



Marine Watermakers

Seawater RO Systems



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www.appliedmembranes.com/watermakers



Maritime Series Watermaker System

Engineered for reliable, long-term performance, in rugged marine environments, the AMI Maritime Series watermaker's compact design makes them ideal for use on yachts, boats, cruise ships and resorts.

- 30 years of experience is reflected in our quality
- Compact, enclosed design
- Proven, dependable components
- Automatic start/stop capability using optional float switches
- Factory tested to ensure trouble-free operation

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 set point
- Booster Pump and Raw Water Strainer
- Fresh Water Flush Module
- Installation Kit

* Requires the use of optional tank float switches

Microprocessor Controller for Automatic Operation

Monitors and/or Controls:

- 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
- Water Temperature
- Operating Hours
- Fresh water flush
- Automatic product water diversion
- Pretreatment lock-out

Controller Features:

- Permeate Quality (TDS)
- Water Temperature
- Operating Hours
- Operating Status
- Alarm Condition
- NEMA 4X Enclosure
- Remote Control Operation (optional)



LED Display:

- 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



Voyager Series MODULAR

Our Voyager Modular series watermaker systems 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.



Engineering a better life on board

Optional Accessories

All assemblies include hardware and powder coated mounting equipment for easy upgrade to your new or existing system installation.



Commercial Pre-Filter

Dual-micron rated for extended life, providing longer intervals between system prefilter changes. Outer layer traps particles larger than 75 Microns, inner layer traps particles of 25 Microns. 20" Big Blue housing. Includes isolation valves for easy cartridge change.



Oil-Water & Plankton Separators

Protect your RO system & membranes from oily or polluted water, plankton and other large particles. Includes isolation valves for easy cartridge change. Installed on a powder coated mounting bracket.



Fresh Water Flush

To prolong membrane life by flushing the system with fresh water at each shut-down 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.



Ultraviolet Systems

Applied Membranes, Inc. uses genuine Viqua Sterilight Ultraviolet Water Disinfection Systems. Installed at the fresh water stream, UV systems will sterilize 99.8% of all micro-organisms including reproducing bacteria and viruses.



Remote Control

Connects to the main control board with a standard Cat5 cable, 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.



AMI Filter Replacements

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.



Membrane Preserving & Cleaning Cartridges

Preserve system & membranes, in-place, for extended periods of system shut-down. Clean membranes in-place to reduce downtime, maintain system performance at a higher level, 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 8x16" media tank is frame-mounted with in/out pressure gauges and a valve for manual backwash.



pH Neutralizer

Neutralizes the pH of the Fresh Water stream from the RO system. AMI calcite filters are self-limiting and will not over-correct. 10" Calcite Filter Cartridge in a blue housing on powder coated bracket. Includes isolation valves for easy cartridge change.

Maritime Watermaker Specifications and Ordering Information

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (Width x Depth x Height)		Approx. Shipping Weight Lb (Kg)
	GPD	LPD	Qty.	Size (Dia. x L)	Inlet	Perm.	Conc.	inches	centimeters	
Maritime 150	150	567	1	2.5 x 21	3/4	1/4	1/2	25.1 x 19 x 12.5	63.8 x 48.3 x 31.6	110 (50)
Maritime 300	300	1,135	2	2.5 x 21	3/4	1/4	1/2	25.1 x 19 x 12.5	63.8 x 48.3 x 31.6	115 (52)
Maritime 400	400	1,514	1	2.5 x 40	3/4	3/8	1/2	44.2 x 19 x 12.5	112 x 48.3 x 31.6	130 (60)
Maritime 800	800	3,028	2	2.5 x 40	3/4	3/8	1/2	44.5 x 20 x 18.0	112 x 50.8 x 45.7	140 (65)
Maritime 1200	1,200	4,542	3	2.5 x 40	1	3/8	1/2	44.5 x 20 x 18.0	112 x 50.8 x 45.7	150 (75)
Maritime 1600	1,600	6,056	4	2.5 x 40	1	3/8	1/2	44.5 x 20 x 18.0	112 x 50.8 x 45.7	180 (80)

Model No.	System Pressure		Power		Motor			Electrical			Fully Automated
	Normal PSI/BAR	Max PSI/BAR	kW	Amps	HP	FLA	Type	Voltage	Freq.	Phase	
Maritime 150	700/48	1,000/69	0.65	7/3.5	1	12.8	TEFC	115/240	50/60	1	✓ Yes
Maritime 300	800/55	1,000/69	0.75	8.1/4	1	12.8	TEFC	115/240	50/60	1	✓ Yes
Maritime 400	700/48	1,000/69	1.15	12.5/6.25	1.5	17.2/8.8	TEFC	115/240	50/60	1	✓ Yes
Maritime 800	750/52	1,000/69	1.4	15.5/7.75	2.5	23/11.5	TEFC	115/240	50/60	1	✓ Yes
Maritime 1200	800/55	1,000/69	1.5	16.5/8.25	2.5	23/11.5	TEFC	115/240	50/60	1	✓ Yes
Maritime 1600	800/55	1,000/69	2.1	22/11	2.5	23/11.5	TEFC	115/240	50/60	1	✓ Yes

Voyager Modular Watermaker Specifications and Ordering Information

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)					Approx. Shipping Weight (Lb/Kg)
	GPD	LPD	Qty.	Size (Dia. x L)	Inlet	Perm.	Conc.	GPM	LPM	
Voyager 150	150	567	1	2.5 x 21	3/4	1/4	1/2	1.40	5.3	110/50
Voyager 300	300	1,135	2	2.5 x 21	3/4	1/4	1/2	1.29	4.9	115/52
Voyager 400	400	1,514	1	2.5 x 40	3/4	3/8	1/2	2.23	8.4	130/60
Voyager 800	800	3,028	2	2.5 x 40	3/4	3/8	1/2	2.35	8.9	140/65
Voyager 1200	1,200	4,542	3	2.5 x 40	1	3/8	1/2	2.67	10.1	150/75
Voyager 1600	1,600	6,056	4	2.5 x 40	1	3/8	1/2	4.80	18.2	180/80

Model No.	Power		AC Motor			Electrical			Amps (DC Systems)		Fully Automated
	kW	Amps	HP	FLA	Type	Voltage	Freq.	Phase	12v	24v	
Voyager 150	0.65	7/3.5	1	12.8	TEFC	115/240	50/60	1	45	23	✓ Yes
Voyager 300	0.75	8.1/4	1	12.8	TEFC	115/240	50/60	1	45	23	✓ Yes
Voyager 400	1.15	12.5/6.25	1.5	17.2/8.8	TEFC	115/240	50/60	1	n/a	n/a	✓ Yes
Voyager 800	1.4	15.5/7.75	2.5	23/11.5	TEFC	115/240	50/60	1	n/a	n/a	✓ Yes
Voyager 1200	1.5	16.5/8.25	2.5	23/11.5	TEFC	115/240	50/60	1	n/a	n/a	✓ Yes
Voyager 1600	2.1	22/11	2.5	23/11.5	TEFC	115/240	50/60	1	n/a	n/a	✓ Yes

*Celebrating 30 years of
Quality Service Reliability*



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