

# APPLIED<sup>®</sup> SYSTEMS

## SERIES S – 2,000-100,000 GPD SEAWATER SYSTEMS

Designed to convert seawater to drinking water, these systems use high quality reverse osmosis seawater desalination membranes. The product water is used in a variety of areas including hotels, resorts, navy, and off-shore platforms. Designed for the demanding requirements of the marine environment, these systems use our proven technology to give reliable performance.

### Key Features:

- Over 20 years of experience is reflected in our quality
- Heavy duty powder coated frame
- Proven components are used throughout the system
- Microprocessor Controlled Operation
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



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Distributed By:

**Global Filter Corporation**

1712 Woodcrest St. NE., Cedar Rapids, IA 52402

Toll Free: 877-603-1003 • Fax: 319-743-0220

<http://www.globalfiltercorp.com>

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## SERIES S – 2,000-100,000 GPD SEAWATER SYSTEMS

### STANDARD EQUIPMENT

- Thin Film Composite Membranes
- FRP Pressure Vessels
- FRP Prefilter Housing
- 316 Stainless Steel Pressure Gauges
- 316 Stainless Steel Low and High Pressure Switches
- 316 Stainless Steel Back Pressure Regulator
- Low and High Pressure Safeguards
- Stainless Steel High Pressure Pumps
- Pulsation Dampner
- Pressure Relief Valve
- Antiscalant Injection
- Auto Permeate Flush System with Tank, Pump & Controls
- Cleaning Ports
- Auto Operation with Level Controls
- Reset Switch to Restart
- Powder Coated Skid
- Permeate and Concentrate Flowmeters
- Microprocessor Controller. Operating conditions are displayed on an LCD Display with:
  - Delayed Start-Up of High Pressure Pump
  - Low and High Pressure Switch
  - RO and Auxiliary Pump Control Relays
  - Product Water Quality TDS
  - Permeate Dump
  - Membrane Permeate Flush at Each Shut-down
  - RO Storage Tank Full and Low
  - Pretreatment Lock Out

### OPTIONAL EQUIPMENT

- Ultraviolet Sterilizer\*
  - Sodium Bisulfite or Chlorine Injection System\*
  - Differential Pressure Gauge
  - Integrated Cleaning
  - Hour Meter
  - Energy Recovery
  - Turbidity Meter
  - ORP Meter
  - Duplex Stainless Steel High Pressure Pump
  - Multimedia Filters
  - Crating\*
- \* Recommended Minimum Options*

Model	Capacity			Elements*		Line Sizes (In/cm)			Dimensions (In/cm)			Approx. Weight (lb/kg)
	GPM	GPD	m <sup>3</sup> /day	Qty.	Dia. (in/cm)	Inlet	Perm.	Conc.	Length	Width	Height	
<b>S-24A</b>	1.5	2,000	6	2	4/10	1.5/4	1/2.5	1/2.5	100/254	36/92	72/183	460/209
<b>S-34A</b>	2	3,000	11	3	4/10	1.5/4	1/2.5	1/2.5	100/254	36/92	72/183	490/223
<b>S-44A</b>	3	4,000	15	4	4/10	1.5/4	1/2.5	1/2.5	100/254	36/92	72/183	520/236
<b>S-64B</b>	4	6,000	23	6	4/10	2/5	1/2.5	2/5	134/340	36/92	72/183	725/329
<b>S-28B</b>	7	10,000	40	2	8/20	2/5	1/2.5	2/5	134/340	44/112	72/183	915/415
<b>S-38A</b>	10	15,000	60	3	8/20	2/5	1/2.5	2/5	134/340	44/112	72/183	1200/545
<b>S-48B</b>	14	20,000	75	4	8/20	2/5	1/2.5	2/5	134/340	44/112	72/183	1225/556
<b>S-68B</b>	17	25,000	95	6	8/20	2/5	1/2.5	2/5	134/340	44/112	72/183	1640/744
<b>S-98C</b>	24	35,000	130	9	8/20	3/8	2/5	2/5	174/442	44/112	72/183	2380/1080
<b>S-128F</b>	35	50,000	190	12	8/20	3/8	2/5	2/5	300/762	44/112	72/183	3065/1390
<b>S-188F</b>	52	75,000	284	18	8/20	3/8	2/5	2/5	300/762	44/112	72/183	3900/1769
<b>S-248F</b>	70	100,000	380	24	8/20	3/8	3/8	3/8	300/762	44/112	72/183	4730/2146

\*Elements are 40" (102 cm) in length

### NOTES

- 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/cm<sup>2</sup>).

### ORDERING INFORMATION

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**    236 = 220 or 230v/ 3ph/ 60hz                      235 = 220v/3ph/50hz  
**Codes:**     436 = 460 or 480v/ 3ph/ 60 hz                      335 = 380v/3ph/50 hz

**No Single Phase Available**

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