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
Series S – 2,000 to 132,000 GPD Seawater Desalination Systems

**Standard Equipment**
- Thin Film Composite Membranes
- Stainless steel high pressure pump
- Pressure relief
- Energy recovery for models S-128F and up
- Programmable logic controller (PLC) models S-128F and up
- FRP pressure vessels
- Polypropylene filter housing for up to S-48B
- Stainless steel high pressure piping and Sch. 80 PVC low pressure piping
- Motorized automatic feed valve
- Antiscalant injection system
- Panel mounted SS flow control valve
- Product & concentrate monitors
- Polypropylene 5M filter housing for up to S-48B
- FRP housing for larger models
- 316SS high pressure piping and Sch. 80 PVC low pressure piping
- UV system, feed or permeate
- Panel mounted SS flow control valve
- Pre-treatment backwash/lockout
- Cleaning ports
- System on/off with 2-level tank floats
- Heavy duty powder coated aluminum frame

**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

**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

**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>S-24A</td>
<td>1.5 2,000</td>
<td>6</td>
<td>2 4 x 40</td>
<td>¾ ¾ ¾</td>
<td>100/254 36/92 72/183</td>
</tr>
<tr>
<td>S-34A</td>
<td>2 3,000</td>
<td>11</td>
<td>3 4 x 40</td>
<td>¾ ¾ ¾</td>
<td>100/254 36/92 72/183</td>
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<tr>
<td>S-44A</td>
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<td>15</td>
<td>4 4 x 40</td>
<td>1¾ ¾ ¾</td>
<td>100/254 36/92 72/183</td>
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<tr>
<td>S-64B</td>
<td>4 6,000</td>
<td>23</td>
<td>6 4 x 40</td>
<td>1½ ¾ 1½</td>
<td>134/340 36/92 72/183</td>
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<tr>
<td>S-28B</td>
<td>5 7,200</td>
<td>27</td>
<td>2 8 x 40</td>
<td>1½ ¾ 1½</td>
<td>134/340 44/112 72/183</td>
</tr>
<tr>
<td>S-38A</td>
<td>8 11,520</td>
<td>44</td>
<td>3 8 x 40</td>
<td>2 ¾ 2</td>
<td>134/340 44/112 72/183</td>
</tr>
<tr>
<td>S-48B</td>
<td>10 14,400</td>
<td>55</td>
<td>4 8 x 40</td>
<td>2 1 2</td>
<td>134/340 44/112 72/183</td>
</tr>
<tr>
<td>S-68B</td>
<td>15 21,600</td>
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<td>6 8 x 40</td>
<td>2 1½ 2</td>
<td>134/340 44/112 72/183</td>
</tr>
<tr>
<td>S-98C</td>
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<td>130</td>
<td>9 8 x 40</td>
<td>3 1½ 3</td>
<td>174/442 44/112 72/183</td>
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<tr>
<td>S-128F</td>
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<td>174</td>
<td>12 8 x 40</td>
<td>3 2 3</td>
<td>300/762 44/112 72/183</td>
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<td>S-188F</td>
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<td>S-248F</td>
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<tr>
<td>S-308F</td>
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<td>30 8 x 40</td>
<td>6 3 6</td>
<td>300/762 44/112 72/183</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

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