

APPLIED[®] 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



Pureworld Solutions Inc.

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STANDARD EQUIPMENT

- Thin Film Composite Membranes
- FRP Pressure Vessels
- 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
- 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 ³ /day	Qty.	Dia. (in/cm)	Inlet	Perm.	Conc.	Length	Width	Height	
S-24A	1.5	2,000	6	2	4/10	0.75/2	0.75/2	0.75/2	100/254	36/92	72/183	1200/545
S-34A	2	3,000	11	3	4/10	0.75/2	0.75/2	0.75/2	100/254	36/92	72/183	1285/585
S-44A	3	4,000	15	4	4/10	1.5/3.8	0.75/2	1.5/3.8	100/254	36/92	72/183	1375/625
S-64B	4	6,000	23	6	4/10	1.5/3.8	0.75/2	1.5/3.8	134/340	36/92	72/183	1685/765
S-28B	7	10,000	40	2	8/20	1.5/3.8	0.75/2	1.5/3.8	134/340	44/112	72/183	1805/820
S-38A	10	15,000	60	3	8/20	2.0/5.1	0.75/2	2.0/5.1	134/340	44/112	72/183	3550/1610
S-48B	14	20,000	75	4	8/20	2.0/5.1	1.0/2.5	2.0/5.1	134/340	44/112	72/183	3790/1720
S-68B	17	25,000	95	6	8/20	2.0/5.1	1.5/3.8	2.0/5.1	134/340	44/112	72/183	4070/1845
S-98C	24	35,000	130	9	8/20	3/7.6	1.5/3.8	3/7.6	174/442	44/112	72/183	5760/2651
S-128F	35	50,000	190	12	8/20	3/7.6	2.0/5.1	3/7.6	300/762	44/112	72/183	7330/3325
S-188F	52	75,000	284	18	8/20	6/15.2	2.5/6.4	6/15.2	300/762	44/112	72/183	9475/1575
S-248F	70	100,000	380	24	8/20	6/15.2	2.5/6.4	6/15.2	300/762	44/112	72/183	12010/5445
S-308F	92	132,000	500	30	8/20	6/15.2	3/7.6	6/15.2	300/762	44/112	72/183	13950/6330

* 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/cm²).
- Seawater intake and supply pump to bring water to the system are not included.

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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