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
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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Sizes (NPT, Inches)</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
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</thead>
<tbody>
<tr>
<td>AA-12514</td>
<td>220 m³/day</td>
<td>1</td>
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<td>Width 21/53, Depth 17/43, Height 26/66</td>
<td>55/24</td>
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<tr>
<td>AA-12521</td>
<td>350 m³/day</td>
<td>1</td>
<td>2.5&quot; x 21&quot;</td>
<td>Width 28/71, Depth 17/43, Height 26/66</td>
<td>60/26</td>
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<tr>
<td>AA-22521</td>
<td>700 m³/day</td>
<td>2</td>
<td>2.5&quot; x 21&quot;</td>
<td>Width 28/71, Depth 17/43, Height 26/66</td>
<td>70/30</td>
</tr>
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<td>AA-32521</td>
<td>1,000 m³/day</td>
<td>3</td>
<td>2.5&quot; x 21&quot;</td>
<td>Width 28/71, Depth 17/43, Height 26/66</td>
<td>75/34</td>
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</tbody>
</table>

Optional Equipment
- 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, 60hz.
- Voltage Codes:
  - 116 = 110v, 1ph, 60Hz
  - 216 = 220/230v, 1ph, 60Hz
  - 215 = 220/230v, 1ph, 50Hz
  - Three Phase Not Available
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)

Controller Features:

- Panel mounted on/off switch

Indicator Lights:

- Service run/system flush
- Storage tank full/pretreatment lockout
- Low pressure shutdown/auto restart

UL508A Labeled

I-ROC250H

<p>|</p>
<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Sizes (NPT, Inches)</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (lb/kg)</th>
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<tr>
<td>WM-12521A-116</td>
<td>250</td>
<td>0.9</td>
<td>1</td>
<td>2.5 x 21</td>
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<td>WM-22521A-116</td>
<td>500</td>
<td>1.9</td>
<td>2</td>
<td>2.5 x 21</td>
<td>⅝</td>
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<td>WM-32521A-116</td>
<td>750</td>
<td>2.6</td>
<td>3</td>
<td>2.5 x 21</td>
<td>⅝</td>
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<td>4</td>
<td>2.5 x 21</td>
<td>½</td>
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<tr>
<td>WM-225A-116</td>
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<td>2.5 x 40</td>
<td>⅝</td>
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<td>WM-325A-116</td>
<td>1,700</td>
<td>6.4</td>
<td>3</td>
<td>2.5 x 40</td>
<td>⅝</td>
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<tr>
<td>WM-425A-116</td>
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<td>8.3</td>
<td>4</td>
<td>2.5 x 40</td>
<td>⅝</td>
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<tr>
<td>WM-24A-116</td>
<td>4,000</td>
<td>15.1</td>
<td>2</td>
<td>4.0 x 40</td>
<td>½</td>
</tr>
</tbody>
</table>

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
  - 216 = 220 or 230V/1ph/60Hz
  - 215 = 220V/1ph/50Hz
  - Three phase not available.
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# A616 - for 27”L Units  
Part# A615 - 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

**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# YLP2PPAS) for system on/off; Triple Float assembly (Part# YLP3PPAS) 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
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

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 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)
--- | --- | --- | --- | --- | ---
WMH-14A-116 | 2000 GPD | 8 Qty. | 1 | 4 x 40 | ¼ | ⅝ | ¾ |
| | m³/day | | | | 34/86 | 12/30 | 52/132 | 152/69
WMH-24A-116 | 4000 GPD | 15 Qty. | 2 | 4 x 40 | ¼ | ⅝ | ¾ |
| | m³/day | | | | 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
  - 216 = 220 or 230V/ 1ph/ 60hz
  - 215 = 220V/1ph/50hz
- Three phase not available.
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*

**Pre-treatment Options Available:**
- Sediment Filters in a variety of micron ratings:
  - 1µ: H-F20BB01CF
  - 5µ: H-F20BB05CF
  - 10µ: 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

**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

**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

**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).

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 # A612-80

**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
Advantage Series – Complete Compact RO Systems up to 10,000 GPD

• 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.
- 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

<table>
<thead>
<tr>
<th>Model No.*</th>
<th>System Capacity</th>
<th>Membrane Qty.</th>
<th>Connections</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-125A</td>
<td>350 1.3 GPD</td>
<td>1</td>
<td>1/2&quot; : 1/2&quot; : 1/2&quot;</td>
<td>60</td>
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<tr>
<td>P-225A</td>
<td>700 2.7 GPD</td>
<td>2</td>
<td>1/2&quot; : 1/2&quot; : 1/2&quot;</td>
<td>65</td>
</tr>
<tr>
<td>P-325A</td>
<td>1,000 3.8 GPD</td>
<td>3</td>
<td>1/2&quot; : 1/2&quot; : 1/2&quot;</td>
<td>70</td>
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</table>

### 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

<table>
<thead>
<tr>
<th>Model No.*</th>
<th>System Capacity</th>
<th>Membrane Qty.</th>
<th>Connections</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
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<tbody>
<tr>
<td>T-125A</td>
<td>600 2.0 GPD</td>
<td>1</td>
<td>1/2&quot; : 1/2&quot; : 1/2&quot;</td>
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<tr>
<td>T-225A</td>
<td>1,200 4.5 GPD</td>
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<td>1/4&quot; : 1/2&quot; : 1/2&quot;</td>
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<td>T-325A</td>
<td>1,700 6.4 GPD</td>
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<td>1/4&quot; : 1/2&quot; : 1/2&quot;</td>
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### 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

<table>
<thead>
<tr>
<th>Model No.*</th>
<th>System Capacity</th>
<th>Membrane Qty.</th>
<th>Connections</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
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</thead>
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<td>2,000 7.5 GPD</td>
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<td>1/4&quot; : 1/2&quot; : 1/2&quot;</td>
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</tr>
<tr>
<td>M-24A</td>
<td>4,000 15.0 GPD</td>
<td>2</td>
<td>1/4&quot; : 1/2&quot; : 1/2&quot;</td>
<td>235</td>
</tr>
<tr>
<td>M-34A</td>
<td>5,800 22.0 GPD</td>
<td>3</td>
<td>1/4&quot; : 1/2&quot; : 1/2&quot;</td>
<td>250</td>
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<tr>
<td>M-44A**</td>
<td>7,500 28.0 GPD</td>
<td>4</td>
<td>1/4&quot; : 1/2&quot; : 1/2&quot;</td>
<td>265</td>
</tr>
<tr>
<td>M-54A**</td>
<td>9,000 34.0 GPD</td>
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<td>1/4&quot; : 1/2&quot; : 1/2&quot;</td>
<td>280</td>
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<tr>
<td>M-64A**</td>
<td>10,000 38.0 GPD</td>
<td>6</td>
<td>1/4&quot; : 1/2&quot; : 1/2&quot;</td>
<td>295</td>
</tr>
</tbody>
</table>

### Voltage Code and System Notes

**Voltage Code:** Please add our voltage codes to the end of the model number when ordering. Example: M-14A-116

- **116** = 110v, 1ph, 60hz (P & T Models only)  
- **216** = 220/230v, 1ph, 50hz  
- **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 < NTU turbidity, or silt density index (SDI) of 3, media filter pretreatment recommended.
- **Systems rated:** 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.**
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
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

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

Ordering Information

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Sizes (NPT, Inches)</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (lb/kg)</th>
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<tbody>
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<td>L-12521A</td>
<td>300 GPD</td>
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<td>20/51</td>
<td>230/104</td>
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<td>L-225A</td>
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<td>4&quot; x 40&quot;</td>
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<td>4&quot; x 40&quot;</td>
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<td>375/170</td>
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<td>400/181</td>
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</table>

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, 1ph, 60hz.

- **Voltage Codes:**
  - 116 = 110v, 1ph, 60hz (up to L-24A only)
  - 216 = 220/230v, 1ph, 60hz
  - 215 = 220/230v, 1ph, 50hz
  - 236 = 240v, 3ph, 60hz (L-34A+ Only)
  - 235 = 240v, 3ph, 50hz (L-34A+ Only)
  - 436 = 460v, 3ph, 60hz (L-34A+ Only)

- All dimensions and weights are approximate.
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
**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)

**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)

**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

**Recommended Optional Pre-Treatment Equipment**
- Carbon filter
- Water Softener
- Multi-media filter

**Model No.**
- **XL-14A-216**
  - GPD: 2,000
  - m³/day: 7.5
  - Qty. of 4x40 Membrane Elements (XLE): 1
  - Line Sizes (NPT, Inches): 3/4
  - System Dimensions (in/cm): 20/51 (Length), 28/71 (Depth), 54/137 (Height)
  - System Weight (Lb/Kg): 275/125

- **XL-24A-216**
  - GPD: 4,000
  - m³/day: 15
  - Qty. of 4x40 Membrane Elements (XLE): 2
  - Line Sizes (NPT, Inches): 1/2
  - System Dimensions (in/cm): 20/51 (Length), 28/71 (Depth), 54/137 (Height)
  - System Weight (Lb/Kg): 300/136

- **XL-34A-216**
  - GPD: 5,800
  - m³/day: 22
  - Qty. of 4x40 Membrane Elements (XLE): 3
  - Line Sizes (NPT, Inches): 3/4
  - System Dimensions (in/cm): 20/51 (Length), 28/71 (Depth), 54/137 (Height)
  - System Weight (Lb/Kg): 325/147

- **XL-44A-216**
  - GPD: 7,500
  - m³/day: 28
  - Qty. of 4x40 Membrane Elements (XLE): 4
  - Line Sizes (NPT, Inches): 1/2
  - System Dimensions (in/cm): 20/51 (Length), 34/87 (Depth), 54/137 (Height)
  - System Weight (Lb/Kg): 350/159

- **XL-54A-216**
  - GPD: 9,000
  - m³/day: 34
  - Qty. of 4x40 Membrane Elements (XLE): 5
  - Line Sizes (NPT, Inches): 1/2
  - System Dimensions (in/cm): 20/51 (Length), 34/87 (Depth), 54/137 (Height)
  - System Weight (Lb/Kg): 375/170

- **XL-64A-216**
  - GPD: 10,000
  - m³/day: 38
  - Qty. of 4x40 Membrane Elements (XLE): 6
  - Line Sizes (NPT, Inches): 1/2
  - System Dimensions (in/cm): 20/51 (Length), 34/87 (Depth), 54/137 (Height)
  - System Weight (Lb/Kg): 400/181

**Notes and Voltage/Ordering Information**
- **All dimensions and weights are approximate.**
- **Capacity Basis:** 24 hrs/day
- **System 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.

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**Applied Membranes, Inc.**
Industry Leader in RO Expertise and Membrane Applications Since 1983

Phone: (760) 727-3711 • Fax: (760) 727-4427 • www.appliedmembranes.com • sales@appliedmembranes.com

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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
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
- 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-ROC 300
UL Listing Optional

Recommended Optional Pre-Treatment Equipment
- Carbon filter
- Water Softener
- Multi-media filter
- Antiscalant Injection

Ordering Information

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Sizes (NPT, Inches)</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HL-12521A-116</td>
<td>300 GPD</td>
<td>1</td>
<td>2.5 x 21</td>
<td>20/51 24/61 55/140</td>
<td>230/104</td>
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<tr>
<td>HL-125A-116</td>
<td>600 GPD</td>
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<td>2.5 x 40</td>
<td>20/51 24/61 55/140</td>
<td>240/109</td>
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<tr>
<td>HL-225A-116</td>
<td>1,200 GPD</td>
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<td>2.5 x 40</td>
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<tr>
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<td>4 x 40</td>
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<tr>
<td>HL-24A-116</td>
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<td>4 x 40</td>
<td>20/51 24/61 55/140</td>
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<tr>
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<td>HL-44A-216</td>
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<td>4 x 40</td>
<td>20/51 32/82 55/140</td>
<td>350/159</td>
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<tr>
<td>HL-54A-216</td>
<td>7,500 GPD</td>
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<td>4 x 40</td>
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<tr>
<td>HL-64A-216</td>
<td>9,000 GPD</td>
<td>34</td>
<td>4 x 40</td>
<td>20/51 32/82 55/140</td>
<td>400/181</td>
</tr>
</tbody>
</table>

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-12521A-116 = 110v, 1 ph, 60hz.
  - Voltage Codes: 116 = 110v, 1ph, 60hz (up to L-24A only)
  - 216 = 220v/230v, 1ph, 60hz

Phone: (760) 727-3711 • Fax: (760) 727-4427 • www.appliedmembranes.com • sales@appliedmembranes.com
Series J Systems use 4” x 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
**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

**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)

**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

**Optional Equipment**
- Stainless steel boost or repressurization pump
- pH monitor for feed or for permeate
- Chemical injection
- ORP monitor/controller
- Filter housing upgrade to SS
- Turbidity monitor
- Permeate divert to drain
- UV system, feed or permeate
- FRP membrane housings
- Low energy membranes
- Clean-in-place - doubles as a permeate flush system

**Model No.**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>GPM</th>
<th>GPD</th>
<th>m³/hr</th>
<th>No. of Elements</th>
<th>Line Sizes (Inches)</th>
<th>Dimensions (In/cm)</th>
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<td>80/203 35/89 75/191</td>
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</table>

**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
- 436 = 460 or 480v/3ph/60Hz
- 335 = 380v/3ph/50Hz

**UL508A Labeled**

**LED Display:**
- Permeate TDS
- Feed TDS with % Rejection
- Water Temperature
- Operating Status
- Alarm condition

**I-ROC150S**
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
## Standard Equipment
- Thin Film Composite Membranes
- Stainless steel multi-stage centrifugal pump
- FRP pressure vessels
- Polypropylene SM 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
- 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

## Monitoring 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)
- 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

## Optional Equipment
- Stainless steel boost or repressurization pump
- pH monitor for feed or for permeate
- Chemical injection
- Pre-treatment: Softener, carbon, media
- VFD Drives
- ORP monitor/controller
- Filter housing upgrade to SS
- Turbidity monitor
- Permeate divert to drain
- UV system, feed or permeate
- FRP membrane housings
- Low energy membranes
- Clean-in-place doubles as a permeate flush system
- PLC with 10" Touchscreen

## Ordering Information

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Sizes (NPT, Inches)</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (Lb/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPM</td>
<td>GPD</td>
<td>m³/hr</td>
<td>Inlet Perm. Conc.</td>
<td>Length</td>
<td>Depth</td>
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<tr>
<td>K-48B</td>
<td>20</td>
<td>28,800</td>
<td>4 2 1½ 1½</td>
<td>120/305</td>
<td>44/112</td>
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<tr>
<td>K-68C</td>
<td>30</td>
<td>43,200</td>
<td>6 2 1½ 1½</td>
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<td>K-98C</td>
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<td>44/112</td>
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<td>194/493</td>
<td>44/112</td>
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<tr>
<td>K-168D</td>
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<td>108,000</td>
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<td>60/152</td>
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<td>136,800</td>
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<td>60/152</td>
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<tr>
<td>K-248D</td>
<td>115</td>
<td>165,600</td>
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<td>194/493</td>
<td>60/152</td>
</tr>
<tr>
<td>K-288D</td>
<td>135</td>
<td>194,400</td>
<td>28 4 3 2</td>
<td>194/493</td>
<td>60/152</td>
</tr>
<tr>
<td>K-368F</td>
<td>175</td>
<td>252,000</td>
<td>36 4 3 2</td>
<td>288/731</td>
<td>60/152</td>
</tr>
<tr>
<td>K-428F</td>
<td>200</td>
<td>288,000</td>
<td>45 4 3 2</td>
<td>288/731</td>
<td>60/152</td>
</tr>
<tr>
<td>K-488F</td>
<td>225</td>
<td>324,000</td>
<td>51 4 3 2</td>
<td>288/731</td>
<td>60/152</td>
</tr>
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<td>360,000</td>
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<td>K-608F</td>
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<td>432,000</td>
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<td>460,000</td>
<td>74 6 4 3</td>
<td>custom</td>
<td>custom</td>
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## 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
- 436 = 460 or 480v/3ph/60Hz
- 235 = 220v/3ph/50Hz
- 335 = 380v/3ph/50Hz

Single Phase Not Available
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 point
- Booster Pump and Raw Water Strainer
- Fresh Water Flush Module
- Installation Kit

**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)

**Model No.**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Sizes (NPT, Inches)</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maritime 150</td>
<td>150 GPD, 567 LPD</td>
<td>qty. 1</td>
<td>2.5 x 21&quot;</td>
<td>Width 25.1/63.8, Depth 19/48.3, Height 12.5/31.6</td>
<td>110/50</td>
</tr>
<tr>
<td>Maritime 300</td>
<td>300 GPD, 1135 LPD</td>
<td>qty. 2</td>
<td>2.5 x 21&quot;</td>
<td>Width 25.1/63.8, Depth 19/48.3, Height 12.5/31.6</td>
<td>115/52</td>
</tr>
<tr>
<td>Maritime 400</td>
<td>400 GPD, 1514 LPD</td>
<td>qty. 1</td>
<td>2.5 x 40&quot;</td>
<td>Width 44.2/112, Depth 19/48.3, Height 12.5/31.6</td>
<td>130/60</td>
</tr>
<tr>
<td>Maritime 800</td>
<td>800 GPD, 3028 LPD</td>
<td>qty. 2</td>
<td>2.5 x 40&quot;</td>
<td>Width 44.2/112, Depth 20/50.8, Height 18/45.7</td>
<td>140/65</td>
</tr>
<tr>
<td>Maritime 1200</td>
<td>1,200 GPD, 4542 LPD</td>
<td>qty. 3</td>
<td>2.5 x 40&quot;</td>
<td>Width 44.2/112, Depth 20/50.8, Height 18/45.7</td>
<td>150/70</td>
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<tr>
<td>Maritime 1600</td>
<td>1,600 GPD, 6056 LPD</td>
<td>qty. 4</td>
<td>2.5 x 40&quot;</td>
<td>Width 44.2/112, Depth 20/50.8, Height 18/45.7</td>
<td>180/80</td>
</tr>
</tbody>
</table>

**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:
- 110 = 110v, 1ph, 60hz
- 216 = 220/230v, 1ph, 60hz
- 215 = 220/230v, 1ph, 50hz
- 236 = 220 or 230v/3ph/60hz
- 235 = 220v/3ph/50hz

Phone: (760) 727-3711  •  Fax: (760) 727-4427  •  www.appliedmembranes.com  •  sales@appliedmembranes.com
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
- 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

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)
- 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 | Approx. Shipping Weight (lb/Kg) |
---|---|---|---|---|---|
Voyager 150 | 150 567 | 1 2.5 x 21" | ¼ ¼ ½ | 1.40 | 5.3 | 110/50 |
Voyager 300 | 300 1135 | 2 2.5 x 21" | ¼ ¼ ½ | 1.29 | 4.9 | 115/52 |
Voyager 400 | 400 1514 | 2 2.5 x 40" | ¼ ¾ ½ | 2.23 | 8.4 | 130/60 |
Voyager 800 | 800 3028 | 2 2.5 x 40" | ¾ ¾ ½ | 2.35 | 8.9 | 140/65 |
Voyager 1200 | 1,200 4542 | 3 2.5 x 40" | ½ ½ ½ | 2.67 | 10.1 | 150/70 |
Voyager 1600 | 1,600 6056 | 4 2.5 x 40" | ½ ¾ ½ | 4.00 | 18.2 | 180/80 |

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)
  - 24 = 24V DC (Available for Voyager 150 & 300 Only)
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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

- Cartridge for 10” Std.: C-C2510-A88
- Membrane Cleaning Cartridges
  - 10” Std. (removes Scale): C-C2510-A11
  - 10” Std. (removes organics): C-C2510-A22

**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**
Ultra Violet 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.
Dimensions for Voyager Modular Watermakers

Dimensions of Voyager 150 – 300 Modular Watermakers

Dimensions of Voyager 400 – 1600 Modular Watermakers
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

### Line Sizes (NPT, Inches)

- **Inlet**
- **Perm.**
- **Conc.**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements Qty.</th>
<th>Line Sizes (Dia. × L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY-12521</td>
<td>150 GPD</td>
<td>1</td>
<td>2.5 × 21</td>
</tr>
<tr>
<td>SY-22521</td>
<td>300 GPD</td>
<td>2</td>
<td>2.5 × 21</td>
</tr>
<tr>
<td>SY-12540</td>
<td>400 GPD</td>
<td>1</td>
<td>2.5 × 40</td>
</tr>
<tr>
<td>SY-22540</td>
<td>800 GPD</td>
<td>2</td>
<td>2.5 × 40</td>
</tr>
<tr>
<td>SY-32540</td>
<td>1,200 GPD</td>
<td>3</td>
<td>2.5 × 40</td>
</tr>
<tr>
<td>SY-42540</td>
<td>1,600 GPD</td>
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<td>2.5 × 40</td>
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### System Dimensions (in/cm)

- **Width**
- **Depth**
- **Height**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>GPD</th>
<th>m³/day</th>
<th>Qty.</th>
<th>Inlet</th>
<th>Perm.</th>
<th>Conc.</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
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</thead>
<tbody>
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<td>150</td>
<td>0.57</td>
<td>1</td>
<td>¾</td>
<td>½</td>
<td>½</td>
<td>36/91</td>
<td>19/48</td>
<td>17/43</td>
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<tr>
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<td>1.1</td>
<td>2</td>
<td>¾</td>
<td>½</td>
<td>½</td>
<td>36/91</td>
<td>19/48</td>
<td>17/43</td>
</tr>
<tr>
<td>SY-12540</td>
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<td>1.5</td>
<td>1</td>
<td>¾</td>
<td>½</td>
<td>½</td>
<td>54/137</td>
<td>32/81</td>
<td>17/43</td>
</tr>
<tr>
<td>SY-22540</td>
<td>800</td>
<td>3.0</td>
<td>2</td>
<td>¾</td>
<td>½</td>
<td>½</td>
<td>54/137</td>
<td>32/81</td>
<td>17/43</td>
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<tr>
<td>SY-32540</td>
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<td>3</td>
<td>¾</td>
<td>½</td>
<td>½</td>
<td>54/137</td>
<td>32/81</td>
<td>17/43</td>
</tr>
<tr>
<td>SY-42540</td>
<td>1,600</td>
<td>6.0</td>
<td>4</td>
<td>¾</td>
<td>½</td>
<td>½</td>
<td>54/137</td>
<td>32/81</td>
<td>17/43</td>
</tr>
</tbody>
</table>

### 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
- **216** = 220/230v, 1ph, 60hz
- **215** = 220/230v, 1ph, 50hz
- **236** = 220 or 230v/3ph/60hz
- **235** = 220v/3ph/50hz
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.

**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.

**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.

**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.

**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.

**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

**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.
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
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
- 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
- Stainless steel high pressure piping and Sch. 80 PVC low pressure piping
- Motorized automatic inlet feed valve
- Antiscalant injection system
- Panel mounted SS flow control valves
- 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

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

Optional Equipment
- Stainless steel boost or repressurization pump
- pH monitor for feed or for permeate
- Chemical injection
- Pre-treatment
- ORP monitor/controller
- Turbidity monitor
- UV system, feed or permeate
- Energy recovery (S98C and smaller)
- PLC with 10” touchscreen

Ordering Information

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
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</thead>
<tbody>
<tr>
<td>GPM</td>
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<td>S-64B</td>
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<table>
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<th>Line Sizes</th>
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<table>
<thead>
<tr>
<th>System Dimensions (in/cm)</th>
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<tbody>
<tr>
<td>Length</td>
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<thead>
<tr>
<th>Approx. Shipping Weight</th>
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<tr>
<td>12010/5445</td>
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<tr>
<td>13950/6330</td>
</tr>
</tbody>
</table>

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:
- 236 = 220 or 230v / 3ph / 60Hz
- 436 = 460 or 480v / 3ph / 60Hz
- 235 = 220v/3ph/50Hz
- 335 = 380v/3ph/50 Hz
- Single Phase Not Available
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)
--- | --- | --- | --- | ---
WMF-22521A-116 | 2,200 GPD | 2 Qty. 2.5 × 21 Qty. | ½” | 28/71 x 12/30 x 26/66
WMF-42521A-116 | 4,300 GPD | 4 Qty. 2.5 × 21 Qty. | ½” | 35/89 x 12/30 x 26/66
WMF-24A-116 | 13,000 GPD | 2 Qty. 4.0 × 40 Qty. | ¾” | 29/73 x 12/30 x 52/132
WMF-44A-116 | 22,000 GPD | 4 Qty. 4.0 × 40 Qty. | 1” | 36/91 x 12/30 x 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

<table>
<thead>
<tr>
<th>System Model No.</th>
<th>Carbon Filter Post Treatment</th>
<th>UV Disinfection Post Treatment</th>
<th>Multi-Media Filter Pretreatment</th>
<th>1 Micron Filter Pretreatment</th>
<th>Pressure Tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMF-22521A-116</td>
<td>A725</td>
<td>S2Q-PA</td>
<td>W-MB844ET-US</td>
<td>A704-10-1</td>
<td>A612-40</td>
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<tr>
<td>WMF-42521A-116</td>
<td>A725</td>
<td>S2Q-PA</td>
<td>W-MB844ET-US</td>
<td>A704-10-1</td>
<td>A612-40</td>
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<td>WMF-44A-116</td>
<td>A725BB</td>
<td>S8Q-PA</td>
<td>W-MB1665ET-US</td>
<td>A704-20-1</td>
<td>A612-80</td>
</tr>
</tbody>
</table>
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

- Simple operation, easy to use
- Automatic operation including membrane flush/cleaning
- Manual flush button

Indicator Lights:

- In service
- Flush clean mode

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Size</th>
<th>System Dimensions (in/cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMZ-12521A-116</td>
<td>1,600 GPD</td>
<td>1,606 m³/day</td>
<td>Qty. 1</td>
<td>Length 28/71, Depth 12/30, Height 26/66</td>
</tr>
<tr>
<td>WMZ-14A-116</td>
<td>10,000 GPD</td>
<td>37.85 m³/day</td>
<td>Qty. 1</td>
<td>Length 18/46, Depth 12/30, Height 52/132</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>System Model No.</th>
<th>Carbon Filter Pre &amp; Post Treatment</th>
<th>UV Disinfection Post Treatment</th>
<th>Multi-Media Filter Pretreatment</th>
<th>1 Micron Filter Pretreatment</th>
<th>Pressure Tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMZ-12521A-116</td>
<td>A 725</td>
<td>S2Q-PA</td>
<td>W-MB844ET-US</td>
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<td>A612-40</td>
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</tbody>
</table>

Typical UF Systems include Sediment Prefilter and Carbon Filter
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

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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Size</th>
<th>System Dimensions (in/cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPD</td>
<td>Qty.</td>
<td>Size (Dia. x L)</td>
<td>Length</td>
</tr>
<tr>
<td>WMR-12521A-116</td>
<td>1,600 m³/day</td>
<td>1</td>
<td>2.5 x 21 ½”</td>
<td>28/71</td>
</tr>
<tr>
<td>WMR-14A-116</td>
<td>10,000 m³/day</td>
<td>1</td>
<td>4.0 x 40 ¾”</td>
<td>18/46</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>System Model No.</th>
<th>Carbon Filter Pre &amp; Post Treatment</th>
<th>UV Disinfection Post Treatment</th>
<th>Multi-Media Filter Pretreatment</th>
<th>1 Micron Filter Pretreatment</th>
<th>Pressure Tank</th>
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</thead>
<tbody>
<tr>
<td>WMR-12521A-116</td>
<td>A725</td>
<td>SQO-PA</td>
<td>W-MB844ET-US</td>
<td>A704-10-1</td>
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<td>W-MB1665ET-US</td>
<td>A704-20-1</td>
<td>A612-80</td>
</tr>
</tbody>
</table>

Typical UF Systems include Sediment Prefilter and Carbon Filter
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 Poly(vinylidene 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).
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

<table>
<thead>
<tr>
<th>Inside-Out Model No.</th>
<th>Outside-In Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Sizes (NPT, Inches)</th>
<th>System Dimensions (m/cm)</th>
<th>Approx. Shipping Weight (lb/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF60-1I / HF60-1IE</td>
<td></td>
<td>10 GPM / 14,400 GPD</td>
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<td>4 / 4 / 4</td>
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<td>6 / 6 / 6</td>
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</table>

### 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
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.
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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Product Flow</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (lb/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PW-1500</td>
<td>1,800 GPD</td>
<td>96/244 Length x 34/86 Depth x 81/206 Height</td>
<td>920/420</td>
</tr>
<tr>
<td>PW-3000</td>
<td>3,600 GPD</td>
<td>96/244 Length x 34/86 Depth x 81/206 Height</td>
<td>1275/580</td>
</tr>
<tr>
<td>PW-4500</td>
<td>5,000 GPD</td>
<td>96/244 Length x 34/86 Depth x 81/206 Height</td>
<td>1375/625</td>
</tr>
<tr>
<td>PW-6000</td>
<td>6,500 GPD</td>
<td>96/244 Length x 34/86 Depth x 81/206 Height</td>
<td>1500/680</td>
</tr>
<tr>
<td>PW-8000</td>
<td>8,000 GPD</td>
<td>96/244 Length x 34/86 Depth x 81/206 Height</td>
<td>1550/703</td>
</tr>
<tr>
<td>PW-10000</td>
<td>9,500 GPD</td>
<td>96/244 Length x 34/86 Depth x 81/206 Height</td>
<td>1650/748</td>
</tr>
</tbody>
</table>

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:
- 110 = 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
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 injectibles (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**
- **Flow Meters**
- **Pressure Gauges**
- **Controller**
- **Power Supply**
- **Flow Switch**
- **Resistivity Monitor**
- **All Safeguards & Alarms**
- **Incoming water conductivity meter**
- **Auto incoming water diverter valves w/controls**
- **Auto product water diverter valves w/controls**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>Liters/Min</td>
<td>Length</td>
</tr>
<tr>
<td>EDI-1XL100</td>
<td>0.25 – 0.75</td>
<td>1 – 3</td>
<td>23/59</td>
</tr>
<tr>
<td>EDI-1XL200</td>
<td>0.5 – 1.5</td>
<td>2 – 6</td>
<td>23/59</td>
</tr>
<tr>
<td>EDI-1XL300</td>
<td>1.5 – 3</td>
<td>6 – 11</td>
<td>23/59</td>
</tr>
<tr>
<td>EDI-1XL400</td>
<td>3-7</td>
<td>11-27</td>
<td>23/59</td>
</tr>
<tr>
<td>EDI-1XL500</td>
<td>6-10</td>
<td>25-38</td>
<td>23/59</td>
</tr>
<tr>
<td>EDI-2XL500</td>
<td>12-20</td>
<td>45-76</td>
<td>23/59</td>
</tr>
<tr>
<td>EDI-4XL500</td>
<td>24-40</td>
<td>91-151</td>
<td>60/152</td>
</tr>
<tr>
<td>EDI-6XL500</td>
<td>36-60</td>
<td>136-227</td>
<td>60/152</td>
</tr>
</tbody>
</table>

**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/3ph/50hz

**EDI-2XL500 to EDI-6XL500 are available in three phase only**

Voltage Codes:
- **236** = 220 or 230v/3ph/60hz
- **436** = 460 or 480v/3ph/60 Hz
- **235** = 220v/3ph/50hz
- **335** = 380v/3ph/50 Hz
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
- Deaeration
- 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
- Inkjet Inks
- Offshore injection water
- Medical/Analytical
- General Industrial
- Solar Panels
- Aquifier Storage
- Photographic
- Plating/Coatings
- Eye Care Products
- Many More
**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**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>System Capacity</th>
<th>Membrane Contactors</th>
<th>Line Size (NPT, Inches)</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC8X20</td>
<td>5-50 GPM 1.1-11</td>
<td>1 8” × 20” 1”</td>
<td>20/51 28/71 66/168</td>
<td>400 lbs</td>
<td></td>
</tr>
<tr>
<td>LC28X20</td>
<td>50-100 GPM 11-23</td>
<td>2 8” × 20” 2”</td>
<td>20/51 28/71 66/168</td>
<td>450 lbs</td>
<td></td>
</tr>
</tbody>
</table>

**Optional Equipment**

- 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, 1ph, 60hz.

Voltage Codes:

- **116** = 110v, 1ph, 60hz
- **216** = 220/230v, 1ph, 60hz
- **215** = 220/230v, 1ph, 50hz

Three Phase Not Available
Power 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.
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.**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>PVS Cleaned in Parallel (# / Dia)</th>
<th>Inlet/Outlet (Inches)</th>
<th>Tank Size (Gals/Ltr)</th>
<th>Flow (GPM) Min</th>
<th>Max</th>
<th>Pump Size</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y-CS20</td>
<td>4/2.5” or 2/4”</td>
<td>1</td>
<td>100/380</td>
<td>10</td>
<td>25</td>
<td>20</td>
<td>51/130 36/90 58.5/149</td>
<td>450/205</td>
</tr>
<tr>
<td>Y-CS40</td>
<td>4/4” or 1/8”</td>
<td>1½</td>
<td>200/760</td>
<td>40</td>
<td>50</td>
<td>40</td>
<td>64/163 39/99 76.5/194</td>
<td>600/270</td>
</tr>
<tr>
<td>Y-CS60</td>
<td>6/4” or 2/8”</td>
<td>1½</td>
<td>200/760</td>
<td>60</td>
<td>75</td>
<td>60</td>
<td>64/163 39/99 76.5/194</td>
<td>600/270</td>
</tr>
<tr>
<td>Y-CS100</td>
<td>2 to 3/8”</td>
<td>2</td>
<td>500/1895</td>
<td>100</td>
<td>125</td>
<td>100</td>
<td>84/213 55/140 90.5/230</td>
<td>650/295</td>
</tr>
<tr>
<td>Y-CS150</td>
<td>4/8”</td>
<td>3</td>
<td>500/1895</td>
<td>150</td>
<td>175</td>
<td>150</td>
<td>84/213 55/140 97.5/248</td>
<td>720/325</td>
</tr>
<tr>
<td>Y-CS220</td>
<td>4 to 6/8”</td>
<td>3</td>
<td>500/1895</td>
<td>220</td>
<td>250</td>
<td>220</td>
<td>84/213 55/140 97.5/248</td>
<td>790/360</td>
</tr>
</tbody>
</table>

**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 / 3 ph / 60Hz
- **436** = 460 or 480v / 3 ph / 60 Hz
- **235** = 220v / 3 ph / 50Hz
- **335** = 380v / 3 ph / 50 Hz

Single Phase Not Available
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.
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

16” x 60” Membrane Application

Portable Water Purification
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
Mineral Injection Systems

Applied Membranes mineral injection systems are designed to inject minerals into 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 years 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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Qty. of Chemical Tanks</th>
<th>Metering Pump Size</th>
<th>Line Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y-CHEMSK1</td>
<td>1</td>
<td>24 GPD</td>
<td>Up to 2”</td>
</tr>
<tr>
<td>Y-CHEMSK2</td>
<td>2</td>
<td>24 GPD</td>
<td>Up to 2”</td>
</tr>
<tr>
<td>Y-CHEMSK3</td>
<td>3</td>
<td>24 GPD</td>
<td>Up to 2”</td>
</tr>
<tr>
<td>Y-CHEMSK4</td>
<td>4</td>
<td>24 GPD</td>
<td>Up to 2”</td>
</tr>
</tbody>
</table>

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
- 216 = 220/230v, 1ph, 60hz
- 215 = 220/230v, 1ph, 50hz

Three Phase Not Available