

APPLIED[®] SYSTEMS

SERIES SY – 100-2,000 GPD SEAWATER SYSTEMS

Our SY series systems, also known as Watermakers, convert seawater to drinking water. Their compact design makes them ideal for use on yachts, boats, cruise ships, and resorts.

Key Features:

- **Compact Design** – system is enclosed in a compact heavy duty powder coated frame.
- **Controls and instrumentation** allow for strict monitoring of water quality.
- **Over 20 years of experience** is reflected in our quality.
- **Conservatively engineered** for reliable long term performance.
- **Proven components** are used throughout the system.
- **Factory tested** to ensure trouble free operation.



Pureworld Solutions Inc.

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SERIES SY – 100-2,000 GPD SEAWATER SYSTEMS

- Thin Film Composite Membranes
- FRP Membrane Housing
- Stainless Steel High Pressure Pumps
- Permeate and Concentrate Flow Meters
- Low and High Pressure Safeguards
- Compact Frame with Powder Coated Finish
- Automatic Operation with Level Controls
- Stainless Steel Back Pressure Control
- 5 Micron Sediment Filter and Housing
- High Pressure Relief Valve
- Pulsation Dampener
- Auto feed Shut-Off (Floats not included)
- Liquid Filled System Pressure Gauge
- ROC-75 Microprocessor Controller With:
 - Illuminated Switches: Auto Operation, Power/Reset, Manual
 - Pretreatment Lock-Out
 - Hour Meter
 - Indicator Lights: Tank Full (with RO Shutdown), HP Fault, Pump On, LP Fault, Backwash

OPTIONAL EQUIPMENT

- TDS Meter
- Filter In/Out Pressure Gauges
- Float Tree for Storage Tank*
- Multimedia Filter*
- Ultraviolet Sterilizer for Feed - PVC
- Ultraviolet Sterilizer for Permeate - SS
- Crating*

*Recommended Minimum Options

Model	Capacity		Qty.	Elements		Line Sizes (In/cm)			Dimensions (In/cm)			Approx Weight (lb/kg)
	GPD	m ³ /day		Dia. (In/cm)	Length (In/cm)	Inlet	Perm.	Conc.	Length	Width	Height	
SY-12514	100	0.4	1	2.5/6.4	14/36	0.75/2	0.375/1	0.375/1	36/91	19/48	17/43	110/50
SY-22514	200	0.8	2	2.5/6.4	14/36	0.75/2	0.375/1	0.375/1	36/91	19/48	17/43	110/50
SY-22521	300	1.1	2	2.5/6.4	21/54	0.75/2	0.375/1	0.375/1	36/91	19/48	17/43	110/50
SY-12540	400	1.5	1	2.5/6.4	40/102	0.75/2	0.375/1	0.375/1	54/137	19/48	17/43	130/60
SY-22540	800	3.0	2	2.5/6.4	40/102	0.75/2	0.375/1	0.375/1	54/137	19/48	17/43	140/65
SY-32540	1,200	4.5	3	2.5/6.4	40/102	0.75/2	0.375/1	0.375/1	54/137	19/48	21/53	150/70
SY-42540	1,600	6.0	4	2.5/6.4	40/102	0.75/2	0.375/1	0.375/1	54/137	19/48	21/53	180/80

NOTES

- All dimensions and weights are approximate.
- 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).

ORDERING INFORMATION

Please add voltage code to the end of the model number when ordering. **Example:** SY-12514-236 = 220/230v/3 ph/ 60 hz

Voltage: 236 = 220 or 230v/ 3ph/ 60hz 235 = 220v/3ph/50hz
Codes: 216 = 220 or 230v/ 1ph/ 60 hz 215 = 220v/1ph/50 hz



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