C – CLAMP ON WITH 1143-2 PLASTIC COUPLING
 D – CLAMP ON WITH SLOTTED SHAFT ONLY-NO COUPLY
 E – BOLT ON WITH SINGLE FLAT DRIVE
 J – BOLT ON WITH .25" DOUBLE FLAT DRIVE
 K – BOLT ON WITH 3018 BRONZE COUPLING
 L – BOLT ON WITH 3018-1 OVERSIZE BRONZE COUPLING
 M – BOLT ON WITH SLOTTED SHAFT ONLY
 N – BOLT ON WITH KEY SLOT DRIVE
 P – CLAMP ON WITH 1143-3 OVERSIZE BRONZE COUPLING
 R – LONG CLAMP ON WITH DOUBLE FLAT DRIVE
 S – CLAMP ON WITH SINGLE FLAT DRIVE

FLOWRATE:

SERIES 1, 2, & 3	SERIES 4 & 5	SERIES 6
015-15 GPH	115-115 GPH	300-300 GPH
025-25 GPH	140-140 GPH	360-360 GPH
035-35 GPH	165-165 GPH	420-420 GPH
050-50 GPH	190-190 GPH	480-480 GPH
060-60 GPH	215-215 GPH	540-540 GPH
070-70 GPH	240-240 GPH	600-600 GPH
080-80 GPH	265-265 GPH	660-660 GPH
100-100 GPH		
110-110 GPH		
125-125 GPH		
140-140 GPH		

Elastomer / Seal Configuration:

A – Nitrile / Positive Drive Seal
 F – Nitrile / Type 21 or Type 2100 Seal
 G – Ethylene Propylene / Type 21 Seal
 R – Fluorocarbon / Type 21 Seal
 S – Neoprene / Type 21 Seal
 V – Nitrile / Type 21 Seal with Low Force Spring
 W – Ethylene Propylene / Type 21 / WRC Approved Compound

Pressure Setting (Relief Valve):

Setting for relief valve pressure in PSI (Pounds per Square Inch)

Pressure Range (Relief Valve Spring):

A – 151 to 250 PSI, Default Setting 170 PSI
 B – 100 to 150 PSI, Default Setting 130 PSI
 C – 60 to 99 PSI, Default Setting 99 PSI
 D – 30 to 59 PSI, Default Setting 50 PSI
 X – No Setting

Valve Type and Configuration:

A – Plastic, HI Temp-Bypass (SS HSG SEAT)
 B – Plastic HI Temp-Solid (SS HSG SEAT)
 C – Plastic HI Temp-BAL Bypass (SS HSG SEAT)
 D – Plastic HI Temp-Solid (SS HSG SEAT)
 F – Plastic HI Temp-EXT ADJ Bypass (SS HSG SEAT)
 G – Plastic HI Temp-EXT ADJ Solid (SS HSG SEAT)
 H – Plastic HI Temp-Bypass
 J – Plastic HI Temp-Solid
 K – Plastic HI Temp-Balanced Bypass
 L – Plastic HI Temp-Balanced Solid
 M – Plastic HI Temp-EXT ADJ Bypass
 N – Plastic HI Temp-EXT ADJ Solid
 P – Brass HI Temp-Solid (SS HSG SEAT)
 R – SS HI Temp-Solid (SS HSG SEAT)
 1 – Plastic LO Temp-Bypass (SS HSG SEAT)
 2 – Plastic LO Temp-Solid (SS HSG SEAT)
 3 – Plastic LO Temp-Bypass
 4 – Plastic LO Temp-Solid
 5 – Plastic LO Temp-BAL Bypass (SS HSG SEAT)
 X – No Relief Valve

Clearances:

1 – Standard Clearance
 2 – SPCL Clearance (1x) Liner and BRGS
 3 – SPCL Clearance (2x) Liner and (1x) BRGS
 4 – Standard Clearance with Seal Circulation
 5 – SPCL Clearance (1x) Liner w/ (1x) Seal CIRC BRGS
 6 – SPCL Clearance (2x) Liner w/ (1x) Seal CIRC BRGS

Rotation/Slinger/Passivation/Strainer:

1 – Clockwise
 2 – Counter Clockwise
 3 – Clockwise/Slinger
 4 – Counter Clockwise/Slinger
 5 – Clockwise/Slinger/ Passivation
 6 – Counter Clockwise/Slinger/Passivation
 7 – Clockwise/Coarse Strainer
 8 – Clockwise/Slinger/Coarse Strainer

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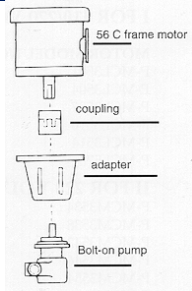
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Motors & Repair Kits for Procon Pumps

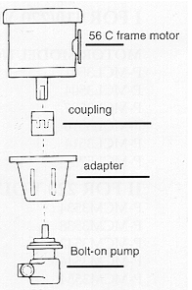
Frame 56C Motors for Bolt-On Procon Pumps

Model No.	HP	Volts	Hz	Phase
P-MG570	1/3"	110/220	50/60	1
P-MG571	1/2"	110/220	50/60	1
P-MG572	3/4"	110/220	50/60	1
P-MG573	1"	110/220	50/60	1
P-MG574	1 1/2"	110/220	50/60	1
P-MG584	1	220/380	50	3
P-MG585	1	208/380	60	3



Pump Accessories for 56C Frame Motors

Model No.	Description
Mounting Brackets/Adapters	
P-B1048P	Adapter for 56C Frame Motor, Series 1-5*
P-B3207P	Adapter for 56C Frame Motor, Series 6*
Couplings	
P-C3045P	Coupler, 7/16" x 5/8", Bolt on 56C Type, Series 1-5*
P-C3306P	Coupler, 5/8" x 5/8", Bolt on 56C Type, Series 6*
Optional Hardware	
P-K3208P	Key
P-BW3216P	6 each Bolts and Washers

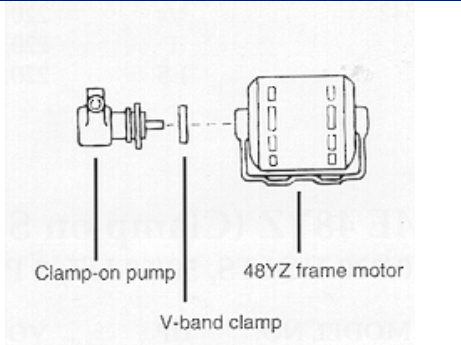


* The 3rd character in the Procon Part Number will determine the pump series.

Frame 48YZ Motors for Clamp-On Procon Pumps

Model No.	HP	Volts	Hz	Phase
P-MP803	1/4	110	60	1 Ph
P-MP806	1/3	110	60	1 Ph
P-MP828	1/3	110/220	50/60	3 Ph
P-MP859	1/4	220	50/60	1 Ph
P-MP871	1/2	110/220	50/60	1 Ph
P-MP872	3/4	110/220	50/60	1 Ph

*For 1 HP motor for clamp-on pump, use a Frame 56C motor for bolt-on pump with adapter part no. Y4P945



Pump Accessories for 48YZ Frame Motors

Model No.	Description	For Use on Pumps
Mounting Clamp		
P-BV100P	V-Band Clamp for 48YZ Frame Motors	Clamp-on

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Goolds 60 Cycle Pump & Motor Assemblies

High Pressure Pumps

Complete Unit	Flow (GPM)	PSI	Material	HP	Voltage	Pump Only	Motor Only	Repair Stack	Mech Seal
60 Hz – 3 PHASE – FLOWS SHOWN AT PSI RANGE 240-265									
YP10GBS2015S4	10	200	304/NORYL	2	220/440	--	YPE08876BB	--	YP10K55
3SV16FF4F20	10-12	225	SS 304	3	220/440	3SV16FA30	V09742	3SVR160	10K168
5SV17FG4F20	20	235	SS 304	5	220/440	5SV17FB30	V10742A	5SVR170	10K168
5SV22FH4F20	30	260	SS 304	7.5	220/440	5SV22FC30	V11742A	5SVR220	10K168
10SV13FJ4F20	40	275	SS 304	10	220/440	10SV13FC30	V12742	10SVR130	10K169
10SV15FK4F20	60	250	SS 304	15	220/440	10SV15FD30	V13742	10SVR150	10K169
15SV11FL4F20	90	260	SS 304	20	220/440	15SV11FD30	V14742	15SVR110	10K169
22SV12FM4F20	130	242	SS 316	30	220/440	22SV12FE30	V15742	22SVR120	10K169
33SV70NP4F20	180	250	SS 316	40	220/440	33SV70NE30	V16742	33SVR700	10L38
46SV62NP4F20	200	245	SS 316	40	--	46SV62NE30	V16742	46SVR620	10L38
60 Hz – 1 PHASE – FLOWS SHOWN AT PSI RANGE 240-265									
YP10GBS2014S4	10	200	304/NORYL	2	110/220	--	YP308821BB	--	YP10K55
3SV16FF3J20	10-12	225	SS 304	3	220/440	3SV16FA30	V09722	3SVR160	10K168
5SV17FG3L20	20	235	SS 304	5	220/440	5SV17FB30	V10722A	5SVR170	10K168

Booster Pumps

Complete Unit	Flow (GPM)	Material	HP	Voltage	Pump Only	Motor Only	Repair Stack	Mech Seal
60 Hz – 3 PHASE – FLOWS SHOWN AT PSI RANGE 50-60								
YPLB0735TE	10 @ 53 PSI	304/NORYL	0.75	220/440	--	YPSFE05876	YP10K110	10K18
YP1HM1E5D0	5-10	SS 316	1	220/440	--	YPSFE06876	YP10L31	10L35
YP1ST1F5B4	10-20	SS 316	1.5	220/440	--	YPC07876	YPRPKNPE	YPRPKNPE
YP1ST1G5A4	30-40	SS 316	2	220/440	--	YPC08876	YPRPKNPE	YPRPKNPE
YP2ST1J5G4	50-75	SS 316	5	220/440	--	YPC10876	YPRPKNPE	YPRPKNPE
4SH2K52C0	80-100	SS 316	7.5	220/440	YP4SHK6/2L872/1L51*	YPC11742	YPRPKSSH	YPRPKSSH
4SH2K52B0	130-150	SS 316	7.5	220/440	YP4SHK6/2L874/1L51*	YPC11742	YPRPKSSH	YPRPKSSH
5SH2M52B0	220-300	SS 316	15	220/440	YP5SHK6/2L765/1L51*	YPC13742	YPRPKSSH	YPRPKSSH
5SH2M52A0	300-350	SS 316	15	220/440	YP5SHK6/2L766/1L51*	YPC13742	YPRPKSSH	YPRPKSSH
60 Hz – 1 PHASE – FLOWS SHOWN AT PSI RANGE 50-60								
YPLB0712TE	10 @ 53 PSI	304/NORYL	0.75	110/220	--	YPSFE05821	YP10K110	10K18
YP1HM1E4D0	5-10	SS 316	1	110/220	--	YPSFE06821	YP10L30	10L35
YP1ST1F4B4	10-20	SS 316	1.5	110/220	--	YPC07821	YPRPKNPE	YPRPKNPE
YP1ST1G4B4	30-40	SS 316	2	110/220	--	YPC08821	YPRPKNPE	YPRPKNPE
YP9SH1H4B0	50-60	SS 316	5	110/220	YP9SHK6/2L888/1L554*	YPC10722	YPRPKSSH	YPRPKSSH

Notes: * Pump Kit/Motor Adapter



GB Water Gun



LB Booster Pump

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Goulds 50 Cycle Pump & Motor Assemblies

High Pressure Pumps									
Complete Unit	Flow (GPM)	PSI	Material	HP	Voltage	Pump Only	Motor Only	Repair Stack	Mech Seal
50 Hz – 3 PHASE – FLOWS SHOWN AT PSI RANGE 250-280									
1SV30FE2M20	5	245	SS 304	2	380	1SV30FA10	OV09742Z	1SVR300	10K168
3SV21FF2M20	10	200	SS 304	3	380	3SV21FA10	OV10742ZA	3SVR210	10K168
3SV28FF2M20	10-12	255	SS 304	5	380	3SV28FB10	OV11742ZA	3SVR280	10K168
5SV27FG2M20	12-15	250	SS 304	5	380	5SV27FC10	YPV11742A	5SVR270	10K168
10SV17FH2M20	20-30	250	SS 304	7.5	380	10SV17FC10	YPV12742	10SVR170	10K169
10SV19FJ2M20	35-40	250	SS 304	10	380	10SV19FD10	YPV13742	10SVR190	10K169
15SV14FK2M20	40-50	250	SS 304	15	380	15SV14FD10	YPV14742	15SVR140	10K169
15SV15FK2M20	60-70	245	SS 304	15	380	15SV15FD10	YPV14742	15SVR150	10K169
33SV92NM2M20	80-100	250	SS 316	25	380	33SV92NE10	YPV16742	33SVR920	10L38
33SV90NM2M20	100-120	250	SS 316	25	380	33SV90NE10	YPV16742	33SVR900	10L38
50 Hz – 1 PHASE – FLOWS SHOWN AT 250 PSI									
1SV30FE1P20	5	245	SS 304	2	220	1SV30FA10	--	1SVR300	10K168
3SV28FF1P20	10-12	--	SS 304	3	220	3SV28FB10	V09B12K2BD2S	3SVR280	10K168
5SV27FG1R20	12-15	--	SS 304	5	220	5SV27FC10	YP0052TEF1C	5SVR270	10K168

Booster Pumps									
Complete Unit	Flow (GPM)	Material	HP	Voltage	Pump Only	Motor Only	Repair Stack	Mech Seal	
50 Hz – 3 PHASE – FLOWS SHOWN AT 50 PSI									
YP2HM1F5E0	10	SS 316	1.5	380	--	YPSFE07876	--	10L35	
5SV7FC2M60	20	SS 304	1	380	5SV7GA10	YPV07742	5SVR70	10K168	
10SH6JA2D0	40	SS 316	5	380	10SHK6/2L891/1L561	OC11742Z	--	YPRPKSSHs	
10SH6JA2C0	60	SS 316	5	380	10SHK6/2L892/1L561	OC11742Z	--	YPRPKSSHs	
7SH6KA2C0	100	SS 316	7.5	380	7SHK6/2L877/1L53	OC12742Z	--	YPRPKSSHs	
7SH6LA2B0	150	SS 316	10	380	7SHK6/2L828/1L53	OC13742Z	--	YPRPKSSHs	
50 Hz – 1 PHASE – FLOWS SHOWN AT 50 PSI									
5SV7FC1P20	20	SS 304	1	110/220	5SV7GA10	YP012TEF1C50	5SVR70	10K168	



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Grundfos Pump & Motor Assemblies

60 Hz Multistage Centrifugal Pumps					<i>Please specify phase when ordering: 1 or 3</i>			
Model No.	Pump Model	Flow	HP	Voltage	Pump Only	Motor Only	Repair Stack	Seal Kit
304 Stainless Steel – 60 Hz - Flows at 250 PSI								
96083590	CRI 3-21	10	5	208-230/460	96083556	85600H12	96453567	96455086
96083594	CRI 3-25	15	5	208-230/460	96083558	85600H12	96453569	96455086
96084663	CRI 5-20	20	7.5	208-230/460	96084627	85600H17	96453591	96455086
96084665	CRI 5-22	25	7.5	208-230/460	96084628	85600H17	96453592	96455086
96084667	CRI 5-24	30	7.5	208-230/460	96084629	85600H17	96453593	96455086
97757968	CRI 10-14	35-50	15	208-230/460	97754608	84Z05096	96491705	96511844
96523648	CRI 15-10	55-75	20	230/460	96126945	84Z04920	96491745	96511844
316 Stainless Steel – 60 Hz - Flows at 250 PSI								
96083950	CRN 3-21	10	5	208-230/460	96083916	85700H12	96453567	96455086
96083954	CRN 3-25	15	5	208-230/460	96083918	85700H12	96453569	96455086
96085043	CRN 5-20	20	7.5	208-230/460	96084817	85700H17	96453614	96455086
96085045	CRN 5-22	25	7.5	208-230/460	96084818	85600H17	96453615	96455086
96085047	CRN 5-24	30	7.5	208-230/460	96085009	85600H17	96453616	96455086
97757991	CRN 10-14	35-50	15	208-230/460	97754610	84Z05096	96491731	96511844
96523725	CRN 15-10	55-75	20	230/460	96127011	84Z04920	96491768	96511844
97754602	CRN32-7-2	80-100	30	230/460	96423800	85600027	96416923	96494662
96426323	CRN32-7	120	30	230/460	96423804	85600027	96416298	96494662
96426454	CRN 45-5	150	40	230/460	96423868	84Z04128	96416250	96494662
96426118	CR 45-6-2	175-200	50	230/460	96423872	85600033	96416250	96494662
96426122	CR 45-6	225	50	230/460	96423876	85600033	96416251	96494662

50 Hz Multistage Centrifugal Pumps					<i>Please specify voltage: 220-240 or 380-415</i>			
Model No.	Pump Model	Flow	KW		Pump Only	Motor Only	Repair Stack	Seal Kit
304 Stainless Steel – 50 Hz - Flows at 250 PSI								
96527913	CRI 3-33	10	3		Call Factory	85U05510	96453573	96455086
96564162	CRI 5-29	15-20	4		Call Factory	85U05413	96453595	96455084
96564163	CRI 5-32	25-30	7.5		Call Factory	85U07417	96453596	96455084
96577752	CRI 10-20	35	7.5		Call Factory	85U07522	Call Factory	96511844
96501728	CRI 15-14	40-65	11		Call Factory	85U07524	96491434	96511844
96501729	CRI 15-17	70	15		Call Factory	85U07526	96491435	96511844
316 Stainless Steel – 50 Hz - Flows at 250 PSI								
96516847	CRN 3-33	10	3		Call Factory	85U05510	96453573	96455086
96517201	CRN 5-29	15-20	4		Call Factory	85U05413	96453618	96455086
96517202	CRN 5-32	25-30	5.5		Call Factory	85U07417	96453619	96455086
96577839	CRN 10-20	35	7.5		Call Factory	85U07522	Call Factory	96511844
96501780	CRN 15-14	40-65	11		Call Factory	85U07524	96491447	96511844
96501781	CRN 15-17	70	15		Call Factory	85U07526	96491448	96511844
91158769	CRN32-10-2	75-85	18.5		91159586	85U07528	96416926	96494664
91158714	CRN32-10	90-100	18.5		91159587	85U07528	96416301	96494664
91158957	CRN45-8-2	120-150	30		91159774	81D05332	96416943	96494664
91158958	CRN45-8	175	30		91159775	81D05332	96416253	96494664
91159112	CRN64-7-1	200	37		91159928	81D05334	96416344	96494664

SQFlex Submersible Solar Pumps			
Model No.	Pump Model	Flow	Voltage
95027334	6 SQF2	5 GPM	300 VDC
95027335	11 SQF 2	11 GPM	300 VDC
95027350	16 SQF10	13-22 GPM	300 VDC



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CAT Plunger Pumps



25F25SEEL



271
(Rails and shaft protector sold separately)



781
(Rails sold separately)



1051
(Rails and shaft protector sold separately)



7CP6111
(Rails sold separately)

PUMP MODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		HORSEPOWER		RPM	DRIVES	OPTIONAL SEALS
	GPM	LPM	PSI	BAR	HP	KW			
316 STAINLESS STEEL MANIFOLDS WITH BUNA SEALS - 0.5 TO 14 GPM (1.9 TO 53 LPM)									
Note: Models ending in the letter "C" or "K" are flush style pumps. Pumps in <i>italics</i> indicate an optional performance rating. (All Flows at 1000 PSI)									
25F05SEEL	0.5	1.9	1200	85	0.4	0.3	1725	Hollow shaft-electric	FPM, EPDM, IPFE
25F10SEEL	1	3.8	1200	85	0.8	0.6	1725	Hollow shaft-electric	FPM, EPDM, IPFE
25F15SEEL	1.5	5.7	1200	85	1.2	0.9	1725	Hollow shaft-electric	FPM, EPDM, IPFE
25F22SEEL	2.2	8.3	1200	85	1.8	1.3	1725	Hollow shaft-electric	FPM, EPDM, IPFE
231	2.3	8.7	1500	105	2.4	1.8	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, IPFE, STHT, HT
3CP1231	2.3	8.7	2000	140	3.2	2.4	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, IPFE, HT, ST4
25F25SEEL	2.5	9.5	1200	85	2.1	1.5	1725	Hollow shaft-electric	FPM, EPDM, IPFE
25F29SEEL	2.85	10.8	1200	85	2.3	1.7	1725	Hollow shaft-electric	FPM, EPDM, IPFE
25F35SEEL	3.5	13.2	1200	85	2.9	2.1	1725	Hollow shaft-electric	FPM, EPDM, IPFE
271	3.5	13.2	1500	105	3.6	2.7	1420	Belt, Bell, Clutch	FPM, EPDM, IPFE, STHT, HT
241	3.6	13.6	1200	85	3	2.2	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, IPFE, STHT, HT
3CP1241	3.6	13.6	2000	140	4.9	3.7	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, IPFE, HT, ST4
341	4	15	1800	125	5	3.7	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, IPFE, HT
5CP6241CS	4	15	2000	140	5.5	4.1	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, HT, ST4
311	4	15	2200	155	6	4.5	950	Belt, Clutch	FPM, EPDM, IPFE, HT
311C	4	15	2200	155	6	4.5	950	Belt, Clutch	FPM, EPDM, IPFE, HT
25F42SEEL	4.2	15.9	1000	70	2.9	2.1	1725	Hollow shaft-electric	FPM, EPDM, IPFE
3CP1221	4.2	15.9	2000	140	5.8	4.3	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, IPFE, HT, ST4
781	4.5	17	5000	345	15.4	11.5	1700	Belt, Clutch	FPM, EPDM, IPFE, PTFE
781K	4.5	17	5000	345	15.4	11.5	1700	Belt, Clutch	FPM, EPDM, IPFE, PTFE
351	5	19	1500	105	5.1	3.8	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, IPFE, HT
5CP6251	5	19	2000	140	6.8	5.1	1725	Solid shaft, Belt, Bell, Clutch	FPM, EPDM, HT, ST4
5CP6221	6	23	2000	140	8.2	6.1	1400	Belt, Clutch	FPM, EPDM, HT, ST4
3801	9	34	5000	345	30.8	23	824	Belt	FPM, EPDM
3801K	9	34	5000	345	30.8	23	824	Belt	FPM, EPDM
7CP6111G1	10	38	2000	140	13.7	10.2	1667	Gearbox	FPM, EPDM, STHT
1051	10	38	2200	155	15.1	11.3	958	Belt, Clutch	FPM, EPDM, STHT, NBRS, IPFE, ST4, PTFE
1051C	10	38	2200	155	15.1	11.3	958	Belt, Clutch	FPM, EPDM, STHT, NBRS, IPFE, ST4, PTFE
1861	10	38	3000	210	20.6	15.4	1429	Belt, Clutch	FPM, EPDM, IPFE
1861K	10	38	3000	210	20.6	15.4	1429	Belt, Clutch	FPM, EPDM, IPFE
7CP6111	10.5	40	2000	140	14.4	10.7	1725	Belt, Bell, Clutch	FPM, EPDM, STHT
7CP6171	10.5	40	2000	140	14.4	10.7	1450	Belt, Clutch	FPM, EPDM, STHT
1051	12	45	1800	125	14.8	11	1150	Belt, Clutch	FPM, EPDM, STHT, IPFE, ST4 PTFE
3811	14	53	3000	210	28.8	21.5	800	Belt	FPM, EPDM, IPFE
3811K	14	53	3000	210	28.8	21.5	800	Belt	FPM, EPDM, IPFE

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CAT Plunger Pumps



1541
(Rails and shaft protector sold separately)



2531
(Rails and shaft protector sold separately)



3531
(Rails sold separately)



6841

PUMP MODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		HORSEPOWER		RPM	DRIVES	OPTIONAL SEALS
	GPM	LPM	PSI	BAR	HP	KW			
316 STAINLESS STEEL MANIFOLDS WITH BUNA SEALS - 15 TO 75 GPM (57 TO 284 LPM)									
Note: Models ending in the letter "C" or "K" are flush style pumps. Pumps in <i>italics</i> indicate an optional performance rating.									
* Intermittent Duty Only (All Flows at 1000 PSI)									
6811	15	57	5000	345	51.5	38.4	600	Belt	FPM, EPDM, IPFE
6811K	15	57	5000	345	51.5	38.4	600	Belt	FPM, EPDM, IPFE
6801	15	57	7000	485	51.5	38.4	600	Belt	FPM, EPDM
6801K	15	57	7000	485	51.5	38.4	600	Belt	FPM, EPDM
1531	15.6	59	1500	105	16	11.9	1450	Belt, Clutch	FPM, EPDM, IPFE
1541	18	68	1200	85	14.7	11	1100	Belt, Clutch	ST4
2511	20	76	1500	105	20.6	15.4	1450	Belt	FPM, STHT, IPFE
2531	21	79	1200	85	17.3	12.9	860	Belt	FPM, EPDM, IPFE, ST4
2831	21	79	1200	85	17.3	12.9	860	Belt	FPM, EPDM
2831K	21	79	1200	85	17.3	12.9	860	Belt	FPM, EPDM
3521	23	87	2000	140	31.6	23.6	800	Belt	FPM, EPDM, IPFE
3521C	23	87	2000	140	31.6	23.6	800	Belt	FPM, EPDM, IPFE
3821	23	87	2000	140	31.6	23.6	800	Belt	FPM, EPDM
3821K	23	87	2000	140	31.6	23.6	800	Belt	FPM, EPDM
2531	25	95	1000	70	17.1	12.8	1025	Belt	FPM, EPDM, IPFE, ST4
6821	25	95	3000	210	51.4	38.3	615	Belt	FPM, EPDM
6821K	25	95	3000	210	51.4	38.3	615	Belt	FPM, EPDM
3531	36	136	1200	85	29.7	22.1	800	Belt	FPM, EPDM, IPFE
3531C	36	136	1200	85	29.7	22.1	800	Belt	FPM, EPDM, IPFE
3831	36	136	1200	85	29.7	22.1	800	Belt	FPM, EPDM, IPFE
3831K	36	136	1200	85	29.7	22.1	800	Belt	FPM, EPDM, IPFE
3531HS*	40	151	1750	121	47.9	35.8	888	Belt	FPM, EPDM, IPFE
6831	40	151	2300	160	63	47	625	Belt	FPM
6831K	40	151	2300	160	63	47	625	Belt	FPM
3541	45	170	1000	70	30.9	23.0	765	Belt	FPM, EPDM, IPFE
3541C	45	170	1000	70	30.9	23.0	765	Belt	FPM, EPDM, IPFE
3841	45	170	1000	70	30.9	23.0	765	Belt	FPM, EPDM, IPFE
3841K	45	170	1000	70	30.9	23.0	765	Belt	FPM, EPDM, IPFE
6841	48	182	2000	140	65.8	49.1	615	Belt	FPM, EPDM
6841K	48	182	2000	140	65.8	49.1	615	Belt	FPM, EPDM
6761	60	227	1200	85	49.4	36.8	520	Belt	FPM, EPDM
6861	60	227	1200	85	49.3	36.8	520	Belt	FPM
6861K	60	227	1200	85	49.3	36.8	520	Belt	FPM
6771	75	284	1200	85	61.6	45.9	650	Belt	FPM, EPDM

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Sta-Rite Booster Pumps, LMI Metering Pumps

Sta-Rite® Pumps

PN Series Shallow Well Jet Pumps are corrosion and abrasion resistant and are ideal for wells with pumping levels of 25' or less. Self-priming after the pump housing is initially filled with water. Capacities to 18 GPM. Supplied with the industry standard 30-50 pressure switch setting.

APPLICATIONS

- * Water Systems
- * Booster Pump
- * Marine Use
- * Mist Sprayers – Poultry
- * Fountains and Water Features

MATERIALS

- * **Body and Seal Plate:** Fiberglass-reinforced thermoplastic
- * **Nozzle:** Polypropylene
- * **Impeller:** Engineered Polymer
- * **Diffuser:** Polypropylene
- * **Motor:** Heavy duty stainless steel shaft and dual heavy duty ball bearings
- * **Base:** 12-gauge steel



Ordering Information

Model No.	HP	Description	Pipe Tapping Sizes		Motor Voltage
			Suction	Discharge	
PNC	½	Base Mounted Pump	1 ¼"	1"	115/230
PND	¾	Base Mounted Pump	1 ¼"	1"	115/230
PNE	1	Base Mounted Pump	1 ¼"	1"	115/230



Pump Performance (Capacity in Gallons/Liters per Minute)

HP	Model No.	Total Suction Lift Ft/M	Discharge Pressure PSI / Bar			Shut Off PSI / Bar
			30/2.1	40/2.8	50/3.5	
½	PNC	5/1.5	8.5/32.2	7.4/28.0	5.2/19.7	77/5.30
		10/3.0	7.1/26.9	6.4/24.2	5.1/19.3	
		15/4.6	6.5/24.6	6.1/23.1	4.5/17.0	
		20/6.1	5.4/20.4	5.1/19.3	4.1/15.5	
		25/7.6	4.1/15.5	4.0/15.1	3.4/12.9	
¾	PND	5/1.5	12.1/45.8	10.7/40.5	8.5/32.2	78/5.37
		10/3.0	10.7/40.5	10.2/38.6	8.4/31.8	
		15/4.6	9.0/34.1	8.5/32.2	8.1/30.7	
		20/6.1	7.6/28.8	7.3/27.6	7.1/26.9	
		25/7.6	5.3/20.1	5.7/21.6	5.1/19.3	
1	PNE	5/1.5	18.0/68.1	16.8/63.6	13.5/51.1	67/4.62
		10/3.0	17.1/64.7	16.1/60.9	13.4/50.7	
		15/4.6	14.9/56.4	14.4/54.5	13.0/49.2	
		20/6.1	12.6/47.7	12.2/46.2	12.0/45.4	
		25/7.6	8.8/33.3	8.5/32.2	8.1/30.7	

LMI® Metering Pumps

- * **Internal Control models** allow control of frequency and stroke length (volume).
- * **Externally Pulsable models** accept signal from flowmeter, pH controller, or feed pump pulser.
- * **Positive Displacement.** Accurate and repeatable feed rate setting, adjustable while pump is running.
- * **Rugged Industrial Constructions.** Pumps are totally enclosed with corrosion-proof pump housing.
- * **Pumps listed are 110v with PVC Head/Fittings & 3FV (LMI 3 Function Valve).** Contact us for additional sizes & configurations.



Model No.	Pulse Mode	Flow (GPD)		Max Pressure (PSI)	Spare Parts Kit*
		Min.	Max.		
P121-358TI	Internal	0.048	5	150	RPM-352/358
P021-358TI	Fixed	1.512	5	150	RPM-352/358
P131-398TI	Internal	0.024	10	110	RPM-392/398
P031-398TI	Fixed	3.000	10	110	RPM-392/398
AA141-358TI	Internal	0.024	14	250	RPM-352/358
AA741-358TI	Int/Ext	0.024	14	250	RPM-352/358
AA151-398TI	Internal	0.048	24	110	RPM-392/398
AA751-398TI	Int/Ext	0.048	24	110	RPM-392/398
B121-398TI	Internal	0.072	60	100	RPM-392/398
B721-398TI	Int/Ext	0.072	60	100	RPM-392/398
B131-368TI	Internal	0.120	108	50	RPM-362/368
B731-368TI	Int/Ext	0.120	108	50	RPM-362/368
C131-318TI	Internal	0.192	192	60	RPM-312/318
C731-318TI	Int/Ext	0.192	192	60	RPM-312/318
C141-34	Internal	0.480	480	25	SP-U6
26350-1	LMI Chemical Solution Tank Assembly with Cover, 50 Gallon				
26731	LMI Liquid Level Switch Assembly for 50 Gallon Tank				



*Individual spare parts kits are available for each liquid end, containing 4 seal rings, 4 balls, 1 spring and 1 diaphragm.

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Pressure Gauges and Pressure Switches

AMI® Liquid Filled Pressure Gauges

Pump Model No.	Mounting	Range	Material	
			Case	Bourdon Tube
I-PG60N	Panel	0-60 PSI	SS	Bronze
I-PG100N	Panel	0-100 PSI	SS	Bronze
I-PG100NSS	Panel	0-100 PSI	SS	SS
I-PG400N	Panel	0-400 PSI	SS	Bronze
I-PG400NSS	Panel	0-400 PSI	SS	SS
I-PG600N	Panel	0-600 PSI	SS	Bronze
I-PG1000N	Panel	0-1000 PSI	SS	Bronze
I-PG1500NSS	Panel	0-1500 PSI	SS	SS
I-PG100NI	In-Line	0-100 PSI	SS	Bronze
I-PG400NI	In-Line	0-400 PSI	SS	Bronze
I-PG600NI	In-Line	0-600 PSI	SS	Bronze



Pressure Switches

Model No.	Description	Setting Range (psi)	Normally	Material	Conn. (NPT)	Brand
I-PS046SD	Low Pressure	20-40	Closed	zinc coat	1/4"	Square D
I-PS090SD	Low Pressure	10-80	Closed	zinc coat	1/4"	Square D
I-PS089G	Low Pressure	10 on, 5 off	Open	zinc coat	1/4"	Square D
I-PS090G	Low Pressure	10-80	Open	zinc coat	1/4"	Square D
I-PS5B415	Low Pressure	15-30	Open	zinc coat	1/4"	Square D
I-PS1C3N	Low Pressure	5-75	O/C	SS	1/2"	ITT
I-PS5C3N	High Pressure	125-600	O/C	SS	1/2"	ITT
I-PS15C3N	High Pressure	800-1500	O/C	SS	1/2"	ITT
I-PS69WB5	Low Pressure	5-80	Open	zinc coat	1/4"	Furnas
I-PS69WR3Z205	Low Pressure	20 on, 5 off	Open	zinc coat	1/4"	Furnas
I-PSLONS1C	Low Pressure	5-16 adj.	O/C	SS	1/4"	Nason
I-PSWS1C300R	High Pressure	300 psi	O/C	SS	1/4"	Nason
I-PSWS1C1050R	High Pressure	1050	O/C	SS	1/4"	Nason



ITT Neo-Dyn Pressure Switch



Square D Pressure Switch



NASON

Furnas
A Siemens Company

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Rotameter Flow Meters – King® and Blue-White®

King® Rotameter Flow Meters

Panel Mounted		
Model No.	Conn. (in)	Range (GPM)
I-FM01P4	¼ FNPT, ½ MNPT	0-1
I-FM02P4	¼ FNPT, ½ MNPT	.2-2
I-FM05P4	¼ FNPT, ½ MNPT	1-5
I-FM10P4	1 MNPT	1-10
I-FM20P4	1 MNPT	2-20



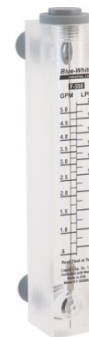
In-Line		
Model No.	Conn. (in)	Range (GPM)
I-FM02IN	½ FNPT	0-2
I-FM05IN	½ FNPT	0-5
I-FM10IN	1 FNPT	0-10
I-FM20IN	1 FNPT	0-20
I-FM40IN	1½ FNPT	0-40
I-FM50IN	1½ FNPT	0-50
I-FM60IN	2 FNPT	6-60
I-FM80IN	2 FNPT	10-80
I-FM100IN	2 FNPT	20-100



Blue-White® Rotameter Flow Meters

F-550 Acrylic Block Panel Mount Rotameters, Dual Scale (GPM & LPM)

Model No.	Conn. (in.)	Range (GPM)	Type	Mounting Type
F-55250L	¼"	0.025-0.250	Acrylic Block	Panel Mount
F-53375L	⅜"	0.1-1	Acrylic Block	Panel Mount
F-55376L	⅜"	0.2-2	Acrylic Block	Panel Mount
F-55500L	½"	0.5-5	Acrylic Block	Panel Mount
F-55750L	¾"	1-10	Acrylic Block	Panel Mount
F-55005L	1"	1-5	Acrylic Block	Panel Mount
F-55010L	1"	1-10	Acrylic Block	Panel Mount
F-55015L	1"	1-15	Acrylic Block	Panel Mount
F-55200L	1"	2-20	Acrylic Block	Panel Mount



F-300 Pilot Tube Acrylic Clamp-On Insertion Mount, Saddle Rotameters, Dual Scale (GPM & LPM)

Model No.	Conn. (in.)	Range (GPM)	Type	Mounting Type
F-30100P	1" Saddle	5-35	Pilot Tube Acrylic	Saddle
F-30150P	1 ½" Saddle	20-100	Pilot Tube Acrylic	Saddle
F-30200P	2" Saddle	40-150	Pilot Tube Acrylic	Saddle
F-30600P	6" Saddle	250-1050	Pilot Tube Acrylic	Saddle



F-400 Acrylic Tube In-Line Rotameters, Dual Scale (GPM & LPM)

Model No.	Conn. (in.)	Range (GPM)	Type	Type
F-40250LN-4	¼" FNPT	0.025-0.25	Acrylic Tube	In-Line
F-40375LN-6	⅜" FNPT	0.1-1	Acrylic Tube	In-Line
F-40500LN-6	⅜" FNPT	0.5-5	Acrylic Tube	In-Line
F-40375LN-8	½" FNPT	0.1-1	Acrylic Tube	In-Line
F-40376LN-8	½" FNPT	0.2-2	Acrylic Tube	In-Line
F-40500LN-8	½" FNPT	0.5-5	Acrylic Tube	In-Line
F-41017LN-12	¾" FNPT	1.0-17	Acrylic Tube	In-Line
F-41000LN-12	¾" FNPT	2.0-20	Acrylic Tube	In-Line
F-40750LN-16	1" FNPT	1.0-10	Acrylic Tube	In-Line
F-41017LN-16	1" FNPT	1.0-17	Acrylic Tube	In-Line
F-41000LN-16	1" FNPT	2.0-20	Acrylic Tube	In-Line



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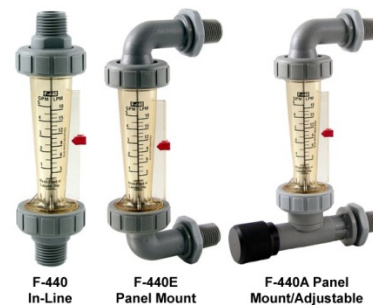
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Rotameter Flow Meters – Blue White®

Blue-White® Rotameter Flow Meters

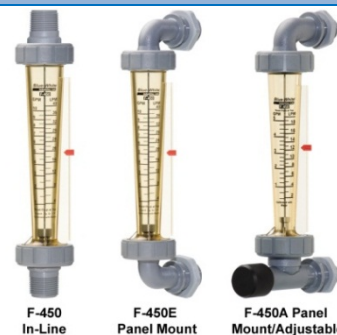
F-440 Polysulfone Molded Rotameter, Dual Scale (GPM & LPM)

Model No.	Conn. (in.)	Range (GPM)	Type	Type
F-44375L-8	1/2" MNPT	0.1-1	Polysulfone Molded	In-Line
F-44376LE-8	1/2" MNPT	0.2-2	Polysulfone Molded	Panel Mount
F-44376LE-6	3/8" MNPT	0.2-2	Polysulfone Molded	Panel Mount
F-44500LA-8	1/2" MNPT	0.5-5	Adjustable Polysulfone	Panel Mount
F-44500L-8	1/2" MNPT	0.5-5	Polysulfone Molded	In-Line
F-44500LE-8	1/2" MNPT	0.5-5	Polysulfone Molded	Panel Mount
F-44750LE-8	1/2" MNPT	1.0-10	Polysulfone Molded	Panel Mount
F-44750L-12	3/4" MNPT	1.0-10	Polysulfone Molded	In-Line
F-44750LE-12	3/4" MNPT	1.0-10	Polysulfone Molded	Panel Mount
F-44330LE-8	1/2" MNPT	3.0-30	Polysulfone Molded	Panel Mount



F-450 Flow Meters, Polysulfone Molded Rotameter, Dual Scale (GPM & LPM)

Model No.	Conn. (in.)	Range (GPM)	Type	Type
F-45375L-8	1/2" MNPT	0.1-1	Polysulfone Molded	In-Line
F-45375L-6	3/8" FNPT	0.1-1	Polysulfone Molded	In-Line
F-45376LE-8	1/2" MNPT	0.2-2	Polysulfone Molded	Panel Mount
F-45376L-6	3/8" FNPT	0.2-2	Polysulfone Molded	In-Line
F-45500LE-8	1/2" MNPT	0.5-5	Polysulfone Molded	Panel Mount
F-45500L-6	3/8" FNPT	0.5-5	Polysulfone Molded	In-Line
F-45750LE-8	1/2" MNPT	1.0-10	Polysulfone Molded	Panel Mount
F-45750LE-12	3/4" MNPT	1.0-10	Polysulfone Molded	Panel Mount
F-45750LA-12	3/4" MNPT	1.0-10	Adjustable Polysulfone	Panel Mount
F-45750L-12	3/4" MNPT	1.0-10	Polysulfone Molded	In-Line



F-451N High Volume Polysulfone Molded Rotameter, Dual Scale (GPM & LPM)

Model No.	Conn. (in.)	Range (GPM)	Type	Type
F-451006LHN	1" FNPT	0.5-6	Polysulfone Molded In-Line	In-Line
F-451001LHN	1" FNPT	1.0-10	Polysulfone Molded In-Line	In-Line
F-451001LHNE	1" MNPT	1.0-10	Polysulfone Molded In-Line	Panel Mount
F-451002LHN	1" FNPT	2.0-20	Polysulfone Molded In-Line	In-Line
F-451002LHNE	1" MNPT	2.0-20	Polysulfone Molded In-Line	Panel Mount
F-451003LHKN	1" FNPT	3.0-30	Polysulfone Mld. For Highly Corrosive Applications	In-Line
F-451003LHN	1" FNPT	3.0-30	Polysulfone Molded In-Line	In-Line
F-451003LHNE	1" MNPT	3.0-30	Polysulfone Molded In-Line	Panel Mount
F-451003LHN-24	1 1/2" FNPT	3.0-30	Polysulfone Molded In-Line	In-Line
F-451004LHN	1" FNPT	4.0-40	Polysulfone Molded In-Line	In-Line
F-451004LHNE	1" MNPT	4.0-40	Polysulfone Molded In-Line	Panel Mount
F-451004LHN-24	1 1/2" FNPT	4.0-40	Polysulfone Molded In-Line	In-Line



F-450 Air Only Flow Meters, Polysulfone Molded Rotameter, SCFM Scale, with 316 SS Float

Model No.	Pipe Size	SCFM	Threads	Type	Notes
F-45376GHN-6	3/8"	1-12	Female NPT	In-Line	Non-adjustable
F-45376GHNE-6	3/8"	1-12	Male NPT	Panel Mount	Non-adjustable
F-45750GEA-6	3/8"	4-48	Male NPT	Panel Mount	Adjustable (Needle valve)
F-45750GHN-6	3/8"	4-48	Female NPT	In-Line	Non-adjustable
F-45750GHNE-6	3/8"	4-48	Male NPT	Panel Mount	Non-adjustable
F-45376GEA-8	1/2"	1-12	Male NPT	Panel Mount	Adjustable (Needle valve)
F-45376GHN-8	1/2"	1-12	Male NPT	In-Line	Non-adjustable
F-45376GHNE-8	1/2"	1-12	Male NPT	Panel Mount	Non-adjustable
F-45750GEA-8	1/2"	4-48	Male NPT	Panel Mount	Adjustable (Needle valve)
F-45750GHN-8	1/2"	4-48	Male NPT	In-Line	Non-adjustable
F-45750GHNE-8	1/2"	4-48	Male NPT	Panel Mount	Non-adjustable

Note: Please contact Applied Membranes Inc. for additional pricing and availability on models that are not listed.

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Myron® L and Hanna® Instruments

Hanna® Instruments

Model No.	Description	Mounting	Range
pH			
BL981411	pH Mini Controller, 115/230Vac (needs sensor)	Panel	0-14 pH
BL931700	pH Mini Controller, 4-20 mA Output, 115/230Vac (needs sensor)	Panel	0-14 pH
HI1001	pH Sensor (probe), 220V or 110V (uses std thread inst fitting)		
TDS			
BL983313	TDS/Cond. Monitor, Mini w/probe	Panel	0-1999 µS/cm
BL983315	TDS Monitor – Includes Sensor, 0.1 mg/L Resolution	Panel	0-200 ppm
BL983329	TDS Monitor – Includes Sensor, 1 mg/L Resolution	Panel	0-999 ppm



Myron® L Instruments

Model No.	Description	Range
RESISTIVITY		
751II-11	Analog – Monitor Only – Needs Sensor	0-20 Megohm
751II-13	Analog – Monitor Only - Needs Sensor	0-5 Megohm
752II-11	Analog – Monitor & Controller - Needs Sensor	0-20 Megohm
752II-13	Analog – Monitor & Controller - Needs Sensor	0-5 Megohm
753II-11	Digital – Monitor & Controller - Needs Sensor	0-20 Megohm
753II-13	Digital – Monitor & Controller - Needs Sensor	0-5 Megohm
754II-11	Digital – Monitor Only - Needs Sensor	0-20 Megohm
754II-13	Digital – Monitor Only - Needs Sensor	0-5 Megohm
CS10	Sensor for Resistivity Monitors - Polypropylene – 0.05 cell const.	
CONDUCTIVITY		
756II-111	Analog – Monitor Only - Needs Sensor	0-50 µS
756II-113	Analog – Monitor Only - Needs Sensor	0-100 µS
757II-111	Analog – Monitor & Controller - Needs Sensor	0-50 µS
757II-113	Analog – Monitor & Controller - Needs Sensor	0-100 µS
758II-111	Digital – Monitor & Controller - Needs Sensor	0-50 µS
758II-113	Digital – Monitor & Controller - Needs Sensor	0-100 µS
758II-119	Digital – Monitor & Controller - Needs Sensor	0-1000 µS
759II-111	Digital – Monitor Only - Needs Sensor	0-50 µS
759II-113	Digital – Monitor Only - Needs Sensor	0-100 µS
CS51	Sensor for Conductivity/TDS Monitors – Polypropylene – 1.0 Constant	
TDS		
756II-110	Analog – Monitor Only - Needs Sensor	0-20 ppm
756II-112	Analog – Monitor Only - Needs Sensor	0-50 ppm
765II-114	Analog – Monitor Only - Needs Sensor	0-100 ppm
765II-116	Analog – Monitor Only - Needs Sensor	0-200 ppm
756II-120	Analog – Monitor Only - Needs Sensor	0-1000 ppm
757II-110	Analog – Monitor & Controller - Needs Sensor	0-20 ppm
757II-112	Analog – Monitor & Controller - Needs Sensor	0-50 ppm
757II-116	Analog – Monitor & Controller - Needs Sensor	0-200 ppm
757II-118	Analog – Monitor & Controller - Needs Sensor	0-500 ppm
757II-120	Analog – Monitor & Controller - Needs Sensor	0-1000 ppm
758II-110	Digital – Monitor & Controller - Needs Sensor	0-20 ppm
758II-112	Digital – Monitor & Controller - Needs Sensor	0-50 ppm
758II-114	Digital – Monitor & Controller - Needs Sensor	0-100 ppm
758II-114-4A	Digital – Monitor & Controller - Needs Sensor; 4-20mA	0-100 ppm
758II-116	Digital – Monitor & Controller - Needs Sensor	0-200 ppm
758II-120	Digital – Monitor & Controller - Needs Sensor	0-1000 ppm
758II-122	Digital – Monitor & Controller - Needs Sensor	0-2000 ppm
759II-110	Digital – Monitor Only - Needs Sensor	0-20 ppm
759II-112	Digital – Monitor Only - Needs Sensor	0-50 ppm
759II-120	Digital – Monitor Only - Needs Sensor	0-1000 ppm
CS51	Sensor for Conductivity/TDS Monitors – Polypropylene – 1.0 Constant	



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+GF+ Signet® Instruments

GF Signet® Instruments

Model No.	Description	Range
CONDUCTIVITY/TDS/RESISTIVITY SIGNET PANEL AND FIELD MOUNT TRANSMITTERS		
3-8850-1P	Panel Mount Transmitter – One input with 4-20mA output and one open collector; uses 2 wire power	N/A
3-8850-1	Field Mount Transmitter - One input with 4-20mA output and one open collector; uses 2 wire power	N/A
CONDUCTIVITY/TDS/RESISTIVITY SIGNET PANEL AND FIELD MOUNT SENSORS		
3-2819-1	Sensor - Cell Constant (0.01)	0-20 MΩ
3-2820-1	Sensor - Cell Constant (0.1)	0-100 PPM
3-2821-1	Sensor - Cell Constant (1.0)	100-10,000 PPM
3-2822-1	Sensor - Cell Constant (10)	10,000-50,000 PPM
CONDUCTIVITY/TDS/RESISTIVITY SIGNET INTEGRAL BLIND TRANSMITTERS		
3-2850-52-39	Integral Transmitter/ Sensor - Cell Constant (0.01)	0-20 MΩ
3-2850-52-40	Integral Transmitter/ Sensor - Cell Constant (0.1)	0-100 PPM
3-2850-52-41	Integral Transmitter/ Sensor - Cell Constant (1.0)	100-10,000 PPM
3-2850-52-42	Integral Transmitter/ Sensor - Cell Constant (10)	10,000-50,000 PPM
pH/ORP SIGNET PANEL AND FIELD MOUNT TRANSMITTERS		
3-8750-1P	Panel Mount Transmitter – One input with 4-20mA output and one open collector; uses 2 wire power	N/A
3-8750-1	Field Mount Transmitter – One input with 4-20mA output and one open collector; uses 2 wire power	N/A
pH/ORP SIGNET PANEL AND FIELD MOUNT PREAMPS & SENSORS		
3-2760-11	Preamplifier	N/A
3-2724-10*	pH Sensor - Flat Glass	0-14 pH
3-2725-60*	ORP Sensor – Glass	(-)2,000 – 2,000 mV
pH Signet Blind transmitters/Preamps		
3-2750-2	Transmitter/Preamp	N/A
pH Signet Blind Sensors		
3-2724-00*	pH Sensor – Flat Glass	0-14 pH
3-2725-60*	ORP Sensor – Glass	(-)2,000 – 2,000 mV
Flow Signet Panel and Field Mount Transmitter		
3-8850-1P	Panel Mount Transmitter – One input with 4-20mA output and one open collector; uses 2 wire power	N/A
3-8850-1	Field Mount Transmitter – One input with 4-20mA output and one open collector; uses 2 wire power	N/A
Flow Signet Panel and Field Mount Transmitter – Accessories		
3-2536-P0*	Sensor (Blue Cap Paddlewheel)	66:1 Turndown R2t:0
P51530-P0*	Sensor (Red Cap Paddlewheel)	20:1 Turndown R2t:0
Flow Signet Integral Blind Transmitter		
3-2537-6C-P0	Transmitter/Sensor	N/A
Pressure Noshok Blind Transmitters		
100-150-1-1-2-7	Pressure Noshok Blind Transmitter	0-150 PSI
100-500-1-1-2-7	Pressure Noshok Blind Transmitter	0-500 PSI
100-1500-1-1-21	Pressure Noshok Blind Transmitter	0-1500 PSI
Turbidimeters Hach		
6010100	1720E Turbidimeter with SC100 Controller	0-100 NTU
6010101	1720E Turbidimeter Only	0-100 NTU

* = Installation tees are sold separately for these parts.



Conductivity/TDS/Resistivity Transmitter



pH/ORP Transmitter



Flow Transmitter



Sensor Electrodes

Installation Tees

5911.005	0.5" Installation Tee, PVC
5911.007	0.75" Installation Tee, PVC
5911.010	1.0" Installation Tee, PVC
5911.015	1.5" Installation Tee, PVC
5911.120	2.0" Installation Tee, PVC
5911.130	3.0" Installation Tee, PVC
5911.140	4.0" Installation Tee, PVC



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HM Digital Instruments and Temperature and Level Controls

TDS Controllers and Monitors					
Model No.	Description	Range	Accuracy	Brand	
PS-100	Panel Mount TDS Controller for constant monitoring of the TDS of a single water line (feed or permeate), with user-set alarm.	0 – 999 ppm	±2%	HM Digital	
PSC-150	Extended Range Panel Mount EC/TDS Controller for constant monitoring of the TDS and temperature of a single water line (feed or permeate), with user-set alarm.	0 - 5000 ppm	±2%	HM Digital	
PS-200	Dual TDS Controller for constant monitoring of the TDS of system feed water and product water, with user-set alarm for product water. Single display.	0 – 999 ppm	±2%	HM Digital	
PS-202	Dual TDS Controller for constant monitoring of the TDS of system feed water and product water, with user-set alarm for both feed and product water lines. Dual display.	0 – 999 ppm	±2%	HM Digital	

Temperature Indicators			
Model No.	Description	Range (°F)	
30EI60L0250	Temperature Gauge – Bottom Mounting	0-190	
30EI60R0250	Temperature Gauge – Back Mounting	0-190	

Level Controls		
Model No.	Description	
YFL6905-100	Float Switch, Horizontal, Polypropylene	
YFL6916-100	Float Switch, Vertical, Stainless Steel	
6910.050	Float Switch, Vertical, Polypropylene	
YFLM2L	Float Switch, Dual Level w/ Cable Mounting, Normally Closed	
YFLH2L	Float Switch, Dual Level w/ Cable Mounting, Normally Open	
YFL2PPAS	Float Tree Assembly, Pre-Assembled with 2 Polypropylene Floats	
YFL2SSAS	Float Tree Assembly, Pre-Assembled with 2 Stainless Steel Floats	
YFL3PPAS	Float Tree Assembly, Pre-Assembled with 3 Polypropylene Floats	
YFL3SSAS	Float Tree Assembly, Pre-Assembled with 3 Stainless Steel Floats	

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Bray Valves

Bray V-Port (V-Control) Ball Valves, Available in 110v and 220v



- Characterized V-Port Balls
- Standard: 15°, 30°, 60° & 90° Custom and Slotted Ports
- Full Port / Standard Port
- 3-Piece and Flanged Valves
- Valve Sizes:
 - 7000/8000: 1/4" - 12"
 - Triad Series: 1/2" - 4"
 - F15/F30: 1/2" - 12"
 - RF15/RF30: 1" - 12"

With characterized V-ports, slotted ports or custom ports, V-Control Ball Valves provide accurate flow control. Available in 3-Piece and Flanged bodies, V-Control valves offer superior rangeability, repeatability and high flow capacity. These quarter-turn valves are easily automated and make an ideal control element in process piping systems. When combined with Flow-Tek's line of Pneumatic and Electric Actuators and controls, the V-Control delivers exceptional performance.

Bray Series 70 Electric Actuators, Available in 110v and 220v

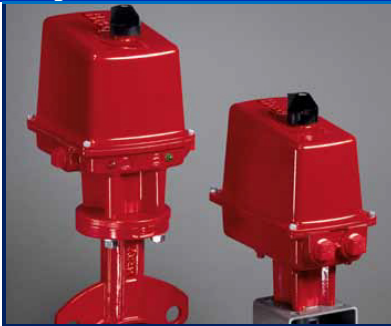


Output Torque 300 Lb-in (34 Nm) to 18,000 Lb-in (2,034 Nm)

Bray Controls' years of proven success in electric actuation, combined with innovative engineering, has produced the Series 70. The Series 70 features on-off or modulating control. Bray's Series 70 electric actuator has many advantages over other actuators including:

- UL, CSA and CE certification of most units
- Wiring directly to the terminal strip without interference from other components
- Simple and unique manual override handwheel system
- Lowest profile and lightest weight actuator on the market
- Simple finger or screw driver adjustment of travel limit cams without interference from other components
- Highly visible valve status display on most units
- Easiest access to terminal block wiring, cam adjustments and switch installation

Bray Series 73 Electric Actuators for Rotary Valves, Available in 110v and 220v



Three on-off models with up to 600 lb-in (68 N-m) Output torque

Bray's economical, high performance electric actuator, the Series 73, is a low-profile, compact actuator which features a customer friendly design for ease of field wiring and cam adjustment. Installation and maintenance are easy and safe. Bray's Series 73 electric actuators have a UL listed 120 or 220 VAC single phase permanent split-capacitor reversible induction motor with internal brake. 12 or 24 VDC motors are available upon request. Output torque from 100 to 600 lb-in with speeds ranging from 2 to 60 seconds for 90° operation. Two SPDT travel limit switches are standard. Features include manual override, a valve position pointer, and LEDs which light up either red or green at end of travel when the valve reaches the open and closed positions. Available in weatherproof (NEMA 4, 4x, IP65) housings.

Bray Butterfly Valves, 110v and 220v



Model No.	Valve Size	Voltage	Material
YVBF30ESS-110	3"	110	SS
YVBF40ESS-110	4"	110	SS
YVBF30ESS-220	3"	220	SS
YVBF40ESS-220	4"	220	SS
YVBF60ESS-110	6"	110	SS

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Commercial Components

Valves, Tank Adapters, Flanges

Pressure Relief Valves


Model No.	Connection	Material	Range (PSI)
YVPR5423005	1/2"	PVC	5-100
YVPR5423007	3/4"	PVC	5-100
YVPR5423010	1"	PVC	5-100



PVC Check Valves


Model No.	Conn.
YVC050PVC	1/2"
YVC75PVC	3/4"
YVC10PVC	1"
YVC15PVC	1.5"

Model No.	Conn.
YVC20PVC	2.0"
YVC30PVC	3.0"
YVC40PVC	4.0"



Sample Valve


Model No.	Description	Connection
YV5309102	Sample Valve	1/4" NPT



Tank Adapters (PVC Bulkheads)

Model No.	Size
YF7000-005	1/2"
YF7000-007	3/4"
YF7000-010	1"


Model No.	Size
YF7000-015	1 1/2"
YF7000-020	2"



Stainless Steel Flanges – 300 PSI

Model No.	Size	Type
YFFL1250SS	1 1/4"	Weld
YFFL1250SSTH	1 1/4"	Thread
YF20SS300	2"	Weld
YF20SS300TH	2"	Thread

Model No.	Size	Type
YFFL2500SS	2 1/2"	Weld
YFFL2500SSTH	2 1/2"	Thread
YFFL3000SS	3"	Weld
YFFL4000SS	4"	Weld



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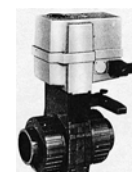
Motorized Ball Valves, Manual Ball Valves & Solenoid Valves

Motorized Ball Valves

Model No.	Connection	Voltage	Brand
YVB050EPVCA	1/2"	110 V	Asahi
YVB050EPVCA-220	1/2"	220 V	Asahi
YVB075EPVC	3/4"	110 V	Asahi
YVB075PVCA-220	3/4"	220 V	Asahi
YVB10EPVCA	1"	110 V	Asahi
YVB10EPVCG	1"	110 V	GF+
YVB10PVCA-220	1"	220 V	Asahi
YVB15EPVCA	1.5"	110 V	Asahi
YVB15PVCA-220	1.5"	220 V	Asahi
YVB20EPVCA	2"	110 V	Asahi
YVB20EPVCG	2"	110 V	GF+
YVB20PVCA-220	2"	220 V	Asahi
YVB40EPVCG	4"	110 V	GF+



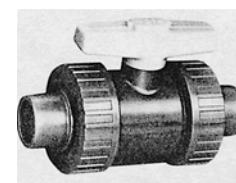
Asahi



George Fischer

Manual Ball Valves

Model No.	Description	Conn.	Material
YVB05PVC	Double Union Ball Valve	1/2"	PVC
YVB75PVC	Double Union Ball Valve	3/4"	PVC
YVB10PVC	Double Union Ball Valve	1"	PVC
YVB15PVC	Double Union Ball Valve	1.5"	PVC
YVB20PVC	Double Union Ball Valve	2"	PVC
YVB30PVC	Double Union Ball Valve	3"	PVC
YVB40PVC	Double Union Ball Valve	4"	PVC
YFVB025BR	Ball Valve	1/4"	Brass
YFVB050BR	Ball Valve	1/2"	Brass
YFVB075BR	Ball Valve	3/4"	Brass
YFVB100BR	Ball Valve	1"	Brass
YVB14SSA	Ball Valve	1/4"	SS
YVB05SSA	Ball Valve	1/2"	SS
YVB34SSA	Ball Valve	3/4"	SS
YVB10SSA	Ball Valve	1"	SS
YVB15SSA	Ball Valve	1.5"	SS
YFVB20SSA	Ball Valve	2"	SS



Double Union Ball Valve



Brass Ball Valve

Solenoid Valves/Coils for Commercial RO Systems

Model No.	Description	Conn.	Voltage
I-SV6448B110	Solenoid Valve with Coil, Normally Closed	3/4" FPT	110V, 50/60 Hz
I-SV577G	Solenoid Valve (only)	1/2" FPT	--
I-SV578G	Solenoid Valve (only)	3/4" FPT	--
I-SV579G	Solenoid Valve (only)	1" FPT	--
I-SC6543	Solenoid Coil (only)	--	110V, 50/60 Hz
I-SC6544	Solenoid Coil (only)	--	220V, 50/60 Hz



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Globe & Needle Valves, Hoses and Fittings

Globe Valves

Model No.	Size	Conn.
Stainless Steel		
YVG05SS	1/2"	Threaded
YVG075SS	3/4"	Threaded
YVG10SS	1"	Threaded
YVG15SS	1.5"	Threaded
YVG20SS	2"	Threaded
YVG30SS	3"	Threaded
YVG30SSFL	3"	Flanged
YVG40SSFL	4"	Flanged
YVG60SSFL	6"	Flanged

Model No.	Size	Conn.
PVC		
YVG075PVC	3/4"	Threaded
YVG10PVC	1"	Threaded
YVG15PVC	1.5"	Threaded
YVG20PVC	2"	Threaded
YVG40PVC	4"	Flanged



Panel Mount Needle Valves

Model No.	Conn.	Material
YFVN2525BR	1/4" T x 1/4" T	Brass
YFVN2525BRNPT	1/4" T x 1/4" M	Brass
B-626	3/8" T x 3/8" T	Brass
B-651	1/2" T x 1/2" T	Brass
SS-1RS4	1/4" T x 1/4" T	SS
SS-1RS6	3/8" T x 3/8" T	SS
SS-1RS8	1/2" T x 1/2" T	SS
YFVN7575SS	3/4" T x 3/4" T	SS



Commercial Hoses

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- Braided, Food Grade Hoses
- PVC, Black, Chemical Hoses



Commercial Fittings

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- Stainless Steel Pipe Fittings
- PVC Schedule 80 Fittings
- Stainless Steel Compression Fittings
- Quick Disconnect Polypropylene Fittings



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Commercial Components

Storage Tanks

Conical Bottom Storage Tanks

Cone Bottom Tanks are selected when a more complete drain out of stored chemical is required in indoor or outdoor installations. Tanks require stands to support the conical bottoms. Tanks are manufactured from medium- or high-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.

45° Conical Bottom Tanks		
Model No.	Dimensions (diameter x height)	Capacity
CB0200-42	42" x 54"	200 Gallon
CB0300-42	42" x 67"	300 Gallon
CB0500-52	52" x 79"	500 Gallon
Conical Bottom Stands		
Model No.	Clearance (from tank to ground)	Capacity
CB042-45ST	11"	200, 300 or 350 Gal-45 deg.
CB052-45ST	13"	345 or 500 Gal-45 deg.



Atmospheric Storage Tanks

* Polyethylene. Tanks and Covers Sold Separately. FDA Approved. For chemicals & cleaning.

AMI Model # For tank	AMI Model # For cover	Capacity (Gallons)	Size (ID" x Depth")	Approx. Wall Thickness (Inches)
AT-5	AT-5CVR	5	11 x 14	1/4
AT-10	AT-10CVR	10	13 x 20	1/4
AT-15	AT-15CVR	15	15 x 21	1/4
AT-17	AT-17CVR	17	18 x 15	1/4
AT-30	AT-30CVR	30	18 x 29	1/4
AT-55	AT-55CVR	55	22 x 34	1/4
AT-80	AT-80CVR	80	24 x 48	1/4
AT-100	AT-100CVR	100	28 x 42	1/4
AT-150	AT-150CVR	150	31 x 47	1/4
AT-200	AT-200CVR	200	36 x 48	5/16
AT-275	AT-275CVR	275	42 x 48	3/8
AT-360	AT-360CVR	360	48 x 48	3/8
AT-500	AT-500CVR	500	52 x 60	3/8



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APPLIED[®] SYSTEMS USA

Series AA – 220 to 1,000 GPD RO Systems

Reverse Osmosis Systems 220 to 1,000 Gallons/Day For Feed Water TDS up to 1000 PPM

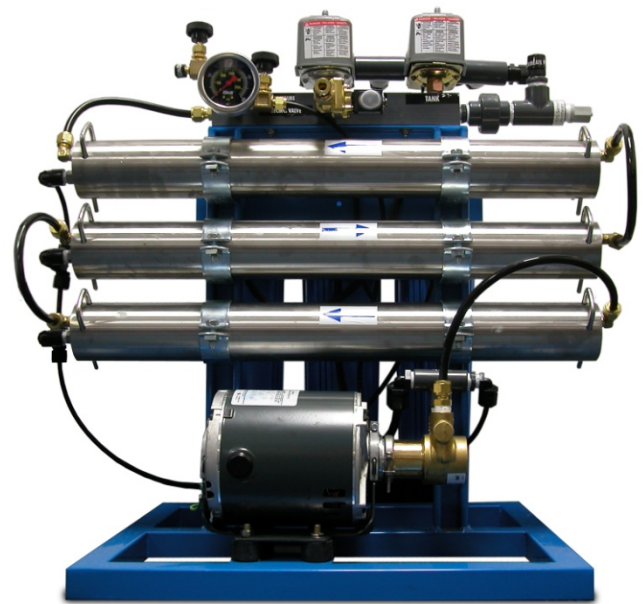
Designed to produce low dissolved solids water from tap or well water, these systems use high efficiency reverse osmosis membranes. The economically priced Series AA Systems offer a compact design and are simple to install and operate. When combined with a softener as pretreatment, they offer a reliable water purification solution.

Key Features

- 30 years of experience is reflected in our quality
- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable, long term performance
- Factory tested to ensure trouble-free operation
- High quality Thin Film Composite Membranes in Stainless Steel Membrane Housings
- Sediment and Carbon Pre-filter Cartridges in Polypropylene Filter Housings
- Instrumentation for automatic operation
- Made in USA

Applications

- Restaurants
- Aquariums
- Small Manufacturing
- Residential
- Office
- Lab
- Institutions
- Ice Makers
- Humidification
- Misting
- Rinse Water
- A wide variety of other applications



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APPLIED[®] SYSTEMS USA

Series AA – 220 to 1,000 GPD RO Systems

Standard Equipment

- Thin Film Composite Membranes
- Stainless Steel Pressure Vessels
- Rotary Vane Brass Pump Motor
- 5 Micron Pre-Filter (1)
- 10 Micron Carbon Filters (2)
- Polypropylene Filter Housings (3)
- Auto Feed Shut Off
- Heavy Duty Powder Coated Frame
- Liquid Filled System Pressure Gauges
- Low Pressure Switch
- Brass Pressure Regulator
- Polyethylene High pressure tubing
- Product Tank Pressure Control (turns system off with pressurized tank – tank sold separately)

Ordering Information

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day	Qty.	Size (Dia. x L)	Inlet	Perm.	Conc.	Width	Depth	Height	
AA-12514	220	0.8	1	2.5"×14"	3/8"	1/4"	3/8"	21/53	17/43	26/66	55/24
AA-12521	350	1.3	1	2.5"×21"	3/8"	1/4"	3/8"	28/71	17/43	26/66	60/26
AA-22521	700	2.7	2	2.5"×21"	3/8"	1/4"	3/8"	28/71	17/43	26/66	70/30
AA-32521	1,000	3.8	3	2.5"×21"	3/8"	1/4"	3/8"	28/71	17/43	26/66	75/34

Optional Equipment

Please note that optional equipment will increase system dimensions and/or weight.

- Stainless Steel Pump
 - Pressurized Product Water Storage Tank in 40 or 80 Gallon Size*
 - RO Permeate Quality Monitor
 - Water Softener*
 - Back-washable Pretreatment* - Carbon or Media
 - Crating
- *Recommended Minimum Options*

Notes

- All dimensions and weights are approximate.
- System must operate with a pressurized storage tank to turn system on/off (quoted separately).
- Systems rated at 77°F (25°C) using 1000 ppm sodium chloride solution and 200 psi pressure. System capacity changes significantly with water temperature. For higher TDS, a water analysis must be supplied and could result in modifications to the system.
- Chlorine must be removed with a carbon filter prior to RO system, if present in the feed water.
- Water must be pretreated by a softener or antiscalant to avoid scaling the membranes.
- Standard packaging is boxed, crating optional.

Voltage/ Ordering Information

Please add our voltage codes to the end of the model number when ordering.

Example: AA-12521-**116** = 110v, 1 ph, 60 hz.

- Voltage Codes:
- **116** = 110v, 1ph, 60hz
 - **215** = 220/230v, 1ph, 50hz
 - **216** = 220/230v, 1ph, 60hz
 - Three Phase Not Available

APPLIED[®] SYSTEMS USA

Series WM – 250 to 4,000 GPD Wall Mount Systems

Reverse Osmosis Systems 250 to 4,000 Gallons/Day

Designed to produce low dissolved solids water from tap or well water, these wall-mounted systems use high efficiency reverse osmosis membranes. The product water is used in applications such as spot free rinse, water stores, whole house, labs, ice makers, humidification, misting and a wide variety of other applications.

Key Features

- 30 years of experience is reflected in our quality
- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



Standard Equipment

- Thin Film Composite Membranes
- PVC membrane pressure vessels
- 5 micron cartridge filter & housing
- Automatic inlet feed solenoid valve
- System control valve
- Recycle control valve
- Low pressure pump protection
- Rotary vane high pressure RO pump
- Liquid filled system pressure gauge
- Powder coated carbon steel frame
- Boxed and palletized for shipment

Controller for Automatic Operation

Monitors and/or Controls:

- Inlet valve
- Low pressure switch
- Low pressure auto restart after 1 hour
- Feed water flush at system shut-down
- On/Off with tank level
- Pre-treatment backwash/lockout
- System On/Off according to Tank Level (Float purchase separately)

UL508A Labeled



I-ROC250H

Controller Features:

- Panel mounted on/off switch

Indicator Lights:

- Service run/system flush
- Storage tank full/pretreatment lockout
- Low pressure shutdown/auto restart

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day	Qty.	Size (Dia. xL)	Inlet	Perm.	Conc.	Length	Depth	Height	
WM-12521A-116	250	0.9	1	2.5 × 21	½	¾	¼	27/69	11/28	27/69	90/41
WM-22521A-116	500	1.9	2	2.5 × 21	½	¾	¼	27/69	11/28	27/69	96/44
WM-32521A-116	750	2.6	3	2.5 × 21	½	¾	¼	34/86	11/28	27/69	106/48
WM-42521A-116	1,000	3.8	4	2.5 × 21	½	¾	¼	34/86	11/28	27/69	118/54
WM-225A-116	1,200	4.5	2	2.5 × 40	½	½	¼	27/69	11/28	46/117	116/53
WM-325A-116	1,700	6.4	3	2.5 × 40	½	½	¼	34/86	11/28	46/117	136/62
WM-425A-116	2,200	8.3	4	2.5 × 40	½	½	¼	34/86	11/28	46/117	152/69
WM-24A-116	4,000	15.1	2	4.0 × 40	½	½	½	34/86	12/30	52/132	175/79

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
- **Capacity Basis:** 24 hrs/day
- **Systems rated at:** 77°F (25°C) using 1000 ppm sodium chloride solution operating at approx. 175 psi pressure.
- **Minimum feed pressure to RO System:** 40 PSI. System capacity changes significantly with water temperature
- Chlorine must be removed with a carbon filter prior to the RO system, if present in the feed water.
- Pretreatment for water hardness using a softener or antiscalant injection should be added to avoid scaling the membranes.
- Feed water turbidity: Less than 1 NTU; Feed water silt density index (SDI): 3 maximum. If exceeded, pretreatment with media filter recommended. All pretreatment equipment and SDI test kits are available from Applied Membranes.

Voltage: Above models indicate recommended voltage codes per model. Available voltages:

- **116** = 120V/1ph/60hz
- **215** = 220V/1ph/50hz.
- **216** = 220 or 230V/ 1ph/ 60hz
- *Three phase not available.*

APPLIED MEMBRANES INC.[®]

Industry Leader in RO Expertise and Membrane Applications Since 1983™



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APPLIED[®] SYSTEMS USA

Series WM – 250 to 4,000 GPD Wall Mount Systems

AMI's WM Series Wall Mount RO Systems are available with a wide variety of optional add-on accessories. All assemblies include hardware and mounting equipment for easy upgrade to your new or existing system installation.

Wall Mount Filter Cartridges

Includes 20" Big Blue Housing, Mounting Bracket and Isolation Valves for changing the cartridge. Cartridges sold separately.

Add-On Part #.: A711

Pretreatment Options Available:

- **Sediment Filters in a variety of micron ratings:**
 1µ: H-F20BB01CF, 5µ H-F20BB05CF
 10 µ: H-F20BB10CF, 30µ: 155430-43
 75/25 µ Dual Rated: 155356-43
 100µ: 355226-43
- **Scale Inhibitor Cartridges:** H-F4220-NS
- **Block Carbon Filters:** KX Brand: 32-425-125-20

Post-Treatment Options Available:

- **Calcite Cartridge to neutralize permeate pH:** H-F4220CALCITE
- **Mixed-Bed DI for ultrapure applications:** H-F4220DI



Softener & Media Filters

AMI Media Filters feature fully automatic backwash or regeneration.

- Single or Twin Water Softeners
- Multi-Media Filter for 10 micron filtration
- Carbon Filter to remove chlorine
- Calcite Filter to neutralize permeate pH

See website for our full line of media filtration products



Mounting Bracket

(recommended)

Screw the mounting bracket to the wall first to simplify the mounting of the RO unit. Includes powder coated mounting plate with screws.

Part# A615 - for 27"L Units

Part# A616 - for 34"L Units



Quality Monitors

Pre-packaged wall mountable quality monitors

- **Permeate TDS**
60Hz Part# A242, 50Hz Part# A243
- **Feed TDS**
60Hz Part# A252, 50Hz Part# A253
- **Feed or Permeate pH**
60Hz Part# A244, 50Hz Part# A245



Floor Stand

Use this free-standing carbon steel powder coated frame to convert the WM unit to a floor unit.

Part # A626

Optional: Floor Stand Casters Kit

2 Locking & 2 Swivel for ease of mobility.

Part # A625



Tank Pressure Controls

To automatically turn the system on/off with the permeate storage tank level. For use with a pressurized storage tank (sold separately).

Part# A621 (220v/60Hz)



Ultraviolet (UV) Systems

Sterilize water for a 99.9% reduction of bacteria and viruses in the feed and/or permeate line. (For feed line, Wall Mount Filter Cartridge Assembly is required, shown above.)

See website for our full line of UV System products



Pressurized Storage Tank

Pressurized permeate storage tank available in 40 or 80 gallon volume. Assembly includes tank, valve, piping, tubing and pressure gauge.

40 Gallon Tank Assembly - Part # A612-40

80 Gallon Tank Assembly - Part # 4612-80



Prefilter Pressure Gauge

To allow for monitoring of the in/out pressure of the prefilter to indicate when the cartridge needs to be changed. Includes pressure gauge and fittings.

Part # A623



Tank Level Controls

Turns system on/off with tank level. Dual Float assembly (part# YFL2PPAS) for system on/off; Triple Float assembly (Part# YFL3PPAS) for system on/off and low level protection for re-pressurization pump (not included). For use with atmospheric storage tank (sold separately).

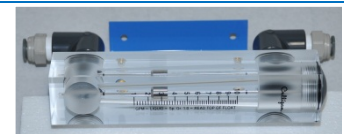


Flowmeters

Monitor system flows. Includes mounting bracket and fittings for connection of system tubing.

1-10 GPM Part # A107

0.5-5 GPM Part # A109



APPLIED[®] SYSTEMS USA

Series WMH – 2,000 to 4,000 GPD, High TDS Wall Mount Systems

Reverse Osmosis Systems • 2,000 to 4,000 GPD For Feed Water TDS 1,000 to 5,000 PPM

Designed to produce low dissolved solids water from high TDS tap or well water, these wall-mounted systems use high efficiency reverse osmosis membranes. The product water is used in applications such as spot free rinse, water stores, whole house, labs, ice makers, humidification, misting and a wide variety of other applications.

Key Features

- 30 years of experience is reflected in our quality
- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



With Optional Frame

Standard Equipment

- Thin Film Composite Membranes
- FRP membrane pressure vessels
- 5 micron cartridge filter & housing
- Automatic inlet feed solenoid valve
- System control valve, Stainless Steel
- Recycle control valve, Stainless Steel
- Low pressure pump protection
- Rotary vane high pressure Stainless Steel RO pump
- Liquid filled system pressure gauge
- Powder coated carbon steel frame
- Boxed and palletized for shipment

Controller Features:

- Panel mounted on/off switch

Controller for Automatic Operation

Monitors and/or Controls:

- Inlet valve
- Low pressure switch
- Low pressure auto restart after 1 hour
- Feed water flush at system shut-down
- On/Off with tank level
- Pre-treatment backwash/lockout
- System On/Off according to Tank Level (Float purchase separately)

Indicator Lights:

- Service run/system flush
- Storage tank full/pretreatment lockout
- Low pressure shutdown/auto restart

UL508A Labeled



I-ROC250H

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (In/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day	Qty.	Size (Dia. x L)	Inlet	Perm.	Conc.	Length	Depth	Height	
WMH-14A-116	2000	8	1	4 × 40	½	¾	¼	34/86	12/30	52/132	152/69
WMH-24A-116	4000	15	2	4 × 40	½	¾	¼	34/86	12/30	52/132	175/79

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
- **Capacity Basis:** 24 hrs/day
- **Systems rated at:** 77°F (25°C) using 5000 ppm sodium chloride solution operating at approx. 200-250 psi pressure.
- **Minimum feed pressure to RO System:** 40-60 PSI. System capacity changes significantly with water temperature
- Chlorine must be removed with a carbon filter prior to the RO system, if present in the feed water.
- Pretreatment for water hardness using a softener or antiscalant injection should be added to avoid scaling the membranes.
- Feed water turbidity: Less than 1 NTU; Feed water silt density index (SDI): 3 maximum. If exceeded, pretreatment with media filter recommended. All pretreatment equipment and SDI test kits are available from Applied Membranes.

Voltage Codes: Above models indicate recommended voltage codes per model.

Available voltages:

- **116** = 120V/1ph/60hz
- **215** = 220V/1ph/50hz.
- **216** = 220 or 230V/ 1ph/ 60hz
- *Three phase not available.*

APPLIED[®] SYSTEMS USA

Series WMH – 2,000 to 4,000 GPD, High TDS Wall Mount Systems

AMI's WMH Series Wall Mount RO Systems are available with a wide variety of optional add-on accessories. All assemblies include hardware and mounting equipment for easy upgrade to your new or existing system installation.

Wall Mount Filter Cartridges

Includes 20" Big Blue Housing, Mounting Bracket and Isolation Valves for changing the cartridge. Cartridges sold separately.
Add-On Part #: A711

Pretreatment Options Available:

- **Sediment Filters in a variety of micron ratings:**
1µ: H-F20BB01CF, 5µ H-F20BB05CF
10 µ: H-F20BB10CF, 30µ: 155430-43
75/25 µ Dual Rated: 155356-43
100µ: 355226-43
- **Scale Inhibitor Cartridges:** H-F4220-NS
- **Block Carbon Filters:** KX Brand: 32-425-125-20

Post-Treatment Options Available:

- **Calcite Cartridge to neutralize permeate pH:** H-F4220CALCITE
- **Mixed-Bed DI for ultrapure applications:** H-F4220DI



Mounting Bracket

(recommended)
Screw the mounting bracket to the wall first to simplify the mounting of the RO unit. Includes powder coated mounting plate with screws.
Part# A616



Ultraviolet (UV) Systems

Sterilize water for a 99.9% reduction of bacteria and viruses in the feed and/or permeate line. *(For feed line, Wall Mount Filter Cartridge Assembly is required, shown above.)*
See website for our full line of UV System products



Softener & Media Filters

AMI Media Filters feature fully automatic backwash or regeneration.

- Single or Twin Water Softeners
 - Multi-Media Filter for 10 micron filtration
 - Carbon Filter to remove chlorine
 - Calcite Filter to neutralize permeate pH
- See website for our full line of media filtration products*



Floor Stand

Use this free-standing carbon steel powder coated frame to convert the WMH unit to a floor unit.
Part # A626

Optional: Floor Stand Casters Kit

2 Locking & 2 Swivel for ease of mobility.
Part # A625



Quality Monitors

Pre-packaged wall mountable quality monitors

- **Permeate TDS**
60Hz Part# A242, 50Hz Part# A243
- **Feed TDS**
60Hz Part# A252, 50Hz Part# A253
- **Feed or Permeate pH**
60Hz Part# A244, 50Hz Part# A245



Tank Level Controls

Turns system on/off with tank level. Dual Float assembly (part# YFL2PPAS) for system on/off; Triple Float assembly (Part# YFL3PPAS) for system on/off and low level protection for re-pressurization pump (not included). For use with atmospheric storage tank (sold separately).



Tank Pressure Controls

To automatically turn the system on/off with the permeate storage tank level. For use with a pressurized storage tank (sold separately).
Part# A621 (220v/60Hz)



Flowmeters

Monitor system flows. Includes mounting bracket and fittings for connection of system tubing.

1-10 GPM Part # A107
0.5-5 GPM Part # A109



Pressurized Storage Tank

Pressurized permeate storage tank available in 40 or 80 gallon volume. Assembly includes tank, valve, piping, tubing and pressure gauge.

40 Gallon Tank Assembly - Part # A612-40
80 Gallon Tank Assembly - Part # 4612-80



Prefilter Pressure Gauge

To allow for monitoring of the in/out pressure of the prefilter to indicate when the cartridge needs to be changed. Includes pressure gauge and fittings.
Part # A623



- Compact, Customizable and Expandable
- Low Maintenance and Low Operating Costs
- Fully Assembled and Ready to Run

AMI's Advantage Series RO Systems are designed to produce low dissolved solids product water from tap or well water. These systems use high efficiency, low energy membranes, and run at high recovery offering low maintenance and operational costs. They incorporate carbon filters for chlorine removal, and sediment pre-filtration prior to the RO for a packaged unit that is ready to run out of the box.

Systems can be private labeled to help you further your own brand awareness.



Standard Features

- Thin Film Composite Membranes in SS Vessels
- Big Blue Carbon block and 5M Sediment Prefilters in Housings.
- Automatic Inlet Feed Solenoid Valve
- System & Recycle Control Valves
- Low Pressure Pump Protection
- High Pressure RO Pump
- (4) Pressure Gauges: System Pressure, Concentrate Pressure, Filter In and Filter Out.
- (3) Panel Mounted Flow Meters: Permeate, Concentrate and Recycle Flow.
- Powder Coated Carbon Steel Frame
- Boxed and Palletized for Shipment

Automatic Microprocessor Controller

Monitors and/or Controls:

- Inlet Valve
- Low Pressure Switch
- Pre-Treatment Backwash/Lockout
- System On/Off According to Tank Level (Floats Purchased Separately)

Indicator Lights:

- Low Pressure Shutdown/Auto Restart
- Power On/ Pretreatment Lockout
- Storage Tank Full

Why Applied Membranes?

- 30 Years of experience with over 10,000 commercial/industrial AMI[®] water treatment systems in operation.
- Our products are being used in over 100 countries worldwide.
- Our customers include major national and international companies in every field of application.
- We stock more components for all sizes of RO systems than any other company.
- We have earned an enviable reputation for our product quality, performance reliability and business integrity.

Key Features

- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation

Applications

- Spot Free Rinse/Car Wash
- Water Stores
- Whole House
- Labs
- Large Office
- Institutions
- Ice Makers
- Humidification
- Misting
- Manufacturing
- Rinse Water
- Wide Variety of Other Applications

Series P: 350 to 1,000 GPD

- 10" Big Blue Carbon Block and 5 Micron Sediment Filter
- 2.5" Diameter × 21" Length Thin Film Membranes in SS Housings
- System Dimensions: 21.75"L × 20"W × 33"H

Model No.*	System Capacity		Membrane Qty.	Connections			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day		Inlet	Conc.	Perm.	
P-125A	350	1.3	1	1/2"	3/8"	3/8"	60
P-225A	700	2.7	2	1/2"	3/8"	3/8"	65
P-325A	1,000	3.8	3	1/2"	3/8"	3/8"	70



Series T: 600 to 1,700 GPD

- 20" Big Blue Carbon Block and 5 Micron Sediment Filter
- 2.5" Diameter × 40" Length Thin Film Membranes in SS Housings
- System Dimensions: 23"L × 24"W × 55"H

Model No.*	System Capacity		Membrane Qty.	Connections			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day		Inlet	Conc.	Perm.	
T-125A	600	2.0	1	3/4"	1/2"	1/2"	95
T-225A	1,200	4.5	2	3/4"	1/2"	1/2"	105
T-325A	1,700	6.4	3	3/4"	1/2"	1/2"	115



Series M: 2,000 to 10,000 GPD

- 20" Big Blue Carbon Block Filters (2) and 5 Micron Sediment Filter
- 4" Diameter × 40" Length Thin Film Membranes in SS Housings
- System Dimensions: 35"L × 24"W × 55"H

Model No.*	System Capacity		Membrane Qty.	Connections			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day		Inlet	Conc.	Perm.	
M-14A	2,000	7.5	1	3/4"	1/2"	1/2"	220
M-24A	4,000	15.0	2	3/4"	1/2"	1/2"	235
M-34A	5,800	22.0	3	3/4"	1/2"	1/2"	250
M-44A	7,500	28.0	4	3/4"	1/2"	1/2"	265
M-54A	9,000	34.0	5	3/4"	1/2"	1/2"	280
M-64A	10,000	38.0	6	3/4"	1/2"	1/2"	295



Voltage Code and System Notes

***Voltage:** Please add our voltage codes to the end of the model number when ordering. Example: M-14A-116
 Voltage Codes: • 116 = 110v, 1ph, 60hz (P & T Models only) • 216 = 220/230v, 1ph, 60hz • 215 = 220/230v, 1ph, 50hz

- **Recommended Pre-Treatment Equipment:** All pretreatment equipment and SDI test kits are available from Applied Membranes.
Water Softener: Hardness must be removed if present in feed water prior to RO to avoid scaling the membranes.
Multimedia filter: If feed water exceeds <1 NTU turbidity, or silt density index (SDI) of 3, media filter pretreatment recommended.
- **Systems rated at:** 77°F (25°C) using 1000 ppm sodium chloride solution operating at approx. 200 psi. **Capacity Basis:** 24 hrs/day
- **Minimum feed pressure to RO System:** 40-60 PSI. System capacity changes significantly with water temperature
- **All dimensions and weights are approximate.**

APPLIED[®] SYSTEMS

Series L – 300 to 19,000 GPD RO Systems

USA

Reverse Osmosis Systems 300 to 19,000 Gallons/Day
For feed water TDS 500 to 1000 PPM

Designed to produce low dissolved solids water from tap or well water, these RO systems use high efficiency reverse osmosis membranes. Part of the L-series family (other systems include XL and HL series), these RO systems are designed to work at pressures of 200-250 psi for higher TDS water and use TW reverse osmosis membranes. The TW RO membranes offer higher salt removal and the higher operating pressure overcomes the loss of membrane flow due to higher TDS level.

These reverse osmosis systems use the proven, reliable components and are mounted on a sturdy powder-coated metal frame. There are numerous design details learned from years of experience that are incorporated in our water filtration systems. Our process and fluid design ensures an optimum membrane life and minimizes the membrane fouling.

Key Features

- 30 years of experience is reflected in our quality
- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation

Applications

- Spot Free Rinse/Car Wash
- Water Stores
- Whole House
- Labs
- Large Office
- Institutions
- Ice Makers
- Humidification
- Misting
- Manufacturing
- Rinse Water
- Wide Variety of Other Applications

Why Applied Membranes?

- Over 10,000 commercial/industrial systems in operation
- Our products are being used in over 100 countries worldwide
- Our customers include major national and international companies in every field of application
- We stock more components for all sizes of RO systems than any other company
- We have earned an enviable reputation for our product quality, performance reliability and business integrity



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Industry Leader in RO Expertise and Membrane Applications Since 1983™



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APPLIED[®] SYSTEMS USA

Series L – 300 to 19,000 GPD RO Systems

Standard Equipment

- Thin Film Composite Membranes
- Stainless steel membrane pressure vessels
- 5 micron 20" cartridge filter & housing
- Feed water temperature gauge
- Automatic inlet feed solenoid valve
- Permeate, Concentrate & Recycle Flowmeters
- System control valve
- Recycle control valve
- Low pressure pump protection
- High pressure RO pump
 - L-12521 – L-24A: Brass Rotary Vane
 - L-34A – L-124A : SS multistage with throttling valve
- Automatic membrane flush
- 4) Liquid filled pressure gauges for filter in/out and system pressures
- Product TDS displayed on controller LED
- System on/off with 2-level tank floats
- Powder coated carbon steel frame
- Boxed and palletized for shipment

Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

- Inlet valve
- Delayed start-up of high pressure pump
- Feed water flush at system shut-down
- Low pressure switch
- On/Off with tank level
- Permeate Water Quality (TDS)
- Pre-treatment backwash/lockout

Controller Features:

- Backlit LED Display
- LED indicator light for system status/alarm
- Front panel access port for calibration of TDS sensor
- LED indicator light for water quality (TDS)
- Start-up and shut-down with tank level
- Feed flush at shut-down
- Low pressure shut-down
- Low pressure automatic restart
- Delayed start-up of high pressure pump



UL Listing Optional

LED Display:

- Permeate TDS
- Operating Status
- Alarm Condition

Ordering Information

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day	Qty.	Size (Dia. x L)	Inlet	Perm.	Conc.	Length	Depth	Height	
L-12521A	300	1	1	2.5" x 21"	3/4"	3/8"	3/8"	20/51	24/61	55/140	230/104
L-125A	600	2	1	2.5" x 40"	3/4"	3/8"	3/8"	20/51	24/61	55/140	240/109
L-225A	1,200	5	2	2.5" x 40"	3/4"	3/8"	3/8"	20/51	24/61	55/140	250/113
L-14A	1,800	7	1	4" x 40"	3/4"	1/2"	1/2"	20/51	24/61	55/140	275/125
L-24A	3,000	12	2	4" x 40"	3/4"	1/2"	1/2"	20/51	24/61	55/140	300/136
L-34A	5,500	21	3	4" x 40"	3/4"	1/2"	1/2"	20/51	32/82	55/140	325/147
L-44A	7,000	27	4	4" x 40"	3/4"	1/2"	1/2"	20/51	32/82	55/140	350/159
L-54A	8,500	32	5	4" x 40"	3/4"	1/2"	1/2"	20/51	32/82	55/140	375/170
L-64A	10,000	38	6	4" x 40"	3/4"	1/2"	1/2"	20/51	32/82	55/140	400/181
L-74A	11,500	44	7	4" x 40"	3/4"	1/2"	1/2"	20/51	40/102	55/140	441/200
L-84A	13,000	49	8	4" x 40"	3/4"	1/2"	1/2"	20/51	40/102	55/140	466/211
L-94A	14,400	55	9	4" x 40"	3/4"	1/2"	1/2"	20/51	40/102	55/140	491/223
L-104A	16,000	60	10	4" x 40"	3/4"	1/2"	1/2"	20/51	46/117	55/140	516/234
L-114A	17,300	66	11	4" x 40"	3/4"	1/2"	1/2"	20/51	46/117	55/140	541/245
L-124A	19,000	72	12	4" x 40"	3/4"	1/2"	1/2"	20/51	46/117	55/140	566/257

Notes and Voltage/ Ordering Information

- **Recommended Pre-Treatment Equipment:** All pretreatment equipment and SDI test kits are available from Applied Membranes.
 - **Carbon Filter:** Chlorine must be removed with a carbon filter prior to the RO system, if present in the feed water.
 - **Water Softener:** Hardness must be removed if present in feed water prior to RO to avoid scaling the membranes.
 - **Multimedia filter:** If feed water exceeds <1 NTU turbidity, or silt density index (SDI) of 3, media filter pretreatment recommended.
- **Capacity Basis:** 24 hrs/day
- **Systems rated at:** 77°F (25°C) using 1000 ppm sodium chloride solution operating at approx. 200 psi (14 kg/cm²) pressure. For feed water with higher TDS refer to our Series HL brochure.
- **Minimum feed pressure to RO System:** 40-60 PSI. System capacity changes significantly with water temperature
- **Voltage:** Please add our voltage codes to the end of the model number when ordering. Example: L-12521-**116** = 110v, 1 ph, 60 hz.

Voltage Codes:	• 116 = 110v, 1ph, 60hz (up to L-24A only)	• 215 = 220/230v, 1ph, 50hz
	• 216 = 220/230v, 1ph, 60hz	<i>Three Phase Not Available</i>
- All dimensions and weights are approximate.

APPLIED[®] SYSTEMS USA

Series XL – 2,000 to 10,000 GPD Low Energy RO Systems

Reverse Osmosis Systems 2,000 to 10,000 Gallons/Day For Feed Water TDS Less Than 1,000 PPM

Designed to produce low dissolved solids water from tap or well water, these systems use extra low energy reverse osmosis membranes. The product water is used in applications such as spot free rinse, water stores, whole house, labs, ice makers, humidification, misting and a wide variety of other applications.

Part of the L-series family (other systems include L and HL series), these systems are designed to work at pressure less than 150 psi. These systems use extra-low energy membranes and are best suited for water of less than 1,000 PPM total dissolved solids (TDS). The systems use the proven, reliable components and are mounted on a sturdy powder-coated metal frame. There are numerous design details, learned from years of experience that are incorporated in our systems. Our process and fluid design ensures an optimum membrane life and minimizes the membrane fouling.

Key Features

- 30 years of experience is reflected in our quality
- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation

Why Applied Membranes?

- Over 10,000 commercial/industrial systems in operation
- Our products are being used in over 100 countries worldwide
- From packaged systems to custom engineered Reverse Osmosis systems, we can take care of your needs
- We are one of the few companies that have the expertise to provide Reverse Osmosis systems for drinking water, boiler feed water, seawater, desalination, ultrapure water, USP water, and water reuse
- We have supplied more systems to more countries than most of our competitors
- Our customers include major national and international companies in every field of application
- We stock more components for all sizes of RO systems than any other company
- We have earned an enviable reputation for our product quality, performance reliability and business integrity



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APPLIED[®] SYSTEMS USA

Series XL – 2,000 to 10,000 GPD Low Energy RO Systems

Standard Equipment

- Thin Film Composite Extra Low Energy Membranes
- Stainless steel membrane pressure vessels
- 5 micron 20" cartridge filter & housing
- Automatic inlet feed solenoid valve
- Permeate flowmeter
- Concentrate flowmeter
- System control valve
- Recycle control valve
- Low pressure pump protection
- Stainless steel multistage RO pump with SS pump throttling valve
- Automatic membrane flush
- Liquid filled pressure gauge for system pressure
- Feed TDS and percent rejection displayed on controller LED
- Product TDS displayed on controller LED
- System on/off with tank level (tank floats included)
- Powder coated carbon steel frame
- Boxed and palletized for shipment

Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

- Inlet valve
- Delayed start-up of high pressure pump
- Feed water flush at system shut-down
- Low pressure switch
- On/Off with tank level
- Permeate Water Quality (TDS)
- Pre-treatment backwash/lockout

Controller Features:

- Backlit LED Display
- LED indicator light for system status/alarm
- Front panel access port for calibration of TDS sensor
- LED indicator light for water quality (TDS)
- Start-up and shut-down with tank level
- Feed flush at shut-down
- Low pressure shut-down
- Low pressure automatic restart
- Delayed start-up of high pressure pump

I-ROC300



UL Listing Optional

LED Display:

- Permeate TDS
- Operating Status
- Alarm Condition

Recommended Optional Pre-Treatment Equipment

- Carbon filter
- Water Softener
- Multi-media filter

Model No.	System Capacity		Qty. of 4x40 Membrane Elements (XLE)	Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day		Inlet	Perm.	Conc.	Length	Depth	Height	
XL-14A-216	2,000	7.5	1	¾"	½"	½"	20/51	28/71	54/137	275/125
XL-24A-216	4,000	15	2	¾"	½"	½"	20/51	28/71	54/137	300/136
XL-34A-216	5,800	22	3	¾"	½"	½"	20/51	28/71	54/137	325/147
XL-44A-216	7,500	28	4	¾"	½"	½"	20/51	34/87	54/137	350/159
XL-54A-216	9,000	34	5	¾"	½"	½"	20/51	34/87	54/137	375/170
XL-64A-216	10,000	38	6	¾"	½"	½"	20/51	34/87	54/137	400/181

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
 - **Capacity Basis:** 24 hrs/day
 - **Systems rated at:** 77°F (25°C) using 1,000 ppm sodium chloride solution operating at approx. 200 psi pressure. System capacity changes significantly with water temperature. For higher TDS a water analysis must be supplied and could result in modifications to the system or changing from XL to L or HL series system.
 - **Minimum feed pressure to RO System:** 40-60 PSI.
 - Chlorine must be removed with a carbon filter or with chemical injection prior to the RO system, if present in feed water.
 - Pretreatment for water hardness using a softener should be added to avoid scaling the membranes.
 - Feed water turbidity: Less than 1 NTU ; Feed water silt density index (SDI): 3 maximum. If exceeded, pretreatment with media filter recommended. All pretreatment equipment and SDI test kits are available from Applied Membranes.
 - **Voltage Codes:** 216 = 220 -240v/ 1ph/ 60hz • 215 = 220-240v/1ph/50hz .
- Three phase or other voltages not available with XL Series. See Series L or HL.

APPLIED[®] SYSTEMS USA

Series HL – 300 to 9,000 GPD High TDS RO Systems

Reverse Osmosis Systems 300 to 9,000 Gallons/Day For Feed Water TDS 1,000 to 5,000 PPM

Designed to produce low dissolved solids water from tap or well water, these RO systems use high efficiency reverse osmosis membranes. The product water is used in applications such as water stores, whole house, ice makers, humidification, misting and a wide variety of other applications.

Part of the L-series family (other systems include L and XL series), these systems treat higher TDS water and thin film membranes and FRP membrane housings. All high pressure lines and components are made of corrosion resistant materials. The operating pressure is between 200 and 250 psi. Careful design steps are taken to minimize the highly corrosive nature of these brackish waters.

These reverse osmosis systems use the proven, reliable components and are mounted on a sturdy powder-coated metal frame. There are numerous design details learned from years of experience that are incorporated in our water filtration systems. Our process and fluid design ensures an optimum membrane life and minimizes the membrane fouling.

Key Features

- 30 years of experience is reflected in our quality
- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation

Why Applied Membranes?

- Over 10,000 commercial/industrial systems in operation
- Our products are being used in over 100 countries worldwide
- From packaged systems to custom engineered Reverse Osmosis systems, we can take care of your needs
- We are one of the few companies that have the expertise to provide Reverse Osmosis systems for drinking water, boiler feed water, seawater, desalination, ultrapure water, USP water, and water reuse
- We have supplied more systems to more countries than most of our competitors
- Our customers include major national and international companies in every field of application
- We stock more components for all sizes of RO systems than any other company
- We have earned an enviable reputation for our product quality, performance reliability and business integrity



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APPLIED[®] SYSTEMS USA

Series HL – 300 to 9,000 GPD High TDS RO Systems

Standard Equipment

- Thin Film Composite Membranes
- FRP membrane pressure vessels
- 5 micron 20" cartridge filter & housing
- Feed water temperature
- Automatic inlet feed solenoid valve
- Permeate, Concentrate & Recycle
- Flowmeters
- System control valve, Stainless Steel
- Recycle control valve, Stainless Steel
- Low pressure pump protection
- High pressure stainless steel RO pump
- Automatic membrane flush
- 4) Liquid filled pressure gauges for filter in/out and system pressures
- Feed and permeate TDS displayed on controller LED with percent rejection
- System on/off with 2-level tank floats
- Stainless Steel and corrosion resistant materials on high pressure side
- Powder coated carbon steel frame
- Boxed and palletized for shipment

Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

- Inlet valve
- Delayed start-up of high pressure pump
- Feed water flush at system shut-down
- Low pressure switch
- On/Off with tank level
- Permeate Water Quality (TDS)
- Pre-treatment backwash/lockout

Controller Features:

- Backlit LED Display
- LED indicator light for system status/alarm
- Front panel access port for calibration of TDS sensor
- LED indicator light for water quality (TDS)
- Start-up and shut-down with tank level
- Feed flush at shut-down
- Low pressure shut-down
- Low pressure automatic restart
- Delayed start-up of high pressure pump

I-ROC300



UL Listing Optional

LED Display:

- Permeate TDS
- Operating Status
- Alarm Condition

Recommended Optional Pre-Treatment Equipment

- Carbon filter
- Water Softener
- Multi-media filter
- Antiscalant Injection

Ordering Information

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day	Qty.	Size (Dia. x L)	Inlet	Perm.	Conc.	Length	Depth	Height	
HL-12521A-116	300	1	1	2.5 × 21	3/4	3/8	3/8	20/51	24/61	55/140	230/104
HL-125A-116	600	2	1	2.5 × 40	3/4	3/8	3/8	20/51	24/61	55/140	240/109
HL-225A-116	1,200	5	2	2.5 × 40	3/4	3/8	3/8	20/51	24/61	55/140	250/113
HL-14A-116	1,800	6	1	4 × 40	3/4	1/2	1/2	20/51	24/61	55/140	275/125
HL-24A-116	3,000	11	2	4 × 40	3/4	1/2	1/2	20/51	24/61	55/140	300/136
HL-34A-216	4,500	17	3	4 × 40	3/4	1/2	1/2	20/51	32/82	55/140	325/147
HL-44A-216	6,000	23	4	4 × 40	3/4	1/2	1/2	20/51	32/82	55/140	350/159
HL-54A-216	7,500	28	5	4 × 40	3/4	1/2	1/2	20/51	32/82	55/140	375/170
HL-64A-216	9,000	34	6	4 × 40	3/4	1/2	1/2	20/51	32/82	55/140	400/181

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
- **Capacity Basis:** 24 hrs/day
- **Systems rated at:** 77°F (25°C) using 1000 to 5000 ppm sodium chloride solution operating at approx. 200-225 psi pressure.
- **Minimum feed pressure to RO System:** 40-60 PSI. System capacity changes significantly with water temperature
- Chlorine must be removed with a carbon filter prior to the RO system, if present in feed water.
- Pretreatment for water hardness using a softener or antiscalant injection should be added to avoid scaling the membranes.
- Feed water turbidity: Less than 1 NTU; Feed water silt density index (SDI): 3 maximum. If exceeded, pretreatment with media filter recommended. All pretreatment equipment and SDI test kits are available from Applied Membranes.
- **Voltage:** Please add our voltage codes to the end of the model number when ordering.
Example: HL-12521-116 = 110v, 1 ph, 60 hz.
 - Voltage Codes:
 - **116** = 110v, 1ph, 60hz (up to L-24A only)
 - **216** = 220/230v, 1ph, 60hz
 - **215** = 220/230v, 1ph, 50hz
 - **Three Phase Not Available**

APPLIED MEMBRANES INC.[®]
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APPLIED[®] SYSTEMS USA

Series J – 7,000 to 28,800 GPD RO Systems

Designed to produce low dissolved solids water from tap or well water, these systems use highly efficient RO Membranes. The product water is used in applications such as rinse water, pharmaceutical, food processing, bottled water, hotels, beverage, hospitals, and a wide variety of other applications.



Series J Systems use 4"×40" membrane elements. Pressure vessels contain one or two membrane elements each and are mounted in a horizontal position.

Key Features

- 30 years of experience is reflected in our quality
- Heavy duty powder coated frame
- Stainless Steel High Pressure components, Stainless Steel Pump
- Microprocessor controlled operation
- Conservatively engineered for reliable, long term performance
- Factory tested to ensure trouble-free operation

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APPLIED[®] SYSTEMS USA

Series J – 7,000 to 28,800 GPD RO Systems

Standard Equipment

- Thin Film Composite Membranes
- Stainless steel multi-stage centrifugal pump
- Stainless steel membrane pressure vessels
- Powder coated carbon steel skid
- Sediment filter with 5 micron filters
- 316SS high pressure piping and Sch. 80 PVC low pressure piping
- Motorized automatic inlet feed valve
- Feed pump throttling valve, SS
- Concentrate & recycle panel mounted SS flow control valves
- Automatic membrane feed flush
- Low inlet pressure switch
- High pressure switch
- 4) Panel mounted liquid filled pressure gauges: Filter in/out, pump, concentrate
- 3) Panel mounted flowmeters: Product, reject and recycle
- Product TDS (or Conductivity) with digital display readout
- Cleaning ports
- System on/off with 2-level tank floats

Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

- Inlet valve
- Delayed start-up of high pressure pump
- Feed water flush at system shut-down
- Low pressure switch
- On/Off with tank level
- Permeate Water Quality (TDS)
- Pre-treatment backwash/lockout
- Permeate TDS (or conductivity)
- Feed TDS (or conductivity) and percent rejection
- Water Temperature
- Operating hours
- RO tank full override
- Auxiliary pump or valve control (optional)

UL508A Labeled



I-ROC150S

Controller Features:

- Backlit LED Display
- Multi-function keypad
- Visual and audible alarm & silence key
- Programmable time delays, set-points and flush mode
- Visual indicator alarm light
- Low pressure automatic restart

LED Display:

- Permeate TDS
- Feed TDS with % Rejection
- Water Temperature
- Operating Hours
- Operating Status
- Alarm condition

Optional Equipment

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> • Stainless steel boost or repressurization pump • pH monitor for feed or for permeate • Chemical injection • Pre-treatment: Softener, carbon, media | <ul style="list-style-type: none"> • ORP monitor/controller • Filter housing upgrade to SS • Turbidity monitor • Permeate divert to drain • UV system, feed or permeate | <ul style="list-style-type: none"> • FRP membrane housings • Low energy membranes • Clean-in-place – doubles as a permeate flush system |
|---|--|--|

Model No.	Capacity			No. of Elements	Line Sizes (Inches)			Dimensions (In/cm)			Approx Weight (lb/kg)
	GPM	GPD	m ³ /hr		Inlet	Perm.	Conc.	Length	Width	Height	
J-44A	5	7,000	1.1	4	1	3/4	3/4	80/203	35/89	74/188	1,070/485
J-54A	6	8,500	1.3	5	1	3/4	3/4	80/203	35/89	74/188	1,130/513
J-64A	7	10,000	1.6	6	1	3/4	3/4	80/203	35/89	74/188	1,190/540
J-74A	8	11,500	1.8	7	1	3/4	3/4	80/203	35/89	74/188	1,275/578
J-84B	9	13,000	2.0	8	1 1/2	1	3/4	100/254	35/89	74/188	1,410/640
J-104B	10	14,400	2.3	10	1 1/2	1	3/4	100/254	35/89	74/188	1,530/694
J-124B	12	17,300	2.7	12	1 1/2	1	3/4	100/254	35/89	74/188	1,610/776
J-144B	14	20,000	3.2	14	1 1/2	1	3/4	100/254	35/89	74/188	1,830/830
J-164B	16	23,000	3.6	16	1 1/2	1	3/4	100/254	35/89	74/188	1,950/885
J-184B	18	26,000	4.1	18	1 1/2	1	3/4	100/254	45/114	74/188	2,070/939
J-204B	20	28,800	4.5	20	1 1/2	1	3/4	100/254	45/114	74/188	2,190/993

Notes and Voltage/ Ordering Information

NOTES: All dimensions and weights are approximate. Capacity Basis: 24 hrs/day. Systems rated at: 77°F (25°C) using 2000 ppm sodium chloride solution operating at approx. 225-250 psi pressure. Minimum feed pressure to RO System: 40-60 PSI. System capacity changes significantly with water temperature. For higher TDS a water analysis must be supplied and could result in modifications to the system. Chlorine must be removed with a carbon filter or with chemical injection prior to the RO system, if present in feed water. Pretreatment for water hardness using a softener or antiscalant injection should be added to avoid scaling the membranes. Feed water turbidity: Less than 1 NTU ; Feed water silt density index (SDI): 3 maximum. If exceeded, pretreatment with media filter recommended. All pretreatment equipment and SDI test kits are available from Applied Membranes.

Please add our voltage codes to the end of the model number when ordering: Example: J-84B-236 = 220/230v/3 ph/60 Hz

- Voltage Codes:
- 236 = 220 or 230v/ 3ph/ 60hz
 - 235 = 220v/3ph/50hz
 - 436 = 460 or 480v/ 3ph/ 60 Hz
 - 335 = 380v/3ph/50 Hz

Single Phase Not Available

APPLIED[®] SYSTEMS USA

Series K – 28,800 to 460,000 GPD RO Systems

Designed to produce low dissolved solids water from tap or well water, these systems use high efficiency reverse osmosis membranes. The product water is used in applications such as semiconductor, boiler feed, pharmaceutical, municipal, water reuse, food processing, bottling, and a wide variety of other applications.



Series K systems use 8" Diameter, 40" long membrane elements. Pressure vessels contain multiple elements and are mounted in a horizontal position.



Key Features

- 30 years of experience is reflected in our quality
- Heavy duty powder coated frame
- SS High pressure components, SS Pump
- Microprocessor Controlled Operation
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



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APPLIED[®] SYSTEMS USA

Series K – 28,800 to 460,000 GPD RO Systems

Standard Equipment

- Thin Film Composite Membranes
- Stainless steel multi-stage centrifugal pump
- FRP pressure vessels
- Polypropylene 5M filter housing for K-48B & K-68C, 316SS housing for larger models
- 316SS high pressure piping and Sch. 80 PVC low pressure piping
- Motorized automatic inlet feed valve
- Feed pump throttling valve, SS, or VFD Drive
- Panel mounted SS flow control valves
- Automatic membrane feed flush with permeate flush option
- Low inlet pressure switch
- High pressure switch
- 4) Panel mounted liquid filled pressure gauges: Filter in/out, pump, concentrate
- Panel mounted flowmeters: product & concentrate
- Product TDS (or Conductivity) with digital display readout
- Cleaning ports
- System on/off with 2-level tank floats
- Heavy duty powder coated steel frame

Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

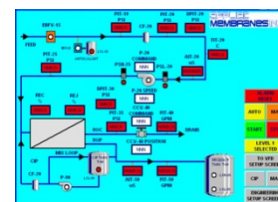
- Inlet valve
- Delayed start-up of high pressure pump
- Feed water flush at system shut-down
- Low pressure and high pressure switches
- On/Off with storage tank level
- Pre-treatment backwash/lockout
- Permeate TDS (or conductivity)
- Feed TDS (or conductivity) & percent rejection
- Water Temperature
- Operating hours
- RO tank full override
- Auxiliary pump or valve control (optional)



I-ROC150S Controller

Controller Features:

- Backlit LED Display or optional Touchscreen
- Multi-function keypad or optional Touchscreen
- Alarm notification
- Programmable time delays, set-points and flush mode
- Visual indicator alarm light



PLC Controller

Optional Equipment

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> • Stainless steel boost or repressurization pump • pH monitor for feed or for permeate • Chemical injection • Pre-treatment: Softener, carbon, media • VFD Drives | <ul style="list-style-type: none"> • ORP monitor/controller • Filter housing upgrade to SS • Turbidity monitor • Permeate divert to drain • UV system, feed or permeate | <ul style="list-style-type: none"> • FRP membrane housings • Low energy membranes • Clean-in-place <i>doubles as a permeate flush system</i> • PLC with 10" Touchscreen |
|---|--|---|

Ordering Information

Model No.	System Capacity			Membrane Elements	Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPM	GPD	m ³ /hr		Inlet	Perm.	Conc.	Length	Depth	Height	
K-48B	20	28,800	4.5	4	2	1½	1½	120/305	44/112	75/191	1,310/594
K-68C	30	43,200	7	6	2	1½	1½	154/391	44/112	75/191	1,425/646
K-98C	40	57,600	9	9	2	1½	1½	154/391	44/112	75/191	1,735/787
K-128D	55	79,200	13	12	3	2	2	154/391	44/112	76/193	2,005/909
K-168D	75	108,000	17	16	3	2	2	154/391	44/112	76/193	2,275/1,032
K-208D	95	136,800	22	20	3	3	2	154/391	44/112	76/193	2,645/1,200
K-248D	115	165,600	26	24	4	3	2	194/493	60/152	76/193	2,910/1,320
K-288D	135	194,400	31	28	4	3	2	194/493	60/152	76/193	3,280/1,488
K-368F	175	252,000	40	36	4	3	2	288/731	60/152	76/193	3,795/1,721
K-428F	200	288,000	45	42	4	3	2	288/731	60/152	76/193	5,275/2,392
K-488F	225	324,000	51	48	4	3	2	288/731	60/152	76/193	5,660/2,567
K-548F	250	360,000	57	54	6	4	3	custom	custom	custom	7,140/3,245
K-608F	275	396,000	63	60	6	4	3	custom	custom	custom	8,680/3,945
K-668F	300	432,000	68	66	6	4	3	custom	custom	custom	10,285/4,675
K-728F	325	460,000	74	72	6	4	3	custom	custom	custom	11,890/5,404

Notes and Voltage/ Ordering Information

- Systems rated at 77°F (25°C) using 2000 ppm feed water and approx. 225 psi (16 kg/cm²) pressure. System capacity changes significantly with water temperature and feed TDS. For higher TDS, a water analysis must be supplied and could result in modifications to the system.
- Chlorine must be removed with a carbon filter or with chemical injection prior to the RO System, if present in the feed water.
- Water must be pretreated by softener or antiscalant to avoid scaling the membranes.
- All dimensions and weights are approximate.

Please add our voltage codes to the end of the model number when ordering: Example: J-84B-236 = 220/230v/3 ph/60 Hz

Voltage Codes: • 236 = 220 or 230v/ 3ph/ 60hz • 235 = 220v/3ph/50hz
 • 436 = 460 or 480v/ 3ph/ 60 Hz • 335 = 380v/3ph/50 Hz

Single Phase Not Available



APPLIED[®] SYSTEMS USA

Maritime Series Watermakers – 150 to 1,600 GPD Seawater Systems

Our Maritime Series Watermakers convert seawater to drinking water. Their compact design makes them ideal for use on yachts, boats, cruise ships and resorts.

Key Features

- 30 years of experience in seawater desalination
- Compact powder coated aluminum frame
- High quality, proven components
- Engineered for reliable, long term performance
- Factory tested to ensure trouble-free operation
- Available with a wide variety of optional accessories to customize and improve system performance (page 6-21)



Standard Equipment

- Thin Film Composite Membranes
- FRP Membrane Housings
- Stainless Steel High Pressure Pump
- Permeate Flow Meter
- Low and High Pressure Shutoff Switches
- Compact Aluminum Frame with Powder Coated Finish
- Stainless Steel Back Pressure Control
- 5 Micron Sediment Filter and Housing
- Differential Gauge Showing Filter Life
- High Pressure Relief Valve
- Liquid Filled System Pressure Gauge
- Product TDS with Digital Display Readout
- Fresh Water Divert: Monitors Permeate Quality and diverts to drain if it falls below a pre-set set point
- Booster Pump and Raw Water Strainer
- Fresh Water Flush Module
- Installation Kit

Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

- Permeate Quality (TDS)
- Water Temperature
- Operating Hours
- Operating Status
- Alarm Condition
- Booster Pump
- Delayed start-up of high pressure pump
- Low and high pressure switches
- On/Off with storage tank level*
- Permeate TDS with alarm set-point
- Fresh water flush
- Automatic product water diversion
- Pretreatment lock-out

Controller Features:

- NEMA 4X Enclosure
- Remote Control Operation (optional)



LED Display:

- Backlit LED Display
- Multi-function Keypad
- Visual and Audible Alarm
- Programmable Time Delays, Set-Points and Flush Modes
- Visual Indicator Alarm Light
- Low Pressure Automatic Restart

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	LPD	Qty.	Size (Dia. xL)	Inlet	Perm.	Conc.	Width	Depth	Height	
Maritime 150	150	567	1	2.5 x 21"	3/4	1/4	1/2	25.1/63.8	19/48.3	12.5/31.6	110/50
Maritime 300	300	1135	2	2.5 x 21"	3/4	1/4	1/2	25.1/63.8	19/48.3	12.5/31.6	115/52
Maritime 400	400	1514	1	2.5 x 40"	3/4	3/8	1/2	44.2/112	19/48.3	12.5/31.6	130/60
Maritime 800	800	3028	2	2.5 x 40"	3/4	3/8	1/2	44.2/112	20/50.8	18/45.7	140/65
Maritime 1200	1,200	4542	3	2.5 x 40"	1	3/8	1/2	44.2/112	20/50.8	18/45.7	150/70
Maritime 1600	1,600	6056	4	2.5 x 40"	1	3/8	1/2	44.2/112	20/50.8	18/45.7	180/80

Model No.	System Pressure		Power		Motor			Electrical			Fully Automated
	Normal PSI/BAR	Max PSI/BAR	kW	Amps	HP	FLA	Type	Voltage	Freq	Phase	
Maritime 150	700/48	1000/69	0.65	7/3.5	1	12.8	TEFC	115/240	50/60	1	Yes
Maritime 300	800/55	1000/69	0.75	8.1/4	1	12.8	TEFC	115/240	50/60	1	Yes
Maritime 400	700/48	1000/69	0.95	12.5/6.25	1.5	23/11.5	TEFC	115/240	50/60	1	Yes
Maritime 800	750/52	1000/69	1.4	15.5/7.75	2.5	23/11.5	TEFC	115/240	50/60	1	Yes
Maritime 1200	800/55	1000/69	1.5	16.5/8.25	2.5	23/11.5	TEFC	115/240	50/60	1	Yes
Maritime 1600	800/55	1000/69	2.1	22/11	2.5	23/11.5	TEFC	115/240	50/60	1	Yes

Notes and Voltage/Ordering Information

- * Requires the use of optional tank float switches
- All dimensions and weights are approximate and subject to change. Performance Based on 32,000 ppm seawater at 77°F (25°C).
- **Voltage:** Please add our voltage codes to the end of the model number when ordering. Example: Maritime 150-216.
 - Voltage Codes:
 - **216** = 220/230v, 1ph, 60hz
 - **236** = 220 or 230v/ 3ph/ 60hz
 - **116** = 110v, 1ph, 60hz
 - **215** = 220/230v, 1ph, 50hz
 - **235** = 220v/3ph/50hz

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APPLIED[®] SYSTEMS USA

Voyager Modular Watermakers – 150 to 1,600 GPD SWRO

Our Voyager Watermakers convert seawater to drinking water and are designed for applications with limited space. Instead of a traditional one-piece frame, these space-saving systems are sold in several modules which can be installed into smaller spaces and connected together. This design makes them ideal for use on yachts, boats, or cruise ships with limited space.



Key Features

- 30 years of experience in seawater desalination
- High quality, proven components
- Engineered for reliable, long term performance
- Factory tested to ensure trouble-free operation
- Compact gauge panel with control valve
- Available with a wide variety of optional accessories to customize and improve system performance (page 6-21)

Standard Equipment

- Thin Film Composite Membranes
- FRP Membrane Housings
- Stainless Steel High Pressure Pump
- Permeate Flow Meter
- Low and High Pressure Shutoff Switches
- Compact Gauge Panel with Powder Coated Finish
- Stainless Steel Back Pressure Control
- 5 Micron Sediment Filter and Housing
- Differential Gauge Showing Filter Life
- High Pressure Relief Valve
- Liquid Filled System Pressure Gauge
- Product TDS with Digital Display Readout
- Fresh Water Divert: Monitors Permeate Quality and diverts to drain if it falls below a pre-set set point
- Booster Pump and Raw Water Strainer
- Fresh Water Flush Module
- Installation Kit

Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

- Permeate Quality (TDS)
- Water Temperature
- Operating Hours
- Operating Status
- Alarm Condition
- Booster Pump
- Delayed start-up of high pressure pump
- Low and high pressure switches
- On/Off with storage tank level*
- Permeate TDS with alarm set-point
- Fresh water flush
- Automatic product water diversion
- Pretreatment lock-out

Controller Features:

- NEMA 4X Enclosure
- Remote Control Operation (optional)



LED Display:

- Backlit LED Display
- Multi-function Keypad
- Visual and Audible Alarm
- Programmable Time Delays, Set-Points and Flush Modes
- Visual Indicator Alarm Light
- Low Pressure Automatic Restart

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Concentrate Flow Rate		Approx. Shipping Weight (Lb/Kg)
	GPD	LPD	Qty.	Size (Dia. x L)	Inlet	Perm.	Conc.	GPM	LPM	
Voyager 150	150	567	1	2.5 x 21"	3/4	1/4	1/2	1.40	5.3	110/50
Voyager 300	300	1135	2	2.5 x 21"	3/4	1/4	1/2	1.29	4.9	115/52
Voyager 400	400	1514	1	2.5 x 40"	3/4	3/8	1/2	2.23	8.4	130/60
Voyager 800	800	3028	2	2.5 x 40"	3/4	3/8	1/2	2.35	8.9	140/65
Voyager 1200	1,200	4542	3	2.5 x 40"	1	3/8	1/2	2.67	10.1	150/70
Voyager 1600	1,600	6056	4	2.5 x 40"	1	3/8	1/2	4.80	18.2	180/80

Model No.	Amps (DC Systems)		Power (AC Systems)		AC Motor			AC Electrical			Fully Automated
	12v	24v	kW	Amps	HP	FLA	Type	Voltage	Freq	Phase	
Voyager 150	45	23	0.65	7/3.5	1	12.8	TEFC	115/240	50/60	1	✓ Yes
Voyager 300	45	23	0.75	8.1/4	1	12.8	TEFC	115/240	50/60	1	✓ Yes
Voyager 400	n/a	n/a	0.95	12.5/6.25	1.5	17.2/8.8	TEFC	115/240	50/60	1	✓ Yes
Voyager 800	n/a	n/a	1.4	15.5/7.75	2.5	23/11.5	TEFC	115/240	50/60	1	✓ Yes
Voyager 1200	n/a	n/a	1.5	16.5/8.25	2.5	23/11.5	TEFC	115/240	50/60	1	✓ Yes
Voyager 1600	n/a	n/a	2.1	22/11	2.5	23/11.5	TEFC	115/240	50/60	1	✓ Yes

Notes and Voltage/Ordering Information

- *Requires the use of optional tank float switches
- See page 6-22 for Dimensions. All dimensions and weights are approximate and subject to change.
- Performance Based on 32,000 ppm seawater at 77°F (25°C).
- **Voltage:** Please add our voltage codes to the end of the model number when ordering. Example: Voyager 150-216.
 - **116** = 110v, 1ph, 60hz
 - **216** = 220/230v, 1ph, 60hz
 - **12** = 12V DC (Available for Voyager 150 & 300 Only)
 - **215** = 220/230v, 1ph, 50hz
 - **24** = 24V DC (Available for Voyager 150 & 300 Only)

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APPLIED[®] SYSTEMS USA

Optional Accessories for Maritime & Voyager Systems

AMI's Maritime and Voyager Watermakers are available with a wide variety of optional add-on accessories. These accessories are designed to customize any system to fit your needs. Many will even work on competing brands of watermakers!

Have a special application? We have a team of experienced design engineers that can help you come up with a solution.

Plankton Filter

Removes plankton and other large particles from the feed water to provide additional protection and extended life of the system prefilter. 100 Micron 10" Filter Cartridge in a clear housing on a powder coated mounting bracket. Includes isolation valves for easy cartridge change.



Model # A629

Oil Water Separator

Nothing fouls a membrane faster than oil. Protect your RO System & Membranes from oily or polluted water. 20" Filter Cartridge in a Big Blue housing on a powder coated mounting bracket. Includes isolation valves for easy cartridge change.



Model # A630

Commercial Prefilter

The commercial sized filter cartridge has a dual-micron rating for extended life, and will provide longer intervals between changing the system prefilter. The outer layer will trap particles larger than 75 Micron, while the inner layer traps particles of 25 Micron. 20" Filter Cartridge in a Big Blue housing on a powder coated mounting bracket. Includes isolation valves for easy cartridge change.



Model A711

Media Filter

Removes suspended solids larger than 30 microns to greatly extend prefilter life and provide additional protection to the system. The 8x18" media tank is mounted on a powder coated frame with in/out pressure gauges and a valve for manual backwash. Multiple sizes available for higher flow rates.



Up to 3gpm: Model W-MB0818

pH Neutralizer

Neutralizes the pH of the Fresh Water stream from the RO system. AMI calcite filters are self-limiting: they will correct pH only enough to reach a non-corrosive equilibrium, and will not over-correct. 10" Calcite Filter Cartridge in a blue housing on a powder coated mounting bracket. Includes isolation valves for easy cartridge change.

Model H-F251CALCITE

Remote Control

Connects to the main control board with a standard Cat5 cable, allowing you to start, stop, and monitor your watermaker from nearly anywhere. Designed for easy installation at a navigation station, galley, or pilothouse. Simple LED's show system status.



Model WMC-1-RMC

Membrane Preserving Cartridges

Pickling your system using AMI's exclusive preservative has never been simpler. Install this filter cartridge into your system and preserve the membranes in-place for extended periods of system shut-down. No more messing around with hoses, valves and plumbing connections.



Cartridge for 10" Std.: C-C2510-A88

Membrane Cleaning Cartridges

Just like membrane preservative cartridges shown above, but with chemicals designed to remove scale and bio-fouling from membranes. Clean membranes without removing them from your system, or altering valves, hoses or plumbing connections. Reduce downtime, maintain system performance, and prolong membrane life.



10" Std. (removes Scale): C-C2510-A11

10" Std. (removes organics): C-C2510-A22

Replacement Filters

We carry a large range of filters and housings manufactured under the AMI[®] label. These high quality products use the same materials and produce similar performance specifications as the equivalent filters of other well-known brands.

Carbon Block: 300106

Pleated 10" 5 Micron: 300105

Other Sizes Available



Ultraviolet (UV) System

Ultraviolet Water System for the fresh water stream to sterilize 99.8% of all micro-organisms including reproducing bacteria and viruses.



2GPM UV Sterilizer, 12v: 300561

5GPM UV Sterilizer, 12v: 300562

All assemblies include hardware and mounting equipment for easy upgrade to your new or existing system installation.

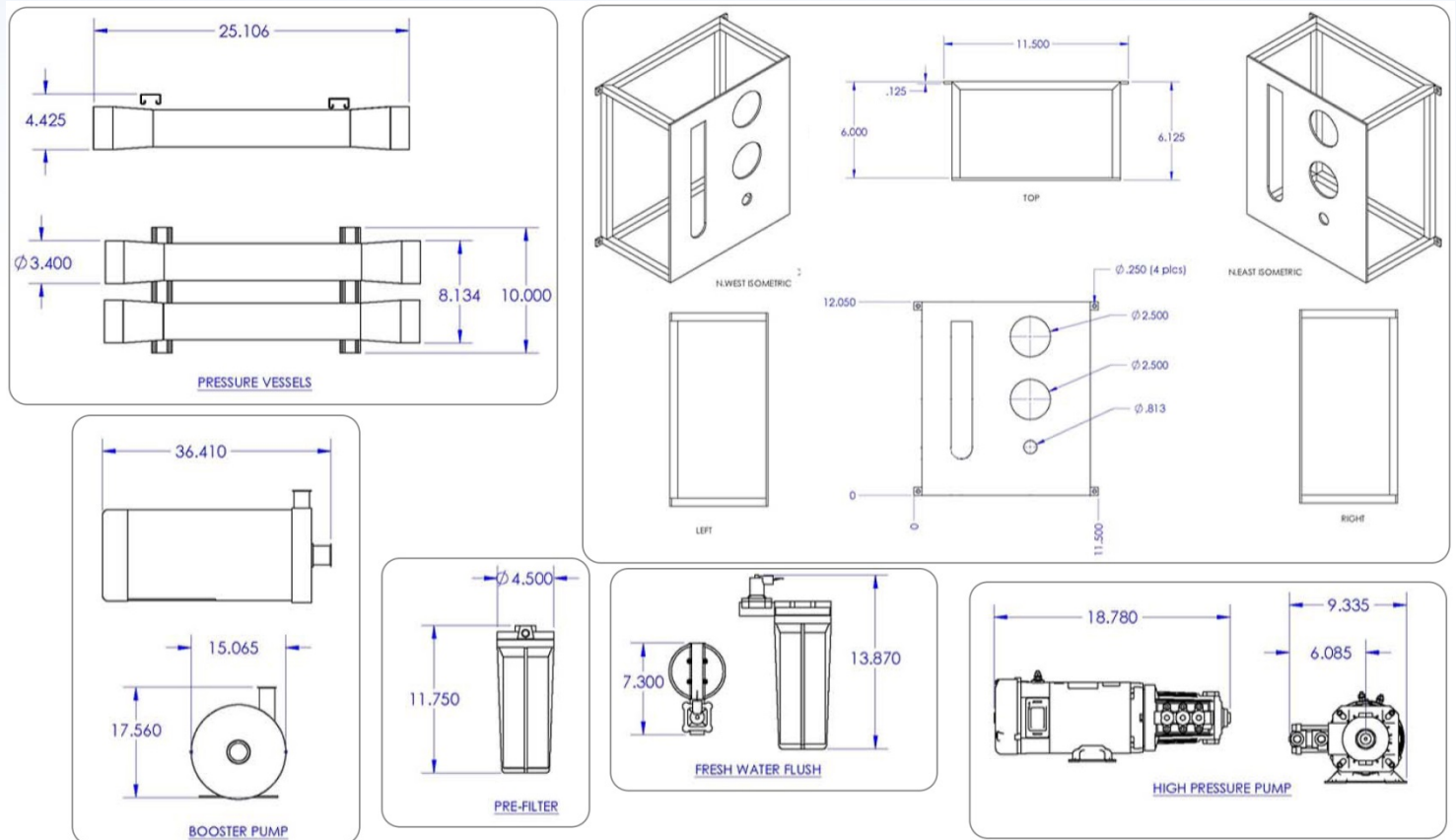
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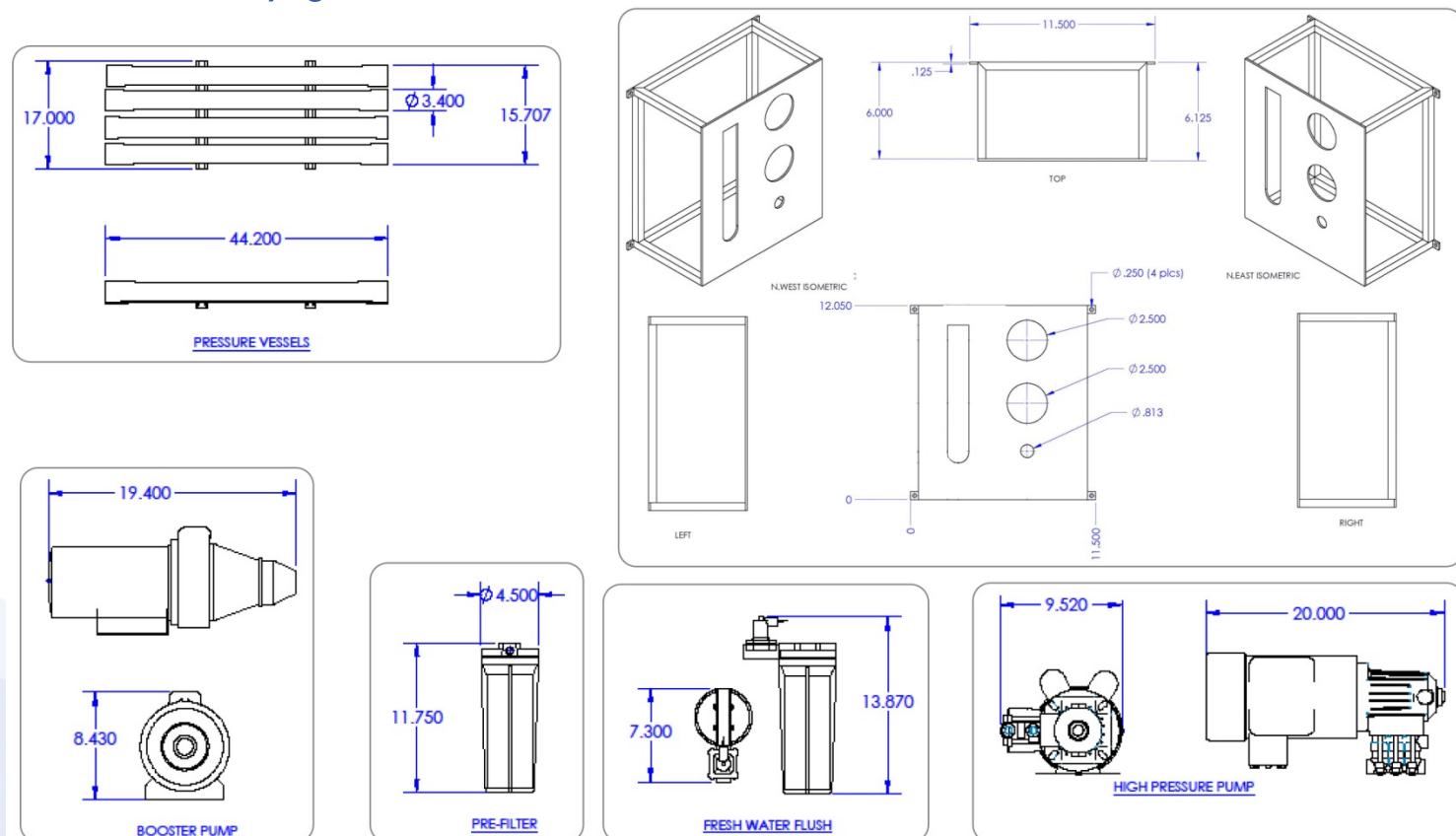
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Dimensions for Voyager Modular Watermakers

Dimensions of Voyager 150 – 300 Modular Watermakers



Dimensions of Voyager 400 – 1600 Modular Watermakers



APPLIED[®] SYSTEMS USA

Series SY Watermakers – 150 to 1,600 GPD Seawater Systems

AMI Watermaker SY series systems convert seawater to drinking water. Their compact design makes them ideal for use on yachts, boats, cruise ships, and resorts.

Key Features

- 30 years of experience is reflected in our quality
- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



Standard Equipment

- Feed Intake Booster Pump with Inlet Screen, Foot Valve and 15 ft. Hose
- Thin Film Composite Membranes
- FRP Membrane Housings
- Stainless Steel High Pressure Pump
- Permeate and Concentrate Flow Meters
- Low and High Pressure Safeguards
- Compact Aluminum Frame with Powder Coated Finish
- Tank Level Controls for Automatic On/Off with Tank Level
- Stainless Steel Back Pressure Control
- 5 Micron Sediment Filter and Housing
- High Pressure Relief Valve
- Pulsation Dampener
- Liquid Filled System Pressure Gauge
- Feed and Product TDS with Digital Display Readout
- Fresh Water Divert: Monitors Permeate Quality and Diverts to drain if it falls below a pre-set set point

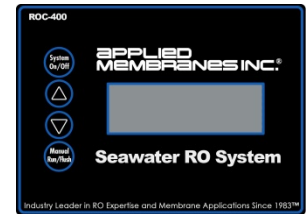
Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

- Inlet valve
- Delayed start-up of high pressure pump
- Low pressure and high pressure switches
- On/Off with storage tank level
- Permeate TDS with alarm set-point
- Feed TDS with alarm set-point
- Water Temperature
- Operating Hours
- Fresh water flush (flush kit optional)
- Pretreatment lock-out

Controller Features:

- Permeate Quality (TDS)
- Feed Quality (TDS)
- Water Temperature
- Operating Hours
- Operating Status
- Alarm Condition



ROC400

LED Display:

- Backlit LED Display
- Multi-function Keypad
- Visual and Audible Alarm
- Programmable Time Delays, Set-Points and Flush Modes
- Visual Indicator Alarm Light
- Low Pressure Automatic Restart

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day	Qty.	Size (Dia. x L)	Inlet	Perm.	Conc.	Width	Depth	Height	
SY-12521	150	0.57	1	2.5 x 21	3/4	3/8	3/8	36/91	19/48	17/43	110/50
SY-22521	300	1.1	2	2.5 x 21	3/4	3/8	3/8	36/91	19/48	17/43	110/50
SY-12540	400	1.5	1	2.5 x 40	3/4	3/8	3/8	54/137	32/81	17/43	130/60
SY-22540	800	3.0	2	2.5 x 40	3/4	3/8	3/8	54/137	32/81	17/43	140/65
SY-32540	1,200	4.5	3	2.5 x 40	3/4	3/8	3/8	54/137	32/81	17/43	150/70
SY-42540	1,600	6.0	4	2.5 x 40	3/4	3/8	3/8	54/137	32/81	17/43	180/80

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate and subject to change. Performance Based on 35,000 ppm seawater at 77°F (25°C). Recovery in the range of 10-15%. Operating pressure 800-1000 psi (57-71 kg/cm²).
- **Voltage:** Please add our voltage codes to the end of the model number when ordering. Example: SY-12514-236.
 - Voltage Codes:
 - **116** = 110v, 1ph, 60hz (up to L-24A only)
 - **216** = 220/230v, 1 ph, 60hz
 - **215** = 220/230v, 1 ph, 50hz
 - **236** = 220 or 230v/ 3ph/ 60hz
 - **235** = 220v/3ph/50hz

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APPLIED[®] SYSTEMS USA

Series SY Watermakers – 150 to 1,600 GPD Seawater Systems

AMI's Series SY Seawater RO Systems are available with a wide variety of optional add-on accessories. All assemblies include hardware and mounting equipment for easy upgrade to your new or existing system installation.

Plankton Filter

Removes plankton and other large particles from the feed water to provide additional protection and extended life of the system prefilter. 100 Micron 10" Filter Cartridge in a clear housing on a powder coated mounting bracket. Includes isolation valves for easy cartridge change.

Model # A629



Fresh Water Flush

To prolong membrane life by flushing the system with fresh water at each shutdown and every 24 hours. Includes a 10" Big Blue Carbon Filter & Housing to remove chlorine from water. Also includes mounting bracket, piping and electrical connections.

Model # A633 and A634 (w/ Booster Pump)



Oil Water Separator

Protects the RO System & Membranes from oily or polluted water. 20" Filter Cartridge in a Big Blue housing on a powder coated mounting bracket. Includes isolation valves for easy cartridge change.

Model # A630



Remote Control Panel

The Touch Pad Remote Control unit allows for remote starting & stopping of the watermaker, alarm & monitoring.

- Permeate TDS
60Hz Part# A242, 50Hz Part# A243
- Feed or Permeate pH
60Hz Part# A244, 50Hz Part# A245



Commercial Prefilter

The commercial sized filter cartridge has a dual-micron rating for extended life, and will provide longer intervals between changing the system prefilter. The outer layer will trap particles larger than 75 Micron, while the inner layer traps particles of 25 Micron. 20" Filter Cartridge in a Big Blue housing on a powder coated mounting bracket. Includes isolation valves for easy cartridge change.

Model A711



Membrane Preserving Cartridges

Preserve system and membranes in-place for extended periods of system shut-down.

Cartridge for 10" Std.: C-C2510-A88

Membrane Cleaning Cartridges

Clean membranes without removing them from your system, reduce downtime, maintain system performance at a higher level, and prolong membrane life.

10" Std. (removes Scale): C-C2510-A11

10" Std. (removes organics): C-C2510-A22



Media Filter

Removes suspended solids larger than 30 microns to greatly extend prefilter life and provide additional protection to the system. The 8x16" media tank is mounted on a powder coated frame with in/out pressure gauges and a valve for manual backwash.



Replacement Filters

We carry a large range of filters and housings manufactured under the **EM** label. These high quality products use the same materials and produce similar performance specifications as the equivalent filters of other well-known brands.



pH Neutralizer

Neutralizes the pH of the Fresh Water stream from the RO system. AMI calcite filters are self-limiting: they will correct pH only enough to reach a non-corrosive equilibrium, and will not over-correct. 10" Calcite Filter Cartridge in a blue housing on a powder coated mounting bracket. Includes isolation valves for easy cartridge change.

Ultraviolet (UV) System

Ultraviolet Water System for the fresh water stream to sterilize 99.8% of all micro-organisms including reproducing bacteria and viruses.

See website for our full line of UV System products



Modular Configuration Available

Also available in space-saving modular configuration. See our Voyager Modular brochure for details



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APPLIED[®] SYSTEMS USA

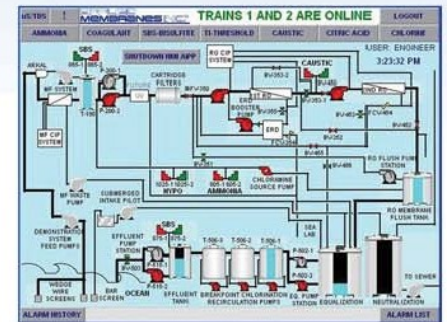
Series S – 2,000 to 132,000 GPD Seawater Desalination Systems

Designed to convert seawater to drinking water, these systems use high quality reverse osmosis seawater desalination membranes. The product water is used in a variety of areas including municipal, hotels, resorts, military, off-shore platforms, and various industrial applications. Designed for the demanding requirements of the marine environment, these systems use our proven technology to give reliable performance.



Key Features

- 30 years of experience is reflected in our quality
- Heavy duty powder coated frame
- Proven components are used throughout the system
- PLC Controlled Operation
- Energy recovery included for models S-128F and larger
- Conservatively engineered for reliable long-term performance
- Factory tested to ensure trouble-free operation



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APPLIED[®] SYSTEMS USA

Series S – 2,000 to 132,000 GPD Seawater Desalination Systems

Standard Equipment

- Thin Film Composite Membranes
- Stainless steel high pressure pump
- Pressure relief
- Energy recovery for models S-128F and up
- Programmable logic controller (PLC) models S-128F and up
- FRP pressure vessels
- Polypropylene 5M filter housing for up to S-48B FRP housing for larger models
- 316SS high pressure piping and Sch. 80 PVC low pressure piping
- Motorized automatic inlet feed valve
- Antiscalant injection system
- Panel mounted SS flow control valve
- Automatic membrane feed flush with permeate
- *Doubles as a clean-in-place system*
- Low inlet and high outlet pressure switches
- 4) Panel mounted liquid filled pressure gauges: Filter in/out, pump, concentrate
- Panel mounted flowmeters: product & concentrate
- Product TDS with digital display readout
- Cleaning ports
- System on/off with 2-level tank floats
- Heavy duty powder coated aluminum frame

Microprocessor/PLC Controller for Automatic Operation

Monitors and/or Controls:

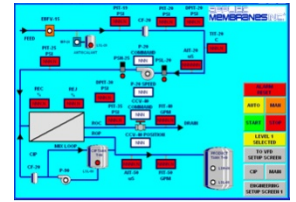
- Inlet valve
- Delayed start-up of high pressure pump
- Permeate water flush at system shut-down
- Low pressure and high pressure switches
- On/Off with storage tank level
- Pre-treatment backwash/lockout
- Permeate TDS
- Feed TDS) and percent rejection
- Water Temperature
- Operating hours
- RO tank full override
- Auxiliary pump or valve control (optional)

Controller Features:

- Backlit LED Display or optional Touchscreen
- Multi-function keypad or optional Touchscreen
- Alarm notification
- Programmable time delays, set-points and flush mode
- Visual indicator alarm light
- Low pressure automatic restart



I-ROC150S Controller



PLC Controller

Optional Equipment

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> • Stainless steel boost or repressurization pump • pH monitor for feed or for permeate • Chemical injection | <ul style="list-style-type: none"> • Pre-treatment • ORP monitor/controller • Turbidity monitor | <ul style="list-style-type: none"> • UV system, feed or permeate • Energy recovery (\$98C and smaller) • PLC with 10" Touchscreen |
|---|--|--|

Ordering Information

Model No.	System Capacity			Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPM	GPD	m ³ /day	Qty.	Size (Dia.xL)	Inlet	Perm.	Conc.	Length	Depth	Height	
S-24A	1.5	2,000	6	2	4 x 40	¾	¾	¾	100/254	36/92	72/183	1200/545
S-34A	2	3,000	11	3	4 x 40	¾	¾	¾	100/254	36/92	72/183	1285/585
S-44A	3	4,000	15	4	4 x 40	1½	¾	1½	100/254	36/92	72/183	1375/625
S-64B	4	6,000	23	6	4 x 40	1½	¾	1½	134/340	36/92	72/183	1685/765
S-28B	5	7,200	27	2	8 x 40	1½	¾	1½	134/340	44/112	72/183	1805/820
S-38A	8	11,520	44	3	8 x 40	2	¾	2	134/340	44/112	72/183	3550/1610
S-48B	10	14,400	55	4	8 x 40	2	1	2	134/340	44/112	72/183	3790/1720
S-68B	15	21,600	82	6	8 x 40	2	1½	2	134/340	44/112	72/183	4070/1845
S-98C	24	34,560	130	9	8 x 40	3	1½	3	174/442	44/112	72/183	5760/2651
S-128F	32	46,080	174	12	8 x 40	3	2	3	300/762	44/112	72/183	7330/3325
S-188F	47	67,680	256	18	8 x 40	6	2½	6	300/762	44/112	72/183	9475/1575
S-248F	63	90,720	343	24	8 x 40	6	2½	6	300/762	44/112	72/183	12010/5445
S-308F	80	115,200	436	30	8 x 40	6	3	6	300/762	44/112	72/183	13950/6330

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
 - Based on 35,000 ppm seawater at 77°F (25°C). Recovery in the range of 10-40% depending on the system size.
 - Operating pressure 800-1000 psi (57-71 kg/cm²).
 - Seawater intake and supply pump to bring water to the system are not included. Beach well intake recommended.
- Please add our voltage codes to the end of the model number when ordering:** Example: S-14A-236 = 220/230v / 3 ph / 60 hz
- | | |
|--|--|
| Voltage Codes: <ul style="list-style-type: none"> • 236 = 220 or 230v/ 3ph/ 60hz • 436 = 460 or 480v/ 3ph/ 60 Hz | <ul style="list-style-type: none"> • 235 = 220v/3ph/50hz • 335 = 380v/3ph/50 Hz Single Phase Not Available |
|--|--|



APPLIED[®] SYSTEMS USA

Series WMF – 2,200 to 20,000 GPD Wall Mount UF Systems

Ultrafiltration Water Purification

Designed to produce clean, purified water from tap or well water, these wall-mounted systems use high efficiency ultrafiltration membranes. The filtered product water is used in commercial and residential applications such as water stores, RO pretreatment, whole house, laboratories, bottled water and other similar applications.

Key Features

- Over 30 years of experience is reflected in our quality
- Fine filtration to 0.02 microns for bacteria, viruses and turbidity treatment
- Low operating pressure and high efficiency
- Reliable and durable UF Membranes for high membrane integrity
- Compact, heavy duty, powder coated frame
- Factory tested to ensure trouble-free operation
- Simple installation and automatic operation



Standard Equipment

- Hollow fiber ultrafiltration membranes
- PVC membrane housings/vessels
- Liquid filled system pressure gauge
- Corrosion resistant powder coated durable steel frame
- Boxed and palletized for shipment
- Electric actuated control valves
- Automated system controller
- Inlet isolation valve

Controller for Automatic Operation

Controller Features:

- Simple operation, easy to use
- Automatic operation including membrane backwash/cleaning
- Manual backwash button

Indicator Lights:

- In service
- Backwash flush clean mode

Model No.	System Capacity		Membrane Elements		Line Size Inlet, Filtrate, Drain (NPT)	System Dimensions (in/cm)		
	GPD	m ³ /day	Qty.	Size (Dia.×L)		Length	Depth	Height
WMF-22521A-116	2,200	8	2	2.5 × 21	½"	28/71	12/30	26/66
WMF-42521A-116	4,300	16	4	2.5 × 21	½"	35/89	12/30	26/66
WMF-24A-116	13,000	50	2	4.0 × 40	¾"	29/73	12/30	52/132
WMF-44A-116	22,000	83	4	4.0 × 40	1"	36/91	12/30	52/132

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
- **Capacity Basis:** 24 hrs/day
- **Systems rated at:** 77°F (25°C) less than 1,500 ppm total dissolved solids (TDS) city water or natural groundwater well
- **Minimum feed pressure to UF System:** 40 PSI.
- **Voltage:** 120 volts, single phase, 60 hertz. 220 volt available upon request
- System capacity changes significantly with water temperature
- Media pretreatment recommended for source water turbidity reduction, typically for well water.

Pretreatment and Post Treatment Options

System Model No.	Carbon Filter Post Treatment	UV Disinfection Post Treatment	Multi-Media Filter Pretreatment	1 Micron Filter Pretreatment	Pressure Tank
WMF-22521A-116	A725	S2Q-PA	W-MB844ET-US	A704-10-1	A612-40
WMF-42521A-116	A725	S2Q-PA	W-MB844ET-US	A704-10-1	A612-40
WMF-24A-116	A725BB	S5Q-PA	W-MB1665ET-US	A704-20-1	A612-80
WMF-44A-116	A725BB	S8Q-PA	W-MB1665ET-US	A704-20-1	A612-80

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APPLIED[®] SYSTEMS USA

Series WMZ – 1,600 to 10,000 GPD Economy WM UF Systems

Ultrafiltration Water Purification

Designed to produce clean, purified water from tap or well water, these wall-mounted systems use high efficiency ultrafiltration membranes. The filtered product water is used in residential POE/POU applications such as water stores, RO pretreatment, whole house, laboratories, bottled water and other similar applications.

Key Features

- Over 25 years of experience is reflected in our quality
- Fine filtration to 0.02 microns for bacteria, viruses and turbidity treatment
- Low operating pressure and high efficiency
- Reliable and durable UF Membranes for high membrane integrity
- Compact, heavy duty, powder coated frame
- Factory tested to ensure trouble-free operation
- Simple installation and automatic operation



Standard Equipment

- Hollow fiber ultrafiltration membranes
- PVC membrane housings/vessels
- Liquid filled system pressure gauge
- Corrosion resistant powder coated durable frame
- Boxed and palletized for shipment
- Electric actuated control valve system
- Automated system controller
- Inlet isolation valve

Controller for Automatic Operation

Controller Features:

- Simple operation, easy to use
- Automatic operation including membrane flush/cleaning
- Manual flush button

Indicator Lights:

- In service
- Flush clean mode

Model No.	System Capacity		Membrane Elements		Line Size Inlet, Filtrate, Drain (NPT)	System Dimensions (in/cm)		
	GPD	m ³ /day	Qty.	Size (Dia. x L)		Length	Depth	Height
WMZ-12521A-116	1,600	6.06	1	2.5 × 21	½"	28/71	12/30	26/66
WMZ-14A-116	10,000	37.85	1	4.0 × 40	¾"	18/46	12/30	52/132

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
- **Capacity Basis:** 24 hrs/day
- **Systems rated at:** 77°F (25°C) less than 1,500 ppm total dissolved solids (TDS) city water or similar (well)
- **Minimum feed pressure to UF System:** 40 PSI.
- **Voltage:** 120 volts, single phase, 60 hertz. 220 volt available upon request
- System capacity changes significantly with water temperature
- Media pretreatment recommended for source water turbidity reduction, typically for well water.

Pretreatment and Post Treatment Options

System Model No.	Carbon Filter Pre & Post Treatment	UV Disinfection Post Treatment	Multi-Media Filter Pretreatment	1 Micron Filter Pretreatment	Pressure Tank
WMZ-12521A-116	A725	S2Q-PA	W-MB844ET-US	A704-10-1	A612-40
WMZ-14A-116	A725BB	S5Q-PA	W-MB1665ET-US	A704-20-1	A612-80

Typical UF Systems include Sediment Prefilter and Carbon Filter

APPLIED[®] SYSTEMS USA

Series WMR – 1,600 to 10,000 GPD WM Polishing UF Systems

Ultrafiltration Water Purification – Polishing Filtration

Designed to produce clean, purified water from tap/city water, these wall-mounted systems use high efficiency ultrafiltration membranes. The filtered product water is used in residential POE/POU applications such as water stores, RO pretreatment, whole house, laboratories, bottled water and other similar applications.

Key Features

- Over 30 years of experience is reflected in our quality
- Fine filtration to 0.02 microns for bacteria, viruses and turbidity treatment
- Low operating pressure and high efficiency
- Reliable and durable UF Membranes for high membrane integrity
- Factory tested to ensure trouble-free operation
- Simple installation and automatic operation

0.02 Micron Filtration



Standard Equipment & Features

- Hollow fiber ultrafiltration membranes
- PVC membrane housings/vessels
- Liquid filled system pressure gauge
- Wall Mount Brackets
- Boxed and palletized for shipment
- Electric actuated control valve system
- Inlet isolation valve
- Automated flush cleaning system
- Simple and reliable operation
- Easy setup and operation

Model No.	System Capacity		Membrane Elements		Line Size Inlet, Filtrate, Drain (NPT)	System Dimensions (in/cm)		
	GPD	m ³ /day	Qty.	Size (Dia. x L)		Length	Depth	Height
WMR-12521A-116	1,600	6.06	1	2.5 x 21	1/2"	28/71	12/30	26/66
WMR-14A-116	10,000	37.85	1	4.0 x 40	3/4"	18/46	12/30	52/132

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
- **Capacity Basis:** Peak capacity noted for high quality source water
- **Systems rated at:** 77°F (25°C) less than 1,000 ppm total dissolved solids (TDS) city tap water
- **Minimum feed pressure to UF System:** 40 PSI.
- **Voltage:** 120 volts, single phase, 60 hertz. 220 volt available upon request
- System capacity changes significantly with water temperature
- Sediment filter pretreatment recommended for source water turbidity reduction.

Pretreatment and Post Treatment Options

System Model No.	Carbon Filter Pre & Post Treatment	UV Disinfection Post Treatment	Multi-Media Filter Pretreatment	1 Micron Filter Pretreatment	Pressure Tank
WMR-12521A-116	A725	S2Q-PA	W-MB844ET-US	A704-10-1	A612-40
WMR-14A-116	A725BB	S5Q-PA	W-MB1665ET-US	A704-20-1	A612-80

Typical UF Systems include Sediment Prefilter and Carbon Filter

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APPLIED[®] SYSTEMS USA

Series HF – Hollow Fiber Ultrafiltration (UF) Systems

10 to 3,000 GPM • Engineered Systems to 150 MGD

Advantages of Ultrafiltration

- Low fouling membrane modules
- Excellent filtration performance with high flux
- High chemical resistance and temperature tolerance for effective membrane cleaning
- Very fine nominal pore diameter (0.02 µm)
- High removal efficiency of bacteria & viruses
- Dead-end or concentrate bleed flow capabilities
- Can be periodically back washed and air scoured to improve performance and extend operating life by removing the fouling layer
- Simple, vertical, modular design allows low cost, compact systems
- UF Outside-In or Inside-Out Configuration allows for less plugging and higher solids loading, higher flow area and easier cleaning



Key Features

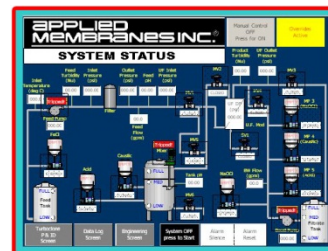
- 30 years of experience is reflected in our quality
- Heavy duty powder coated corrosion resistant frame
- SS High pressure components, SS Pump
- Touch Screen PLC Operation
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



Applied Membranes' Ultrafiltration UF Systems are Available in either Outside-In and Inside-Out Configurations.

Outside-In configuration UF Systems use DOW UF Low fouling Hydrophilic Polyvinylidene fluoride (H-PVDF) Hollow Fiber Ultrafiltration Membranes.

Inside-Out configuration UF Systems use Inge dizzer[®] XL Low fouling Hydrophilic MPES Hollow Fiber Ultrafiltration Membranes. Dizzer XL UF Membranes are provided with Multibore[®] technology for superior membrane integrity (robust membrane).



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APPLIED[®] SYSTEMS USA

Series HF – Hollow Fiber Ultrafiltration (UF) Systems

10 to 3,000 GPM • Engineered Systems to 150 MGD

Ultrafiltration (UF) Systems come complete and are skid mounted. These systems are tested before shipment.

Standard Equipment

- Self-cleaning automatic pre-filter(s)
- Hollow Fiber UF Membrane Modules
- Automatic valves for feed backwashing
- 316SS Feed pump with VFD
- Solenoid valve for air scour for O/I UF (Air compressor optional)
- Chemical injection pumps (3)
- pH transmitter
- Flow transmitters: Filtrate and Backwash
- Pressure gauges with transmitters (4)
- 316SS Backwash pump with VFD
- PLC Operator Interface

Ordering Information

Inside-Out Model No.	Outside-In Model No.	System Capacity			Membrane Elements	Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
		GPM	GPD	m ³ /hr		Inlet	Filtrate	Backwash	Length	Depth	Height	
HF60-11	HF60-11E	10	14,4000	2.3	1	1.5	1.5	1.5	60/152	30/76	76/193	1,000/454
HF60-41	HF60-41E	40	57,600	9.0	4	4	4	4	80/203	30/76	76/193	1,500/680
HF60-101	HF60-10E	100	144,000	22.7	10	4	4	4	110/279	50/76	114/290	3,000/1,360
HF60-141	HF60-14E	140	201,600	31.8	14	6	6	6	140/356	50/76	114/290	4,200/1,905
HF60-181	HF60-18E	180	259,200	40.9	18	6	6	6	180/457	50/76	114/290	5,500/2,495
HF60-221	HF60-22E	220	316,800	50.0	22	6	6	6	220/559	50/76	114/290	6,300/2,858

Optional Equipment

- Holding tanks for feed, backwash and filtrate
- Chemical tanks for chemical injection
- Air compressor for air scour
- Clean-in-Place system (CIP)

Notes

- All dimensions and weights are approximate.
- Based on 77 deg. F (25 deg. C.) operating temperature + or – 10 Deg. F (please advise if temperature is out of this range)
- Operating maximums: 75 PSI applied pressure; 20 PSI transmembrane pressure; 300 NTU of instantaneous turbidity; 200 PPM chlorine @ 200,000 PPM hours (< 50 NTU, typical)
- Capacity basis: 24 hour

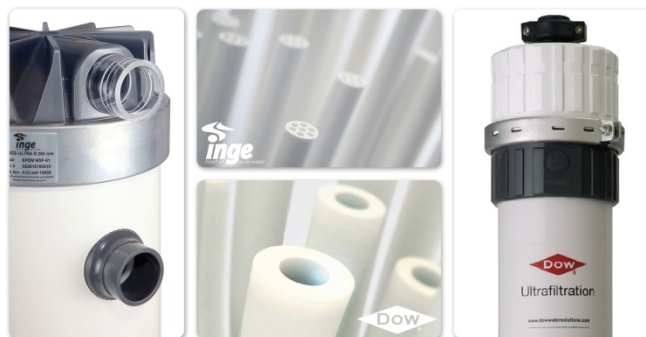
Voltage/ Ordering Information

Please add our voltage codes to the end of the model number when ordering.

Example: HF60-22E-236 = 220/230v / 3 ph / 60 hz

- Voltage Codes:
- 236 = 220 or 230v/ 3ph/ 60hz
 - 436 = 460 or 480v/ 3ph/ 60 hz
 - 235 = 220v/3ph/50hz
 - 335 = 380v/3ph/50 Hz

Single Phase Not Available



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APPLIED[®] SYSTEMS USA

Series PW – 1,800 to 9,500 GPD Packaged Water Purification

Applied Membranes offers a complete mini water purification plant fully assembled on a single skid. From pretreatment to reverse osmosis to post treatment and storage tank, the package is ready to produce high quality water for many applications. These include water stores, water jet cutting machines, pharmaceutical, manufacturing and other industrial uses.

We use high quality components and take pride in the overall quality and reliability of our systems. All systems are thoroughly tested before shipment.



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Standard Equipment:

1. Granulated Carbon Filter with Auto Backwash
2. Water Softener with Auto Regeneration
3. Reverse Osmosis System:
 - 5 Micron 20" Sediment Filter and Housing
 - Thin Film Spiral Wound Elements
 - Stainless Steel Pressure Vessels
 - Low Pressure Switch
 - Automatic Feed Water Shut-Off
 - High Pressure Pump
 - Liquid Filled Pressure Gauges (3) For Filter In/Out and System Pressure
 - Permeate and Concentrate Flowmeters
 - Concentrate Recycle Valve
 - Concentrate Recycle Flowmeter
 - TDS Monitor, Digital, Panel Mounted
 - Temperature Monitor
 - Flow Control and Back-Pressure Regulator
 - Powder Coated Skid
 - Auto System Operation with Level Controls
4. Delivery System – Complete with a Repressurization Pump, Piping, Controls and a 40 Gallon Pressurized Storage Tank
5. 1 Micron Extruded Carbon Post Filter
6. Ultraviolet System to Disinfect the Treated Water
7. Ozone System – Includes Air Preparation, Ozone Generator and Other Equipment Necessary for Ozonating the Treated Water

Ordering Information

Model No.	Product Flow		System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ³ /day	Length	Depth	Height	
PW-1500	1,800	6.8	96/244	34/86	81/206	920/420
PW-3000	3,600	13.6	96/244	34/86	81/206	1275/580
PW-4500	5,000	18.9	96/244	34/86	81/206	1375/625
PW-6000	6,500	24.6	96/244	34/86	81/206	1500/680
PW-8000	8,000	30.2	96/244	34/86	81/206	1550/703
PW-10000	9,500	35.9	96/244	34/86	81/206	1650/748

Optional Equipment

- Booster Pump
- Multimedia Filter
- ORP Monitor
- PE Storage Tanks, with Vent Filter & Level Controls
- SS Media Tank Jackets
- Crating*

**Recommended Minimum Option*

Notes

- All dimensions and weights are approximate.
- Systems rated at 77°F (25°C) using 1000ppm sodium chloride solution and 200psi (14 kg/cm²) pressure. System capacity changes significantly with water temperature. For higher TDS, a water analysis must be supplied and could result in modifications to the system.

Voltage/ Ordering Information

Please add our voltage codes to the end of the model number when ordering.

Example: PW-1500-216 = 220v / 1 ph / 60 hz

- Voltage Codes:
- **116** = 110v, 1ph, 60hz (up to L-24A only)
 - **216** = 220/230v, 1ph, 60hz
 - **215** = 220/230v, 1ph, 50hz
 - **236** = 220 or 230v/ 3ph/ 60hz
 - **235** = 220v/3ph/50hz

APPLIED[®] SYSTEMS USA

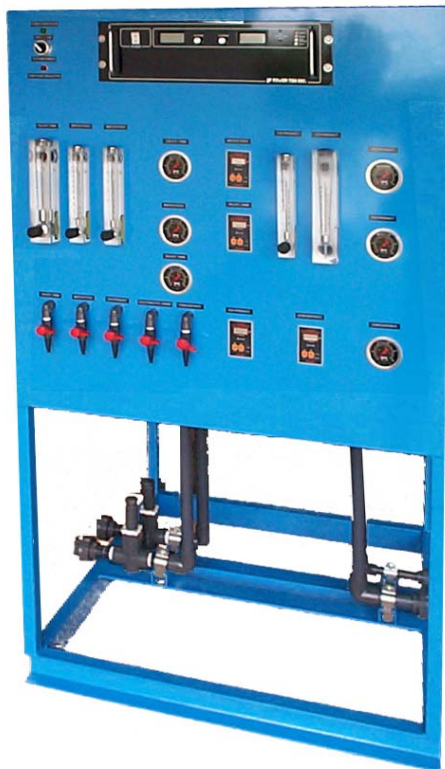
Series EDI – Electrodeionization Water Purification Systems

EDI Series Systems are produced by Applied Membranes to polish the permeate from a reverse osmosis system. The quality of the product from an AMI EDI system will depend on the incoming feed water quality to the EDI system. Product quality up to 18 megaohms is possible with these systems.

The EDI System is superior to a conventional mixed-bed deionization system both in ease of operation and maintenance. In addition, no chemicals are used for regeneration.

The EDI Systems are modular, so they can be designed for various capacities and easily expanded when required.

EDI Systems are used in applications such as ultrapure water, USP grade water, water for injectables (WFI), and removing trace quantities of contaminants.



Standard Equipment

EDI Systems come complete and are skid mounted. These systems are tested before shipment. The main components included are:

- EDI Cells
- Pressure Gauges
- Power Supply
- Resistivity Monitor
- Flow Meters
- Controller
- Flow Switch
- All Safeguards & Alarms
- Incoming water conductivity meter
- Auto incoming water diverter valves w/controls
- Auto product water diverter valves w/controls

Model No.	System Capacity		System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPM	Liters/Min	Length	Depth	Height	
EDI-1XL100	0.25 – 0.75	1 – 3	23/59	26/66	36/91	240/110
EDI-1XL200	0.5 – 1.5	2 – 6	23/59	26/66	36/91	250/114
EDI-1XL300	1.5 – 3	6 – 11	23/59	26/66	36/91	260/118
EDI-1XL400	3-7	11-27	23/59	26/66	36/91	270/123
EDI-1XL500	6-10	25-38	23/59	26/66	36/91	340/155
EDI-2XL500	12-20	45-76	23/59	26/66	36/91	520/236
EDI-4XL500	24-40	91-151	60/152	48/122	72/182	680/310
EDI-6XL500	36-60	136-227	60/152	48/122	72/182	780/354

Notes

- Final product water quality will vary with the incoming RO permeate water quality and the temperature of the water.
- The incoming RO permeate must meet the specified quality requirements.

Voltage/ Ordering Information

Please add our voltage codes to the end of the model number when ordering.

Example: EDI-1XL200-216 = 220v/1ph/60hz

EDI-1XL100 to EDI-1XL500 are available in single phase only

Voltage Codes: 116 = 110v/ 1ph/ 60hz 216 = 220 or 230v/ 1ph/ 60hz 215 = 220v/1ph/50hz

EDI-2XL500 to EDI-6XL500 are available in three phase only

Voltage Codes: • 236 = 220 or 230v/ 3ph/ 60hz • 235 = 220v/3ph/50hz
 • 436 = 460 or 480v/ 3ph/ 60 Hz • 335 = 380v/3ph/50 Hz



APPLIED[®] SYSTEMS USA

Series LC - Membrane Degasifier Systems

Membrane Contactor Degasifier Systems

AMI membrane contactor degasifier systems use Liqui-Cel[®] microporous hollow fiber membranes to remove gases from liquids. During typical operation, liquid flows over the shellside (outside) of the hollow fibers while a vacuum is applied to the lumenside (inside) of the fibers. The dissolved gas is forced through the membrane pores and is carried away by the vacuum pump.

Uses

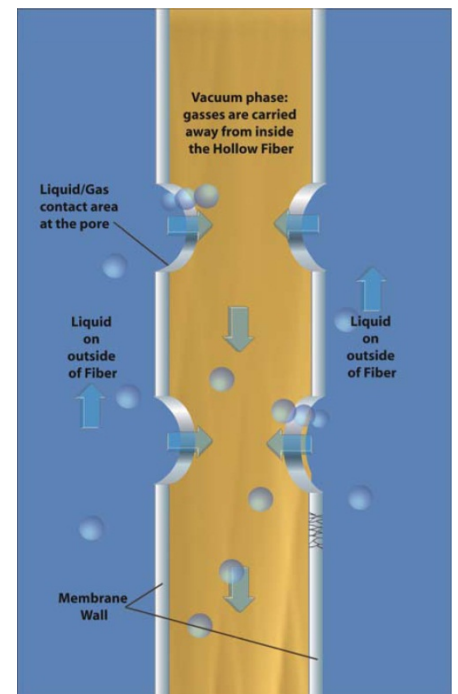
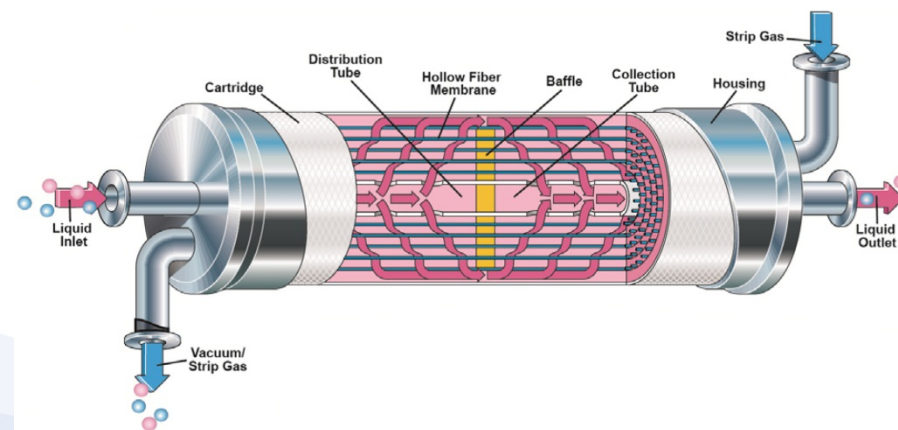
- Deoxygenation
- Decarbonation
- Carbonation
- Nitrogenation
- Hydrogenation
- Debubbling
- Hydrogen Sulfide Removal
- VOC Removal
- Osmotic Distillation
- Liquid/Liquid Extraction
- Humidification Gases
- Dealcoholization
- Ammonia Removal
- Many More

Key Features

- Over 30 years of water treatment experience is reflected in our quality
- Modular design offering flexibility for meeting future capacity
- Maximized surface area/volume for high performance and space efficiency
- Compact, heavy duty, powder coated frame
- Factory tested to ensure trouble-free operation
- Simple installation and operation

Applications

- Semiconductor/Microelectronics
- Boiler Feedwater
- Power Generation
- Flat Panel/TFT Displays
- Food & Beverage
- Pharmaceutical
- Ink Jet Inks
- Offshore injection water
- Medical/Analytical
- General Industrial
- Solar Panels
- Aquifer Storage
- Photographic
- Plating/Coatings
- Eye Care Products
- Many More



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APPLIED[®] SYSTEMS USA

Series LC - Membrane Degasifier Systems

Standard Equipment

- Liqui-Cel[®] Membrane Contactors
- Air Blower
- Inlet Air Filter
- Inlet Air Flow Meter
- Air Flow Control Valve
- Liquid Trap
- Vacuum Relief Valve
- In & Out Water Pressure Gauges
- Water Pressure Relief Valve
- In & Out Isolation Valves
- Drain Valve

Ordering Information

Model No.	System Capacity		Membrane Contactors		Line Size (NPT, Inches)	System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPM	m ³ /hr	Qty.	Size (Dia. x L)		Width	Depth	Height	
LC8X20	5-50	1.1-11	1	8" x 20"	1"	20/51	28/71	66/168	400 lbs
LC28X20	50-100	11-23	2	8" x 20"	2"	20/51	28/71	66/168	450 lbs

Optional Equipment

Please note that optional equipment will increase system dimensions and/or weight.

- pH Sensor (A225)
- PLC Option (A350)
- Flow Sensor/Transmitter (A153)
- Crating

Notes

- All dimensions and weights are approximate.
- System feed water must be pretreated down to 5 micron filtration level.
- Minimum and maximum feed flows as specified.
- Systems rated at 77°F (25°C) using RO permeate water. System capacity changes with degasification requirements. For higher degas requirements, a water analysis must be supplied and could result in modifications to the system.
- RO system is recommended for pretreatment. Contact us for additional details on your specific application.

Voltage/ Ordering Information

Please add our voltage codes to the end of the model number when ordering.

Example: 1-116 = 110v, 1 ph, 60 hz.

- Voltage Codes:
- 116 = 110v, 1ph, 60hz
 - 215 = 220/230v, 1ph, 50hz
 - 216 = 220/230v, 1ph, 60hz
 - Three Phase Not Available*

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Solar UF and RO Systems

Powered only by Solar Energy, Applied Membranes' Solar Ultrafiltration and Reverse Osmosis systems treat river and well water to produce water for drinking, agriculture and other uses.

Hundreds of these systems are currently in operation treating water with TDS of up to 10,000 PPM and product flow of up to 50 gallons/minute. Designed to produce the maximum of treated water with the lowest possible energy these systems are compact and made for outdoor use.



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APPLIED[®] SYSTEMS USA

Membrane Cleaning Systems

Membrane cleaning systems are designed to be used with any RO system to clean membranes without removing them from the system. Our cleaning systems are provided with hoses and quick disconnect fittings to allow connection to the membrane system.

Standard Equipment:

- On/Off Switch
- 316 Stainless Steel Centrifugal Pump
- 5 Micron Cartridge Filter(s)
- Filter Housing: Polypropylene for Y-CS20 & Y-CS40
316 Stainless Steel for Y-CS100 & Y-CS220
- 316 Stainless Steel Gauge
- Quick Disconnect Fittings
- Temperature Gauge
- Flow Meter
- TEFC Pump Motor
- Recycle Loop with Valve
- Solution Tank (Polyethylene) with low level tank safe-guard
- Flexible Braided Hose
- Heavy duty castor wheels

Optional Equipment

- Immersion Heater, Coated Stainless Steel
- Solution Mixer
- Hand-held Quality Monitor
- Crating*

**Recommended Minimum Option*

Model No.	PV's Cleaned in Parallel (#/Dia)	Inlet/Outlet (Inches)	Tank Size (Gals/Lit)	Flow (GPM)		Pump Size		System Dimensions (in/cm) (without casters)			Approx. Shipping Weight (Lb/Kg)
				Min	Max	GPM	PSI	Length	Depth	Height	
Y-CS20	4/2.5" or 2/4"	1	100/380	10	25	20	40-60	51/130	36/90	58.5/149	450/205
Y-CS40	4/4" or 1/8"	1½	200/760	40	50	40	40-60	64/163	39/99	76.5/194	600/270
Y-CS60	6/4" or 2/8"	1½	200/760	60	75	60	40-60	64/163	39/99	76.5/194	600/270
Y-CS100	2 to 3/8"	2	500/1895	100	125	100	40-60	84/213	55/140	90.5/230	650/295
Y-CS150	4/8"	3	500/1895	150	175	150	40-60	84/213	55/140	97.5/248	720/325
Y-CS220	4 to 6/8"	3	500/1895	220	250	220	40-60	84/213	55/140	97.5/248	790/360



Voltage/ Ordering Information

Please add our voltage codes to the end of the model number when ordering.

Example: Y-CS100-236 = 220v / 3 ph / 60 hz

- Voltage Codes:
- 236 = 220 or 230v/ 3ph/ 60hz
 - 436 = 460 or 480v/ 3ph/ 60 Hz
 - 235 = 220v/3ph/50hz
 - 335 = 380v/3ph/50 Hz
- Single Phase Not Available*

APPLIED[®] SYSTEMS USA

Extensive Experience In Specialty Systems

Applied Membranes' experience extends beyond standard water purification systems. We have supplied complete systems for dialysis, ultrapure water, boiler feed water, USP grade water, water for Injectables (WFI), water reuse, dye recovery, ground water remediation, mobile water purification systems and many more. We also provide a broad selection of Pilot Plant Testing Systems available for rent at your facility.



We also supply specialty membranes to OEMs for use in applications such as oily water treatment, electro-coat paint, dairy, sugar concentration, juice concentration, and other applications

AMI welcomes the opportunity to work with you to fulfill your specific filtration needs.

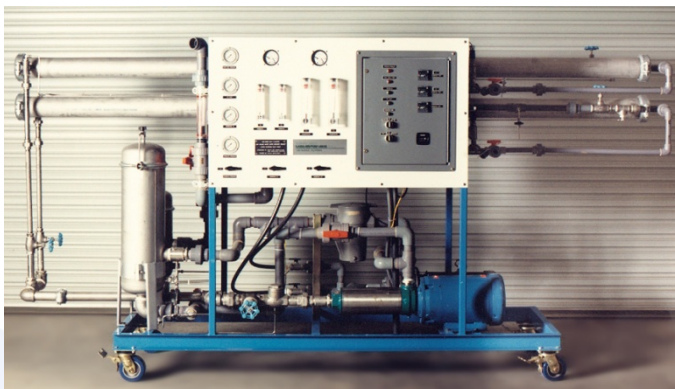
Pilot Plant Testing Systems

Pilot Plant Units Available for Leasing

AMI offers a select number of pilot systems available for rental to use for testing your application at your facility.

Pilot Plant Units Available for Purchase

Applied Membranes can engineer and build a pilot testing plant to fit your specific application. We have produced pilot plants using Reverse Osmosis, Ultrafiltration, Nanofiltration, or Microfiltration technology for testing applications such as medical, pharmaceutical, USP, dairy, electro-coat paint, and more.



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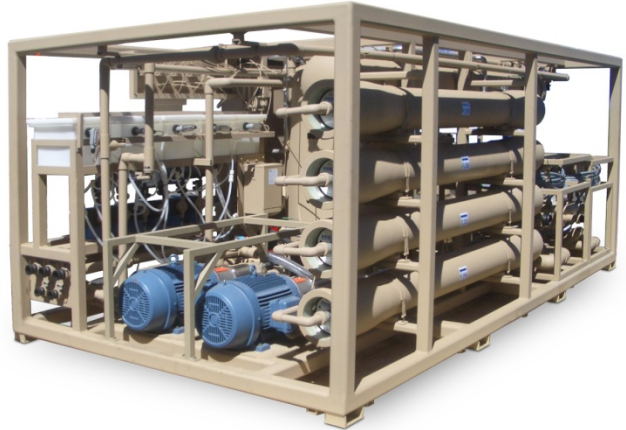
USP Systems

Our USP grade water systems, for laboratory and pharmaceutical applications, are designed to meet USP specifications.



Military Water Treatment Systems

- Military compliant water purification systems
- Containerized seawater & brackish water RO Systems
- Portable trailer-mounted RO units



Specialty Systems

16" x 60" Membrane Application



Portable Water Purification



APPLIED[®] SYSTEMS USA

System Containerization – 20 & 40 Ft. High-Cubes

ISO container with Insulation and Fine Internal and External Finishing



20 Ft. & 40 Ft. Containerization Includes:

- ISO containers 40 ft. & 20 ft. long, high-cube configurations
- Double cargo doors on one end and man entry door on side
- Interconnecting plumbing
- PVC conduit for electrical wiring and other wires contained in wire-ways
- Central connection point(s) for all plumbing connections
- Ceiling lighting
- Two-ton commercial air conditioning unit (2 Qty. per 40' container, 1 Qty per 20' container)
- Epoxy paint outside and on inside floor
- Insulation throughout including walls, cargo doors and ceiling
- White FRP interior textured wall paneling for fine finished look
- FRP flooring grid in walkways
- Corrosion resistant hardware
- Powder coated strut and painted exposed surfaces
- PVC plates under chemical pumps
- Chemical fan fume hood and box
- Local ON/OFF switches for chemical tank mixers (mixers optional)
- Double containment tubing for chemical lines
- Media tanks and permeate line manifolds in hard-piped PVC
- Commercial door locks
- Vibration isolation for HP pump(s)
- Utility water line and valve for water use inside container
- Waterproof valve and instrument tags for all major equipment, instruments and valves
- Operating manual rack holder near instrument panel
- Illuminated Exit sign



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Mineral Injection Systems

Applied Membranes mineral injection systems are designed to inject minerals in to drinking water. One to four minerals can be injected at one time. The systems are designed for flow rates from 1 to 30 gallons per minute. Larger flows are possible by adding the increased line size option below. A typical system would inject three minerals: calcium, potassium and magnesium. The injection systems meet all IBWA, FDA and health code requirements.

Key Features

- 30 of experience is reflected in our quality
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



Model No.	Qty. of Chemical Tanks	Metering Pump Size		Line Size
		GPD	PSI	
Y-CHEMSK1	1	24	60	Up to 2"
Y-CHEMSK2	2	24	60	Up to 2"
Y-CHEMSK3	3	24	60	Up to 2"
Y-CHEMSK4	4	24	60	Up to 2"

Standard Equipment: Typical equipment included is listed below

- Skid mounted on a heavy duty powder coated frame
- Adjustable Liquid metering pumps
- Solution Mixers
- Solution Tanks, Food-Grade Polyethylene
- In-Line static mixer
- TDS monitor with set-point and alarm
- Schedule 80 PVC and Polyethylene Piping
- Connect directly into main piping, 1.5" to 2" standard
- NEMA 4 Electrical Enclosure
- Low level tank safe-guard

Optional Equipment

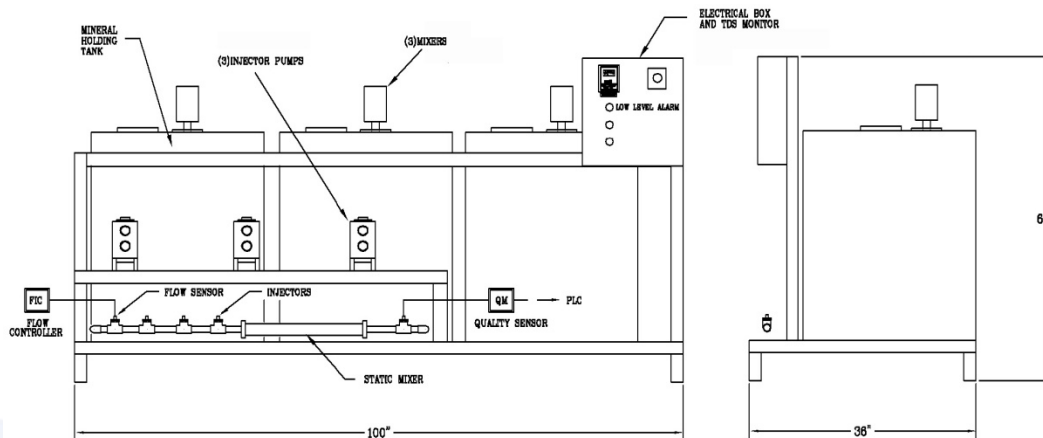
- 2.5" to 4" Line Size for higher flows
- pH monitoring
- Crating

Voltage/ Ordering Information

Please add our voltage codes to the end of the model number when ordering.

Example: Y-CHEMSK3-116 = 110v / 1 ph / 60 hz.

- Voltage Codes:
- **116** = 110v, 1ph, 60hz
 - **215** = 220/230v, 1ph, 50hz
 - **216** = 220/230v, 1ph, 60hz
 - *Three Phase Not Available*



Water Softeners Overview and Sizing Information

About Water Softeners

Hard Water contains dissolved minerals in the form of Calcium (Ca), Magnesium (Mg), and Iron (Fe). Removal of these minerals is accomplished by softening the water through an ion exchange process. As the water flows through the mineral tank, the dissolved minerals become attached to the resin, creating soft water. Over a period of time the resin will become exhausted, and the softener will regenerate using a brine solution produced from the salt in the brine tank.



Advantages to Using Water Softeners

- Prevents Hard Water Scale
- Provides Excellent Scale Prevention Pretreatment for Reverse Osmosis Systems
- Prevents Staining on Bathroom & Kitchen Fixtures as well as Dishes, Dishwasher, Washing Machine & Clothes
- Significantly Reduces Soap and Cleaning Product Consumption
- Reduces Water Heating Costs
- Prolongs Life of RO Membranes, Water Heaters, Icemakers, Dishwashers, Coffeemakers & Plumbing Fixtures

Sizing and Selection Information

Step 1: Calculate Total Hardness as GPG

Usually chemical analyses report calcium (Ca) and magnesium (Mg) in terms of parts per million (ppm) as calcium carbonate (CaCO₃). However, in some cases, the analysis is reported in terms of the elements themselves. If this is the case, proceed as follows:

Calcium (as Ca) _____ × 2.50 = _____ ppm Ca as CaCO₃. (A)

Magnesium (as Mg) _____ × 4.10 = _____ ppm Mg as CaCO₃. (B)

A _____ + B _____ = _____ Total Hardness PPM as CaCO₃

Total Hardness PPM as CaCO₃ _____ ÷ 17.1 = _____ GPG as CaCO₃.

Step 2: Calculate Cubic Feet of Resin Required

_____ Gallons per Day × _____ Total Hardness (GPG) = _____ Grains per Day

_____ Grains per Day ÷ 30,000 = _____ Cubic Feet of Resin Required

Select the appropriate softener based on the volume of resin.
When between sizes, it is recommended to select the next size up.

Note: The above calculations are based on daily regeneration and maximum resin capacity. Regeneration based on 15 lbs. of salt per cubic foot of resin.

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Single Water Softeners – Time-Based Regeneration

Single Water Softeners with a timed valve are programmed to regenerate at a specific time of day. They are usually scheduled to regenerate at 2am, when the demands for soft water are expected to be very low. These can be set to regenerate after a specific number of days, or on certain days of the week.

Features and Specifications of AMI Water Softeners

- High quality, high capacity softening resin which complies with FDA regulations for potable water applications and is NSF/ANSI-61 Certified for material safety
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day, and days until next regeneration (21+” dia. Units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42” & 48” dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature (Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)
- Regeneration: Time Clock Delayed (Pressure differential or PLC-controlled options are available upon request.)



with optional SS jacket

Model No.*	Flow Rate** (gpm)		Backwash Flow** (gpm)	Volume of Resin (cu.ft.)		Resin Tank (Dia"×H")	Brine Tank (Dia"×H")	Valve & In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft ²	15gpm/ft ²		Softening Resin (only)	Total (Incl. Underbed)				
W-S744ETS	1	4	1.3	0.50	0.60	7×44	18×33	1"	100
W-S844ETS	2	5	1.7	0.60	0.70	8×44	18×33	1"	105
W-S940ETS	2	6	2.2	0.75	0.85	9×40	18×40	1"	115
W-S1054ETS	2	7	2.7	1.25	1.45	10×54	18×40	1"	150
W-S1252ETS	4	12	4.2	1.75	2.05	12×52	18×40	1"	190
W-S1354ETS	4	14	5.3	2.00	2.30	13×54	18×40	1"	225
W-S1465ETS	5	16	5.3	3.00	3.50	14×65	24×41	1"	335
W-S1665ETS	7	21	6.5	3.50	4.00	16×65	24×41	1"	385
W-S2162ETS	13	36	13	6.00	7.00	21×62	30×48	1.5"	645
W-S2472ETS	15	47	15	8.00	10.0	24×72	39×48	1.5"	950
W-S3072ETS	24	74	25	12.5	16.5	30×72	39×48	2"	1,535
W-S3672ETS	35	95	35	17.0	22.0	36×72	39×60	2"	1,950
W-S4272ETS	48	144	50	23.0	30.0	42×72	42×60	3"	2,950
W-S4872ETS	60	188	60	30.0	43.6	48×72	60×60	3"	4,360

Notes

* Softeners are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-S744ETS-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Water Softeners are offered standard with new state of the art electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



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Single Water Softeners – Meter-Based Regeneration

Metered Water Softeners regenerate based on your water usage. Like the timered softeners, these can be programmed to regenerate at a certain time during the day, but instead of regenerating on a specific day as a timered softener does, the metered softener does not schedule regeneration until the specified volume of water has passed through the softener. These units can save water by preventing unnecessary regenerations since it does not regenerate until the resin is near its capacity.

Features & Specifications

- High quality, high capacity softening resin which complies with FDA regulations for potable water applications and is NSF/ANSI-61 Certified for material safety
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next regeneration (21+” dia. Units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42” & 48” dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)
- Regeneration: Meter Delayed



with optional SS jacket

Model No.*	Flow Rate** (gpm)		Backwash Flow** (gpm)	Volume of Resin (cu.ft.)		Resin Tank (dia"×H")	Brine Tank (dia"×H")	Valve & In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft ²	15gpm/ft ²		Softening Resin (only)	Total (Incl. Underbed)				
W-S744EMS	1	4	1.3	0.50	0.60	7×44	18×33	1"	100
W-S844SEMS	2	5	1.7	0.60	0.70	8×44	18×33	1"	105
W-S940EMS	2	6	2.2	0.75	0.85	9×40	18×40	1"	115
W-S1054EMS	2	7	2.7	1.25	1.45	10×54	18×40	1"	150
W-S1252EMS	4	12	4.2	1.75	2.05	12×52	18×40	1"	190
W-S1354EMS	4	14	5.3	2.00	2.30	13×54	18×40	1"	225
W-S1465EMS	5	16	5.3	3.00	3.50	14×65	24×41	1"	335
W-S1665EMS	7	21	6.5	3.50	4.00	16×65	24×41	1"	385
W-S2162EMS	13	36	13	6.00	7.00	21×62	30×48	1.5"	645
W-S2472EMS	15	47	15	8.00	10.0	24×72	39×48	1.5"	950
W-S3072EMS	24	74	25	12.5	16.5	30×72	39×48	2"	1,535
W-S3672EMS	35	95	35	17.0	22.0	36×72	39×60	2"	1,950
W-S4272EMS	48	144	50	23.0	30.0	42×72	42×60	3"	2,950
W-S4872EMS	60	188	60	30.0	43.6	48×72	60×60	3"	4,360

Notes

* Softeners are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-S744EMS-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Water Softeners are offered standard with new state of the art electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



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Twin Alternating Water Softeners

About Twin Alternating Water Softeners

Twin softeners are ideal for situations where uninterrupted flow of soft water is a must. One resin tank is always in service, while the other tank is in standby. When the meter determines that the resin is near its capacity, it will switch the tank in standby to be in service, and the tank containing the exhausted resin will begin regeneration and wait in standby until the other tank is ready for regeneration.



Features & Specifications

- High quality, high capacity softening resin which complies with FDA regulations for potable water applications and is NSF/ANSI-61 Certified for material safety
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next regeneration (21+” dia. Units also display current flow rate, and total volume used)
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42” & 48” dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)
- Regeneration: Meter Immediate (Pressure differential options are available upon request.)

Model No.*	Flow Rate** (GPM)		Backwash Flow** (GPM)	Volume of Resin (Cu. Ft.)				Resin Tank (2) (Dia"×H")	Brine Tank (Dia"×H")	Valve & In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm per ft²	15gpm per ft²		Softening Resin (Only)		Total (Incl. Underbed)					
				Per Tank	Total	Per Tank	Total				
W-S744EMT	1	4	1.3	0.50	1.00	0.60	1.2	7×44	18×33	1"	160
W-S844EMT	2	5	1.7	0.60	1.20	0.70	1.4	8×44	18×33	1"	170
W-S940EMT	2	6	2.2	0.75	1.50	0.85	1.7	9×40	18×40	1"	190
W-S1054EMT	2	7	2.7	1.25	2.50	1.45	2.9	10×54	18×40	1"	265
W-S1252EMT	4	12	4.2	1.75	3.50	2.05	4.1	12×52	18×40	1"	340
W-S1354EMT	4	14	5.3	2.00	4.00	2.30	4.6	13×54	18×40	1"	415
W-S1465EMT	5	16	5.3	3.00	6.00	3.50	7.0	14×65	24×41	1"	610
W-S1665EMT	7	21	6.5	3.50	7.00	4.00	8.0	16×65	24×41	1"	705
W-S2162EMT	13	36	13	6.00	12.0	7.00	14.0	21×62	30×48	1.5"	1,185
W-S2472EMT	15	47	15	8.00	16.0	10.0	20.0	24×72	39×48	1.5"	1,760
W-S3072EMT	24	74	25	12.5	25.0	16.5	33.0	30×72	39×48	2"	2,925
W-S3672EMT	35	95	35	17.0	34.0	22.0	44.0	36×72	39×60	2"	3,760
W-S4272EMT	48	144	50	23.0	46.0	30.0	60.0	42×72	42×60	3"	5,730
W-S4872EMT	60	188	60	30.0	60.0	43.6	87.2	48×72	60×60	3"	8,520

Notes

* Softeners are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-S744EMT-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Water Softeners are offered standard with new state of the art electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



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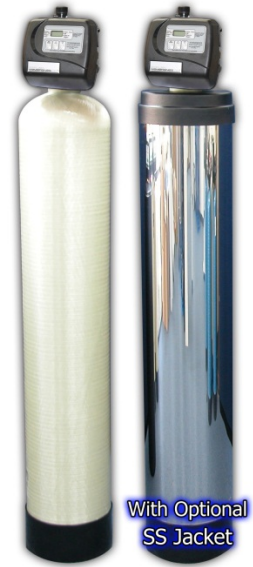
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Carbon Filters with Automatic Backwash

About Carbon Filters

These filters are used to reduce chlorine, organics, color, tannin, and objectionable tastes and odors from water. Automatic backwashing system removes the trapped contaminants within the filter bed and washes them down the drain. Carbon filtration significantly reduces the following contaminants:

- Chlorine & Chlorine By-Products such as Trihalomethanes (THMs)
- Bad Tastes and Odors
- Turbidity
- Herbicides, Pesticides & Insecticides
- Volatile Organic Chemicals (VOCs)



Features and Specifications of AMI Carbon Filters

- High quality liquid phase bituminous coal base carbon meets ANSI/NSF Standard 61 and Food Chemicals Codex Standards for drinking water applications.
(Carbon filters using California Prop. 65 tested coconut shell carbon for CA drinking water applications are available upon request.)
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+” dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42” & 48” dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. *(Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)*
- Backwash: Time Clock Delayed *(Metered, pressure-differential and PLC-controlled options are available upon request.)*

Model No.*	Flow Rate** (GPM)		Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia”xH”)	Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft ²	15gpm/ft ²		Carbon (Only)	Total (Incl. Underbed)				
W-G744ET	1	4	2.2	0.50	0.60	7×44	1”	1”	55
W-G844ET	2	5	2.7	0.60	0.70	8×44	1”	1”	60
W-G940ET	2	6	3.2	0.75	0.85	9×40	1”	1”	65
W-G1054ET	2	7	4.2	1.25	1.45	10×54	1”	1”	90
W-G1252ET	4	12	6.5	1.75	2.05	12×52	1”	1”	115
W-G1354ET	4	14	7.5	2.00	2.30	13×54	1”	1”	145
W-G1465ET	5	16	7.5	3.00	3.50	14×65	1”	1”	205
W-G1665ET	7	21	15	3.50	4.00	16×65	1”	1”	240
W-G2162ET	13	36	25	6.00	7.00	21×62	1.5”	1.5”	415
W-G2472ET	15	47	35	8.00	10.0	24×72	1.5”	1.5”	640
W-G3072ET	24	74	55	12.5	16.5	30×72	2”	2”	1115
W-G3672ET	35	106	75	17.0	22.0	36×72	2”	2”	1420
W-G4272ET	48	144	100	23.0	30.0	42×72	3”	3”	2270
W-G4872ET	60	188	120	30.0	43.6	48×72	3”	3”	3325

Notes

* Carbon filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
120V AC/60Hz with USA cord = **US** Example: W-G744ET-**US**
European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI carbon filters are offered standard with electronic programmable valves, but may be ordered with Fleck valve heads upon request.



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Multi-Media Filters for Sediment Removal

About Multi-Media Filters

These filters contain several types of media and gravel under-bedding. Multi-media filtration is a proven design concept; the coarse media layers in the top of the tank trap large particles and successively smaller particles are trapped in the finer layers of media deeper in the bed. The result is a highly efficient filtering since removal takes place throughout the entire bed. Multi-Media depth filters typically remove particles 5-15 microns in size or larger. All media included in our filters are carefully selected according to particle size, so the media retains its stratification during backwash and rinse. Automatic backwashing system removes the trapped contaminants within the filter bed and washes them down the drain.

Features and Specifications of AMI Multi-Media Filters

- Filtration media classified by Underwriters Laboratories Inc.® in Accordance with Standard ANSI/NSF 61.
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+” dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42” & 48” dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)
- Backwash: Time Clock Delayed (Metered, pressure-differential and PLC-controlled options are available upon request.)



Model No.*	Flow Rate** (GPM)		Backwash Flow** (GPM)	Volume of Media (ft³)		Resin Tank (Dia"×H")	Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft²	15gpm/ft²		Filtration (Only)	Total (Incl. Underbed)				
W-MB744ET	1	4	4.2	0.50	0.60	7×44	1"	1"	80
W-MB844ET	2	5	5.3	0.60	0.70	8×44	1"	1"	90
W-MB940ET	2	6	6.5	0.75	0.85	9×40	1"	1"	100
W-MB1054ET	2	7	7.5	1.25	1.45	10×54	1"	1"	150
W-MB1252ET	4	12	11	1.75	2.05	12×52	1"	1"	200
W-MB1354ET	4	14	15	2.00	2.30	13×54	1"	1"	250
W-MB1465ET	5	16	15	3.00	3.50	14×65	1"	1"	365
W-MB1665ET	7	21	20	3.50	4.00	16×65	1"	1"	425
W-MB2162ET	13	36	35	6.00	7.00	21×62	1.5"	1.5"	730
W-MB2472ET	15	47	45	8.00	10.0	24×72	1.5"	1.5"	1,060
W-MB3072ET	24	74	75	12.5	16.5	30×72	2"	2"	1,755
W-MB3672ET	35	106	105	17.0	22.0	36×72	2"	2"	2,280
W-MB4272ET	48	144	140	23.0	30.0	42×72	3"	3"	3,445
W-MB4872ET	60	180	175	30.0	43.6	48×72	3"	3"	5,050

Notes

- * Media filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-MB744ET-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)
- ** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI media filters are offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



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Filter-AG Filters for More Efficient Sediment Removal

About Filter-AG

Filter-Ag is a non-hydrous silicon dioxide media which can be used as highly efficient filter media for the reduction of suspended matter.

Advantages of Filter-AG

- Less pressure loss than most other media filters
- Light weight requires lower back-wash rates & reduces shipping costs
- High service rates for lower equipment costs
- High sediment reduction capacity for longer filter runs, with a substantial savings in backwash water & time out of service

Features and Specifications of AMI Filter-AG Filters

- High quality, high capacity filter media, Classified by Underwriters Laboratories Inc.[®] in Accordance with Standard ANSI/NSF 61.
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+” dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42” & 48” dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)
- Filter-Ag Limits: Maximum water temperature: 140°F/60°C
- Backwash: Time Clock Delayed (Metered, pressure-differential and PLC-controlled options are available upon request.)



Model No.*	Flow Rate** (GPM)		Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia"xH")	Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft ²	15gpm/ft ²		Filter-AG (Only)	Total (Incl. Underbed)				
W-MA744ET	1	4	2.7	0.50	0.60	7×44	1"	1"	55
W-MA844ET	2	5	3.2	0.60	0.70	8×44	1"	1"	58
W-MA940ET	2	6	4.2	0.75	0.85	9×40	1"	1"	60
W-MA1054ET	2	7	5.3	1.25	1.45	10×54	1"	1"	85
W-MA1252ET	4	12	7.5	1.75	2.00	12×52	1"	1"	110
W-MA1354ET	4	14	9	2.00	2.30	13×54	1"	1"	140
W-MA1465ET	5	16	10	2.50	3.00	14×65	1"	1"	190
W-MA1665ET	7	21	15	3.50	4.00	16×65	1"	1"	235
W-MA2162ET	13	36	25	6.00	7.00	21×62	1.5"	1.5"	405
W-MA2472ET	15	47	30	8.00	10.0	24×72	2"	2"	635
W-MA3072ET	24	74	50	12.5	16.5	30×72	2"	2"	1,095
W-MA3672ET	35	106	70	17.0	22.0	36×72	2"	2"	1,395
W-MA4272ET	48	144	100	23.0	30.0	42×72	2"	2"	2,225
W-MA4872ET	60	180	125	30.0	43.6	48×72	2"	2"	3,425

Notes

* Filter-AG filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
120V AC/60Hz with USA cord = **US** Example: W-MA744ET-**US**

European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Filter-AG filters are offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



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Pyrolox Filters for Reducing Iron, Sulfur & Manganese

About Pyrolox

A mined Ore, Pyrolox is a mineral form of manganese dioxide which effectively reduces iron, sulfur, and manganese from problem water. Pyrolox works on a principle whereby the hydrogen sulfide, iron and manganese are oxidized and trapped on the media while simple backwashing cleans the bed. No chemical regeneration is required, nothing is imparted into the drinking water and Pyrolox has a high capacity for low contaminant concentrations. Pyrolox can be used in conjunction with aeration, chlorination, ozone or other pretreatment methods for difficult applications. Chlorine or other oxidants accelerate the catalytic reaction.

Advantages of Pyrolox

- Effective reduction of iron, sulfur and manganese
- Durable material with long service life and low annual attrition of bed
- No chemical regeneration required, only periodic backwashing

Features and Specifications of AMI Pyrolox Filters

- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+” dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)
- Backwash: Time Clock Delayed (Metered, pressure-differential & PLC-controlled options are available upon request.)
- Pyrolox Operating Conditions: pH: 6.5 - 9.0; Because of its heavy weight, it is very important that Pyrolox filters are backwashed properly to insure adequate bed expansion and continued service life.



Model No.*	Service Flow Rate** (GPM)	Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia"×H")	Control Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
			Pyrolox (Only)	Total (Incl. Underbed)				
W-MFI744PET	1.3	6.5	0.5	0.6	7×44	1"	1"	110
W-MFI844PET	1.7	7.5	0.6	0.7	8×44	1"	1"	120
W-MFI940PET	2.2	11	0.7	0.8	9×40	1"	1"	135
W-MFI1054PET	2.7	13	1.2	1.4	10×54	1"	1"	215
W-MFI1252PET	3.9	17	1.7	2.0	12×52	1"	1"	295
W-MFI1354PET	4.6	20	2.0	2.3	13×54	1"	1"	360
W-MFI1465PET	5.3	25	2.5	3.0	14×65	1"	1"	460
W-MFI1665PET	7.0	30	3.5	4.0	16×65	1.5"	1.5"	635
W-MFI2162PET	12.0	45	6.0	7.0	21×62	1.5"	1.5"	1,060
W-MFI2472PET	15.7	75	7.5	9.5	24×72	2"	2"	1,440

Notes

- * Pyrolox filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-MFI744PET-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)
- ** 5 gpm per sq. ft. of media is the best design condition for filtration. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Pyrolox filters are offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



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Manganese Greensand Filters for Iron Reduction

About Manganese Greensand

Manganese Greensand is formulated from a glauconite greensand which is capable of reducing iron, manganese and hydrogen sulfide from water through oxidation and filtration. When the oxidizing capacity power of the Manganese Greensand bed is exhausted, the bed has to be regenerated with a weak potassium permanganate (KMnO₄) solution.

Advantages of Manganese Greensand

- Iron reduction over wide pH range
- Effective reduction of hydrogen sulfide in addition to iron and/or manganese
- No harmful effects from a chlorine feed
- Low attrition for long bed life

Features and Specifications of AMI Manganese Greensand Filters

- Manganese Greensand filtration media is Certified to ANSI/NSF Standard 61
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+” dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42” & 48” dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)
- Regeneration/Backwash*: Time Clock Delayed (Metered, pressure-differential & PLC-controlled options are available upon request.)
- Manganese Greensand Limits: Maximum water temperature: 80°F/26.7°C; pH Range: 6.2-8.5



Model No.**	Service Flow Rate*** (GPM)	Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia"xH")	Regen. Tank (Dia"xH")	Control Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
			Greensand (Only)	Total (Incl. Underbed)					
W-MF1744GET	1.3	2.7	0.50	0.60	7x44	18x33	1"	1"	85
W-MF1844GET	1.7	3.2	0.60	0.70	8x44	18x33	1"	1"	95
W-MF1940GET	2.2	4.2	0.75	0.85	9x40	18x40	1"	1"	110
W-MF11054GET	2.7	5.3	1.25	1.45	10x54	18x40	1"	1"	165
W-MF11252GET	3.9	7.5	1.75	2.00	12x52	18x40	1"	1"	225
W-MF11354GET	4.6	9	2.00	2.30	13x54	18x40	1"	1"	270
W-MF11465GET	5.3	10	2.50	3.00	14x65	27x41	1"	1"	350
W-MF11665GET	7.0	15	3.50	4.00	16x65	--	1"	1"	460
W-MF12162GET	12.0	25	6.00	7.00	21x62	--	1.5"	1.5"	795
W-MF12472GET	15.7	30	8.00	10.0	24x72	--	2"	2"	1,145
W-MF13072GET	24.5	50	12.5	16.5	30x72	--	2"	2"	1,900
W-MF13672GET	35.3	70	17.0	22.0	36x72	--	2"	2"	2,490
W-MF14272GET	48.1	100	23.0	30.0	42x72	--	2"	2"	3,690
W-MF14872GET	63.0	125	30.0	43.6	48x72	--	2"	2"	5,340

Notes

* Manganese greensand filters with tank diameters up to 14" can be regenerated intermittently, and the regeneration feed is included. Filters with tank diameters of 16" and larger require continuous injection of potassium permanganate which will require a tank and feeder. The size of the injection system (sold separately) will depend on the water quality.

** Manganese Greensand filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering. 120V AC/60Hz with USA cord = **US** Example: W-MF1744ETG-**US**
European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

*** 5 gpm per sq. ft. of media is the best design condition for filtration. Backwash flow rate based on 25 psi pressure drop

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI greensand filters are offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



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Calcite Filters for Neutralizing pH of Water

About Calcite

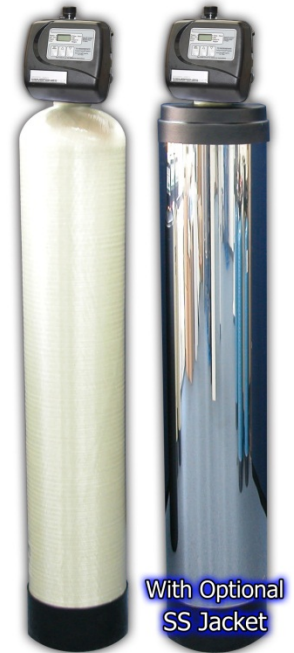
Calcite is a naturally occurring calcium carbonate media. One of the advantages of Calcite is its self-limiting property. When properly applied, it corrects pH only enough to reach a non-corrosive equilibrium. It does not overcorrect under normal conditions. Upon contact with calcite, acidic waters slowly dissolve the calcium carbonate to raise the pH which reduces potential leaching of copper, lead and other metals found in typical plumbing systems. Periodic backwashing will prevent packing, reclassify the bed and maintain high service rates. Depending on pH, water chemistry and service flow, the Calcite bed will have to be periodically replenished as the Calcite is depleted. As the Calcite's calcium carbonate neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter.

Advantages of Calcite

- Naturally occurring, inexpensive material
- Low uniformity coefficient for maximum contact
- Slower Reacting for controlled pH correction

Features and Specifications of AMI Calcite Filters

- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+” dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9”-16” diameter tanks upon request.)
- Backwash: Time Clock Delayed (Metered, pressure-differential & PLC-controlled options are available upon request.)



Model No.*	Service Flow Rate** (GPM)	Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia"×H")	Control Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
			Calcite (Only)	Total (Incl. Underbed)				
W-N744ET	1.3	2.7	0.5	0.6	7×44	1"	1"	90
W-N844ET	1.7	3.2	0.6	0.7	8×44	1"	1"	100
W-N940ET	2.2	4.2	0.7	0.8	9×40	1"	1"	110
W-N1054ET	2.7	5.3	1.2	1.4	10×54	1"	1"	175
W-N1252ET	3.9	7.5	1.7	2.0	12×52	1"	1"	225
W-N1354ET	4.6	9	2.0	2.4	13×54	1"	1"	285
W-N1465ET	5.3	10	2.6	3.1	14×65	1"	1"	375
W-N1665ET	7	15	3.6	4.1	16×65	1"	1"	490
W-N2162ET	12	25	5.9	6.9	21×62	1.5"	1.5"	820
W-N2472ET	15.7	30	8.0	10.0	24×72	2"	2"	1,200
W-N3072ET	24.5	50	12.4	16.4	30×72	2"	2"	1,965
W-N3672ET	35.3	70	17.1	22.1	36×72	2"	2"	2,595
W-N4272ET	48.1	100	23.1	30.1	42×72	2"	2"	3,855
W-N4872ET	63.0	125	30.3	43.8	48×72	2"	2"	5,565

Notes

- * Calcite filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-N744ET-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)
 ** 5 gpm per sq. ft. of media is the best design condition for filtration. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. Offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valves upon request.



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Filtration Media and Resin

Carbon, Sediment, Iron Reduction, & Support Media

Carbon Media

Model No.	Type	Mesh Size	Grade	Applications	Volume/Wt per Bag	
					cu.ft.	lbs.
YMC0830RCOAL	Coal Base	8×30	Regular	Industrial/Non-Critical	1	27.5
YMC1240RCOAL	Coal Base	12×40	Regular	Industrial/Non-Critical	1	27.5
YMC1240HCOAL	Coal Base	12×40	High Density	Large Industrial	1	33.0
YMC0830HAWCOAL	Coal Base	8×30	HD Acid Washed	Potable Water	1	33.0
YMC1240HAWCOAL	Coal Base	12×40	HD Acid Washed	Potable Water	1	33.0
YMC0830RCOCO	Coconut Shell	8×30	Regular	Beverage, Dialysis	1	27.5
YMC1240RCOCO	Coconut Shell	12×40	Regular	Beverage, Dialysis	1	27.5
YMC1240RCOCO65*	Coconut Shell	12×40	Regular, Prop 65 Tested	Beverage, Dialysis	1	27.5
YMC1240AWCOCO	Coconut Shell	12×40	Acid Washed	Beverage, Dialysis	1	27.5

*YMC1240RCOCO65 Prop 65 Tested Carbon may be subject to minimum orders depending on stock and availability.
All Carbons are also available in 1100 lb. super sacks.

Sediment Filtration Media

Model No.	Description	Application	Volume (Cu. Ft.)	Weight (Lbs.)
YMFAG	Filter Ag	Sediment Removal	1	25
YMS20S	Silica Sand, #20	Sediment Removal	1	100
YMS4555	Filter Sand, 0.45-0.55 mm, 40-30 Mesh	Sediment Removal	1	100
YMG3040	Garnet, #30-40, 0.35 mm	Sediment Removal	0.38	50
YMA89	Anthracite, 0.8-0.9 mm, 10x20 Mesh	Sediment Removal	1	50
YMA1720	Anthracite, 1.7-2.0 mm, 4x12 mesh	Sediment Removal	1	50

Iron, Manganese, and H₂S Reduction Media

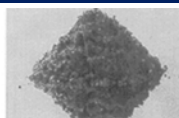
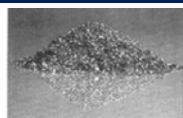
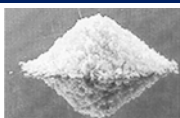
Model No.	Description	Application	Volume (Cu. Ft.)	Weight (Lbs.)
YMMNGS	Manganese Greensand	Iron Removal	1.00	85
YMP2040	Pyrolox 8x20 Mesh, 0.51 mm	Iron Removal	0.40	50
YMKDF55	KDF-55	Chlorine Reduction	0.33	57
YMKDF85	KDF-85	Fe, H ₂ S Reduction	0.33	57
YFMBIRM	Birm	Iron Removal	1.00	44
YMMTM	MTM	Iron Removal	1.00	45

Acid Neutralization Media

Model No.	Description	Application	Volume (Cu. Ft.)	Weight (Lbs.)
YMCAL	Calcite	Raise pH of Water	0.55	50

Support Media

Model No.	Description	Volume (Cu. Ft.)	Weight (Lbs.)
YMGRVL11618-50	Gravel, 1/16" x 1/8", #6	0.5	50
YMGRVL1418-50	Gravel, 1/4" x 1/8"	0.5	50
YMG812	Garnet, #8-12, 1.5 mm	0.36	50



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Ion Exchange Resins

DOWEX™ Ion Exchange Resin

Model No.	Description	Qty. Per Container		Exchange Capacity eq/l (kgr/ft3)
		Volume (cu.ft.)	Approx. Wt. (lbs)	
HCRSSBAG	Strong Acid Cation Exchange Resin for Residential Softening Applications, 6% Crosslinked, DOWEX HCR-S/S, Na ⁺ Form	1	25	1.9 (41.5)
HCR	Strong Acid Cation Exchange Resin for Softening and Demineralization Applications, 8% Crosslinked, DOWEX HCR-S, Na ⁺ Form	5	255	2.0 (43.7)
MARATHONCH	Strong Acid Cation Exchange Resin For Softening and Demineralizing Applications, DOWEX MARATHON C, H ⁺ Form	5	250	1.8 (39.3)
MARATHONAOH	Strong Base Anion Exchange Resin For Demineralization Applications, DOWEX MARATHAN A, OH ⁻ Form	5	200	1.0 (21.9)
MARATHONMR3	Mixed Ion Exchange Resin for Demineralization, 1:1 by Equivalent, DOWEX MARATHON MR-3, OH ⁻ & H ⁺ Form	5	210	OH ⁻ : 1.0 (21.9) H ⁺ : 1.9 (41.5)

ResinTech Ion Exchange Resins

Model No.	Description	Qty. Per Container		Exchange Capacity, (meq/L)
		Volume (cu.ft.)	Approx. Wt. (lbs)	
Softening Resins (Strong Acid Cation)				
CGS	High Capacity Gel Type Cation Resin For Softening/Deionization Applications, Na Form	1	51	1.9
CG8	Industrial Grade High Capacity Cation Resin for Softening/Deionization Applications, 8% Crosslink, Na Form	1	52	1.9
CG8-H	Industrial Grade High Capacity Cation Resin for Softening/Deionization Applications, 8% Crosslink, H Form	1	50	1.8
Weak Acid Cation Resins				
WACG	Weak Acid Gel - Dealkalization/Chemical Processing (H Form)	1	47	> 4.00
Strong Base Anion Resins				
SBG1P	Type One Porous Gel - Deionization/Mixed Beds (Cl Form)	1	43	> 1.25
SBG1P-OH	Strong Base Acrylic Type One - Deionization Systems (OH Form)	1	41	> 1.00
SBG1	Strong Base Type One Gel - Anion Removal/Deionization (Cl Form)	1	44	> 1.45
SBG1-OH	Strong Base Type One Gel - Deionization/Mixed Beds (OH Form)	1	41	1.15
SBG2	Strong Base Type Two Gel - Anion Removal/Deionization (Cl Form)	1	44	> 1.45
SBG2-HP	SBG2 - Drinking Water Grade (Cl Form)	1	44	> 1.45
SBG2-OH	Strong Base Type Two Gel - Dealkalization/Deionization (OH Form)	1	42	> 1.3
Mixed Bed Resins (Regenerated)				
MBD-10	Mixed Bed resin, RSO ₃ H ⁺ (Gel) and R ₄ N ⁺ OH ⁻ (Type One Gel)	1	43	Cation: 1.95 Anion: 1.40
MBD-15-NG	Mixed Bed Resin - General Purpose (Nuclear Grade)	1	43	Cation: 1.95 Anion: 1.25
MBD-15-SC	Mixed Bed Resin - Semiconductor Grade	1	43	Cation: 1.95 Anion: 1.25
Specialty Resins				
SIR-200	Chelating Resin - Mercury Removal (H Form)	1	41	1.10
SIR-22P-HP	High Porosity Gel Type 1 - Organic Trap (Cl Form)	1	41	n/a
SIR-100-HP	Anion Exchange Resin - Nitrate Selective (Cl Form)	1	42	0.85
SIR-110-HP	Anion Exchange Resin - Nitrate & Perchlorate (Cl Form)	1	43	0.60
SIR-300	Chelating Resin - Heavy Metals Removal (Na Form)	1	43	> 1.10
SIR-900	Absorbent - Arsenic, Fluoride & Lead	1	47	1.40

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Media Filtration Components

Fleck Residential Control Valves

Fleck controls are available with the following options upon customer request:

- 7 or 12 Day Timers, Electronic timer, Metered, Pressure Differential, and Other Regeneration Methods
- Hot Water
- No Hard Water Bypass
- Manual Operation
- Bypass Valve
- Service Valve Operator
- Up-Flow Regeneration

5600 Series Valves

Typical Applications: Water Softeners 6" – 12" Diameter, Filters 8" – 10" Diameter.

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 20 gpm
- Peak (25 psi drop): 26 gpm
- Max Backwash (25 psi drop): 7 gpm
- Valve Material: Noryl
- ¾" In/Out Connections
- 2½" – 8 NPSM Mounting Base
- 1600 Brine System (softener)
- Hard Water Bypass
- NSF Standard 44 Certified
- UL Registered Components

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS56BXAAS03	Softener	7 Day timer	n/a
YVS56CAAAS03	Softener	Meter Delay, Std. ¾"	125-2,125 Gal.
YVF56BXAAS03	Filter	7 Day Timer	n/a
YVS56UAADS03	Softener	SXT Electronic Meter ¾"	1-9,999 Gal
YVS56UXADS03	Softener	SXT Electronic Timer	--
YVF56UXADS03	Filter	SXT Electronic Timer	--

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 3 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 7 gpm).



2510 Series Valves

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 19 gpm
- Peak (25 psi drop): 24 gpm
- Max Backwash (25 psi drop): 17 gpm
- Valve Material: Fiber-Reinforced Polymer
- 1" In/Out Connections
- 2½" – 8 NPSM Mounting Base
- 1600 Brine System (softener)
- Hard Water Bypass
- Typical Applications:
 - Softeners 6" – 16" Dia.
 - Filters 8" – 16" Dia.

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS25AXBAS07	Softener	12 Day Timer	n/a
YVS25CABAS07	Softener	Meter Delay, Std. ¾"	125-2,125 Gal.
YVS25DABAS07	Softener	Meter Delay, Ext Range ¾"	625-1,0625 Gal
YVF25AXBAS07	Filter	12 Day timer	n/a
YVS25MABDS07	Softener	SXT Electronic Meter ¾"	1-9,999 Gal.
YVS25LXBDS07	Softener	SXT Electronic Timer	n/a
YVF25LXBDS07	Filter	SXT Electronic Timer	n/a

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 7 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 15 gpm).



2750 Series Valves

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 26 gpm
- Peak (25 psi drop): 33 gpm
- Max Backwash (25 psi drop): 25 gpm
- Valve Material: Lead-Free Brass
- 1" In/Out Connections
- 2½" – 8 NPSM Mounting Base
- 1600 Brine System (softener)
- Hard Water Bypass
- Typical Applications:
 - Softeners 10" – 24" Dia.
 - Filters 10" – 21" Dia.

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS27AXXAS07	Softener	12 Day Timer	n/a
YVS27CAXAS07	Softener	Meter Delay, Std. ¾"	310-5,270 Gal.
YVS27DBXAS07	Softener	Meter Delay, Ext Range 1"	1,550-26,350 Gal
YVF27AXXAS07	Filter	12 Day timer	n/a
YVS25MABDS07	Softener	SXT Electronic Meter ¾"	1-9,999 Gal.
YVS25LXBDS07	Softener	SXT Electronic Timer	n/a
YVF25LXBDS07	Filter	SXT Electronic Timer	n/a

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 7 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 25 gpm).



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Media Filtration Components

Fleck Commercial Control Valves

2850 Series Valves

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 51 gpm
- Peak (25 psi drop): 66 gpm
- Max Backwash (25 psi drop): 49 gpm

- Valve material: Lead-Free Brass
- 1½" In/Out Connections
- 4" – 8 UN Mounting Base
- 1700 Brine System (softener)
- Hard Water Bypass

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS28AXXAS25	Softener	12 Day Timer	n/a
YVS28CBXAS25	Softener	Meter Delay, Std. 1"	310-5,270 Gal.
YVS28DCXAS25	Softener	Meter Delay, Ext Range 1.5"	3,125-53,125 Gal
YVF28AXXAS25	Filter	12 Day timer	n/a
YVS28MBXDS25	Softener	SXT Electronic Meter 1"	1-9,999 Gal.
YVS28LXXDS25	Softener	SXT Electronic Timer	n/a
YVF28LXXDS25	Filter	SXT Electronic Timer	n/a



- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 25 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 45 gpm).

3150 Series Valves

Flow Rates: (50 PSI Inlet) – For Top Mount

- Continuous (15 psi drop): 95 gpm
- Peak (25 psi drop): 124 gpm
- Max Backwash (25 psi drop): 105 gpm

- Valve material: Lead-Free Brass
- 2" NPTF In/Out Connections
- 4" – 8 UN Mounting Base
- 1800 Brine System (softener)
- Hard Water Bypass

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS31AXXAS55	Softener	12 Day Timer	--
YVS31CBXAS55	Softener	Meter Delay, Std. 1"	1,250-21,250 Gal.
YVS31DCXAS55	Softener	Meter Delay, Ext Range 1.5"	6,250-106,250 Gal.
YVF31AXXAS55	Filter	12 Day Timer	--



- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 55 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 100 gpm).

3900 Series Valves

Flow Rates: (50 PSI Inlet) – For Top Mount

- Continuous (15 psi drop): 250 gpm
- Peak (25 psi drop): 325 gpm
- Max Backwash (25 psi drop): 100 gpm

- Valve Material: Lead-Free Brass
- 3" NPT In/Out Connections
- 6" – 8 Threaded or Flanged
- 1800 Brine System (softener)
- Hard Water Bypass

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS39AXXAS99	Softener	12 Day Timer	--
YVS39CEXAS99	Softener	Meter Delay, Std. 3"	3,750-63,750 Gal.
YVS39DEXAS99	Softener	Meter Delay, Ext Range 3"	18,750-318,750 Gal.
YVS39GXXAD99	Softener	Twin Alternating- Lead	Needs Remote Meter
YVS39GXXAG99	Softener	Twin Alternating- Lag	Needs Remote Meter
YVF39AXXAS99	Filter	12 Day Timer	--
YVF39CEXAS99	Filter	Meter Delay, Std. 3"	3,750-63,750 Gal.
YVF39DEXAS99	Filter	Meter Delay, Ext Range 3"	18,750-318,750 Gal.



- Valves shown 110v/60Hz; other voltages available.
- Valves shown with 100 gpm backwash flow. Other backwash flows are available (max. 100 gpm).

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Media Filtration Components

Fleck Twin Alternating & Hot Water Control Valves

9000 Series Brass Twin Alternating Softener Valves

Flow Rates: (50 PSI Inlet) 1" meter ¾" meter

- Continuous (15 psi drop): 21 gpm 18 gpm
- Peak (25 psi drop): 28 gpm 24 gpm
- Max Backwash (25 psi drop): 8.5 gpm 8.5 gpm

- Valve Material: Lead-Free Brass
- 2½" – 8 NPSM Mounting Base
- 1" In/Out Connections (¾" or 1 ¼" connections are also available)

- 1600 Brine System ¾"
- No Hard Water Bypass

AMI Model No.	Metered/Timered	Meter Capacity Range
YVS90EABAT03	Meter Immediate, Std. Range ¾"	125-1,125 Gal.
YVS90FBBAT03	Meter Immediate, Ext. Range 1"	1,550-26,350 Gal.
YVS90MABDT03	SXT Electronic Meter, ¾"	1-9,999 Gal.
YVS90MBBDT03	SXT Electronic Meter, 1"	1-9,999 Gal.

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 3 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 7 gpm).



9100 Series Noryl Twin Alternating Softener Valves

Flow Rates: (50 PSI Inlet) 1" meter ¾" meter

- Continuous (15 psi drop): 21 gpm 18 gpm
- Peak (25 psi drop): 28 gpm 24 gpm
- Max Backwash (25 psi drop): 8.5 gpm 8.5 gpm

- Valve Material: Fiber-Reinforced Polymer
- 2½" – 8 NPSM Mounting Base
- 1" In/Out Connections (¾" or 1 ¼" connections are also available)

- 1600 Brine System ¾"
- No Hard Water Bypass

AMI Model No.	Metered/Timered	Meter Capacity Range
YVS91EABAT03	Meter Immediate, Std. Range ¾"	125-1,125 Gal.
YVS91FBBAT03	Meter Immediate, Ext. Range 1"	1,550-26,350 Gal.
YVS91MABDT03	SXT Electronic Meter, ¾"	1-9,999 Gal.
YVS91MBBDT03	SXT Electronic Meter, 1"	1-9,999 Gal.

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 3 gpm backwash flow. Other backwash flows are available (max. 7 gpm).



9500 Series Brass Twin Alternating Softener Valves

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 38 gpm
- Peak (25 psi drop): 49 gpm
- Max Backwash (25 psi drop): 16 gpm

- Valve Material: Lead-Free Brass
- 2½" – 8 NPSM Mounting Base
- 1½" NPTF

- 1700 Brine System ½"
- No Hard Water Bypass
- Typical Application: 10"-24" Dia. Softener

AMI Model No.	Metered/Timered	Meter Capacity Range
YVS95ECXAT15	Meter Immediate, Std. Range 1.5"	625-10,625 Gal.
YVS95FCXAT15	Meter immediate, Ext. Range 1.5"	3,125-53,125 Gal.

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 15 gpm backwash flow. Other backwash flows are available (max. 16 gpm).



4650 Series Hot Water Residential Control Valve

- Operating Temp: 34°-110°F (1°-43°C)

Flow Rates (50 PSI Inlet):

- Continuous (15 psi drop): 20 gpm
- Peak (25 psi drop): 26 gpm
- Max Backwash (25 psi drop): 7 gpm

- Valve Material: Lead-Free Brass
- 2½" – 8 NPSM Mounting Base
- 1" NPT In/Out (¾" & 1¼" also available)
- 1600 Brine System ¾" (Softener)

- No Hard Water Bypass
- Typical Applications:
 - Softeners 6" – 12" Dia.
 - Filters 6" – 10" Dia.

AMI Model No.	Filter or Softener	Timer	Meter
YVS46BxBAS05	Softener	12 Day Timer	No Meter Option
YVF46BxBAS05	Filter	12 Day Timer	No Meter Option

- Valves shown 110v/60Hz; other voltages available.
- Valves shown with 5 gpm backwash flow. Other backwash flows are available (max. 7 gpm).



Series 1000 Remote Reset Meters for Multi-Tank Systems Using Multiple Valves

Model No.	Meter	Meter Cap. Range
YV1000-10S-*	1" Standard Range	0-5,000
YV1000-10E-*	1" Extended Range	0-25,000
YV1000-15S-*	1 ½" Standard Range	0-10,000
YV1000-15E-*	1 ½" Extended Range	0-50,000

Model No.	Meter	Meter Cap. Range
YV1000-20S-*	2" Standard Range	0-21,000
YV1000-20E-*	2" Extended Range	0-100,000
YV1000-30S-*	3" Standard Range	0-65,750
YV1000-30E-*	3" Extended Range	0-320,000

*Please add voltage code to part number when ordering. 24 = 24v 50/60Hz; 110 = 110v, 60Hz; 220 = 220v 50/60Hz Example: YV100-10S-110

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Media Filtration Components

Poly Glass & Composite Mineral Tanks

- Pressure tanks are made of high performance composite material with FRP filament winding, with complete seamless molding technology
- All thread inlet made from 30% glass filled PP provides higher strength, temperature and pressure limits versus glass filled PE
- All pressure tanks are 100% corrosion resistant
- Color: Natural color is standard, specify other color if required
- Tank base included
- Mounting: Top Mount
- Maximum operating pressure: 150 psi (1 MPa)
- Maximum operating temperature:
 - Threaded Tanks: 120°F (50°C)
 - Flanged Tanks: 150°F (65°C)
- NSF and PED (CE) Certified



Model No.	Size (Dia"×H")	Capacity (cu.ft.)	Top Opening
YTP0618-25	6×18	0.24	2.5" Threaded
YTP0735-25	7×35	0.70	2.5" Threaded
YTP0744-25	7×44	0.90	2.5" Threaded
YTP0818-25	8×18	0.52	2.5" Threaded
YTP0835-25	8×35	0.88	2.5" Threaded
YTP0844-25	8×44	1.16	2.5" Threaded
YTP0940-25	9×40	1.27	2.5" Threaded
YTP0948-25	9×48	1.58	2.5" Threaded
YTP1035-25	10×35	1.36	2.5" Threaded
YTP1040-25	10×40	1.54	2.5" Threaded
YTP1054-25	10×54	2.19	2.5" Threaded
YTP1242-25	12×42	2.55	2.5" Threaded
YTP1242-45	12×42	2.55	4.5" Threaded
YTP1252-25	12×52	2.97	2.5" Threaded
YTP1252-4	12×52	2.97	4.0" Threaded
YTP1354-25	13×54	3.68	2.5" Threaded
YTP1354-4	13×54	3.68	4.0" Threaded
YTP1447-25	14×47	3.68	2.5" Threaded

Model No.	Size (Dia"×H")	Capacity (cu.ft.)	Top Opening	Bottom Opening
YTP1447-4	14×47	3.68	4" Threaded	n/a
YTP1447-45	14×47	3.68	4.5" Threaded	n/a
YTP1465-25	14×65	5.43	2.5" Threaded	n/a
YTP1465-4	14×65	5.43	4" Threaded	n/a
YTP1665-4	16×65	6.55	4" Threaded	n/a
YTP1865-4	18×65	8.30	4" Threaded	n/a
YTP2162-4	21×62	11.0	4" Threaded	n/a
YTP2472-4	24×72	15.9	4" Threaded	n/a
YTP2472-6F	24×72	15.9	6" Flanged	n/a
YTP3072-4	30×72	25.0	4" Threaded	n/a
YTP3072-6F	30×72	25.0	6" Flanged	n/a
YTP3672-4	36×72	35.3	4" Threaded	n/a
YTP3672-6F	36×72	35.3	6" Flanged	n/a
YTP3672-6F6F	36×72	35.3	6" Flanged	6" Flanged
YTP4272-6F	42×72	46.1	6" Flanged	n/a
YTP4272-6F6F	42×72	46.1	6" Flanged	6" Flanged
YTP4872-6F	48×72	61.9	6" Flanged	n/a
YTP4872-6F6F	48×72	61.9	6" Flanged	6" Flanged

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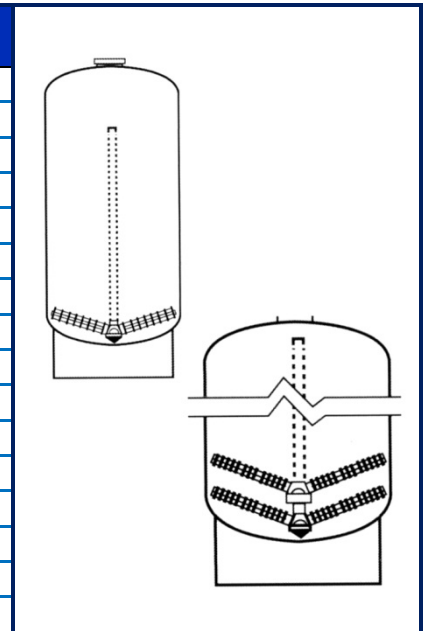
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Media Filtration Components

Distributors, Diffusers, Hub and Lateral Assemblies

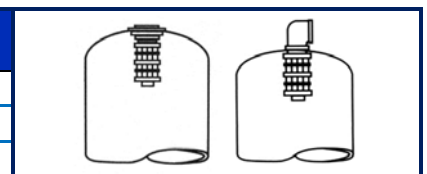
Top Mount, Riser Tube, Composite

Model No.	For Tank (Dia")	Top Opening (in)	System Connection	Flow Rate (gpm)	Laterals
YD5665	18-16	4-8	1.5"Slip	29	6
YD5666	18-21	4-8	1.5"Slip	29	6
YD5667	24	4-8	1.5"Slip	29	6
YD10848	30	4 or 6-8	1.5"Slip	104	6
YD10849	36	4 or 6-8	1.5"Slip	104	6
YD12201	24	6 Flanged	3"Slip	104	8
YD5672	30	6 Flanged	3"Slip	104	8
YD5673	36	6 Flanged	3"Slip	104	8
YD5674	42	6 Flanged	3"Slip	104	8
YD5675	48	6 Flanged	3"Slip	104	8
YD13492	63	6 Flanged	3"Slip	104	8
YD11776	30	6 Flanged	3"Slip	173	16
YD11778	36	6 Flanged	3"Slip	173	16
YD5676	42	6 Flanged	3"Slip	173	16
YD5677	48	6 Flanged	3"Slip	173	16
YD13569	63	6 Flanged	3"Slip	174	16



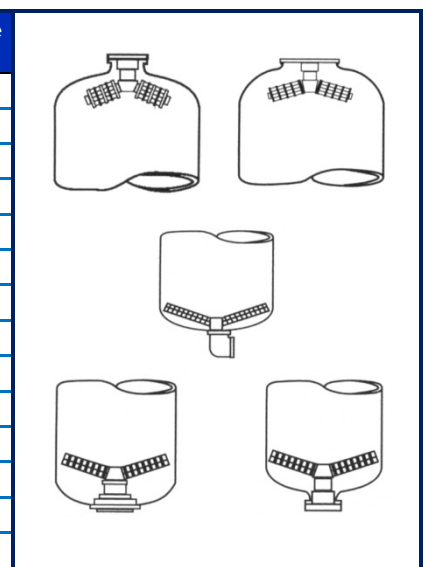
Diffusers

Model No.	For Tank (Dia")	Mouting	Top Opening	System Connection	Flow Rate (gpm)
YD5671	12-36	Top/Bottom	4"-8" Threaded	2" Slip	88
YD5679	18-48	Top	6" Flanged	3" FNPT	88
YD5700	21-36	Top	6"-8" Threaded	3" FNPT	88



Hub and Lateral

Model No.	For Tank (Dia")	Mounting	Top/Bottom Opening	Material	System Conn.	Flow Rate (gpm)
YD5680	21-63	Top	6" Flanged	Composite	3" Slip	200
YD10877	42-63	Top	16" Manway	Composite	3" Slip	200
YD5669	18-21	Bottom	4"-8" Threaded	Composite	2" Slip	100
YD5670	24	Bottom	4"-8" Threaded	Composite	2" Slip	100
YD11039	30	Bottom	4"-8" Threaded	Composite	2" Slip	100
YD11040	36	Bottom	4"-8" Threaded	Composite	2" Slip	100
YD11790	18	Bottom	6" Flanged	Composite	3" Slip	122
YD5696	21	Bottom	6"-8" Threaded	FRP	3" Slip	122
YD5678	21-24	Bottom	6" Flanged	Composite	3" Slip	122
YD5697	24	Bottom	6"-8" Threaded	FRP	3" Slip	122
YD5698	30	Bottom	6"-8" Threaded	FRP	3" Slip	122
YD5683	30	Bottom	6" Flanged	Composite	3" Slip	122
YD5699	36	Bottom	6"-8" Threaded	FRP	3" Slip	122
YD5684	36	Bottom	6" Flanged	Composite	3" Slip	122



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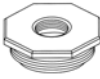
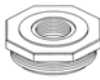
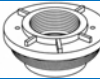
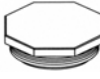
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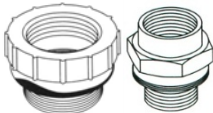
Media Filtration Components

Mineral Tank Adapters and Accessories

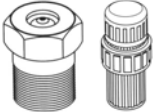
Threaded Tank Adapters - 150 psi max pressure

Model No.	Reduced To	Material	Max Temp.		Image
			°F	°C	
2.5-8" NPSM					
YTA27513	0.75" NPT	PVC	120	48	
YTA27515	1" NPT	PVC	120	48	
YTA27518	1.25" NPT	PVC	120	48	
YTA27514	1.5" NPT	PVC	120	48	
YTA27516	2.25-16"	PVC	120	48	
4-8" UN					
YTA48216	1" NPT	CPVC	150	65	
YTA482112	1.25" NPT	CPVC	150	65	
YTA48217	1.5" NPT	CPVC	150	65	
YTA48218	2" NPT	CPVC	150	65	
YTA482117	2-11.5" NPSM	CPVC	150	65	
YTA48212	2.5-8" NPSM	CPVC	150	65	
YTA48214	3-8" UN	CPVC	150	65	
YTA482111	2.375" BORED	CPVC	150	65	
6-8" UN					
YTA4125003	3" FPT	NORYL	150	65	
Threaded Closures					
YTA27511	2.5-8" NPSM	PVC	120	48	
YTA48211	4-8" UN	CPVC	150	65	
YTA26951	6-8" UN	CPVC	150	65	

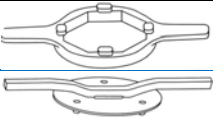
Brass Side Adapters - 150 psi max pressure

Model No.	Reduced To	Max Temp.		Image
		°F	°C	
YTA1661	0.75" NPT to 0.75" FNPT	150	65	
YTA2829	1.5" NPT to 1.5" FNPT	150	65	

Vacuum Breakers

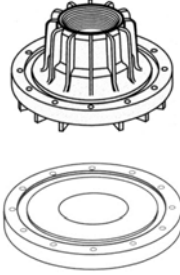
Model No.	Connection	Max Temp.		Max Pressure	Image
		°F	°C		
YTA10725	1" FNPT	150	65	150	
YTA10724	1.5" MNPT	120	48	125	

Wrenches

Model No.	Size	Image
YTA65682	4"	
YTA7229	6"	

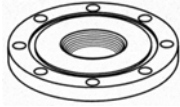
SNA Flanged Adapters

- Structural Bolt Pattern
- 150 PSI/150°F
- Kits come complete with standard o-ring and hardware
- Replacement Hardware: CPVC-YTA5310; Noryl-YTA4750

Model No.	Flange Size	Material	Adapt To	Drain	Image
YTA10659	6"	CPVC	1" NPT	NO	
YTA10660	6"	CPVC	1.5" NPT	NO	
YTA10661	6"	CPVC	2" NPT	NO	
YTA10662	6"	CPVC	3" NPT	NO	
YTA10663	6"	CPVC	4" NPT	NO	
YTA5292	6"	NORYL	3" NPT to 3" NPT	YES	
YTA5267	6"	NORYL	3" NPT to 3" NPT	NO	
YTA5295	6"	NORYL	3" NPT to 4"-8 UN	NO	
YFL10566	6"	NORYL	4"-8 UN	NO	

ANSI Flanged Adapters

- Standard Bolt Pattern
- Replacement Hardware: 4"- YTA525; 10"- YTA5754

Model No.	Flange Size	Material	Adapt To	Drain	Image
YTA5276	4"	CPVC	3" NPSM	NO	
YTA10673	4"	CPVC	2" NPT	NO	
YTA10674	4"	CPVC	3" NPT	NO	
YTA11929	10"	CPVC	4" NPT	NO	
YTA11930	10"	CPVC	6" NPT	NO	

Replacement O-Rings

Model No.	For Tank with Opening
YTA2694-120	2" Elbow
YTA2694-112	2.5" Thread
YTA2694-114	4" Thread
YTA2694-136	4" ANSI Flange
YTA2694-68	6" Thread
YTA2694-69	6" SNA Flange
YTA2694-132	10" ANSI Flange
YTA2694-131	16" MWY Flange

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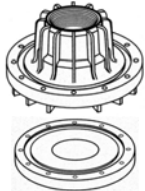
Media Filtration Components

Accessories and SS Jackets for Tanks

Flanged Closures

- SNA = Structural Type Bolt Patten, ANSI = Standard Bolt Pattern
- Kits come complete with standard o-ring and hardware


Model No.	Flange Size	Flange Type	Material
YTA5296	6"	SNA	NORYL
YTA10658	6"	SNA	CPVC
YTA5259	4"	ANSI	CPVC
YTA10472	4"	ANSI	ACRYLIC
YTA10139	10"	ANSI	CPVC



Manway Closures/Adapters

- For 16" Manway Openings
- Max. Temp 150°F
- Kits come complete with standard o-ring and hardware
- Replacement Hardware: YTA10107

Model No.	Reduced To	Material
YTA10108	2" NPT	Vinylester
YTA14644	2" NPT to 3" NPT	Vinylester
YTA10582	2" NPT	CPVC
YTA10583	3" NPT	CPVC
YTA10584	4" NPT	CPVC
YTA11294	3" NPT to 3" NPT	CPVC
YTA11295	4" NPT to 4" NPT	CPVC
YTA5294	2" NPT	Stainless

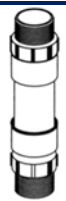


Connections and Accessories

- Kits come complete with o-ring and hardware if it is required.

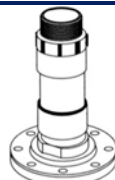
Flexible Assembly (NPT - NPT)

Model No.	Description
YTA5285	2" NPT X 2" NPT
YTA5286	3" NPT X 3" NPT




Flexible Assembly (Flanged)

Model No.	Description
YTA5239	4" Flanged to 3" NPT (CPVC) 150psi/150°F



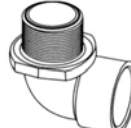
Connector

Model No.	Description
YTA5045	3" NPSM x 3" NPT (CPVC)




Elbow

Model No.	Description
YTA5201	2" NPSM to 2" Slip (CPVC) 150psi/150°F



Stainless Steel Jackets for Mineral Tanks

Model No.	For Tank Size (Dia." x Height")
YTP0940JKT	9x40
YTP0948JKT	9x48
YTP1035JKT	10x35
YTP1040JKT	10x40
YTP1054JKT	10x54
YTP1242JKT	12x42
YTP1252JKT	12x52
YTP1354JKT	13x54
YTP1447JKT	14x47
YTP1465JKT	14x65
YTP1665JKT	16x65



Caps for Stainless Steel Jackets

Sold separately - not included with jackets.

Model No.	For Tank Diameter
YTP09JCAP	9"
YTP10JCAP	10"
YTP12JCAP	12"
YTP13JCAP	13"
YTP14JCAP	14"
YTP16JCAP	16"

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Media Filtration Components

Media Regeneration - Brine Tanks, Cabinets, Feeders

Brine Tank Assemblies

- Assembled with well, lid, brine valve, and grid plate.
- Standard color is black. Available in other colors upon request.

Model No.	Size (Dia." × Height")
YBT1833ASSEMBL	18"×33"
YBT1840ASSEMBL	18"×40"
YBT2441ASSEMBL	24"×41"
YBT2450ASSEMBL	24"×50"
YBT3048ASSEMBL	30"×48"
YBT3948ASSEMBL	39"×48"
YBT3960ASSEMBL	39"×60"
YBT4260ASSEMBL	42"×60"
YBT5060ASSEMBL	50"×60"
YBT6060ASSEMBL	60"×60"



Cabinet Assemblies

- Windsor Hi-Profile Series accommodates most control valves.
- Assembly includes blow molded cabinet, one piece injection molded cover and salt lid.
- Designed to accommodate mineral tanks without bases or retaining plate.
- Features large salt port opening for easy filling.
- Standard color is almond base with black lid. Other colors available upon request.

Model No.	For Tank Size (Dia." × Height")	Salt Capacity (lbs.)	Tank Size (Inches)		
			L	W	H
YCABIN09X18	9×18	100	22.5	13.5	27.25
YCABIN09X24	9×24	125	22.5	13.5	32.50
YCABIN10X35	10×35	225	22.5	13.5	44.00



Potassium Permanganate Feeder

- Individually packaged and tested and assembled with: non-pressurized tank, injection molded cover (fastened with screws), float valve, polypropylene grid pads, riser, and overflow.
- Tank composed of blow molded polyethylene with ultraviolet inhibitor.
- Standard color is Blue. Black and Almond available upon request.
- Capacity: 30lb Potassium Permanganate and a liquid capacity of 5 gal

Model No.	Delivery Capacity (oz. of KMNO ₄)	Poly Tube Elbow Size	Gallons of Solution	Float Setting	Riser Pipe Length
YBT7179-04	2	3/8"	¾	1 ½"	11"
YBT7179-03	4	3/8"	1	4"	12 ½"
YBT7179-08	6	3/8"	1 ½	5 5/8"	12 ½"



Potassium Permanganate

Model No.: X-KMNO₄*

Potassium Permanganate Granules, sold in cases of four 5-lb. containers per case only – 20lbs total.

*Hazardous



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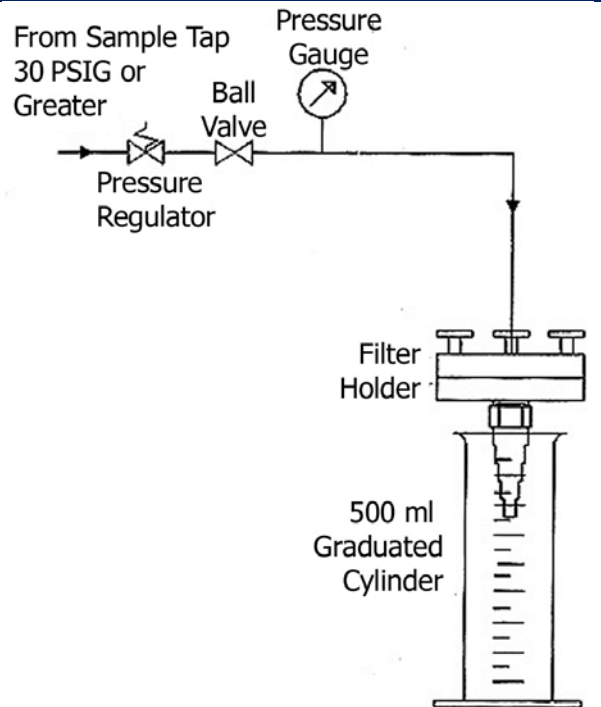
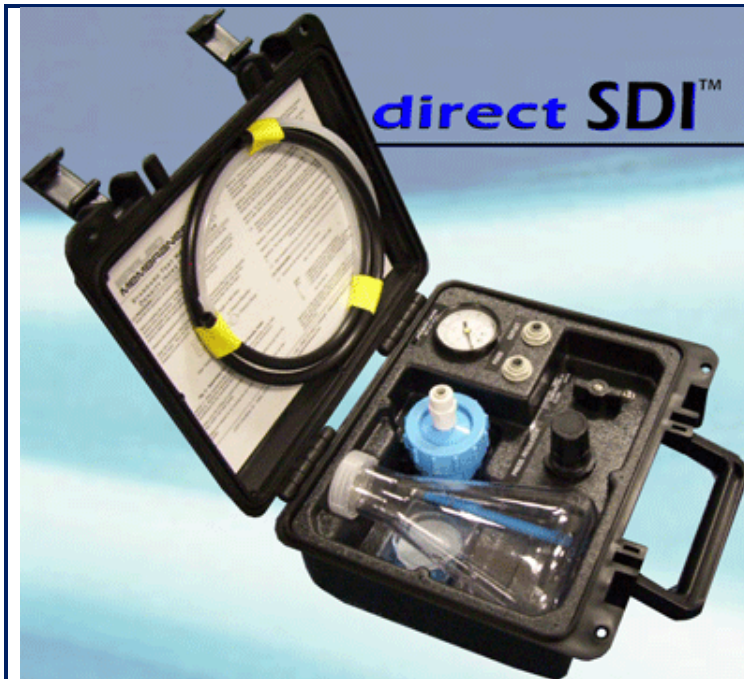


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Silt Density Index Testing

Portable SDI Test Assembly - direct SDI™



Model No. SDI-2000

Completely assembled in a portable, compact case, ready for on-site testing. Includes instructions for measuring silt density index.

Assembled with:

- Filter Holder
- Pressure Gauge
- Pressure Regulator
- Ball Valve
- Graduated Cylinder
- Thermometer
- Tubing
- Filter Tweezers

(Filters not included – sold separately. See below.)

Also Available:

- Manual SDI Kit with Millipore® brand filter holder – Model No. **SDI-2000-MIL**
(SDI-FH Millipore filter holder is pictured below)

Optional Booster Pump Accessory:

- Pump Assembly Kit for testing with less than 30 psi. Assembled with Booster Pump, Power Supply, Pressure Regulator:
- **SDI-PU:** 115-120VAC, 60Hz
- **SDI-PE:** 230VAC, 50Hz
- **SDI-PJ:** 100VAC, 50-60Hz



Filters and Spare Parts for SDI Kit

Model No.	Description
SDI-045	Filters for SDI Testing, 0.45 Micron, 47 mm, Package of 100
SDI-FH2	Filter Holder for SDI Kit (SDI-2000)
SDI-FH	Filter Holder for SDI Kit (SDI-2000-MIL)



SDI-045



SDI-FH2



SDI-FH

Detailed Silt Density Index measurement instructions and calculations are shown in the technical section of our catalog.

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Silt Density Index Testing

Portable Automatic SDI Testers

Simple SDI

- Performs SDI 5, 10 and 15 minute tests with both 100 mL and 500 mL sample size tests.
- Unattended operation. Start the test and return in 15 minutes to see the results.
- Real-time display of results including SDI, current flow rate, and elapsed time. End of test display includes SDI 5, 10 & 15 with 100 mL and 500 mL results.
- Accurate and consistent results.
- Batter powered for portability – conduct tests anywhere.
- Uses standard 47 mm membrane filters.

Each model includes a Power Supply, Battery Charger, Accessory Case, pack of 100 each .45 micron 47 mm membrane filters, Special Tweezers for handling of the membranes, and a 50 micron pre-filter.



Product Specifications

Model No.	Description
Y-SIMPLESDI-110	Portable & Automated Silt Density Index Meter, 110 VAC
Y-SIMPLESDI-220	Portable & Automated Silt Density Index Meter, 220 VAC
Spare Parts and Options	
SDI-045	Filters for Silt Density Index Testing, 0.45 Micron, 47 mm, Package of 100
K2305JJ	Pre-filter 5M inline, Omnipure
182-11001	Battery 6V 1.3 AH SLA type
182-40005	Booster pump for 110Vac, used when source water is less than 35 PSI
182-40025	Booster pump for 220Vac, used when source water is less than 35 PSI
182-30059	Pre-Filter 50m Inline
182-30050	Pre-Filter 50m Inline ¼" QC
182-11005	Power Supply/Battery Charger (110 Vac-60Hz)



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Silt Density Index Testing

EZ™ & Enhanced Automatic SDI Monitors

The EZ™ and Enhanced SDI monitors automatically and consistently monitor the silt density index of RO feedwater. Monitoring the SDI is very useful to determine fouling problems **before** the membranes need replacement. Applied Membranes, Inc. now offers an economical, effective, and easy way to monitor the SDI of the feedwater entering into the membranes. Also ask us about our manual SDI Test Assembly in stock available for immediate delivery.



Distinguishing Features:

- Automatic – Easy to Install and Operate
- Uses standard filter media
- Replacing the media is an easy 2-minute process
- Monitor housed in NEMA 4X enclosure
- Designed for permanent installation
- SDI can be taken by pushing a button
- Display equipped with LED backlight, so results can be seen in any environment
- Test pressure is controlled with an internal pressure regulator, which can accommodate inlet pressures above 1000 psi.

Product Specifications

Model No.	Description
Y-EZSDIC*	EZ SDI™ – Automatic Silt Density Index Monitor, Performs 1 test a time with disposable cartridge filters (25 Cartridges Included with System)
Y-ENHSDI*	EZ SDI-4 Enhanced SDI – Automatic Silt Density Index Monitor will perform four separate tests before filter replacement is necessary.
Y-ENHSDI-SS	Sample sequencer for EZ SDI-4 Enhanced SDI

* Analog output option available. Add "--Analog" to the end of the part number when ordering (Example: Y-ENHSDIC-Analog).

Replacement Kits

Model No.	Description
EZ-1C-2YSPK	Two-Year Spare Parts Kit for Y-EZSDIC <i>Includes (2) EZSDI-439, (1) EZSDI-498, (1) EZSDI-507, (1) EZSDI-258, (1) EZSDI-465, (1) EZSDI-112, and (1) EZSDI-902</i>
EZ-4-2YSPK	Two-Year Spare Parts Kit for Y-ENHSDI <i>Includes (2) EZSDI-439, (1) EZSDI-498, (1) EZSDI-507, (1) EZSDI-258, (1) EZSDI-465, (1) EZSDI-112, and (1) EZSDI-902</i>

Spare Parts

Model No.	Description	Qty. in Pkg.	Model No.	Description	Qty. in Pkg.
EZSDI-439	¼" Fuse 2 Amp, 250v	1	EZSDI-903	Manifold Solenoid Valve with Teflon Plunger	1
EZSDI-257	¼" ID Drain Tubing	5 Feet	EZSDI-902	Drain Solenoid Valve with Teflon Plunger	1
EZSDI-133	¼" OD Vent Tubing, 250 PSI	100 Feet	EZSDI-536	Vent Solenoid Valve with Teflon Plunger (for Y-ENHSDI)	1
EZSDI-466	Silicone O-Ring	1	EZSDI-112	Water Vent Tubing Flow Orifice	1
EZSDI-496	Disposable Filter Cartridges (EZSDIC & EHNSDI)	100	EZSDI-134	Air and Water Vent Tubing Bulkhead connector	1
EZSDI-498	Cartridge Filter Fitting (EZSDIC & EHNSDI)	1	EZSDI-256	Drain Tube Hose Barb	1

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Pocket Water Testers



HM Digital™ & Hanna® TDS, pH, & ORP Testers

TDS Pocket Testers for Testing Total Dissolved Solids in Water

Model No.	Description	Range	Brand
TDS-EZ	Pocket TDS Tester – ideal for end users	0-9990 ppm	HM Digital
TDS-3	Pocket TDS with ATC, includes case	0-9990 ppm	HM Digital
TDS-4	Pocket TDS small & light w/ATC	0-9990 ppm	HM Digital
TDS-4TM/A	Pocket TDS small & Light w/ digital therm. °C & ATC (Aquarium Packaging)	0-9990 ppm	HM Digital
AP-1	Pocket TDS Tester w/ digital temp. for ATC	0-5000 ppm	HM Digital
AP-2	Pocket Electrical Conductivity Tester w/digital temp. for ATC	0-9999 μ S	HM Digital
HI98301	Pocket TDS Tester	10-1990 ppm	Hanna
HI98302	Pocket TDS Tester	100-10,000 ppm	Hanna
HI98203	Pocket TDS Tester SalinTest for NaCl (Aquarium)	0.00-1.00 pNaCl	Hanna



TDS-EZ



TDS-3



TDS-4



TDS-4TM/A



AP-1



AP-2



HI98301, 02, & 03

pH Pocket Testers for Testing pH Levels in Water

Model No.	Description	Brand
PH-80	Economically priced water resistant pH meter measures pH (0-14) & temperature (1-80°C; 33-176°F) with auto-off, data-hold function, and low-battery indicator.	HM Digital
PH-200	Waterproof pH meter measures pH (0-14) & temperature (0-80°C; 32-176°F) with auto-off, data-hold function, and low-battery indicator.	HM Digital
HI98107	Pocket pH tester with LCD measures pH (0-14). Supplied with protective cap, calibration screwdriver & batteries. Must be calibrated with a buffer solution.	Hanna



PH-80



PH-200



HI98107

ORP Pocket Testers for Testing Oxidation Reduction Potential (Redox) in Water

Model No.	Description	Range	Brand
ORP-200	Pocket ORP with temperature display, waterproof, 1 mV Resolution, ± 2 mV accuracy	-999 to +1000 mV	HM Digital
HI98201	Pocket ORP Tester, 1 mV Resolution, ± 5 mV accuracy	± 999 mV	Hanna



ORP-200



HI98201

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Pocket Water Testers



HM Digital™ & Hanna® Combo & Temperature Meters

Multi-Measurement Pocket Testers – Combo Meters for Water Quality Testing

Model No.	Description	Brand
COM-100	Waterproof EC/TDS/Temp Combo Meter Measures: <ul style="list-style-type: none"> • Electrical Conductivity, Range: 0 - 9990 μS; 0 - 9.99 mS • TDS, Range: 0 - 8560 ppm (mg/L); 0 - 8.56 ppt • Temperature, Range: 0-80 $^{\circ}$C; 32-176 $^{\circ}$F 	HM Digital
HI98129	Waterproof pH/Conductivity/TDS Tester Measures: <ul style="list-style-type: none"> • pH, Range: 0.00 to 14.00 pH • EC, Range: 0 to 3999 μS/cm • TDS, Range: 0 to 2000 ppm • Temperature, Range: 0.0 to 60.0$^{\circ}$C / 32 to 140.0$^{\circ}$F 	Hanna
HI98130	Waterproof pH/Conductivity/TDS Tester Measures: <ul style="list-style-type: none"> • pH, Range: 0.00 to 14.00 pH • EC, Range: 0.00 to 20.00 mS/cm • TDS, Range: 0.00 to 10.00 ppt • Temperature, Range: 0.0 to 60.0$^{\circ}$C / 32 to 140.0$^{\circ}$F 	Hanna
HI98121	Waterproof Combo pH/ORP/Temp Tester With Automatic Temperature Compensation & Automatic Calibration Measures: <ul style="list-style-type: none"> • ORP, Range: \pm1000 mV • pH, Range: -2.00 to 16.00 pH • Temperature, Range: -5.0 to 60.0$^{\circ}$C / 23.0 to 140.0$^{\circ}$F 	Hanna

COM-100
HI98129 & HI98130
HI98121

Pocket Thermometers for Checking Water Temperature

Model No.	Description	Range	Brand
TM-1	Industrial Grade Digital $^{\circ}$ F/ $^{\circ}$ C Thermometer, SS Probe w/ 20" Cable, \pm 1 $^{\circ}$ C Accuracy, 0.1 $^{\circ}$ F/ $^{\circ}$ C Resolution, Case Included	-58 to 482 $^{\circ}$ F -50 to 250 $^{\circ}$ C	HM Digital
HI98502	Checktemp® Fahrenheit Electronic Digital Thermometer, \pm 0.5 $^{\circ}$ F Accuracy, 0.1 $^{\circ}$ F Resolution	-58.0 to 302.0 $^{\circ}$ F	Hanna
HI98501	Checktemp® Celsius Electronic Digital Thermometer, \pm 0.3 $^{\circ}$ C Accuracy, 0.1 $^{\circ}$ C Resolution	-50.0 to 150.0 $^{\circ}$ C	Hanna
HI98510	Checktemp®1 Fahrenheit Pocket Thermometer, SS Probe with 1m (3.3') cable, \pm 0.5 $^{\circ}$ F Accuracy, 0.1 $^{\circ}$ F Resolution	-58.0 to 302.0 $^{\circ}$ F	Hanna
HI98509	Checktemp®1 Celsius Pocket Thermometer, SS Probe with 1m (3.3') cable, \pm 0.3 $^{\circ}$ C Accuracy, 0.1 $^{\circ}$ C Resolution	-50.0 to 150.0 $^{\circ}$ C	Hanna
HI98510-01	Checktemp® Dip Weighted Probe Precision Thermometer, Fahrenheit, with weighted probe and 3 m (9.9') cable, \pm 0.9 $^{\circ}$ F Accuracy, 0.1 $^{\circ}$ F Resolution	-4.0 to 212 $^{\circ}$ F	Hanna



TM-1



HI98501 & HI98502



HI98509 & HI98510



HI98510-01

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Hand-Held Multi-Measurement Testers

Ultrameter II Series Multi-Measurement Testers by Myron L

Ultrameter II Series Hand-Held Testers Feature: 4-Digit Display, Auto-ranging, Adjustable ATC, Adjustable Cond./TDS Ratio, 100-Reading Memory, Low Battery Indicator, Auto-Off.

Model No.	Description	Image
4PII	<u>Measures:</u> <ul style="list-style-type: none"> Conductivity: 0-9,999 $\mu\text{S}/\text{cm}$, 10-200 mS/cm Resistivity: 10KΩ-30MΩ TDS: 0-9,999 ppm, 10-200 ppt Temperature: 32-160°F, 0-71°C 	
6PIIFC	<u>Measures:</u> <ul style="list-style-type: none"> Conductivity: 0-9,999 $\mu\text{S}/\text{cm}$, 10-200 mS/cm Resistivity: 10KΩ-30MΩ TDS: 0-9,999 ppm, 10-200 ppt Free Chlorine: 0.00-10.00 ppm pH: 0-14 ORP: $\pm 999\text{mV}$ Temperature: 32-160°F, 0-71°C 	
RPR	Replacement PH/ORP Probe for 6PIIFC Series	

TECHPRO II Series Conductivity/TDS/pH Testers by Myron L

TECHPROII Series Testers Feature: Memory storage (20 readings), Internal Sensor to prevent breakage, Auto shut-off for longer battery life, Lightweight and fits in the palm of your hand, Waterproof case.

Model No.	Measures	Image
TP1	<ul style="list-style-type: none"> Conductivity: 0-9,999 $\mu\text{S}/\text{cm}$, 10-20 mS/cm TDS: 0-9,999 ppm, 10-20 ppt Temperature: 32-160°F, 0-71°C 	
TPH1	<ul style="list-style-type: none"> Conductivity: 0-9,999 $\mu\text{S}/\text{cm}$, 10-20 mS/cm TDS: 0-9,999 ppm, 10-20 ppt pH: 0-14 Temperature: 32-160°F, 0-71°C 	
TH1	<ul style="list-style-type: none"> pH: 0-14 Temperature: 32-160°F, 0-71°C 	

Ultrameter III 9P - AHL Titration Kit by Myron L

The Ultrameter III performs in-cell conductometric titrations and provides a convenient way to determine alkalinity, hardness and LSI in the field. All required reagents and equipment are included in the 9P titration kit. Features: LSI Calculator, Autoranging, Adjustable ATC and Cond/TDS conversion ratios, 100-Reading Memory with Date & Time stamp, pH Calibration, Auto-off and Low Battery indicator.



Model No.	Measures:
9PTK	<ul style="list-style-type: none"> Conductivity: 0-9,999 $\mu\text{S}/\text{cm}$, 10-200 mS/cm in 5 autoranges Resistivity: 10 KΩ-30 MΩ TDS: 0-9,999 ppm 10-200 ppt in 5 autoranges pH: 0-14 pH ORP: $\pm 999\text{mV}$ Free Chlorine: 0.00-10.00 ppm (5<pH<9) Alkalinity Titration: 10-800 ppm Hardness Titration: 0-1710 ppm 0-100 grains LSI Titration: -10 to +10 Temperature: 0-71°C/32-160°F

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Hand-Held Multi-Measurement Testers

DS Conductivity/TDS Meters by Myron L

Model No.	Meter Type	# of Ranges	Range(s)
532T1	DS TDS Meter	3	0-50, 500, 5,000 ppm
532T2	DS TDS Meter	3	0-25, 250, 2,500 ppm
512T5	DS TDS Meter	1	0-5,000 ppm
512T10	DS TDS Meter	1	0-10,000 ppm
EP	DS Conductivity/Resistivity Meter	5	0-0.5, 5, 50, 500, 5,000 $\mu\text{M}/\mu\text{S}$; 2-30 $\text{M}\Omega$
EP-10	DS Conductivity Meter:	4	0-10, 100, 1,000, 10,000 $\mu\text{M}/\mu\text{S}$
532M1	DS Conductivity Meter:	3	0-50, 500, 5,000 $\mu\text{M}/\mu\text{S}$



pDS pH/Conductivity/TDS Meters by Myron L

Model No.	Meter Type	# of Ranges	Range(s)
T2/PH	pDS pH/TDS Meter	3	0-50, 500, 5,000 ppm; 2-12 pH
T6/PH	pDS pH/TDS Meter	1	0-5,000 ppm; 2-12 pH
EP11/PH	pDS pH/Conductivity Meter	4	0-10, 100, 1,000, 10,000 $\mu\text{M}/\mu\text{S}$; 2-12 pH



RO METER™ Reverse Osmosis Meters for Measuring Total Dissolved Solids by Myron L

Model No.	Description
RO-1	RO METER™ TDS Meter: 0-1,250 ppm (with color band), Single Range
RO-1NC	RO METER™ TDS Meter: 0-1,250 ppm (no color band), Single Range



Carrying Cases for Myron L Testers

Model No.	Description
UPP	For all digital handheld models. Small hard foam-lined protective carry case.
UCC	For all digital handheld models. Soft protective Nylon padded case with zipper closure and belt clip for hands-free mobility.
PTP	For all analog handheld models. Small hard foam-lined protective carry case.



UPP



UCC



PTP

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Chemical Test Kits and Portable Photometers

Chemical Test Kits by Hanna Instruments

Model No.	Description	Method	Approx. # of Tests	Range
HI38054	Ozone Test Kit	Checker Disc	100	0.0-2.3 mg/L
HI3812	Hardness Test Kit	Titration	100	0.0-30.0, 0-300 mg/L
HI3815	Chloride Test Kit	Titration	110	0-100, 0-1000 mg/L
HI3831F	Free Chlorine Test Kit	Colorimetric	50	0.0-2.5 mg/L
HI3824	Ammonia Fresh Water Test Kit	Colorimetric	25	0.0-2.5 mg/L
HI3847	Copper High Range Test Kit	Colorimetric	100	0.0-2.5 mg/L
HI3856	Copper Low Range Test Kit	Colorimetric	100	0.00-0.25 mg/L
HI93701-01	Free Chlorine Reagent Test Kit	DPD	100	0.00-5.00 mg/L
HI93711-01	Total Chlorine Reagent Test Kit	DPD	100	0.00-5.00 mg/mL
HI93734-01	Free & Total Chlorine, HR Reagent Test Kit	DPD	100	0.00-10.00 mg/L
HI93705-01	Silica Reagent Test Kit	LR Hetetopoly Blue	100	0.00-2.00 mg/L
HI93719-01	Hardness (MG) Reagent Test Kit	EDTA	100	0.00-2.00 mg/L
HI93720-01	Hardness & Calcium Reagent Test Kit	Calmagite	100	0.00-2.70 mg/L
HI93702-01	Copper HR Reagent Test Kit	Bicinchoninate Acid	100	0.00-5.00 mg/L
HI93746-01	Iron (Fe LR) Reagent Test Kit	TPTZ	50	0.00-1.00 mg/L
HI93721-01	Iron (Fe HR) Reagent Test Kit	Phenanthroline	100	0.00-5.00 mg/L
HI93728-01	Nitrate Reagent Test Kit	Cadmium Reduction	100	0.0-30.0 mg/L
HI93706-01	Phosphorous Reagent Test Kit	Amino Acid	100	0.0-15.0 mg/L
HI93710-01	pH Reagent Test Kit	Phenol Red	100	5.9(6.5)-8.5 pH



HI3812

HI3847



HI3815

HI3856



HI3831F

HI93734



HI3824

HI93705, HI93719, HI93720, HI93702, HI93746, HI93728, HI93706, HI93710, HI93721

Portable Photometers by Hanna Instruments

Model No.	For Testing	Range
HI96701	Free Chlorine Photometer	0.00-5.00 mg/L (ppm)
HI96711	Free and Total Chlorine Photometer	0.00-5.00 mg/L
HI96734	Free and Total Chlorine Photometer, High Range	0.00-10.00 mg/L
HI96706	Phosphorous Photometer	0.00-15.00 mg/L (ppm)
HI96738	Chlorine Dioxide Photometer	0.0-2.00 mg/L
HI96727	Color of Water Photometer	0-500 PCU
HI96747	Copper Photometer, Low Range	0.00-1.50 mg/L
HI96732	Dissolved Oxygen Meter	0.00-10.00 mg/L (ppm)
HI96719	Hardness Meter	0.00-2.00 mg/L
HI96720	Ca Hardness Photometer, Standard Method	0.00-2.70 mg/L
HI96721	Iron Photometer, High Range	0.00-5.00 mg/L
HI96728	Nitrate (as Nitrogen) Photometer	0.00-30.0 mg/L
HI96705	Silica Colorimeter	0.00-2.00 mg/L (ppm)



- CAL CHECK™
- User calibration
- Certified calibration and verification standards
- BEPS (Battery Error Prevention System)
- TIMER function
- Auto shut-off
- GLP Features

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Chemical Test Kits and Portable Colorimeters

Chemical Test Kits by Hach

Model No.	Description	Range	# of Tests
2601300	pH Color-Changing Paper Strips	0 – 14 pH	100 Strips
37633	pH Color-Changing Paper for Sewage Water	4.5 – 7.5 pH	(5) 15' Rolls (Approx. 450)
2444301	Alkalinity Test Kit	5-100 mg/L Alkalinity (P) 20-400 mg/L Total (MO) as CaCO ₃	100
144001	Chloride (Low Range) Silver Nitrate Titrant Test Kit with Low and High Test Ranges	Low: 5 - 100 mg/L Cl- High: 20 - 400 mg/L Cl-	100
223101	Chlorine (Free & Total) Powder DPD Reagent Color Disc Test Kit	0 - 3.4 mg/L	50F, 50T
2194100	Copper (Free & Total) Powder DPD Reagent Color Disc Test Kit	0 - 4 mg/L	50F, 50T
1453-00	Total Hardness (as CaCO ₃) Drop Count Titration Test Kit	1 - 30 gpg	100
145700	Hardness, Total & Calcium (as CaCO ₃) Drop Count Titration/EDTA Test Kit	1 - 20 gpg CaCO ₃	100
2291700	Hydrogen Peroxide (as H ₂ O ₂) Drop Count Titration Test Kit with Low and High Test Ranges	Low: 0.2 - 2.0 mg/L High: 1 - 10 mg/L	100
146400	Iron Color Disc Test Kit	0.1 - 5 mg/L	100
1416100	Nitrogen, Nitrate Color Disc Test Kit with Low and High Test Ranges	Low: 0.02 - 1 mg/L NO ₃ ⁻ -N High: 0.2 - 10 mg/L NO ₃ ⁻ -N	50
225001	Phosphate Test Kit, Total Ortho-/Meta- as PO ₄ ³⁻ (requires hot acid digestion) with Low, Medium and High Test Ranges	Low: 0.02- 1; Medium: 0.1- 5; High: 1-40	50 C/T**†
1455400	Silica Color Disc Test Kit with Low and High Test Ranges	Low: 1 - 40 mg/L SiO ₂ High: 20 - 800 mg/L SiO ₂	100
225100	Sulfate (as SO ₄ ²⁻) Extinction/Turbidimetric Test Kit	50 - 200 mg/L	100
2518050	Ozone AccuVac® Color Disc Test Kit	0.05 - 1.6 mg/L O ₃	25



2601300



37633



2444301



144001



2231-01



1453-00



1457-00



14161-00



14554-00



2251-00



25180-50

Hach DR 900 Portable Colorimeter Series

Part Number: 9385100

The handheld colorimeter saves time in the field by allowing quick and easy access to the most used testing methods in less than four clicks. This colorimeter is waterproof, dustproof, shock resistant, and has been drop tested for greater quality assurance. This instrument comes with an intuitive user interface, a large data store data and a built-in USB port for easy transferring of information. The handheld colorimeter also helps satisfy core testing needs by offering at least 90 of the most common testing parameters.

Combining all of these features with a push button backlit display for use in low light areas, and you have a handheld colorimeter which is field ready in every way possible, and makes testing in harsh field environments a little less challenging.



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Turbidimeter & Standard Solutions

Turbidimeter & Calibration and Buffer Solutions

Hach 2100Q Portable Turbidimeter

The 2100Q Portable Turbidimeter offers ease of use and accuracy in turbidity measurement, giving you accurate results every time.

- Easy on-screen assisted calibration and verification
- Accurate for rapidly settling samples
- Convenient data logging for up to 500 measurements
- Optical system for precision in the field



Model No.	Description	Range	Accuracy
2100Q01	Portable Turbidimeter w/ On-Screen Calibration & Verification and Data Logging.	0 - 1000 NTU	± 2 % of reading plus stray light
2100Q01USB*	2100Q Portable Turbidimeter with USB + Power Module		

* The USB+Power Module provides additional benefit by allowing the user to transfer data to a PC in XML format, transfer data to the Citizen PD-24 printer (2960100), operate the instrument on line power (100-240Vac, 50/60 HZ), charge NiMH batteries (2971304), perform firmware updates, and quickly enter Sample and User IDs with the optional barcode scanner (LZV566).

TDS Calibration Solutions by Myron L

442 Natural Water™ Standard Solution is NIST Traceable and is used in calibrating many test instruments. It is the best choice when measuring boiler and cooling water samples, city water supply, lakes, wells, etc. "442" refers to the combination of salts mixed with deionized water to comprise this standard: 40% sodium sulfate, 40% sodium bicarbonate, 20% sodium chloride. A combination of standard salts is necessary since natural water salt type and concentration can vary greatly by location.

AMI Model No.	Myron L Model No.	Calibration Value	Volume
T-TC0015	442-15Q	15ppm/23.8µS	1 Quart
T-TC0030	442-30Q	30ppm/46.7µS	1 Quart
T-TC0300	442-300Q	300ppm/445µS	1 Quart
T-TC0500	442-500Q	500ppm/731µS	1 Quart
T-TC1500	442-1500	1,500ppm/2,060µS	1 Quart
T-TC3000	442-3000	3,000ppm/3,900µS	1 Quart
T-TC30000	442-3000Q	30,000ppm/30,100µS	1 Quart



pH Buffer Solutions by Myron L

pH Buffer Solutions 4, 7 and 10 are mold inhibited and accurate to within + 0.01 pH units @ 25°C. Myron L Buffers are traceable to NIST certified pH references and are color-coded for instant identification.

AMI Model No.	Myron L Model No.	Calibration Value	Liquid Color	Volume
T-PHB4	PH4	pH 4	Red	1 Quart
T-PHB7	PH7	pH 7	Yellow	1 Quart
T-PHB10	PH10	pH 10	Blue	1 Quart



ORP Standard Test Solutions by Hanna

ORP standard solutions allow you to test the precision of ORP electrodes. For example, by immersing the electrode in HI 7020 solution, you should read within the 200 to 275 mV range (@20°C/68°F). If the reading is outside the indicated interval, clean and condition your ORP electrode in HANNA® pretreatment solution.

Model No.	Description	Volume
HI7020M	ORP Test Solution at 200/275 mV (@20°C)	230 mL bottle
HI7021M	ORP Test Solution at 240 mV (@20°C)	230 mL bottle
HI7022M	ORP Test Solution at 470 mV (@20°C)	230 mL bottle
HI7092M	Oxidizing Pretreatment Solution	230 mL bottle
HI7091M	Reducing Pretreatment Solution	230 mL bottle



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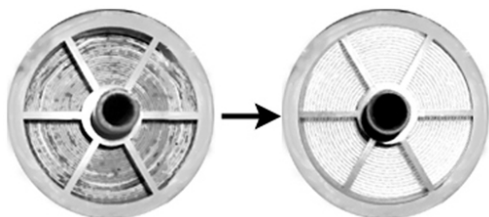


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Membrane Cleaning and Support Chemicals

Applied Membranes, Inc. has formulated its own proprietary membrane cleaning chemicals. These products are a result of over 20 years of hands-on experience of our engineers and chemists. We offer technical expertise and assistance in troubleshooting and cleaning of RO membranes to give you an optimum system performance.



Example of Fouled vs. Cleaned Membrane



AMI[®] Membrane Cleaning Chemicals

- AMI membrane cleaners are sold in powder form in 25lb containers. (Some are available in 5lb. containers as well.)
- Mixing and cleaning instructions, product specifications, and MSDS sheets are included with each container.

Model Number	To Remove	pH	For Membrane Type	Container Size
AM-11-25	Mineral Scale, Hardness, Iron, Barium Sulfate, Etc.	Acid	Thin Film (TF)	25 lb
AM-11-5				5 lb
AM-22-25	Biofilms, Organics	Alkaline	Thin Film (TF)	25 lb
AM-22-5				5 lb
AM-23-25*	Silica, Biofilms, Organics	Alkaline	Thin Film (TF)	25 lb
AM-33-25	Biofilm, Organics	Alkaline	CA/CTA	25 lb
AM-44-25	Hardness, Iron, Metal Scales	Acid	CA/CTA	25 lb
AM-55-25	Colloids(Silt), Biofilm, Organics	Alkaline	TF, CTA, MF, UF	25 lb
AM-99-25	Silica, Silicates	Acid	Thin Film (TF)	25 lb
AM-124-25	Iron Deposits	Acid	TF, CA/CTA	25 lb

Membrane Preservative and Support Chemicals

Model Number	Description	Container Size
AM-88-25	Membrane Preservative for TF, CA, MF &UF Type Membranes	25 lb
AM-88-5		5 lb
AM-225	Glycerin Lubricant and Preservative	1 Gallon
PS-77*	RO System and Membrane Disinfectant	1 Quart

* Items marked with an asterisk are classified as DOT hazardous materials and cannot be shipped by UPS or by air. Can be shipped by ground common carrier or ocean shipment only.

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Membrane Cleaning & Preserving Cartridges

Benefits of Membrane Cleaning Cartridges:

- Clean Membranes Without Removing them from Your System
- Reduce Downtime
- Maintain Your System Performance at a Higher Level
- Prolong Membrane Life by Regular Use of Cleaning Cartridge
- Designed to Fit Standard and Big Blue Filter Housings in 10" & 20" Lengths
- For use on Thin Film Membranes in Systems up to 20,000 GPD

How do they Work?

Simply exchange the pre-filter cartridge in your system with a cleaning cartridge and run the system to flush the chemical into the membranes. Allow the solution to sit in the system overnight, then flush the chemicals to drain the next morning. We recommend a monthly cleaning to obtain optimum results.



Membrane Cleaning Cartridges Ordering Information

Model Number	Contains Cleaning Chemical	To Remove	For Filter Housing Size	# of 4x40 Membranes Cleaned per Ctg.
C-C2510-A11	AM-11 (Acid)	Mineral Scale, Hardness, Iron, Barium Sulfate, Etc.	10" Standard	1
C-C2520-A11	AM-11 (Acid)		20" Standard	1 to 2
C-C4210-A11	AM-11 (Acid)		10" Big Blue	2 to 3
C-C4220-A11	AM-11 (Acid)		20" Big Blue	4 to 6
C-C2510-A22	AM-22 (Alkaline)	Biofilms, Organics	10" Standard	1
C-C2520-A22	AM-22 (Alkaline)		20" Standard	1 to 2
C-C4210-A22	AM-22 (Alkaline)		10" Big Blue	2 to 3
C-C4220-A22	AM-22 (Alkaline)		20" Big Blue	4 to 6
C-C2510-A23*	AM-23 (Alkaline)	Silica, Biofilms, Organics	10" Standard	1
C-C2520-A23*	AM-23 (Alkaline)		20" Standard	1 to 2

Membrane Preserving Cartridges

- Cartridges are loaded with a pre-measured amount of our proprietary membrane preservative AM-88 to preserve system and membranes in-place for extended periods of system shut-down.

Model Number	Contains	For Filter Housing Size	# of 4x40 Membranes Preserved per Ctg.
C-C2510-A88	Membrane Preservative (AM-88)	10" Standard	1 to 2
C-C2520-A88	Membrane Preservative (AM-88)	20" Standard	2 to 4
C-C4210-A88	Membrane Preservative (AM-88)	10" Big Blue	2 to 4
C-C4220-A88	Membrane Preservative (AM-88)	20" Big Blue	4 to 8

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Antiscalant & Antifoulant Product Support

Flocon Antiscalant water additives, used as pretreatment for Reverse Osmosis systems, are highly effective in preventing membrane scaling. Applied Membranes carries a large inventory of Flocon Antiscalant at competitive prices with technical support. Our design engineers can help you determine the proper dosing for our application. Most products in stock for immediate shipment.



Flocon 135 Antiscalant for RO Systems

Flocon 135 is an aqueous solution of a specialized phosphinocarboxylic acid, highly effective in controlling the deposition of inorganic scale forming salts on membrane surfaces.

- Excellent control of carbonate and sulphate scales for cost effective operation
- Compatible with all major membranes
- International potable water approvals
- Dispersant
- Iron tolerant

Ordering Information

Model Number	Container Size
AS-135-55	55 lb (25 Liters, 6.6 Gallons)
AS-135-500	475 lb (197.5L, 52 Gallons)

Flocon 260 Premium Antiscalant and Antifoulant

Flocon 260 is an aqueous solution of a specialized polycarboxylic acid, highly effective in controlling the deposition of inorganic scale forming salts and particulate fouling on membrane surfaces.

- Excellent control of carbonate scales, sulphate and fluoride for cost effective operation
- Effectively control both soluble and insoluble iron
- Effective against silica fouling
- Dispersant
- Compatible with all major membranes
- International potable water approvals

Ordering Information*

Model Number	Container Size
AS-260-55	55 lb (25 Liters, 6.6 Gallons)
AS-260-500	475 lb (197.5L, 52 Gallons)

**Note: Flocon 260 is classified as DOT hazardous material and is not available for shipment by UPS or air. Available for common carrier or ocean shipment only.*

Flocon 190 Antiscalant for Reverse Osmosis Systems

Flocon 190 is a solution of an organic phosphonate. Flocon 190 is highly effective in controlling the deposition of inorganic scale forming salts on membrane surfaces.

- Excellent control of carbonate and sulphate scales for cost effective operation
- Will not adversely interact with polymeric coagulant aids
- Compatible with all major membranes
- International potable water approvals

Ordering Information

Model Number	Container Size
AS-190-55	55 lb (25 Liters, 6.6 Gallons)
AS-190-500	475 lb (197.5L, 52 Gallons)

Flocon Plus N Antiscalant for Seawater Reverse Osmosis Systems

Flocon Plus N antiscalant is a high performance liquid product, highly effective in controlling the deposition of inorganic scale forming salts on seawater membrane units (SWRO).

- Excellent control of carbonate and sulphate scales for cost effective operation
- Compatible with all major membranes
- International potable water approvals
- Dispersant

Ordering Information

Model Number	Container Size
AS-PLUSN-55	55 lb (25L, 6.6 Gallons)
AS-PLUSN-500	475 lb (197.5L, 52 Gallons)

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Antiscalant & Antifoulant Product Support

Flocon Antiscalant Product Selection Guide

All Flocon products listed carry Potable Approval (NSF) and Membrane Manufacturer Approval.

Product	Description	Feed Water	Product Effective Against*													
			CaCO ₃ LSI	CaCO ₃ SDI	CaSO ₄	BaSO ₄	SiSO ₄	CaF ₂	Ca(PO ₄) ₃	Silica	Iron	Heavy Metals	Organics	Polymeric Coagulants	Silt/Clay	
Flocon 260	Premium Product, anti-foulant for unit operating at high recovery.	Brackish Water Sea Water Waste Water	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Flocon 135	Scale inhibitor for unit operating at high recovery	Brackish Water Sea Water	E	E	E	E	G	G			E	G				E
Flocon Plus N	Inorganic scale inhibitor for SWRO	Sea Water	E	E	G	G	G	G			G	G				G
Flocon 190	Non Polymeric inorganic scale inhibitor	Sea Water, Waste Water	E	E	G	G	G	G			G	G			G	

E = Excellent

G = Good

* Flocon Products are not effective against Mg(OH)₂ or Boron

Using Flocon

Dosing Information

The amount of Flocon required to inhibit scale formation depends on the degree of supersaturation of the insoluble salts at the point of highest concentration in the system. The degree of supersaturation in turn depends on the concentration of the ionic species in the feedwater, the overall salinity of the feed, the temperature of the feedwater, the percentage of the feedwater recovered as permeate and the type of membrane used for the application.

Flocon Solution Concentration*%	Amount of Solution to be Injected per 1,000 Gallons of Feed Water, In Gallons	
	3 ppm	5 ppm
100	0.003	0.005
50	0.006	0.010
20	0.015	0.025
10	0.030	0.050

* Use soft water or RO permeate to mix with Flocon.

Dose Method

Flocon should be added to a membrane system prior to the final cartridge filter. If media filtration or activated carbon is used, Flocon should be applied after these treatment stages.

Flocon should be delivered by dosing pump from a dilution tank, direct from the drum or from a bulk storage facility, into the feedwater at a rate that is determined by the size of the membrane system, the recommended dose rate and the delivery range of the dosing pump. It is recommended that the dosing pump be adjusted by the stroke length, while maintaining stroke frequency at a high level as possible to achieve even distribution of the Flocon in the membrane system feedwater.

CAUTION - Biological Activity:

Flocon contains a preservative that is effective up to a dilution of 1 part Flocon to 15 parts of system permeate water. General periodic cleaning of the dosing system is recommended as part of the planned maintenance program.

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Sterilight SC Copper Series – 2 to 7.5 GPM

Sterilight “Copper” Ultraviolet Disinfection Systems are specifically designed for point-of-use applications where microbiological control is required. “Copper” UV units control bacteria, virus and protozoan cyst (specifically giardia lamblia and cryptosporidium) all in one complete design.

Features & Specifications

- 99.99% destruction of bacteria, virus and protozoan cysts (Giardia Lamblia and Cryptosporidium) at rated flow.
- 304 Stainless Steel reactors with 600 grit polish (A249 pressure rating tube)
- Sterilume-EX hard glass, coated lamps with 9000 hour lamp life
- 214 fused quartz sleeves with fire polished end
- Integral ballast and lamp connector with LED power/lamp on indicator
- 5' lamp cord
- ½" MNPT/ ⅜" FNPT combination connection ports.
- Maximum Operating Pressure: 125 psi (8.62 bar)
- Ambient Temperature: 36-104°F (2-40°C)
- Reactor Chamber Material: 304 SS



“Copper” Series UV Systems

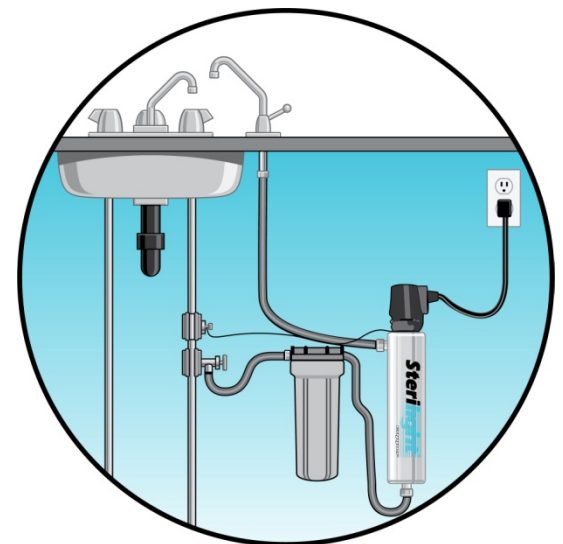
Model No.	Flow Rate*				Lamp Watts	Power Consumption	Dimensions, Inches		Shipping Weight Lbs.
	@ 16 mJ/cm ²		@ 40 mJ/cm ²				Length	Cell Dia.	
	GPM	L/Min	GPM	L/Min					
SC1	2.0	7.5	0.5	2	10W	12W	13.5	2.5	4
SC2.5	4.2	15.9	1.9	7.2	14W	16W	16.5	2.5	5
SC4	7.5	28.4	2.8	10.6	17W	19W	18.2	2.5	6

Models listed above are 100-130v/50-60Hz. For 200-250v/50-60Hz, add "/2" to the end of the part number, example: SC1/2

*Flow Rates listed are dose dependent. 40 mJ/cm² = NSF/EPA Standard. 16 mJ/cm² = US Public Health Standard.

Replacement Parts

Model No.	Lamp	Quartz Sleeve
SC1	S212RL	QS-212D
SC2.5	S287RL	QS-287D
SC4	S330RL	QS-330D
Ballast:	BA-C1 (100-130V/ 50-60 Hz) BA-C2 (200-250V/ 50-60 Hz)	



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Sterilight SQ-PA Silver Series – 3.2 to 29 GPM

This compact design system is ideal for Point-of-Use Filtration or RO pre or post sterilization. Designed for easy maintenance, the UV lamp can be changed without interrupting the water flow. Electronic ballast features constant output current over the entire operating range independent of voltage or frequency and improved surge protection.

Features & Specifications

- 99.99% destruction of bacteria, virus & protozoan cysts (Giardia lamblia & Cryptosporidium) at rated flow.
- 304 stainless steel reactor chamber (316SS available on request)
- Open end quartz sleeve and aluminum gland nuts
- Audio/visual annual lamp change reminder
- Audible lamp failure indicator
- Visual "Power On" LED
- Maximum Operating Pressure: 125 psi (8.62 bar)
- Ambient temperature: 36-104°F (2-40°C)



Model No.	Flow Rate*				Lamp Watts	Inlet/Outlet Connection (Inches)	Dimensions, Inches		Shipping Weight Lbs.
	@ 16 mJ/cm ²		@ 40 mJ/cm ²				Cell (Dia. x L)	Controller (L x W x H)	
	GPM	L/Min	GPM	L/Min					
S1Q-PA	3.2	12.3	1.5	5.5	14	¼" MNPT	2.5" x 15"	19" x 8.1" x 2.5"	6
S2Q-PA	4.0	15.0	2.0	7.5	17	½" MNPT	2.5" x 17"	19" x 8.1" x 2.5"	6
S5Q-PA	11.0	41.6	4.5	17.0	24	¾" MNPT	2.5" x 21"	19" x 8.1" x 2.5"	6
S8Q-PA	20.0	75.7	7.7	29.3	37	¾" MNPT	2.5" x 35"	19" x 8.1" x 2.5"	10
S12Q-PA	29.1	110	11.1	42.0	39	¾" F/1" M	3.5" x 37"	19" x 8.1" x 2.5"	13

Models listed above are 100-130v/50-60Hz. For 200-250v/50-60Hz, add "/2" to the end of the part number, example: S2Q-PA/2.

For 12v DC, add "/12" to the end of the part number, example: S2Q-PA/12 (Available for S1Q-PA, S2Q-PA, S5Q-PA only)

*Flow Rates listed are dose dependent. 40 mJ/cm² = NSF/EPA Standard. 16 mJ/cm² = US Public Health Standard.

Replacement Parts

For System	UV Lamp	Quartz Sleeve	Model No.	Description
S1Q-PA	S287RL	QS-001	OR-212	O-Ring for all Quartz Sleeves
S2Q-PA	S330RL	QS-330	BA-ICE-S	Electronic ICE Controller (110-240v/50-60Hz)
S5Q-PA	S463RL	QS-463	RN-001	Aluminum retaining nut
S8Q-PA	S810RL	QS-810	RN-001/2	Aluminum retaining nut w/ black plug, ballast end
S12Q-PA	S36RL	QS-012		

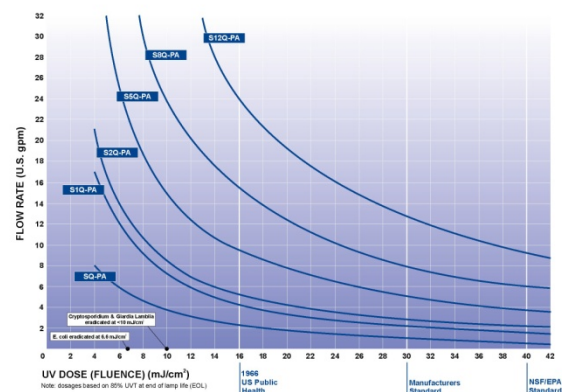
Technical Information

Note: Microorganisms require varying UV dose levels for destruction. Some of the common organisms and their corresponding dosage level are shown below.

Microorganism	Dose mJ/cm ²	Microorganism	Dose mJ/cm ²
E. Coli ²	6.6	Influenza Virus ¹	6.6
Cryptosporidium parvum ¹	<10	Shigella dysenteria ²	4.2
Giardia lamblia ¹	<10	Legionella pneumophila ²	3.8
Hepatitis Virus ¹	8	Salmonella paratyphi ²	6.1

1. 2-log reduction

2. 4-log reduction



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Sterilight SSM Silver Plus Series 4 - 29 GPM Monitored

Sterilight SSM "Silver Plus" Series UV

Silver™ "PLUS" UV systems incorporate a UV intensity monitor in a modular line of ultraviolet disinfection systems providing a 99.99% reduction in bacteria and viruses. The small SSM-17 systems are suited for point-of-use filtration, RO pre or post disinfection, while the larger SSM-24 through SSM-39 systems can be used as a point-of-entry (whole home) disinfection system.



These systems include a true 254nm UV intensity monitor to continuously monitor the system and warn you of any changes in water quality, while the visual display shows % UV output, remaining lamp life & total days of operation. The system also comes with a powered solenoid output that allows you to hook a normally closed solenoid valve (sold separately) directly into the controller. Additionally, an optional Y-cable is available that provides a 4-20mA output for a physical connection to a remote monitoring system. Systems are packaged in a water-tight case and are fully CSA and CE compliant.

Sterilight "Silver Plus Series" Ultraviolet Water Disinfection Systems

Model No.	Flow Rate*				Lamp Watts	Inlet/Outlet Connection (In.)	Dimensions		Shipping Weight (Lbs.)
	@ 16 mJ/cm ²		@ 40 mJ/cm ²				Reactor (L x Dia.)	Controller (LxHxD)	
	GPM	L/Min	GPM	L/Min					
SSM-17	4	15.0	2.0	7.5	17	1/2" MNTP	17.1" x 2.6"	8.3" x 3.2" x 2.5"	8
SSM-24	11	41.6	4.5	17	25	3/4" MNTP	22.1" x 2.6"	8.3" x 3.2" x 2.5"	8
SSM-37	20	75.7	7.7	29.3	37	3/4" MNTP	35.6" x 2.6"	8.3" x 3.2" x 2.5"	11
SSM-39	29	110.0	11	42	39	3/4" FNPT/1" MNPT	37.5" x 2.6"	8.3" x 3.2" x 2.5"	13

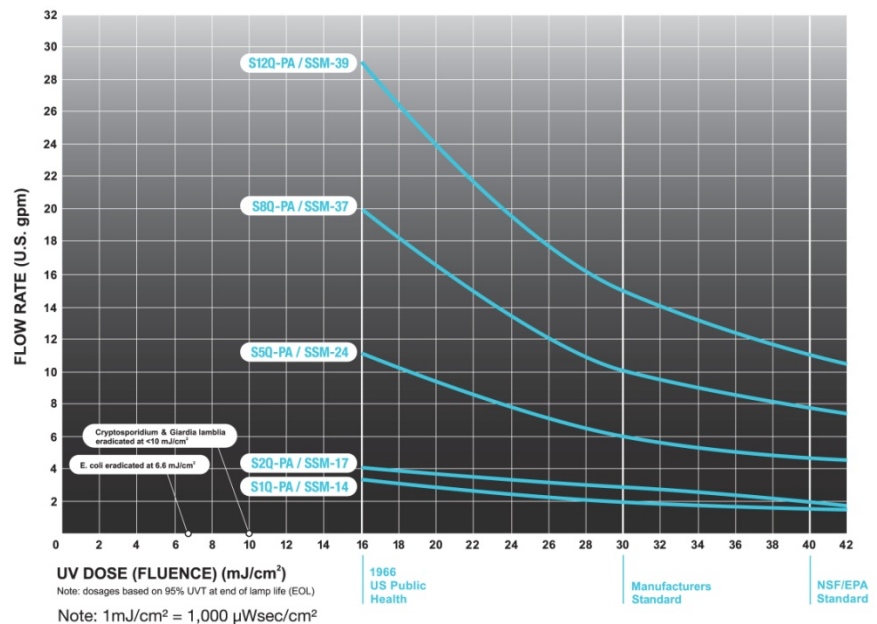
Models listed above are 100-130v/50-60Hz. For 200-250v/50-60Hz, add "/2" to the end of the part number, example: SSM-17/2

*Flow Rates listed are dose dependent and are stated @ 95% UVT FOL. 40 mJ/cm² = NSF/EPA Standard. 16 mJ/cm² = US Public Health Standard

Replacement Parts for Sterilight "Silver" Ultraviolet UV Systems

For System	UV Lamp	Quartz Sleeve
SSM-17	S330RL	QS-330
SSM-24	S463RL	QS-463
SSM-37	S810RL	QS-810
SSM-39	S36RL	QS-012

Part No.	Description
BA-ICE-SM	Monitored controller (100-240v/50-60Hz)
254NM-S1	UV Sensor for SSM-17, 24, 37
254NM-S2	UV Sensor for SSM-39



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Sterilight SC & SCM Cobalt Series – 15 to 60 GPM

Sterilight “Cobalt Plus” Ultraviolet Disinfection Systems are specifically designed for point-of-use applications where microbiological control is required. Sterilight “Cobalt” UV units control bacteria, virus and protozoan cyst (specifically giardia lamblia and cryptosporidium) all in one complete design. The new Cobalt™ “PLUS” series Ultraviolet Systems with the new Cobalt Plus Controller in a water-tight case, which features a 4-segment LED display showing: % UV Intensity, Lamp Life Remaining with Total Operating Time, Audible Indicator, Fused Solenoid Output (solenoid valve and cord sold separately), 4-20mA output (optional), 304 axial flow SS chamber & Sterilume-HO High-Output coated lamps.



Features & Specifications

- 99.99% destruction of bacteria, virus & protozoan cysts (Giardia lamblia & Cryptosporidium) at rated flow
- Integral UV intensity monitor
- Cobalt “PLUS” controller - % UV Intensity, lamp life remaining, total operating time, solenoid output, 4-20mA output (optional), and universal power input
- Sterilume™-HO high-output coated UV lamps
- Compact design requiring small installation footprint
- 304 Axial Flow stainless steel reactors
- Cobalt systems are also available without monitors – see the “Basic” system listed below

Sterilight “Cobalt™ Plus” and “Cobalt Basic” Ultraviolet Disinfection Systems

Monitored	No Monitor	Flow Rate*				Reactor Dimensions (Dia. x L)	Controller Dimensions (LxWxH)	Inlet/Outlet Connection Size	Lamp Watts	Shipping Weight Lbs.
Plus Series Model	Basic Series Model	@ 16 mJ/cm ²		@40 mJ/cm ²						
		GPM	L/Min	GPM	L/Min					
SCM-200	SC-200	15	57	6	23	3.5" x 17.8"	9.4" x 3.2" x 2.5"	¾" FNPT/1" MNPT	30W	13
SCM-320	SC-320	25	95	10	38	3.5" x 22.8"	9.4" x 3.2" x 2.5"	1" MNPT	36W	17
SCM-600	SC-600	60	227	24	91	3.5" x 30.7"	9.4" x 3.2" x 2.5"	1" MNPT	65W	21
SCM-740	SC-740	60	227	30	114	3.5" x 39.4"	9.4" x 3.2" x 2.5"	1.5" MNPT	80W	25

*Flow Rates listed are dose dependent and are stated @ 95% UVT FOL. 40 mJ/cm² = NSF/EPA Standard. 16 mJ/cm² = US Public Health Standard
 Note: System Models above are for 110v, USA. To order a different style power cord, add the appropriate number to the end of the model number when ordering. (Example: SCM-200/2)

- European Style: "/2" - European systems are shipped with 2-prong continental European (cee-7/7), 2 pin with ground "schuko" power cord.
- Australian Style (as 3112): "/2A"
- UK (bs 1363): "/2B"
- Bare Leads: "/2C"

Replacement Parts

For System	UV Lamp	Quartz Sleeve
SCM-200/SC-200	S200RL-HO	QS-200
SCM-320/SC-320	S320RL-HO	QS-320
SCM-600/SC-600	S600RL-HO	QS-600
SCM-740/SC-740	S740RL-HO	QS-740

Model No.	Description
OR-212	O-Ring for all Quartz Sleeves
RN-001	Gland nut for all systems.
BA-ICE-C	Electronic Ice Control – NOT Monitored
BA-ICE-CM	Electronic Ice Control- Monitored
254NM-C1	UV Monitor Assembly for “Plus” Series

Optional: Temperature Management Valve

Model Number: 440179

As these systems incorporate Sterilume-HO “high output” UV lamps providing more power and without the incorporation of Flow-Pace™ technology as in the Platinum™ systems, one may experience high ambient water temperatures in extended periods of no-flow. To solve this issue, a separate temperature management valve 440179 is offered.



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Sterilight SPV Platinum Series 2 to 15 GPM NSF Listed

The Sterilight Platinum "SPV" series carry the NSF 55, Class A certification. This family has a range of 5 flow rates available from 2.6 to 14.9 USGPM for both POU (point-of-use) & POE (point-of-entry) type applications.

All models deliver a 40 mJ/cm² UV dose at the system's alarm set-point. Each system comes equipped with an advanced electronic controller providing a universal power input (100-250V/50-60Hz) & visual display of system performance & lamp life. The Flow Pace™ sensor allows the system to operate with minimal power requirements & heat build-up.



Features & Specifications

- 90-265 VAC universal operation
- Visual UV intensity readings (reads in % UV output)
- Visual elapsed time meter – displays remaining lamp life and total controller running time.
- Constant current output over entire line voltage
- Active power factor correction
- EMI/RFI filtering (meets new CE directives)
- One controller to drive all lamps
- Isolated power source for alarm system
- True lamp current detection
- Full diagnostic check on start-up
- Separate fuse protection for controller circuit
- Dry contacts (for solenoid, lamps, audible alarms, etc.)
- RJ-11 communication port (sensor output & future RG
- remote alarm package) Universal IEC power input connector



System Tested and certified by NSF International against NSF Standard 55 for Disinfection Performance, Class A. **Models: SPV-200, SPV-410, SPV-600, SPV-740, SPV-950**

Additional Features of Platinum Series

- **Safety-Loc™ Connector** – Interlock switch molded into the lamp connector, preventing lamp operation when the lamp is not fully inserted into the reactor chamber. This connector is keyed to the reactor chamber, allowing for the correct lamp orientation within the reactor, eliminating potentially false sensor readings.
- **Flow-Pace™ UV Sensor** – 254nm sensor capable of detecting a low-flow condition and automatically adjust the lamp power to the water flow, resulting in lower power consumption, reduced operational costs & less heat transfer into the water.
- **Sterilume™ Lamps** – Sterilight's low pressure high output lamp offering consistent UV output over the life of the lamp.

Platinum Series UV Systems – NSF Certified – 316 SS

Model No.	Flow Rate*		Lamp Watts	Inlet/Outlet Connection	Dimensions, Inches		Shipping Weight Lbs.
	GPM	L/Min			Chamber (L" x D")	Controller (L" x W" x H")	
SPV-200	2.6	9.8	30	½" MNPT	17.8 x 3.5	10.75 x 4.5 x 2	13
SPV-410	6.0	22.7	36	¾" FNPT, 1" MNPT	26.0 x 3.5	10.75 x 4.5 x 2	19
SPV-600	8.0	30.3	45	¾" FNPT, 1" MNPT	30.7 x 3.5	10.75 x 4.5 x 2	21
SPV-740	12.0	45.4	65	¾" FNPT, 1" MNPT	39.4 x 3.5	10.75 x 4.5 x 2	25
SPV-950	15.0	56.8	80	¾" FNPT, 1" MNPT	44.5 x 3.5	10.75 x 4.5 x 2	30

Note: Models listed above are 90-265v/50-60Hz w/ STD North American 3 Prong Grounded Power Cord. For other power cord type, use appropriate suffix below:

- Continental European 2-pin power = /2,
- UK 3 Prong Grounded= /2B
- Australian 3 prong grounded = /2A
- No Connector "Bare Leads" = /NC

Example: SPV1.5/2B = British Power Cord

*Flow rates stated as determined by NSF Standard 55 testing. (40 mJ/cm² @ UVT >75% @ fail-safe point)

Please note that the NSF/ANSI Certified systems above contain a flow restrictor to limit the flow at the certified level.

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Sterilight SP Platinum Series 34 to 60 GPM Non-Listed

Platinum Series UV Systems – 304 SS (Non-Listed)

Model No.	Flow Rate*				Lamp Watts	Inlet/Outlet Connection, (Inches)	Dimensions, Inches		Shipping Weight Lbs.
	@ 16 mJ/cm ²		@ 40 mJ/cm ²				Chamber (L" x D")	Controller (L" x W" x H")	
	GPM	L/Min	GPM	L/Min					
SP320-HO	34	128.7	13	49.2	36	¾" MNPT, 1" FNPT	22.8 x 3.5	11 x 4.5 x 2	15
SP410-HO	45	170.3	18	68.1	45	1" MNPT	26.0 x 3.5	11 x 4.5 x 2	17
SP600-HO	60	227.1	26	98.4	65	1" MNPT	30.7 x 3.5	11 x 4.5 x 2	19
SP740-HO	60	227.1	31	117.3	80	1.5" MNPT	39.4 x 3.5	11 x 4.5 x 2	24
SP950-HO	60	227.1	39	147.6	100	1.5" MNPT	44.5 x 3.5	11 x 4.5 x 2	29

Note: Models listed above are 90-265v/50-60Hz with Standard North American 3 Prong Grounded Power Cord. For other power cord type, use appropriate suffix: Continental European 2-pin power = /2, • UK 3 Prong Grounded= /2B • Australian 3 prong grounded = /2A • No Connector "Bare Leads" = NC. Example: SP100-HO/2B = British Power Cord.

*Flow rates and dose stated at 95% UVT₁₀

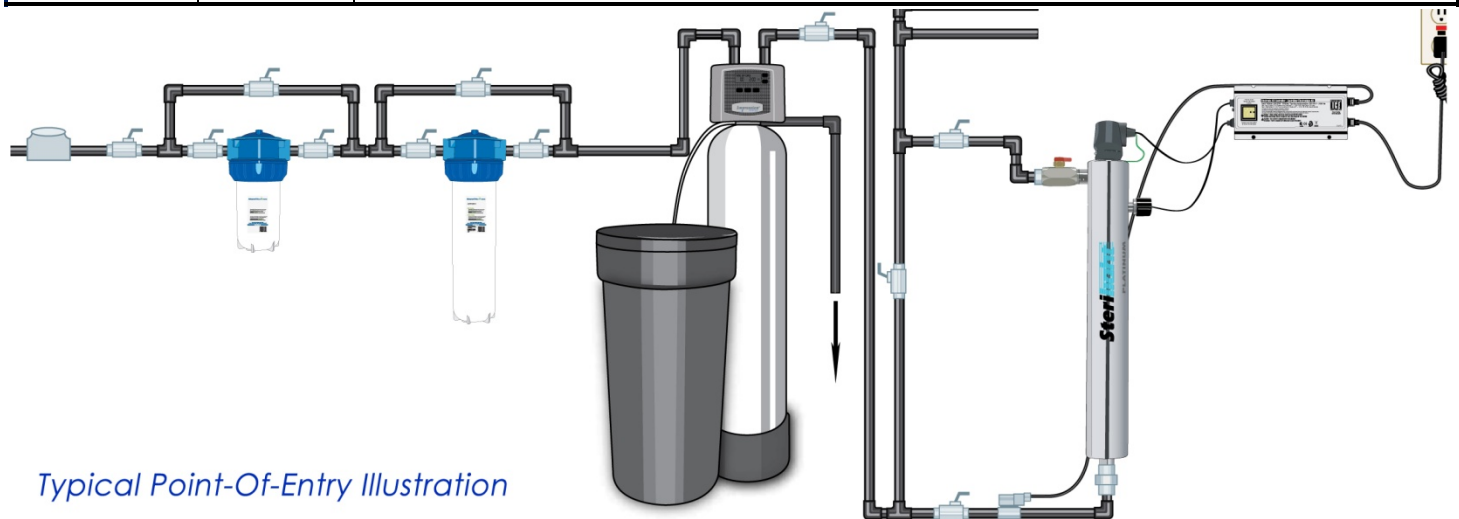
Replacement Parts

For System	UV Lamp, Sterilume™	Quartz Sleeve
SP320-HO	S320RL-HO	QS-320
SP410-HO & SPV-410	S410RL-HO	QS-410
SP600-HO & SPV-600	S600RL-HO	QS-600
SP740-HO & SPV-740	S740RL-HO	QS-740
SP950-HO & SPV-950	S950RL-HO	QS-950

Note: Replacement lamps and sleeves come with 2 O-Rings



Part Number	For System	Description
SPC-ICE-HO	ALL	Controller, Platinum Ice
254NM-FP2	ALL "SPV"	UV Sensor Assembly, Flow-Pace™ 254nm for NSF Certified Systems, w/3' Sensor Cable
254NM-FP1	ALL "HO"	UV Sensor Assembly, Flow-Pace™ 254nm for Non-Validated Systems, w/3' Sensor Cable
OR-12N	ALL	O-Ring for Sensor Assembly
RN-001	ALL	Aluminum Retaining Nut
OR-212	ALL	O-Ring for Quartz Sleeve/Aluminum Nuts
SP008	ALL	Quartz Sleeve Spring
410076	ALL	3 ½" Clamp



Typical Point-Of-Entry Illustration

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Sterilight Light Commercial Series – 50 to 80 GPM

Validated under the rigors of the USEPA UVDGM 2005 validation protocol, this product offers a compact piece of equipment for light commercial installations as well as regulated and non-regulated drinking water applications. Sterilight light commercial UV systems deliver a constant reliable dose at a higher capacity in a range of water temperatures from hot recirculation lines to ice-cold water.



Features & Specifications

- Color-coded plug and play connections
- UV intensity monitor with diagnostic testing (SV50 & SM80 only)
- CoolTouch fan
- Two (RJ45) communication ports
- 316L SST Chamber
- Rated service life of lamp: 2 years
- Max current: 2.4 Amp; Max Power consumption: 230 Watts
- 120-240V AC, 50-60Hz
- Installation: Vertical

Controls

- Audible alarm mute button
- New lamp button
- Lamp age indicator
- Lamp operation indicator
- Ballast operation indicator
- Solenoid operation indicator
- Fan operation indicator
- Sensor reading indicator

Operating Parameters

- Maximum operating pressure: 100 PSI (689 kPa)
- Minimum operating pressure: 10 PSI (69 kPa)
- Maximum ambient air temperature: 104°F (40°C)
- Minimum ambient air temperature: 32°F (0°C)
- Maximum humidity: 100%
- Maximum hardness: 120ppm (7gpg)
- Maximum Iron: 0.3ppm
- Maximum UVT: 85%

Model No.	Description	Flow Rate*				Lamp Watts	Inlet/Outlet Connection (Inches)	Dimensions, Inches		Shipping Weight Lbs.
		@ 30mJ/cm ²		@ 40 mJ/cm ²				Cell (Dia. x L)	Controller (L x W x H)	
		GPM	L/Min	GPM	L/Min					
SV50	NSF /EPA Validated	N/A		50	189	200	2" MNPT	4" x 41"	13" x 6.5"	15
S80	Basic (Non-Validated)	80	303	50	189	200	2" MNPT	4" x 41"	13" x 6.5"	15
SM80	Monitored (Non-Validated)	80	303	50	189	200	2" MNPT	4" x 41"	13" x 6.5"	15

*Flow Rates listed are dose dependent. 40 mJ/cm² = NSF/EPA Standard. 30 mJ/cm² = UV Industry Standard.
Flow for SV50 stated at 85% UVT and End of Lamp Life; Flow for S80 & SM80 shown at 95% UVT and End of Lamp Life.

Replacement Parts for Light Commercial UV Systems

Part Number	Description
S37RL-AM	Replacement Lamp for SV50, S80, SM80
QS-37	Replacement Quartz Sleeve for SV50, S80, SM80
602988	Quartz Sleeve Removal Tool for SV50, S80, SM80
440256-R	Replacement UV Sensor for SV50, SM80

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Sterilight HF High Flow Series – 268 to 343 GPM

High Flow Ultraviolet Water Purification Systems

VIQUA Sterilight HF series line of UV water purification systems has been specifically designed to extend the flow rate range of drinking water that can be safeguarded using the proven and trusted technology already offered by the VIQUA Sterilight family of ultraviolet (UV) products.



Features & Specifications

- Specially designed and tested Sterilume-HO lamps provide consistent and reliable UV output over the entire life of the lamp (9000 hours) to ensure continuous purification.
- Superior quality stainless steel chamber.
- Separate control panel with power isolation.
- Visual display of lamp life remaining and audible/visual lamp change reminder.
- Specialized 254nm UV intensity sensor available (SHFM models) with output to enable solenoid valve or remote alarm.
- 304 SS Chamber (316 available upon request)
- 3" Flange In/Out Connections
- 110-240v/ 50-60Hz Voltage
- Maximum operating Pressure: 125 psi (8.6 bar)
- Water Temperature: 36-104°F (2-40°C)

Alarms and Indicators

- Visual "Power-On"
- Audible/Visual Alarm
- Visual Lamp Life Remaining
- Total Running Time Display

Additional Features of Monitored SHFM Models

- 254nm UV Sensor
- Solenoid Valve Output
- 40-20mA Signal Output

Model No.	Description	Flow Rate*				Power Consumption	Dimensions, Inches		# of Lamps
		@ 16mJ/cm ²		@ 40 mJ/cm ²			Chamber	Controller	
		GPM	m ³ /hr	GPM	m ³ /hr				
SHF-140	Basic HF UV System	268	61	107	24	350W	34"x6"x14"	18"x20"x8"	4
SHF-180		343	78	137	31	440W	42.3"x6"x14"	18"x20"x8"	4
SHFM-140	HF System with UV Monitor & Alarm Output	268	61	107	24	350W	34"x6"x14"	18"x20"x8"	4
SHFM-180		343	78	137	31	440W	42.3"x6"x14"	18"x20"x8"	4

*Flow Rates listed are dose dependent. 40 mJ/cm² = NSF/EPA Standard. 16 mJ/cm² = US Public Health Standard.

Replacement Parts for HF Series UV

For System	Qty. Per System	UV Lamp	Quartz Sleeve
SHF-140, SHFM-140	4	SHO740/4C-RL	QS-012
SHF-180, SHFM-180	4	SHO950/4C-RL	QS-950

Part Number	For System(s)	Description
RN-001	All HF, HFM	Retaining Nut/Gland Nut
440238	All HF, HFM	Sleeve Nut
410867	All HF, HFM	O-Ring
BA-ICE-HF	All HF	Controller/Enclosure
BA-ICE-M-HF	All HFM	Controller/Enclosure
260192-R	All HF, HFM	Power Cord, North American, 3-Prong
260198-R	All HF, HFM	Power Cord, European, 2-Pin
260193-R	All HF, HFM	Power Cord, 3-Wire Bare Leads
254NM-HF	All HFM	UV Sensor

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Sterilight UV Drinking Water Systems – 3.2 to 11 GPM

These drinking water systems are designed to treat water at a single location or a whole house requiring a 99.9% reduction in bacteria and viruses

Features & Specifications

- 99.99% destruction of bacteria, virus, and protozoan cysts (giardia lamblia & cryptosporidium) at rated flow
- 5 micron sediment pre-filtration
- Carbon filtration for chlorine taste and odor reduction
- Complete installation kit including faucet, saddle valve, tubing and fittings (on S1Q-DWS & S2Q-DWS only)
- Seven year warranty on reactor chamber
- Sterilizer certified by CSA (C US) and to CE standards
- NEW electronic "ICE" ballasts featuring open loop current control (patent pending); Ballast features IEC connector, audible alarm & power-on indicator
- Quick-lock molded lamp connector
- Hard glass, low pressure mercury vapor lamps with high isolation pin design
- Compact design incorporating 304 stainless steel reactor chambers (316L available upon request), brilliantly polished for laboratory or medical applications
- Quick disconnect fittings for easy servicing
- Open end quartz sleeves and aluminum gland nuts for optimum operating temperature and sealing efficiency
- Maximum operating Pressure 125 psi
- Ambient Temperature 36-104°F (2-40°C)
- Each unit includes sterilizer with two (2) filter housings; one for 5M sediment reduction; the second is a carbon filter for taste/odor reduction



UV Drinking Water Systems

Model No.	Flow Rate*				Lamp Watts	Dimension, Inches				Weight (Lbs.)
	@ 16 mJ/cm ²		@ 40 mJ/cm ²			Length	Width	Height	Cell Dia.	
	GPM	L/Min	GPM	L/Min						
S1Q-DWS	3.2	12.3	1.5	5.5	14	16.5	5.9	13.8	2.5	15
S2Q-DWS	4.0	15.0	2.0	7.5	17	15.5	5.9	15.0	2.5	17
S5Q-DWS	11.0	41.6	4.5	17.0	24	20.5	5.9	28.0	2.5	21

*Flow Rates listed are dose dependent. 40 mJ/cm² = NSF/EPA Standard. 16 mJ/cm² = US Public Health Standard.
 Models listed above are 100-130v/50-60Hz. For 200-250v/50-60Hz with European (CEE 7/7) cord, add "/2" to the end of the part number, example: S2Q-DWS/2.
 *Models S5Q-DWS and S5Q-DWS/2 come with two (2) 20" slimline filter housings.
 **For systems with the addition of a flow control meter including automatic shut-off, add "-M" to the end of the part no. Example: S1Q-DWS-M. Available for S1Q-DWS and S2Q-DWS only.

Replacement Parts

For Systems	UV Lamp	Quartz Sleeve	Ballast Model	Sediment Cartridge	Carbon Cartridge
S1Q-DWS	S287RL	QS-001	BA-ICE-1F	H-F1005CF	H-F2510AC
S2Q-DWS	S330RL	QS-330	BA-ICE-1F	H-F1005CF	H-F2510AC
S5Q-DWS	S463RL	QS-463	BA-ICE-1F	H-F2005STR	H-F2520AC

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Commercial UV Systems

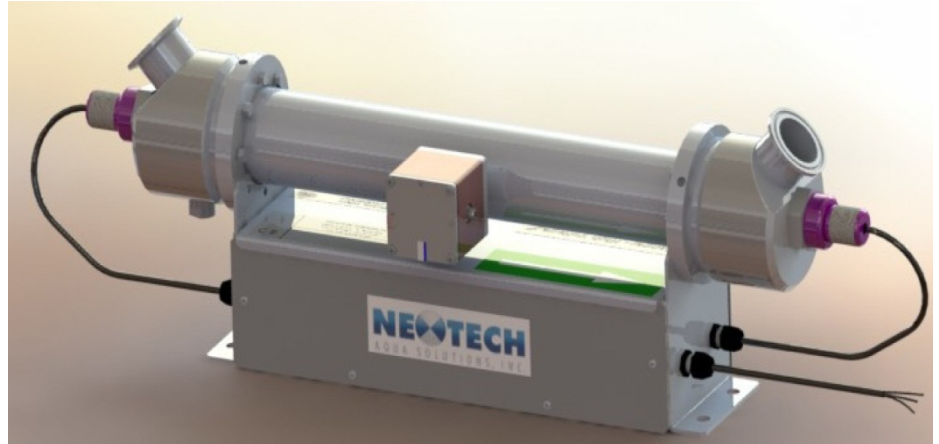
NeoTech 2" Chamber Series – 35 to 65 GPM

Industry Applications

- Pharmaceutical
- Micro-electronics
- Medical Sciences
- Water Remediation
- Hospitality

Applications Include

- Disinfection
- TOC Reduction
- Chlorine and Chloramines Removal
- Ozone Destruction
- Ultrapure Water Disinfection



Our patented flow chamber design brings unparalleled performance in a compact size. This highly efficient reaction chamber saves thousands of dollars in capital and operation costs with superior disinfection capabilities and outstanding TOC reduction performance. Our products are made from the highest quality materials, exceeding the rigorous demands required for industrial grade equipment.

Specifications and Ordering Information

- All Units include UV Monitor & CU-4-1 Controller
- Inlet & Outlet Connections: 1.5" Sanitary Fittings (NPT & Flange adapters are available)
- Number of Lamps: 1
- Lamp Life Hours: 9000
- Lamp Replacement: Dry, by Hand
- Operating Pressure: 150 psi (10 bar)
- Operating Temperature: 36-104°F (3-40°C)
- Non-Flow Standby Time: 60 Minutes
- Mounting: Horizontal or Vertical
- Water Contact Finish: Ra-15
- Controller, Remote: NEMA 4X
- Real Time Dosimetry
- Alarms, Remote Control & Monitoring
- 185 & 254nm lamp standard (185 only is available upon request)

Model No.	Max Flow Rate for Disinfection ¹		Flow Rate for TOC Reduction ¹		Operating Power Watts	Pressure Drop ²		Unit Overall Dimensions			Weight ³ (Lbs)
	GPM	M3/hr	GPM	M3/hr		PSI	NPM	Length	Height	Depth	
D222	35	8	9.7	2.2	85	4	27.6k	23.6"	8.2"	6.3"	30
D228	50	11	14.9	3.2	100	10	68.9k	29.6"	8.2"	6.3"	33
D238	65	15	18.1	4.2	125	20	137.9k	39.6"	8.2"	6.3"	42

¹ Rated flows are based on 99% UVT

² Pressure Drop defined at Rated Flow

³ Weight is without water (dry weight)

Replacement Parts

Replacement Lamps, Quartz Sleeves & Light Traps

For System	Light Kit	Quartz Sleeve Kit	Light Trap Kit
D222	LK-22	QSK-22	UVLTK-2-S
D228	LK-28	QSK-28	UVLTK-2-S
D238	LK-38	QSK-38	UVLTK-2-S

Note: Light Kits shown above are for 185&254nm (standard) lamps. For 185nm ONLY, use a "-D" at the end of the part #. Example: LK-22-D

⁴Up to 4 systems can be run in parallel using a single controller. Contact us for design and quotation.

Other Spare Parts (for all 2" Systems)

Part No.	Description
UVIM-3	UV Intensity Monitor
CK2-1	Cleaning Kit for UVS2 Systems
CU-4-1	Controller, 1 UV unit control (can be expanded to control up to 4 systems)
BK-120	Ballast, Electronic, 120 VAC, 50-60 Hz
BK-240	Ballast, Electronic, 240 VAC, 50-60 Hz
BK-240-ENT	Ballast, Electronic, 240 VAC, 50-60 Hz, 4-wire

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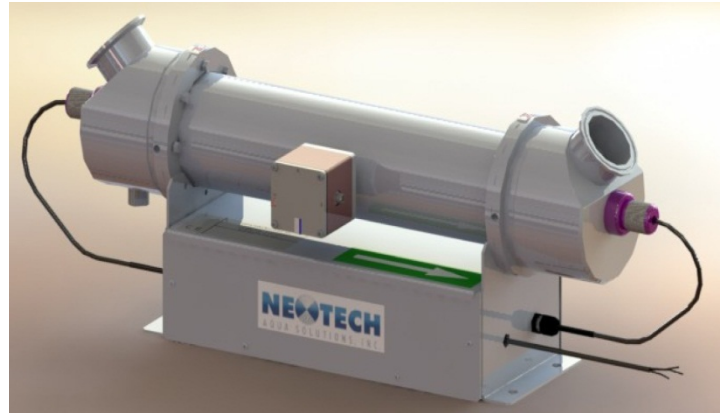
NeoTech 3" Chamber Series – 100 to 225 GPM

Industry Applications

- Pharmaceutical
- Beverage
- Municipal Drinking Water
- Food Processing
- Water Remediation
- Waste Water
- Hospitality

Applications Include

- Disinfection
- Chlorine and Chloramines Removal
- Ozone Destruction



Our patented flow chamber design brings unparalleled performance in a compact size. This highly efficient reaction chamber saves thousands of dollars in capital and operation costs with superior disinfection performance capabilities using just a single HOLP Amalgam lamp. Our products are made from the highest quality materials, exceeding the rigorous demands required for industrial grade equipment.

Specifications and Ordering Information

- All Units include UV Monitor & CU-4-1 Controller
- Inlet & Outlet Connections: 2" Sanitary Fittings
(NPT & Flange adapters are available)
- Number of Lamps: 1
- Lamp Life Hours: 9000
- Lamp Replacement: Dry, by Hand
- Operating Pressure: 150 psi (10 bar)
- Operating Temperature: 36-104°F (3-40°C)
- Non-Flow Standby Time: 60 Minutes
- Mounting: Horizontal or Vertical
- Water Contact Finish: Ra-15
- Controller, Remote: NEMA 4X
- Real Time Dosimetry
- Alarms, Remote Control & Monitoring
- 185 & 254nm lamp standard
(185 only is available upon request)

Model No.	Max Flow Rate for Disinfection ¹		Operating Power Watts	Pressure Drop ²		Unit Overall Dimensions			Weight ³ (Lbs)
	GPM	M3/hr		PSI	NPM	Length	Height	Depth	
D322	100	23	85	1	6.9k	24.1"	9.0"	7.3"	39
D328	150	34	100	2	13.8k	30.1"	9.0"	7.3"	43
D338	225	50	125	9.3	64.1k	40.1"	9.0"	7.3"	51

¹ Rated flows are based on 99% UVT ² Pressure Drop defined at Rated Flow ³ Weight is without water (dry weight)
NeoTech Ultraviolet Systems are FCC approved and TUV Rheinland certified, meeting the requirements of CE, UL and CSA.

Replacement Parts

Replacement Lamps, Quartz Sleeves & Light Traps

For System	Light Kit	Quartz Sleeve Kit	Light Trap Kit
D322	LK-22	QSK-22	UVLTK-3-S
D328	LK-28	QSK-28	UVLTK-3-S
D338	LK-38	QSK-38	UVLTK-3-S

Note: Light Kits shown above are for 185&254nm (standard) lamps. For 185nm ONLY, use a "-D" at the end of the part #. Example: LK-22-D

⁴ Up to 4 systems can be run in parallel using a single controller. Contact us for design and quotation.

Other Spare Parts (for all 3" Systems)

Part No.	Description
UVIM-3	UV Intensity Monitor
CK3-1	Cleaning Kit for UVS3 Systems
CU-4-1	Controller, 1 UV unit control (can be expanded to control up to 4 systems)
BK-120	Ballast, Electronic, 120 VAC, 50-60 Hz
BK-240	Ballast, Electronic, 240 VAC, 50-60 Hz
BK-240-ENT	Ballast, Electronic, 240 VAC, 50-60 Hz, 4-wire

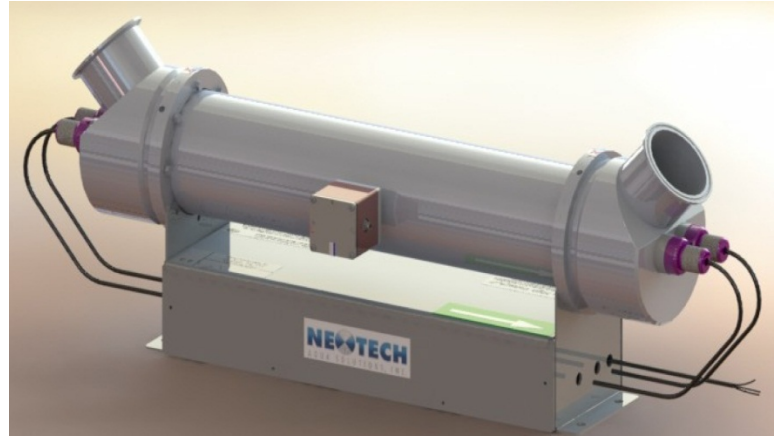
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Commercial UV Systems

NeoTech 4" Chamber Series – 300 to 500 GPM

Industry Applications

- Beverage
- Food Processing
- Municipal Drinking Water
- Water Remediation
- Waste Water
- Hospitality



Applications Include

- Disinfection
- Chlorine and Chloramines Removal
- Ozone Destruction

Our patented flow chamber design brings unparalleled performance in a compact size. This highly efficient reaction chamber saves thousands of dollars in capital and operation costs, with superior disinfection performance capabilities using just two HOLP Amalgam lamps. Our products are made from the highest quality materials, exceeding the rigorous demands required for industrial grade equipment.

Specifications and Ordering Information

- All Units include UV Monitor & CU-4-1 UV Controller
- Inlet & Outlet Connections: 3" Sanitary Fittings
- (NPT & Flange adapters are available)
- Number of Lamps: 2
- Lamp Life Hours: 9000
- Lamp Replacement: Dry, by Hand
- Operating Pressure: 150 psi (10 bar)
- Operating Temperature: 36-104°F (3-40°C)
- Non-Flow Standby Time: 60 Minutes
- Mounting: Horizontal or Vertical
- Water Contact Finish: Ra-15
- Controller, Remote: NEMA 4X
- Real Time Dosimetry
- Alarms, Remote Control & Monitoring

Model No.	Max Flow Rate for Disinfection ¹		Operating Power Watts	Pressure Drop ²		Unit Overall Dimensions			Weight ³ (Lbs)
	GPM	M3/hr		PSI	NPM	Length	Height	Depth	
D428	300	68	160	2.8	19.3k	30.5"	11.39"	8"	55
D438	500	112	200	10.9	75.2k	40.5"	11.39"	8"	63

¹ Rated flows are based on 99% UVT ² Pressure Drop defined at Rated Flow ³ Weight is without water (dry weight)
NeoTech Ultraviolet Systems are FCC approved and TUV Rheinland certified, meeting the requirements of CE, UL and CSA.

Replacement Parts

Replacement Lamps, Quartz Sleeves & Light Traps

For System	Light Kit	Quartz Sleeve Kit	Light Trap Kit
D428	LK-28	QSK-28	UVLTK-4-S
D438	LK-38	QSK-38	UVLTK-4-S

Note: Light Kits shown above are for 185&254nm (standard) lamps. For 185nm ONLY, use a "-D" at the end of the part #. Example: LK-28-D

Other Spare Parts (for all 4" Systems)

Part No.	Description
UVIM-3	UV Intensity Monitor
CK4-1	Cleaning Kit for UVS3 Systems
CU-4-1	Controller, 1 UV unit control (can be expanded to control up to 4 systems)
BK-120	Ballast, Electronic, 120 VAC, 50-60 Hz
BK-240	Ballast, Electronic, 240 VAC, 50-60 Hz
BK-240-ENT	Ballast, Electronic, 240 VAC, 50-60 Hz, 4-wire

⁴Up to 4 systems can be run in parallel using a single controller. Contact us for design and quotation.

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Ultraviolet Sterilization & Disinfection

Technical Information & Installation Diagrams

Microorganisms Destruction Chart

Use the below chart to determine the required UV dose (in mJ/cm²) required to destroy specific microorganisms in water.

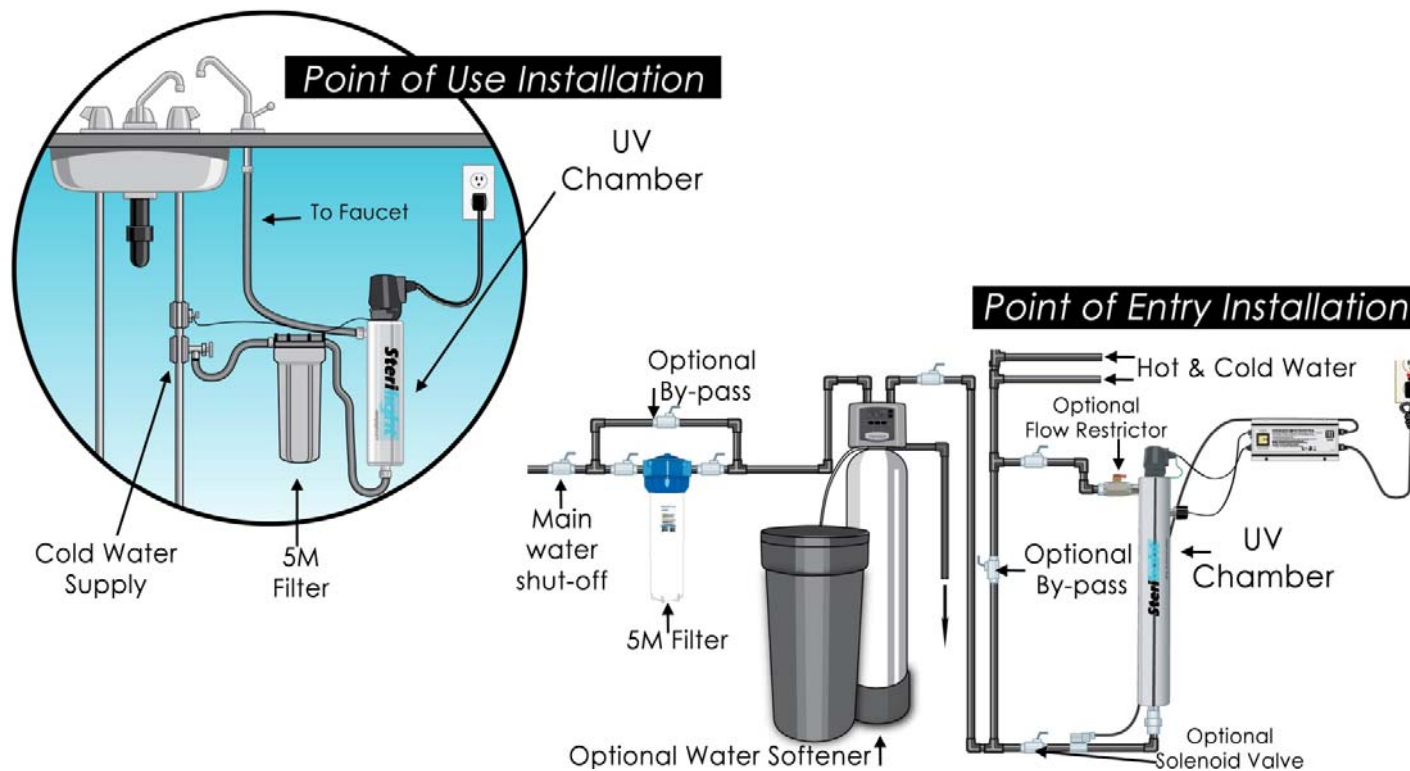
Name	Dose
Bacteria	
Agrobacterium tumefaciens	8.5
Bacillus anthracis	8.7
Bacillus megatherium (vegetative)	2.5
Bacillus megatherium (spores)	2.5
Bacillus subtilis (vegetative)	11
Bacillus subtilis (spores)	58
Clostridium tetani	22
Corynebacterium diphtheria	6.5
Dysentery bacilli (diarrhea)	4.2
Escherichia coli (diarrhea)	6.6
Legionella bozemanii	3.5
Legionella dumoffii	5.5
Legionella gormanii	4.9
Legionella micdadei	3.1
Legionella longbeachae	2.9
Legionella pneumophila (legionnaires disease)	3.8
Leptospira interrogans (infectious jaundice)	6
Mycobacterium tuberculosis	10
Neisseria catarrhalis	8.5
Proteus vulgaris	6.6
Pseudomonas aeruginosa (laboratory)	3.9
Pseudomonas aeruginosa (environmental)	10.5
Rhodospirillum rubrum	6.2
Salmonella (food poisoning)	10
Salmonella enteritidis	7.6

Name	Dose
Bacteria	
Salmonella paratyphi (enteric fever)	6.1
Salmonella typhimurium	15.2
Salmonella typhosa (typhoid fever)	7
Saracen lutea	26.4
Serratia marcescens	6.2
Shigella dysenteriae (dysentary)	4.2
Shigella flexneri (dysentary)	3.4
Shigella sonnei	7
Staphylococcus epidermidis	5.8
Staphylococcus aureus	7
Streptococcus faecalis	10
Streptococcus healyeaus	5.5
Streptococcus lactis	8.8
Viridans streptococci	3.8
Vibrio comma (cholera)	6.5
Mold Spores	
Aspergillus flavus (yellowish green)	99
Aspergillus glaucus (bluish green)	88
Aspergillus nigar (yellowish green)	330
Mucor ramosissimus (white-grey)	35.2
Penicillium digitatum (olive)	88
Penicillium expansum (olive)	22
Penicillium roqueforti (green)	26.4
Rhizopus nigricans (cheese mold)	220

Name	Dose
Algae	
Chlorella vulgaris	22
Protozoa	
Nematode eggs	92
Paramecium	200
Giardia lamblia (3-log)	6-10
Cryptosporidium (3-log)	<10
Viruses	
Influenza	6.6
Poliovirus (poliomyelitis)	7
Rotavirus	24
Tobacco mosaic virus	440
Bacteriophage (E. Coli)	6.6
Hepatitis	8
Yeast	
Baker's yeast	8.8
Brewer's yeast	6.6
Common yeast cake	13.2
Saccharomyces ellipsoideus	13.2
Saccharomyces sp	17.6

*UV dose shown in mJ/cm²

Typical Installations



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Unit of Measure Conversion Chart

FLOW RATE			
Unit A	Unit B	Multiplier to Convert	
		A to B	B to A
gpm	L/min	3.785	0.2642
gpm	m ³ /hr	0.227	4.405
ft ³ /min	L/min	28.32	0.0353
ft ³ /min	gpm	7.481	0.1337
LENGTH			
Unit A	Unit B	Multiplier to Convert	
		A to B	B to A
in.	mm	25.4	0.03937
in.	cm	2.54	0.3937
in.	m	0.0254	39.37
ft.	m	0.3048	3.281
yards	m	0.9144	1.0936
yards	km	0.0009	1093.6
miles	km	1.609	0.6214
AREA/SURFACE			
Unit A	Unit B	Multiplier to Convert	
		A to B	B to A
in ²	cm ²	6.452	0.155
ft ²	cm ²	929.03	0.00108
ft ²	m ²	0.0929	10.764
in ²	ft ²	0.00694	144
sq. yards	m ²	0.8361	1.196
sq. miles	km ²	2.59	0.3861
acres	hectares	0.4047	2.471
VOLUME/LIQUID			
Unit A	Unit B	Multiplier to Convert	
		A to B	B to A
gal (US)	L	3.785	0.2642
gal (US)	ft ³	0.1337	7.481
gal (US)	m ³	0.003785	264.2
gal (US)	fl. oz.	128	0.0078
gal (US)	imperial gal	0.833	1.2
gal (US)	quart	4	0.25
in ³	cm ³	16.387	0.06102
in ³	liters	0.016387	61.023
ft ³	m ³	0.028317	35.314
ft ³	L	28.317	0.03531
fl. oz.	cm ³	29.57	0.03381
fl. oz.	ml	29.57	0.03381
lb	gal (US)	0.12	8.337
metric ton	gal (US)	264.2	0.003785
MASS/WEIGHT			
Unit A	Unit B	Multiplier to Convert	
		A to B	B to A
lb	g	453.6	0.0022
lb	kg	0.4536	2.205
grains	g	0.0648	15.432
oz	g	28.35	0.03527
oz	kg	0.02835	35.27
metric ton	kg	1000	0.001
ton, long UK	kg	1016	0.00098
ton, short US	kg	907.2	0.0011

TEMPERATURE			
Unit A	Unit B	Formula to Convert	
		A to B	B to A
Fahrenheit(°F)	Celsius (°C)	(°F-32)×0.556	(1.8×°C)+32
PRESSURE			
Unit A	Unit B	Multiplier to Convert	
		A to B	B to A
psi	bar	0.069	14.504
psi	kg/cm ²	0.0703	14.22
psi	kPa	6.895	0.145
psi	ft. H ₂ O	2.307	0.4335
CONCENTRATION			
Unit A	Unit B	Multiplier to Convert	
		A to B	B to A
ppm	mg/L	1	1
ppm	gpg	0.585	17.1
ppm	lb/1000 gal	0.0083	120.5
ppm	microSiemen	1.5	0.667
micromho	microSiemen	1	1
%	mg/L	10,000	0.0001
%	g/L	10	0.1
VELOCITY			
Unit A	Unit B	Multiplier to Convert	
		A to B	B to A
ft/min	cm/sec	0.508	1.969
ft/sec	cm/sec	30.48	0.0328
ft/min	gpm/ft ²	7.481	0.1337
ft/sec	gpm/ft ²	448.9	0.00223
cm/sec	gpm/ft ²	14.73	0.0679
OTHER			
TDS = Conductivity ÷ 1.5			
HP = [Flow (gpm) × Press (psi) × 2.31] ÷ [3960 × 0.5 (eff.)]			
Power Consumption KW = [Feed flow(GPM) × Feed pressure(PSI)] ÷ 1611			
1,000,000 Ω resistivity = 1.00 μS conductivity = 0.500 ppm TDS			
% Recovery = (Feed ÷ Permeate) × 100%			

KEY	
in = inches	mg = milligram
ft = feet	g = gram
mm = millimeter	gpg = grains per gallon
cm = centimeter	kg = kilogram
m = meter	psi = pounds per square inch
km = kilometer	kPa = kiloPascals
gal = gallon	gpm = gallons per minute
fl. oz. = fluid ounce	hr = hour
L = liter	min = minute
ml = milliliter	sec = second
lb = pound	TDS = total dissolved solids
KW = kilowatts	μS = microSiemen
Ω = mho	eff. = efficiency
HP = horsepower	

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Membrane Performance Factors

Temperature Correction

Temperature of the feed water and the net driving pressure across the element must be taken into account before comparing or evaluating the performance of a membrane element or a reverse osmosis system.

Temperature Correction Factor

The water temperature is one of the key factors in the performance of the reverse osmosis membrane element. The higher the temperature, the more the product flow, and vice versa.

All reverse osmosis membrane elements and systems are rated at 77° Fahrenheit (25° Celsius).

To find the membrane permeate rate at a different temperature, follow these steps:

Find the temperature correction factor (TCF) from the below table. Divide the rated permeate flow at 77° Fahrenheit by the temperature correction factor. The result is the permeate flow at the desired temperature.

$$\text{Rated Permeate Flow} \div \text{TCF} = \text{Temperature Correct Flow}$$

Example

QUESTION: For a thin-film membrane permeate rated at 1800 gallons per day at 77° Fahrenheit, what is the actual permeate rate at 59° Fahrenheit?

ANSWER: Temperature correction factor (from below table) for 59°F = 1.422
 Permeate flow at 59 degrees Fahrenheit = 1800 ÷ 1.422 = 1266 gallons/day

Feed Water Temperature		TCF for Thin Film
°C	°F	
10.0	50	1.711
10.5	50.9	1.679
11.0	51.8	1.648
11.5	52.7	1.618
12.0	53.6	1.588
12.5	54.5	1.558
13.0	55.4	1.530
13.5	56.3	1.502
14.0	57.2	1.475
14.5	58.1	1.448
15.0	59	1.422
15.5	59.9	1.396
16.0	60.8	1.371
16.5	61.7	1.347
17.0	62.6	1.323
17.5	63.5	1.299
18.0	64.4	1.276
18.5	65.3	1.254
19.0	66.2	1.232
19.5	67.1	1.210

Feed Water Temperature		TCF for Thin Film
°C	°F	
20	68	1.189
20.5	68.9	1.168
21.0	69.8	1.148
21.5	70.7	1.128
22.0	71.6	1.109
22.5	72.5	1.090
23.0	73.4	1.071
23.5	74.3	1.053
24.0	75.2	1.035
24.5	76.1	1.017
25.0	77	1.000
25.5	77.9	0.985
26.0	78.8	0.971
26.5	79.7	0.957
27.0	80.6	0.943
27.5	81.5	0.929
28.0	82.4	0.915
28.5	83.3	0.902
29.0	84.2	0.889
29.5	85.1	0.877

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Membrane Performance Factors

Net Pressure Correction

Net Pressure Correction

The higher the net pressure on a membrane element, the higher the permeate rate. A rough value of osmotic pressure of water can be calculated roughly by the following rule:

$$\text{Osmotic pressure (PSI)} = \text{Total Dissolved Solids} \div 100$$

To estimate the effect of net pressure, follow these steps:

1. Calculate the net pressure under operating conditions (P_{op})
 $P_{op} = \text{Average applied pressure} - \text{Average osmotic pressure of the feed water}$
2. Calculate the net pressure at which the membrane element is rated (P_r)
 $P_r = \text{Rated pressure} - \text{Osmotic pressure of test solution}$
3. Expected permeate flow at operating conditions = **Rated permeate flow** $\times P_{op} / (P_r)$

Example

QUESTION:

For a thin-film 4 × 40" membrane element, using a 2000 ppm, sodium chloride solution at 225 psi and 77 degrees Fahrenheit, the permeate rate is 1800 gallons/day. What is the permeate rate at 150 psi, feed water with 1000 TDS and temperature of 59 degrees Fahrenheit?

ANSWER:

Follow the below steps to come to your answer:

1. Temperature correction: Using the Temperature correction factor for 59°F (1.422) from the table:
 $1800 \text{ gpd Rated Flow} \div 1.422 = \mathbf{1266 \text{ gpd}}$
2. Osmotic Pressure: $\text{TDS of } 1,000 \div 100 = \mathbf{10 \text{ psi}}$
3. Applied Net Pressure: $150 \text{ psi feed pressure} - 10 \text{ psi osmotic pressure} = \mathbf{140 \text{ net pressure } (P_{op})}$
4. Rated net Pressure:
 - a. Osmotic pressure of the membrane pressure is $2000 \div 100 = \mathbf{20}$
 - b. $225 \text{ psi feed pressure} - 20 \text{ psi osmotic pressure} = \mathbf{205 \text{ psi rated net pressure } (P_r)}$

Using the numbers found in the 4 steps above, our calculation [$\text{Rated permeate flow} \times P_{op} / (P_r)$] will be:

$$1266 \times 140 \div 205 = \mathbf{865 \text{ gpd}}$$

Note:

When designing a system additional detailed calculations are necessary to take into account the effect of pressure drop and variation in total dissolved solids (TDS) throughout the system. Please contact us if you require further information.

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Membrane Performance Information

Membrane Rejection Characteristics

Nominal Rejection Characteristics of Thin Film Composite Reverse Osmosis Membranes

ION	% REJECTION
Calcium	93-98
Sodium	92-98
Magnesium	93-98
Potassium	92-96
Manganese	96-98
Iron	96-98
Aluminum	96-98
Copper	96-98
Nickel	96-98
Cadmium	93-97
Silver	93-96
Zinc	96-98
Mercury	94-97
Hardness Ca & Mg	93-97
Radioactivity	93-97
Chloride	92-95
Ammonium	80-90

ION	% REJECTION
Bromide	90-95
Phosphate	95-98
Chromate	85-95
Cyanide	85-95
Sulfate	96-98
Thiosulfate	96-98
Silicate	92-95
Silica	80-90
Nitrate	90-95
Boron	50-70
Borate	30-50
Fluoride	92-95
Polyphosphate	96-98
Orthophosphate	96-98
Chromate	85-95
Bacteria	99 +
Lead	95-98

Nominal Rejection Characteristics of Cellulose Triacetate Reverse Osmosis Membranes

ION	% REJECTION
Sodium	90-95
Calcium	92-95
Magnesium	94-97
Potassium	85-95
Iron	92-96
Manganese	92-96
Aluminum	95-98
Ammonium	85-90
Copper	96-98
Nickel	96-98
Zinc	96-98
Strontium	95-97
Cadmium	95-97
Silver	90-95
Mercury	94-96
Barium	94-96
Chromium	94-96

ION	% REJECTION
Lead	94-96
Chloride	90-95
Bicarbonate	85-95
Nitrate	50-70
Fluoride	85-90
Silicate	80-90
Phosphate	95-97
Chromate	80-90
Cyanide	80-90
Sulfite	94-96
Thiosulfate	94-97
Ferrocyanide	96-98
Bromide	85-90
Borate	25-50
Sulfate	96-98
Arsenic	90-95
Selenium	90-95

*The above percent rejection is for reference only. The above listing is for the most common impurities found in water. Thin Film Composite RO membranes may also remove other less common impurities found in water (i.e. Uranium, Arsenic, etc.) Actual rejection will depend heavily on the exact chemistry, temperature, pressure, and TDS content of the feed water. If you have any questions, please contact us.

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Membrane Performance Information

Comparison of Membrane Processes

Process	RO	NF	UF	MF	CF	
Examples of Common Constituents In Water	Metal Ions	Sugar	Pyrogen	Virus	Carbon Fines	Bacteria
Approx. Molecular Weight Cut-Off*	100	200	20,000	100,000	500,000	
Microns	0.0001	0.001	0.01	0.1	1.0	10.0

RO: Reverse Osmosis

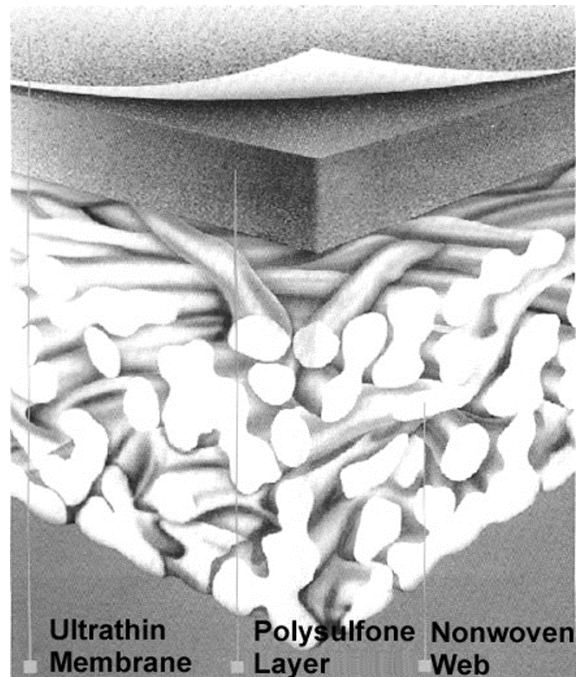
NF: Nanofiltration

UF: Ultrafiltration

MF: Microfiltration

CF: Conventional Filtration

* Used for sizing organics



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Membrane Maintenance Information

Membrane Cleaning Guidelines

When To Clean Membranes

In normal operation, the membrane in reverse osmosis elements can become fouled by suspended solids, microorganisms, and mineral scale. These deposits build up during operation and cause loss in water output or salt rejection, or both.

Elements should be cleaned whenever the normalized permeate water output rate drops by 10% from its initial flow rate (the flow rate established during the first 24 to 48 hours of operation), when salt passage in the product water increases over 5-10%, or when normalized pressure drop across the membrane increases by 10-15%.

It should be noted that the water output rate will drop if feed water temperature decreases (see Temperature Correction, page 11-2). This is normal and does not indicate membrane fouling.

Common Foulants and Their Associated Symptoms

Foulant	Symptoms	Solution per Membrane Type
Biological Growth	Element may have strong odor, possible mold growth on scroll end. Element will likely exhibit low permeate flow, but salt rejection will usually be as good if not better than original test.	TF: AM-22 CA: AM-33
Carbonate Scale	Usually on tap water or brackish water elements only. The element may be noticeably heavier than normal. Element will exhibit low permeate flow and poor salt rejection.	TF: AM-11 CA: AM-44
Iron Fouling	Rust coloring seen on end of scroll. Possibly some large rust flakes from iron plumbing. Element will exhibit low permeate flow and poor salt rejection. Rust colored reject water may be seen on start of baseline test	TF: AM-11 CA: AM-44
Silt or Carbon Fines	Brown or black material on scroll end. Low Flow, good rejection in early stages. High flow and very poor rejection in later stages due to the abrasive effects of the material on the membrane.	AM-55

Cleaning Sequence

Whether the system needs acid or alkaline cleaning will depend on the type of foulant suspected. If CaCO_3 is the known scalant, acid cleaning alone may be sufficient. Otherwise both kinds of cleaning are needed and it is recommended to start with the alkaline cleaning then follow with the acid cleaning after the system has been flushed.

1. ALKALINE CLEANING (if required)
2. FLUSH
3. ACID CLEANING
4. FLUSH

Note: Acid cleaning may be performed alone, but alkaline cleanings should always be followed by an acid cleaning after the system has been flushed.

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Membrane Maintenance Information

Membrane Cleaning Procedure

Use RO permeate water if possible, preferred. Whether the system needs acid (AM-11) or alkaline (AM-22) cleaning will depend on the type of foulant suspected. If both kinds of cleaning are desired, we recommend starting with the alkaline cleaning, then cleaning with the acid.

Note: If CaCO₃ is the known scalant, acid cleaning alone may be sufficient.

Cleaning System

Connect cleaning tank and pump system to the membrane system. It may be necessary to clean one tube at a time (see flow requirements, page 11-8). Pump pressure must not exceed 60 psi. Permeate and concentrate lines must return to the cleaning tank. Include a 10 micron filter in the feed line to the membrane.

Cleaning Procedure

Preparation of Solution

Add the cleaner slowly (for the proper amounts, check the detailed procedure for that cleaner) to cleaning tank water, and mix well.

CAUTION: *Mix with care and wear protective clothing.*

Cleaning Procedure

CAUTION: *Do not allow the cleaning solution temperature to exceed 120 degrees F. Do not allow the flows to exceed 4 gpm for 2½" elements, 12 gpm for 4" elements, or 40 gpm for 8" elements. Recirculate solution.*

- Operate system at 50 psi for 10 minutes. During this first 10 minutes of the cleaning cycle, the flow rate should be maintained at less than 1 gpm for 2½" elements, and less than 3 gpm for 4" elements, and less than 12 gpm for 8" elements to allow the foulants to loosen. The flow rate should then be increased to 3 gpm for 2½" elements, 9 gpm for 4" elements, and 35 gpm for 8" elements for 20 minutes to clear foulants from the system.
- Do not let the tank run dry. Add more water and cleaner if necessary.
- Discard cleaning solution to drain, diluting with copious amounts of water, then rinse tank well.
- Fill tank with clean water and flush system to drain for 10 to 15 minutes. Add clean water as necessary. Rinse the system until the concentrate pH is almost the same as the clean water pH.

CAUTION: *Flush thoroughly before cleaning with other cleaners. Cleaning chemicals may react with one another or with foulants to produce additional fouling on the membrane.*

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Membrane Maintenance Information

Membrane Cleaning Guidelines

Cleaning Flow Rates for Spiral Wound Membranes

Type	Volume (Gallons)	Medium Flow (GPM)	High Flow (GPM)
4" x 40"	2.5	4	10
4" Magnum	3.5	4	10
6" x 40"	4.0	12	20
8" x 40"	6.0	25	35
8" Magnum	8.5	25	35

Estimate of Cleaning Solution Volume

$$V = EI \times Vol \times 5$$

EI = Number of Elements

Vol = Volume of one element from Flow Tables

Estimate of Total Flow Required

$$HTF = NV \times HF$$

$$MTF = NV \times MF$$

HTF = High Total Flow

MTF = Medium Total Flow

NV = Number of Vessels in Parallel

HF = High Flow from Flow Table

MF = Medium Flow from Flow Table

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Membrane Maintenance Information

Membrane & System Preservation Process

Preserving Membranes and System with AM-88

The interior of a spiral membrane element is dark, moist and therefore an excellent breeding ground for microorganisms. When spiral elements are used, tested, or operated intermittently, they will probably be exposed to bacteria. During shutdown or storage periods of more than a few days, spiral elements should be disinfected or sterilized by filling the system with a biocidal solution. Up to 40% flux loss can occur from biological fouling in elements and modules that have been tested on non-sterile water, then stored on the shelf or in non-operating units for long periods.

To prevent biological growth during storage, shipping, or system shutdowns, it is recommended that RO systems and membranes be immersed in a solution of AM-88. This solution will not adversely affect membrane flux or performance.

System and Membrane Preservation Procedure

1. Make a water solution containing 2% by weight of AM-88. Add 75 grams of AM-88 for each gallon of water (use RO permeate if possible).
2. Flush and fill the system with this solution.
3. Drain the system as much as possible.
4. Seal the system.

Long Term Storage Procedure (Membranes Only)

1. Make a water solution containing 2% by weight of AM-88 and 20% by weight glycerin (99%, USP).
2. Drain and seal the membrane in a plastic bag.

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Membrane Maintenance Information

Membrane & System Disinfection Process

Disinfecting Membranes and System with PS-77

Hydrogen peroxide or a mixture of hydrogen peroxide and peracetic acid is used for disinfecting reverse osmosis systems and Thin-Film Composite membranes. Two factors greatly influence the rate of hydrogen peroxide attack on the membrane: Temperature and Iron.

Temperature:

The disinfecting solution should not exceed 77 degrees F (25 degrees C). Thin-Film Composite membranes tested at temperatures higher than 77 degrees F showed decreased salt rejection over a period of time. The higher the temperature, the faster the decrease occurs.

Iron:

The presence of iron or other transition metals in association with hydrogen peroxide will catalyze membrane degradation.

Disinfecting Procedure for Systems

1. Clean the system with AM-22 or AM-23. AM-22 or AM-23 will remove deposits in the system which harbors microorganisms. After cleaning, flush the system with RO permeate.
2. Clean the system with AM-11 to remove iron and other transition metals. After cleaning, flush the system with RO permeate.
3. Circulate a solution of PS-77 or hydrogen peroxide through the system in a ratio of 1:100 with RO permeate for 30 minutes, at a temperature not to exceed 77 degrees F.
CAUTION: Do NOT exceed this concentration or the membranes will be damaged.
4. Allow the system to soak in the disinfecting solution for 2-12 hours. A soak-time of 2 hours will kill more than 90% of the bacteria, whereas a soak time of 12 hours will kill 99% of the bacteria. After disinfecting, flush the system with RO permeate.

Disinfecting Procedure for Membranes

1. Clean the membrane with AM-22 or AM-23. AM-22 or AM-23 will remove deposits in the membrane which harbor microorganisms. After cleaning, flush the membrane with RO permeate.
2. Clean the membrane with AM-11 to remove iron and other transition metals. After cleaning, flush the membrane with RO permeate.
3. Circulate a solution of PS-77 or hydrogen peroxide through the membrane in a ratio of 1:100 with RO permeate for 30 minutes, at a temperature not to exceed 77 degrees F.
CAUTION: Do NOT exceed this concentration or the membranes will be damaged.
4. Allow the membrane to soak in the disinfecting solution for 30 minutes. After disinfecting, flush the membrane with RO permeate.

CAUTION: PS-77 or hydrogen peroxide is not recommended in contact with brass, copper, or iron parts and fittings of an RO system. Handle all chemicals with care. Wear protective clothing and eye protection.

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Membrane Maintenance Information

Membrane Storage, Shipping & System Shut-Down

Membrane Storage:

- Store Membranes in a cool area out of direct sunlight. Membrane storage temperature limits are 22°F-113°F. Dry (new) elements can go below 22°F.
- Preserve in a solution of 2% AM-88 and 20% AM-225. This will not prevent freezing below 32°F, but the crystals are soft and the membrane is not damaged.
- Keep new elements in their original packaging.
- Examine the preservative in preserved elements every 3 months. If preservative color is not clear, remove and re-preserve the element. The pH of the preservative should not drop below 3.
- Storage time of dry elements is unlimited.

Membrane Shipping:

- Preserve the element in the plastic bag using the recommended procedure. Make sure the plastic bag does not leak and the element is properly identified.
- Make sure the preservative solution is correctly labeled.
- Protect the element package from physical damage.

System Shut-Down:

- Clean the membranes in the system using the cleaning procedure.
- Circulate the preservative solution.
- Shut down the system and close valves to avoid air entering the system.
- Check preservative once a month.

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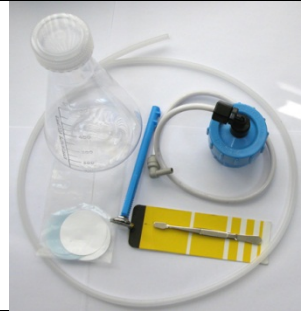
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Silt Density Index Test Method

Open kit and check that all items are present:

- Tubing for Feed
- Graduated Cylinder
- Filter Holder (with tubing connected)
- Tweezers
- Thermometer
- Sample SDI Membrane Filters



Connect the tubing to the feed port labeled "IN" by inserting the tubing into the fitting and pushing to the pipe-stop. Pull lightly on the tubing to check that it is secure.

(To remove the tubing when you are done testing: Push in the collet against the face of the fitting. With the collet held in this position the tube can be removed.)



Connect the elbow at the end of tubing attached to the filter holder by inserting the stem into the outlet labeled "OUT" and pushing to the pipe stop. Pull lightly on the elbow to check that it is secure.

(To remove the elbow when you are done testing: Push in the collet against the face of the outlet fitting. With the collet held in this position the elbow can be removed.)



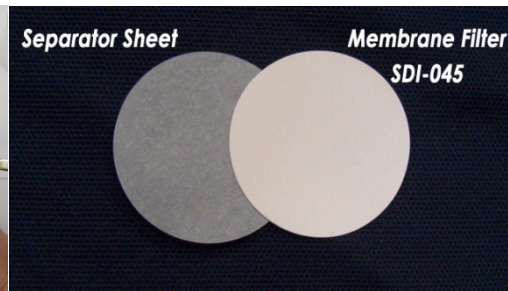
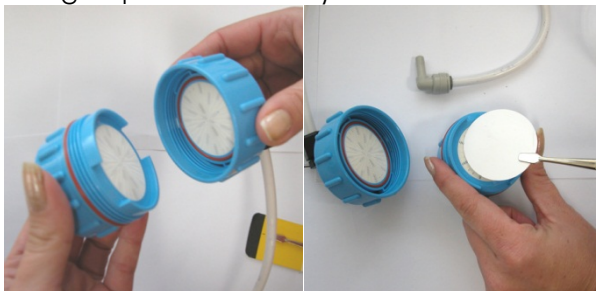
Once all connections are made, turn the feed water on by turning the control valve handle counter-clockwise to the open position. Purge air and adjust the pressure regulator to 30psi.

Return the valve to the closed position by twisting the handle clockwise.



Open the filter holder by twisting the cap, and place the membrane filter into the holder. Use the tweezers to handle the membrane filter – do not touch this with your hands. Note that the filters are packaged with blue separator sheets between them – these should be discarded.

(Begin testing as per instructions.)



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SDI Test Method & Calculation

Preparation

1. Assemble the measuring equipment per setup instructions.
2. Install Filter Holder
3. Attach input hose to source. Note: source must be at a pressure greater than 30 psi to give a proper test.
4. Open ball valve and adjust pressure regulator to 30 psi. This is the proper pressure for the test and should be maintained at all times.
5. Once the pressure regulator is adjusted, close the ball valve. The equipment is ready to begin testing.

Testing and Calculation

1. Install new filter in the filter holder. The filter disk goes below the o-ring laying flat against the perforated screen.
2. Direct the output from the filter holder to the 500 ml container. Open the ball valve and begin timing. T_0 is the time it takes to fill the 500 ml container starting when the valve is first opened.
3. Let the water run through the filter at the constant pressure of 30 psi for 15 minutes. Take another reading for the time it takes to fill the 500 ml container. This is T_{15} .
4. After the time to fill the 500 ml container starting at 15 minutes (T_{15}) is recorded, the test may be discontinued.
5. Using the values of T_0 and T_{15} , calculate the value of SDI from the formula below. This is called the standard SDI, and is referred to as SDI_{15} .
6. It is possible that the filter may get completely plugged or it may take too long to collect the 500 ml sample after 15 minutes. In that case, starting with a new filter, repeat the process at 5 minutes, instead of 15 minutes. The SDI calculated using this information is called SDI_5 . If possible, starting with a new filter, you may also determine SDI_{10} (at 10 minutes).
7. The formula for calculating the Silt Density Index is as follows:

$$S.D.I. = [(1 - T_0/T_t) \times 100] \div t$$

Small t = the time elapsed between the first timed test and the second timed test, and is usually 15 minutes as stated in 3 above unless plugging occurs and the process needs to be repeated at a 5 minute interval. A typical calculation (using 15 minutes) is as follows:

$$S.D.I. = [(1 - 30/90) \times 100] \div 15 = 4.4$$

Where T_0 = 30 seconds, T_{15} = 90 seconds, and t = 15 minutes.

8. The test may, of course, be repeated (using a new filter each time) at the same interval, and an average of the SDI readings may be used for analysis.

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System Design & Feed Analysis Worksheet

RO System Design Questionnaire

Date: _____

1. COMPANY: _____
2. CONTACT: _____
3. Please provide a copy of any job specifications.

<u>FEED WATER</u>	
Source	
Flow	
Flow Limit?	
Temp. range*	
Pressure	
Quality Fluctuations?	
Feed Analysis (Complete below or attach a copy)	
Units are as:	
PPM Ion _____	
PPM Calcium Carbonate _____	
pH	
Calcium	
Sulfate	
Potassium	
Silica	
Bicarbonate	
Sodium	
Nitrate	
Magnesium	
Chloride	
Iron	
Other	
TDS (PPM)	
Conductivity (µMHOS/CM)	
Turbidity	
Color	
BOD/COD	
TOC	
Suspended solids	

<u>FACILITIES</u>	
Space	
Length	
Width	
Height	
Access Door	
Power	
Volts	
Phase	
Cycles (HZ)	
Max. Amps	
Location	
Indoor	
Outdoor	
Ambient Temperature	
Max. Temp.	
Min. Temp.	
Altitude	

<u>PRODUCT WATER</u>	
Flow Required	
In Hours/day	
Quality Required (In TDS, Conductivity or Resistivity)	
TDS	
Conductivity	
Resistivity	
pH	
Application	

Additional Information:

* Temperature range accuracy is important to minimize equipment cost.

Order Form

Bill To:	Ship To:
Company: _____ _____	Company: _____
Attention: _____	P.O. # _____
Address: _____ _____	Attention: _____
Phone: _____	Address: _____ _____
Email: _____	Phone: _____
-Or- Account # _____	Fax: _____
(If known) _____	Email: _____

Payment (check one)

Bill to my account:
 I have an existing account with terms
 I have enclosed a credit application (approval may take 7-10 business days)

Prepayment (please see banking information)

Credit Card (Visa, Mastercard, American Express, & Discover):
 # _____ Exp. _____

Ship via: _____

Prepaid
 Collect: Carrier Acct # _____

Qty.	Item Number	Description	Unit Price	Extended Price

Special Instructions: _____ _____	Total Sales Amount:	\$ _____
--	----------------------------	----------

*Sales Tax Charges may apply for California Residents. Please fax a copy of your re-sale certificate for California tax exemption.

*Pricing is Ex-Works, Vista, CA and in US Dollars.

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Credit Application

Company _____

Address _____

City _____ State _____ Zip _____ Phone (____) _____

E-mail _____ Fax (____) _____

DBA _____ Affiliated Companies _____

Proprietor _____ Partnership _____ Corporation _____

Incorporated: State _____ Year _____

<i>Owner(s) Name/SSN</i>	<i>Home Address, Zip</i>	<i>Phone #</i>
_____	_____	_____
_____	_____	_____

*Attach copies of credit references

Have you been a party to a suit within the last 5 years, have any outstanding judgments against you, or have gone through foreclosure _____

I do hereby authorize my bank to disclose information concerning my accounts.

Declared bankruptcy within the last 10 years _____ Year _____

Bank Name _____ Account Number _____

Contact _____

Address _____ Phone (____) _____

Bank Name _____ Account Number _____

Contact _____

Address _____ Phone (____) _____

	Trade Creditor Street	City	Zip	Phone	Fax
1.	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____

Resale# _____ Fed Tax ID# _____

Payment Terms: To be received at Applied Membranes, Inc., Vista, California, within 30 days from invoice date.

The customer agrees to pay all service/late charges, reasonable attorney's fees, court costs, investigation costs, and expert witness fees incurred in the collection of the customer's past due account.

A service charge of 1 1/2% per month (18% annually) will be assessed on past due amounts.

Any disputes relating to the customer's account will be governed by California law, and shall be litigated only in the superior or municipal court for the county of San Diego, and no other.

Signed _____ Title _____ Date _____
Co. Officer

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Product Warranty

- SELLER hereby warrants to CUSTOMER that the goods herein described will be free from any liens or encumbrances, that good title to said goods will be conveyed to CUSTOMER by sale of same.
- SELLER warrants materials of its own manufacture against defects in material and workmanship under normal conditions of usage and service for one year from whichever of the following events occur first:
 - First use in a system
 - Three (3) months following date of shipment from Vista.

Materials not manufactured by SELLER receive only such warranty, if any, of the manufacturer thereof and which are hereby assigned to CUSTOMER without recourse to SELLER.

SELLER'S obligation under this warranty is limited to and shall be fully discharged by repairing or replacing any defective part FOB its works. SELLER shall not be liable for repair or alterations made without SELLER'S prior written approval; for membrane elements becoming plugged by suspended matter, precipitates, or biological growth; or for failure to properly maintain the element. SELLER shall not be liable for damages or delay caused by defective material. Elements returned to SELLER for warranty examination must be shipped freight prepaid.

- **SELLER'S Liability.** SELLER SHALL NOT BE LIABLE FOR PROSPECTIVE PROFITS OR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, NOR SHALL RECOVERY OF ANY KIND AGAINST SELLER BE GREATER IN AMOUNT THAT THE PURCHASE PRICE OF THE SPECIFIC GOODS SOLD AND CAUSING THE ALLEGED DAMAGE, WHETHER SUCH CLAIM BE BASED ON CONTRACT OR TORT; provided, however, the aforesaid to the contrary notwithstanding, SELLER shall not be liable for any bodily injuries or property damage directly caused by its willful, wanton or negligent acts.
- **All Other Warranties and Damages.** THERE ARE NO WARRANTIES ESTABLISHED, EXPRESS OR IMPLIED OR STATUTORY, INCLUDING THE WARRANTY OF MERCHANTABILITY, EXCEPT THOSE SET FORTH ABOVE OR ANY PERFORMANCE WARRANTY WHICH IS ATTACHED TO THIS ORDER.
- **Permits, Ordinances and Code Compliance.** CUSTOMER has full responsibility for obtaining any licenses, permits and inspections required with respect to installation and use of the goods herein described.
- **Governing Law.** Any agreement based upon this Order and the obligations thereby imposed on SELLER and CUSTOMER shall be governed by and construed according to the laws of the State of California.

Membrane Warranty

Important Note: If a membrane performs as per specifications when first tested in the system (allowing for water temperature effect), then the membrane is good. Any performance decline after this has nothing to do with the membrane. The performance decline is due to one or more of the following:

- Chlorine Leakage
- Colloidal Particles or Suspended Solids
- Hardness, Iron or other fouling
- Microbiological Fouling
- Physical Abuse
- O-Ring Leak

The water quality and the way the system is operated may lead to premature failure. It sometimes takes only a few hours to damage the membrane. The membrane does not lose its performance unless it is subjected to poor operating conditions or improper pretreatment. Performance problems at startup should be reported immediately.

- 1. Terms of Pro-rated Performance Warranty** - Subject to the conditions set forth in Sections 3 and 4 below, AMI warrants the performance of its elements for one (1) year from whichever of the following events occurs first: a. First use in system; b. Three (3) months following date of shipment from Vista, CA.
- 2. Initial Performance** - AMI warrants the elements herein offered have the initial minimum permeate flow and initial minimum salt rejection as specified in the Technical Bulletin(s) when such elements are tested under standard conditions specified by AMI.
 - a. Buyer is responsible for testing of each element to ensure element meets performance specified in the Technical Bulletin(s).
 - b. Should any element not meet performance specifications, and Buyer notifies AMI of such deficiency within 10 days from date of testing of element(s) by Buyer, AMI will, upon confirmation of faulty performance, repair or replace the defective element(s) at no charge. Shipping costs, in such case, will be paid by AMI.
- 3. Performance During Three Year Warranty Period** - During the first year of operation on the element(s), AMI warrants that minimum permeate flow, when operated under standard conditions published by AMI, shall be at least 70 percent of the specified initial average flow. AMI further warrants that maximum salt passage, when element is operated under standard conditions published by AMI and pressure required to give the initial rated flow, will not exceed 1.35x the specified maximum value. AMI will, on confirmation of loss of performance during the warranty period, credit 1/12 of the original purchase price of the element for each unused month of the warranty period toward the purchase of a replacement element and the current prevailing price.
- 4. Conditions of Warranty**

The performance warranty described in section 3 above shall be null and void if any of the following conditions are not met:

 - a. The feedwater to the element(s) shall have less than one (1) NTU turbidity and a silt density index at 15 mins. (SDI₁₅) of less than 5.0;
 - b. The feedwater to the element(s) shall contain no oil, grease, or other organic or inorganic matter harmful to the membrane;
 - c. The feedwater temperature shall not exceed 113°F (45°C). The element(s) shall not be exposed during operation, cleaning, or in shutdown periods, to pH outside the range given in specification sheet and adequate provisions against microbiological contamination shall be incorporated into the system and design, as well as into all operating and maintenance procedures. The element(s) shall not be exposed to pressure outside the limit in the specification sheet;
 - d. Backpressure (where permeate static pressure exceeds reject static pressure) shall not exceed 5 psi at any time;
 - e. The element(s) shall be operationally protected against hydraulic shock loading (water hammer);
 - f. The element(s) shall be maintained in a clean condition, unfouled by particulate matter or precipitates or biological growth; *If scaling or fouling should occur, or normalized element flow decline 10%, cleaning procedures should be initialized;*
 - g. The system array, recovery, and instrumentation, and the design parameters and components of the system in which the element(s) are employed, shall be consistent with sound engineering practice;
 - h. Buyer is responsible for providing the user with the adequate system operating and maintenance manuals, operator and supervisor training, and ensuring user's ability to perform cleaning and other performance restoration and diagnostic procedures;
 - i. Buyer shall ensure that frequent, adequate system and subsystem performance data are routinely logged, reviewed, and filed in a systematic format, such information to be available to AMI on a reasonable basis in the event a claim is made against AMI pursuant to this performance warranty.
- 5. Repair or Replacement** - AMI's obligation under this warranty and Buyer's sole remedy for any breach of warranty is limited to and shall be fully discharged by AMI repairing any defective element or, at AMI's discretion, replacing same at the then selling price f.o.b. AMI's plant, plus a service and handling charge of thirty dollars (\$30.00) per element, less a prorated rebate on the unrealized life of the warranty period. AMI reserves the right to test the alleged defective elements and the reverse osmosis systems on user's or Buyer's premises or to request Buyer to perform such inspections or tests and forward the results thereof to AMI. If the element failure is determined to be from cause other than breach of warranty as set forth above, Buyer shall pay to AMI a fee of \$800 per day, plus direct travel expenses incurred by AMI's employees, in connection with any inspection and testing of such elements and systems on Buyer's premises. Elements shipped to AMI for warranty examination must be shipped freight prepaid. Elements examined as part of a warranty claim which are found to be performing as warranted will be returned to the Buyer freight collect and a handling charge will be levied against the Buyer, as described in the published Element Return Procedures

Reminders

- Permeate obtained from first hour of operation should be discharged.
 - Elements must be in use for at least 6 hours before formaldehyde is used as a biocide. If the elements are exposed to formaldehyde before this period, a severe loss in flux may result.
 - Neither nonionic nor cationic surfactants, nor any other chemical not approved by AMI, should be used for membrane cleaning or come in contact with AMI elements. The customer is fully responsible for the effects of unapproved chemicals on AMI elements; their use will void the warranty.
 - Before returning any element(s) to AMI for warranty examination, see the Element Return Procedures technical bulletin.
- 6. UF & MF Membranes & Systems for Non-Water Treatment Applications** - The performance of membranes for process and waste water applications is difficult to predict. Each situation is different in the liquid composition and can drastically change the performance of the membrane, its fouling and useful life. AMI makes no specific claims on the permeate flow, rejection or membrane life for these applications. This information must come from the customer either from prior experience or from pilot testing under actual process conditions. AMI can only provide flux information with non-fouling water. The molecular weight cut-off information is a guideline number and must be treated as such. Different compounds with similar molecular weight cut-offs can behave very differently in their rejection by a membrane. Also, different material membranes with the same MWCO may mean different rejections for the same compound. In short, for process and waste water applications the customer must take the responsibility of the membrane performance. AMI will honor warranty only if the initial non-fouling water permeate flow under the test conditions is lower or if there is an initial mechanical defect. No performance warranty is given or implied by anyone or any sales literature from AMI.

Warranty Notice - Failure or refusal to fully disclose to AMI the use and operating parameters of AMI membrane elements shall render all warranties other than that covering materials and workmanship null and void.*The warranty information above is Applied Membranes, Inc. membrane warranty, and pertains to membrane elements manufactured by Applied Membranes, Inc. For other manufacturers, their individual warranties will apply.

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