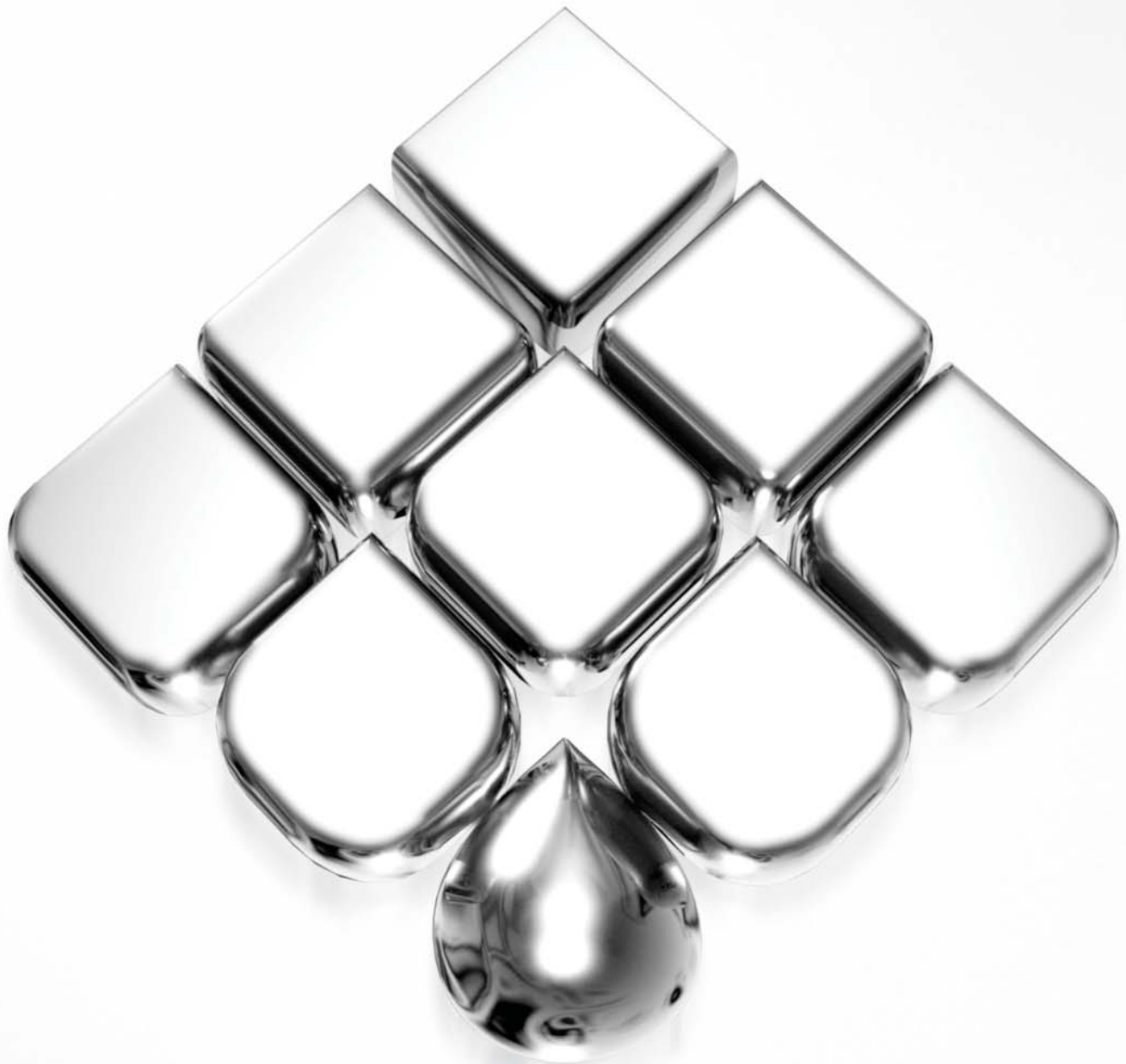




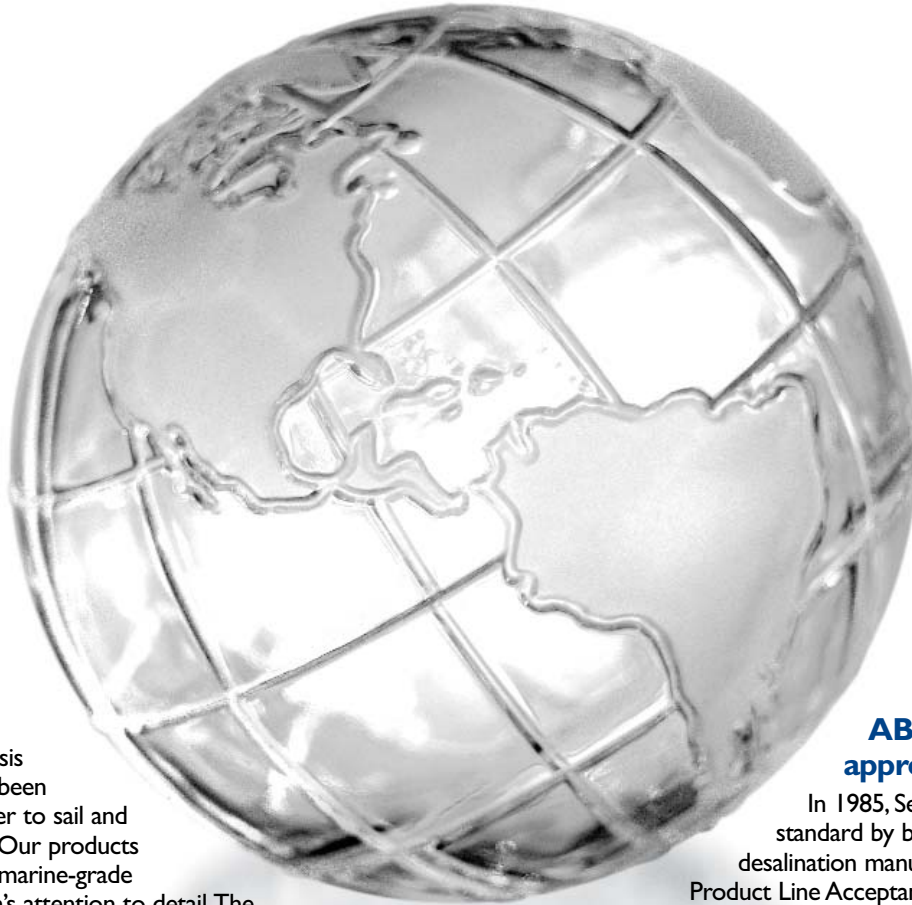
## Reverse Osmosis Desalinators



Marine *Whisper*™ Series

# Marine Whisper Series

Providing fresh water—and peace of mind—to boat owners worldwide



For over 23 years, Sea Recovery Reverse Osmosis (R.O.) Desalinators have been providing pure, fresh water to sail and power boats worldwide. Our products feature intelligent design, marine-grade materials, and a craftsman's attention to detail. The result is a reliable, long-lasting water maker trusted by boat owners everywhere.

## The best fit for your boat

Whether you own a small craft or a mega-yacht, we have a water maker with the right capacity and configuration to suit you. Our Ultra Whisper and Aqua Whisper models provide a range of water making capacities, from 170 U.S. gallons (644 litres) to 1,800 U.S. gallons (6,814 litres) per day. And because each model is configured a little differently, you have optimal flexibility in selecting the system that best fits into your boat's available space.

## Full testing and worldwide service

Each and every system is fully tested and ready to produce water upon installation, with design and construction that enables easy maintenance. And if you ever need assistance, our worldwide service network is there to help, regardless of your location.

## ABS certificate of approval

In 1985, Sea Recovery set the standard by becoming the only R.O. desalination manufacturer to gain Full Product Line Acceptance by the ABS (American Bureau of Shipping). And today we are still the only manufacturer to achieve that certification.

## CE approval

All Sea Recovery systems are CE Approved and meet stringent safety requirements.

## NMMA membership

For over 23 years, Sea Recovery has been an active member in good standing with the National Marine Manufacturers Association (NMMA).

## Certifications and standards

In a continuous effort to achieve the highest possible quality, Sea Recovery manufactures all equipment to industry standards set forth by marine and industrial institutions, including the ASME, ASTM, API, AWWA, NEC, and NEMA. Our equipment also meets certain military specifications and several other rigorous standards and requirements.



# AquaWhisper™

Sea Recovery's Aqua Whisper R.O. desalinators are designed and constructed for years of high performance. Here are a few of the reasons these water makers stand apart from the competition:



**The Touch Pad Control Panel** allows simple touch operations and provides illuminated status indication.



**Microprocessor-controlled electronics** offer boat owners state-of-the-art technology and reliability.



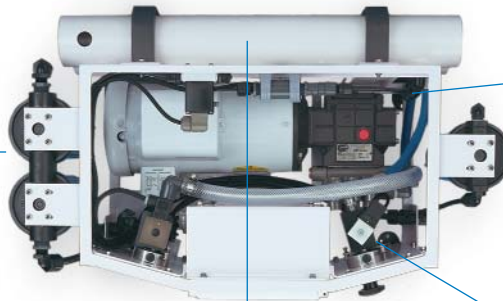
**Vibration Isolator Mounts** dampen vibration and noise.\*\*



**Touch Pad Remote Control** conveniently gives your system status and allows operation from a second location on the boat.



**Commercial Pre-Filter and Oil/Water Separators** provide unparalleled particulate and oil removal at no extra charge.\*



**A marine-grade High Pressure Pump**, specifically designed for reverse osmosis, offers durability, corrosion resistance, and longevity. It's also 10dB quieter—that's 10 times quieter—than other pumps.



**Fiberglass Pressure Vessels** eliminate corrosion and offer a stronger and more durable housing for the R.O. membranes.\*\*



**The Fresh Water Flush feature** automatically flushes your system with fresh water after each use. And when the system is not in use, a unique timing feature allows it to automatically flush itself once every seven days.\*\*



**High-Pressure Fittings** are stainless steel and offer a double O-Ring Seal to prevent the leakage and stress cracking that can occur with lower-quality pipe threads.

\* Commercial Pre-Filter and Oil/Water Separator housing and elements are offered FREE OF CHARGE, if requested at time of initial order.  
\*\* Also applies to the Ultra Whisper models.

## Aqua Whisper™ Frame

19, 29, 38, 58, 75 Gallons Per Hour | 71, 110, 142, 221, 284 Litres Per Hour



### Model No:

SRC AWF 450-1  
 SRC AWF 700-1  
 SRC AWF 900-1  
 SRC AWF 900-2  
 SRC AWF 1400-2  
 SRC AWF 1800-2

The workhorse Aqua Whisper Frame (AWF) has proven itself time and again under difficult sea conditions, making it a favorite of boat owners and outfitters worldwide. This system produces from 450 to 1,800 U.S. gallons (1,703 to 6,814 litres) per day of safe, clean,

potable water, so it's perfect for large and mega-sized yachts. It draws its power from the vessel's onboard generator, and can be installed in various locations such as engine room compartments.

The AWF features a stainless steel triplex plunger pump that's specifically designed for seawater, and a unique drive assembly composed entirely of marine-grade materials. The result? A reliable, powerful, smooth-running water maker.

## Aqua Whisper™ Compact

19, 29, 38, 58, 75 Gallons Per Hour | 71, 110, 142, 221, 284 Litres Per Hour



### Model No:

SRC AWC 450-1  
 SRC AWC 700-1  
 SRC AWC 900-1  
 SRC AWC 900-2  
 SRC AWC 1400-2  
 SRC AWC 1800-2

The Aqua Whisper Compact (AWC) Desalinator combines small size, efficiency, and quiet operation due to its stainless steel triplex plunger pump. The AWC is 30% smaller than the Aqua Whisper Frame, yet it still delivers the identical water making

capabilities. The high-efficiency booster pump can be mounted remotely at a location closer to the seacock. With a height of only 14 inches (356mm), the AWC can be installed in a wide range of locations onboard, from spaces under berths and

settees to closets and engine room compartments. Recommended for small to midsize power and sail boats, the AWC's water making capacity ranges between 450 to 1,800 U.S. gallons (1,703 to 6,814 litres per day), depending upon the model selected.

## Aqua Whisper™ Modular

19, 29, 38, 58, 75 Gallons Per Hour | 71, 110, 142, 221, 284 Litres Per Hour



### Model No:

SRC AWM 450-1  
 SRC AWM 700-1  
 SRC AWM 900-1  
 SRC AWM 900-2  
 SRC AWM 1400-2  
 SRC AWM 1800-2

The Aqua Whisper Module (AWM) brings quiet water making and tremendous installation flexibility to boats that are tight on space. All of the components needed for R.O. desalination can be custom installed by

placing them in any available space onboard to best fit the specific layout of the boat. The AWM's components can be tucked away under berths and settees, and in closets and engine rooms. The system comes with the

Touch Pad Control Panel for easy operation. Water making capacity ranges between 450 to 1,800 U.S. gallons (1,703 to 6,814 litres per day), depending upon the model.

## Aqua Whisper™ I70

7 Gallons Per Hour | 27 Litres Per Hour



### Model No:

SRC AWI70 12VDC  
 SRC AWI70 24VDC  
 SRC AWI70 115AC  
 SRC AWI70 230AC



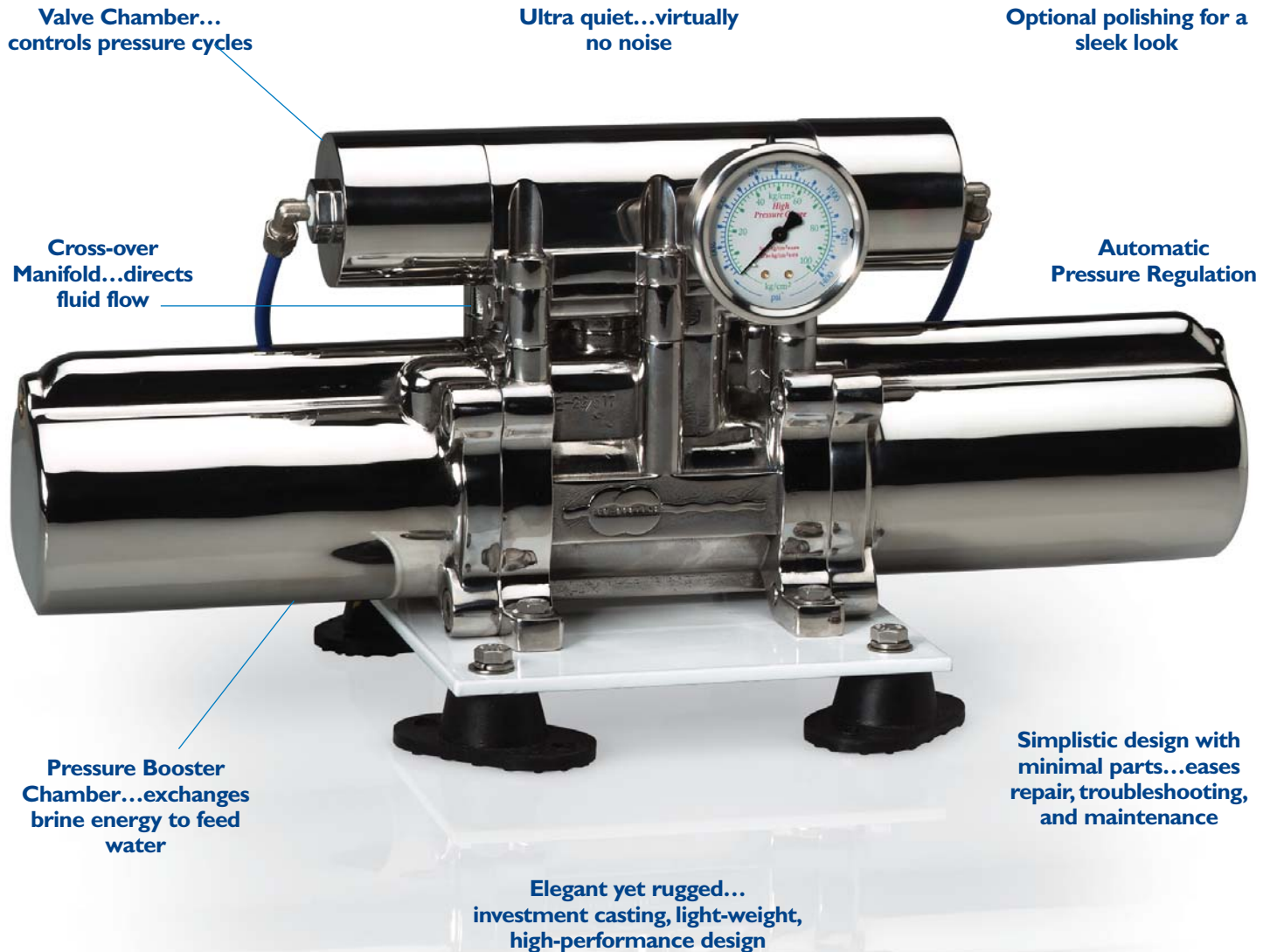
Owners of small sail and power boats can enjoy fresh water at an affordable price, thanks to the unique Aqua Whisper I70. It is designed and engineered to provide low-volume water making in a compact, easily maintained package. The AW I70 can fit into

tight spaces that previously couldn't accommodate a water maker, and its low-amperage power requirements (12 or 24VDC, and 115 or 230 VAC) make it an efficient, convenient choice for small-boat owners.

**Installation Kits, included with every system, contain all necessary items needed to install your SRC Watermaker.**

# UltraWhisper™

with EfficientSea™ Technology



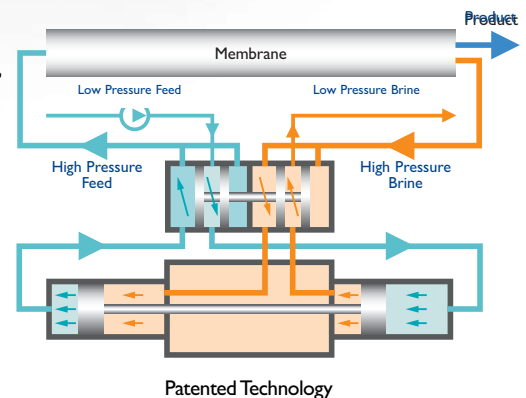
## The ultimate in automated, quiet and efficient water makers

Sea Recovery's Ultra Whisper™ Desalinator—with its unique EfficientSea™ Energy Transfer technology—brings efficient, compact, extraordinarily quiet water making to small and midsize power or sail boats.

The unit's Energy Transfer Device eliminates the need for a high-pressure pump, reducing the electricity consumption of the R.O. system by as much as 75%. The R.O. process is achieved by recovering energy from the pressurized brine discharge and transferring that energy to relatively low-pressurized feed

water. An ingeniously designed manifold and a two-valve flow control system deliver smooth, constant, fault-free automatic operation with no valves to adjust.

The Ultra Whisper's high-performance design is created from Super Austenetic Stainless Steel, a very high-alloy stainless steel with elevated Molybdenum content and strengthened with Nitrogen, which increases resistance to pitting and crevice corrosion. This added strength makes it truly superior to competitors' models.



## UltraWhisper™ Modular

8, 13, 17, 21, 25 Gallons Per Hour | 32, 47, 63, 79, 95 Litres Per Hour



### Model No:

SRC UWM 200-I  
SRC UWM 300-I  
SRC UWM 400-I  
SRC UWM 500-I  
SRC UWM 600-I

The UltraWhisper Modular (UWM) Desalinator is ideal for sail and power boats with limited onboard power—and even less onboard space. It easily adapts to virtually any boat design and installation location. The

components needed for R.O. desalination are custom installed by placing them in any available space onboard, such as under berths and settees, and in closets and engine rooms. Everything that's needed to install the UWM

system is included in one complete package. The flexibility of this modular system provides a quiet, efficient water making system that can fit any boat perfectly.

## UltraWhisper™ Compact

8, 13, 17, 21, 25 Gallons Per Hour | 32, 47, 63, 79, 95 Litres Per Hour



### Model No:

SRC UWC 200-I  
SRC UWC 300-I  
SRC UWC 400-I  
SRC UWC 500-I  
SRC UWC 600-I

The UltraWhisper Compact (UWC) Desalinator allows for easy installation in boats that previously didn't have room for a conventional R.O. system. Now, installation sites can include spaces under berths and settees, and in closets and engine room

compartments. And, an open designed frame allows easy access to the system's internal components during regularly scheduled maintenance. Now, small and midsize power or sail boats have a new option for providing fresh, clean water onboard.

## Sea Recovery Options and Accessories

### Genuine Sea Recovery Quality

To keep your Sea Recovery R.O. desalinator in top running condition for many years, we recommend using only genuine Sea Recovery options and accessories. These high-quality products will enable you to safely operate and monitor your system as they protect the quality of your drinking water. All of the products below are options/accessories for the Aqua Whisper models; the Fresh Water Flush and the Ultraviolet Sterilizer are enhancements for the Ultra Whisper models as well.

### Touch Pad Remote Control



The convenient Touch Pad Remote Control gives system status and allows operation

from other locations on the boat. This system gives you wired remote control of three basic operations—Start, Stop, and Fresh Water Flush activation—plus four illuminated status indications: Power On, System On, Pure Water, and Fresh Water Flush. The remote system includes a neutral gray flush-mountable remote panel and 75 feet of installation cable.

SRC R/AW, 4.75" L x 2.75" H  
120.65mm x 69.85mm

### Commercial Pre-Filter

The Commercial Pre-Filter replaces the Standard Dual Pre-Filter, providing longer intervals between necessary filter cleaning and replacement. This extra-long-life filter guards the R.O. membranes by filtering the feed water to a 5 micron rating. A pressure gauge and a bleed valve are included.



SRC CPF/AW, 13" L x 10.75" W x 16.75" H  
330.20mm x 273.05mm x 425.45mm



### Fresh Water Flush

The Fresh Water Flush greatly extends the life of the R.O. membranes by rinsing them with fresh water after each use. It will remove saltwater from the system's internal parts and flush the membrane with clean, fresh water. This prevents saltwater corrosion of the internal parts and reduces biological fouling of the R.O. membrane. And when the system is not being used, a unique timing feature allows it to automatically flush itself once every seven days.

SRC FWF/AW, 18.5" H x 12.625" L x 8" D  
469.90mm x 320.68mm x 203.20mm



### Ultraviolet Sterilizer

The Ultraviolet Sterilizer is the final filtration process where 99.8% of all microorganisms, including reproducing bacteria and viruses, are sterilized. Replacement U.V. lamps are also available.

SRC UV/AW, 14" L x 3.25" W x 3.25" H  
355.60mm x 82.55mm x 82.55mm

### Multi Media Filter Assembly

Using a graduated media filter bed consisting of gravel and sand, the Multi Media Filter traps suspended solids larger than 30 microns, extending cartridge filter life. It's recommended for boats in areas where the feed water has a high concentration of suspended particles and biological growth such as plankton. Inlet and outlet pressure gauges are included.



SRC MMF/AW, 15" L x 10.5" W x 21.5" H  
381mm x 266.70mm x 546.10mm

### Oil/Water Separator

The Oil/Water Separator protects the R.O. membranes from oily or polluted water sources. Through a coalescing process, any oil present in the feed water is separated out, extending the life and

efficiency of the system's membranes and increasing water purity.

SRC OWS/AW, 13" L x 10.75" W x 16.75" H  
330.20mm x 273.05mm x 425.45mm

### Clean Rinse Valve Panel

The Clean Rinse Valve allows for easy R.O. membrane maintenance and system rinsing.



SRC CRV, 14" L x 3.25" W x 3.75" H  
355.60mm x 82.55mm x 95.25mm

### Soft Motor Starter

The Soft Motor Starter (SMS) reduces amps needed for start-up by more than 50%, allowing operation with smaller generators.



SRC SMS, 5.875" W x 5" H x 4.5" D  
149.23mm x 127mm x 114.30mm

# Commercial High Seas™ Series

**Coral Sea™, Tasman Sea™ and North Sea™**



## Fresh water in high volume

From the Bahamas to the Bering Sea, when there's a need for fresh water in high volume, our High Seas Series™ of commercial-grade R.O. desalinators are the ideal choice. They are delivered as complete systems with all plumbing included, so they are ready to produce water immediately after installation.

All High Seas systems are constructed with a lightweight, epoxy-coated frame and utilize only the highest quality marine-grade materials and components. In addition, they are backed by Sea Recovery's technical support group, worldwide.

### Coral Sea™

**2,800 to 6,800 U.S. gallons per day**  
**10,599 to 25,741 litres per day**

The Coral Sea models have been designed to offer higher water making capacities and even quieter, more efficient operation. Their more powerful production capabilities make them ideal for mega-yachts, commercial fishing vessels, work boats, oil rigs, and charter

boats, and for onshore facilities as villas, small hotels, and private residences.

The models feature a state-of-the-art controller with a user-friendly LCD touch-screen interface and a Programmable Logic Controller (PLC) for easier operation. We have incorporated all stainless steel piping, hard plumbing, and Chemical Duty motors into these units, and we have built in redundant safety systems as well.

The Coral Sea Systems are available in a vertical, horizontal, or modular configuration. Our Fresh Water Flush system is available as an option.

### Tasman Sea™

**5,500 to 21,000 U.S. gallons per day**  
**20,820 to 79,493 litres per day**

Our Tasman Sea models are the next step up in water making capacity, with the power to supply pure, fresh water to small hotels, large villas, oil platforms, and small cruise ships.

### North Sea™

**11,000 to 44,000 U.S. gallons per day**  
**41,639 to 166,558 litres per day**

When a huge volume of fresh water is needed—regardless of location or conditions—it's our North Sea models that get the call. These systems have the power to supply fresh water to large hotels, cruise ships, villages, and other large facilities.

# Specifications

## Product Water Produced:

Model Number	Per 24 Hrs	Per Hr
AW 170	170 Gallons / 644 Liters	7 Gallons / 27 Liters
AW 350	350 Gallons / 1,325 Liters	15 Gallons / 55 Liters
AW 450-1	450 Gallons / 1,703 Liters	19 Gallons / 71 Liters
AW 700-1	700 Gallons / 2,650 Liters	29 Gallons / 110 Liters
AW 900-1	900 Gallons / 3,407 Liters	38 Gallons / 142 Liters
AW 900-2	900 Gallons / 3,407 Liters	31 Gallons / 117 Liters
AW 1400-2	1,400 Gallons / 5,300 Liters	58 Gallons / 221 Liters
AW 1800-2	1,800 Gallons / 6,814 Liters	75 Gallons / 284 Liters
UW 200	200 Gallons / 758 Liters	8 Gallons / 32 Liters
UW 300	300 Gallons / 1,136 Liters	13 Gallons / 47 Liters
UW 400	400 Gallons / 1,514 Liters	17 Gallons / 63 Liters
UW 500	500 Gallons / 1,893 Liters	21 Gallons / 79 Liters
UW 600	600 Gallons / 2,271 Liters	25 Gallons / 95 Liters

## Sea Water Conditions for System Specification:

(+/-15% at 820 psi / 56.5 bar, 77°F / 25°C & 35,000 ppm TDS Feed Water Salinity)

**Salt Rejection (Chloride Ion):** Minimum 99.2%, Average 99.4%

**Product Water Temp:** Ambient to feed water temperature

**Salinity Monitoring:** Fail safe automatic computer controlled electronic monitoring.

**Salinity Range of Feed Water:** Sea Water up to 50,000 ppm TDS (NaCl)  
(typical 35,000 ppm)

**Temperature Range:** Maximum - 122°F/50°C, Minimum - 33°F/5°C

**Reverse Osmosis Membrane Type:** High Rejection / High Flow aromatic tri-polyamid, thin film composite, spiral wound, reverse osmosis membrane element.

**Chlorine Tolerance:** 0.1 PPM pH Range: 3-11 (typical seawater pH is 8)

## System Pressure:

Feed Water: Min: 2-6 psi/.41 bar/.42 Kg/cm2  
Max: 30-35 psi/2.41 bar/2.46 Kg/cm2  
Operation: Seawater nominal: 850 psi/56.5 bar/57.66 Kg/cm2  
(Brackish varies w/ppm)

Model Number	Weight	Shipping Crate	Shipment Weight
AW 170	70 Lbs / 32 Kg	30" x 21" x 17"	105 Lbs / 8 Kg
AW 350	105 Lbs / 48 Kg	35" x 21" x 20"	120 Lbs / 54 Kg
AW 450	147 Lbs / 67 Kg	52" x 22" x 26"	245 Lbs / 111 Kg
AW 700-1	150 Lbs / 68 Kg	52" x 22" x 26"	250 Lbs / 113 Kg
AW 900-1	159 Lbs / 72 Kg	52" x 22" x 26"	265 Lbs / 120 Kg
AW 900-2	159 Lbs / 72 Kg	52" x 22" x 26"	270 Lbs / 122 Kg
AW 1400-2	165 Lbs / 75 Kg	52" x 22" x 26"	275 Lbs / 125 Kg
AW 1800-2	170 Lbs / 77 Kg	52" x 22" x 26"	285 Lbs / 129 Kg
UW 200	125 Lbs / 57 Kg	52" x 22" x 26"	187 Lbs / 85 Kg
UW 300	140 Lbs / 64 Kg	52" x 22" x 26"	200 Lbs / 90 Kg
UW 400	140 Lbs / 64 Kg	52" x 22" x 26"	204 Lbs / 93 Kg
UW 500	150 Lbs / 68 Kg	52" x 22" x 26"	221 Lbs / 100 Kg
UW 600	150 Lbs / 68 Kg	52" x 22" x 26"	221 Lbs / 100 Kg

**External Installation Water Connections:** Pipe sizes to be supplied by the installer for connection of the Sea Recovery supplied components.

	AW 170	All Other AW Systems	UW Systems
Feed Inlet:	3/8	3/4" FNPT	1/2" FNPT
Brine Discharge:	3/8	1/2" FNPT	1/2" FNPT
Product:	1/4	3/8" MNPT	3/8" MNPT

## Electrical Power Requirements

(HP = Horse Power; FLA = Full Load Amperes; LRA = Locked Rotor Amperes Start Up)

\* Specifications subject to change without notice.

## AW 170 Systems

	VAC	HP	FLA
12V/24V DC		0.33	29/14

Phase	Hz	VAC	HP(50Hz)	HP(60z)	FLA	LRA
Single	50/60	110/230	0.33	0.33	6/3	13/13

## AW 450-1 & 900-1 Systems

Phase	Hz	VAC	HP(50Hz)	HP(60z)	FLA	LRA
Single	50/60	110/115	2.2	2.2	21/18	121/94
Single	50/60	220/230	2.2	2.2	10.5/9	60.5/47
Three	50/60	220/230	3.0	3.0	9.2/8.2	78/70
Three	50/60	230/460	3.0	3.0	4.6/4.1	39/35

## AW 700-1 & 1400-2, and 900-2 & 1800-2 Systems

Phase	Hz	VAC	HP(50Hz)	HP(60z)	FLA	LRA
Single	50/60	110/115	2.2	2.6	21/21.2	121/109
Single	50/60	115/230	2.2	2.6	10.5/10.6	60.5/54.5
Three	50/60	220/230	3.0	3.0	9.2/8.2	78/70
Three	50/60	380/460	3.0	3.0	4.6/4.1	39/35

## UW 200 Systems

			HP	FLA	
12V DC			.33	13.0	
24V DC			.33	7.0	
Phase	Hz	VAC	HP	FLA	LRA
Single	50/60	115	.33	5.1/4.4	15
Single	50/60	230	.33	2.5/2.2	8

## UW 300 Systems

			HP	FLA	
12V DC			.33	22.0	
24V DC			.33	11.0	
Phase	Hz	VAC	HP	FLA	LRA
Single	50/60	115	.33	6.7/5.8	15
Single	50/60	230	.33	3.3/2.9	8

## UW 400 Systems

			HP	FLA	
12V DC			.33	22.0	
24V DC			.33	11.0	
Phase	Hz	VAC	HP	FLA	LRA
Single	50/60	115	.33	6.7/5.8	15
Single	50/60	230	.33	3.3/2.9	8

## UW 500 Systems

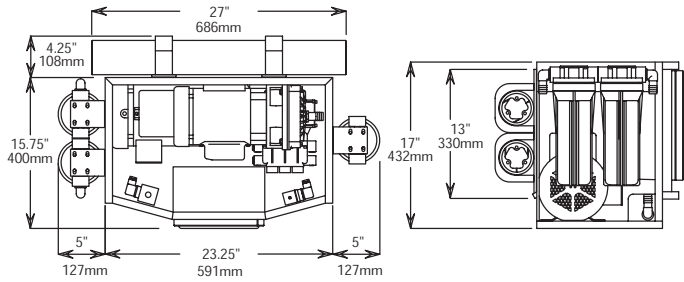
24V DC			HP .50	FLA 22.0	66
Phase	Hz	VAC	HP	FLA	LRA
Single	50/60	115	.50	11.3/9.8	33
Single	50/60	230	.50	5.6/4.9	15

## UW 600 Systems

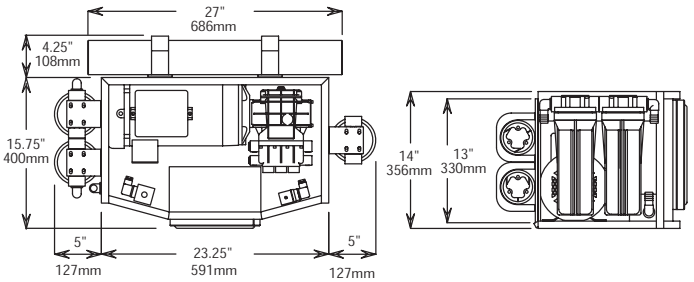
			HP	FLA	
24V DC			.50	22.0	66
Phase	Hz	VAC	HP	FLA	LRA
Single	50/60	115	.50	11.3/9.8	33
Single	50/60	230	.50	5.6/4.9	15

## Dimensions

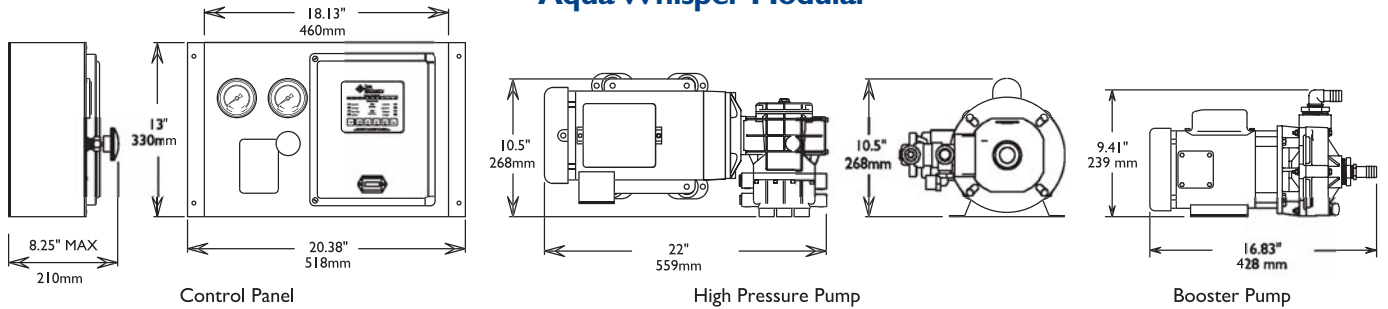
### Aqua Whisper Frame



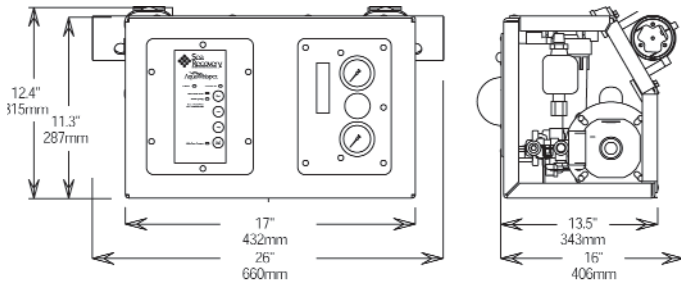
### Aqua Whisper Compact



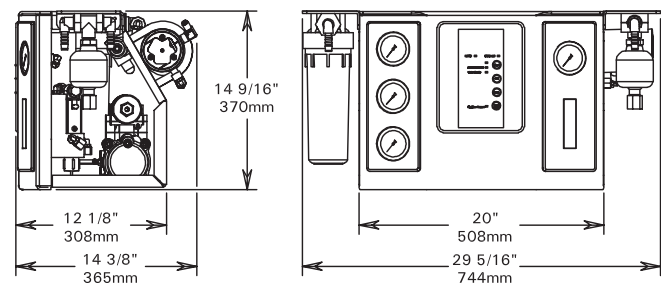
### Aqua Whisper Modular



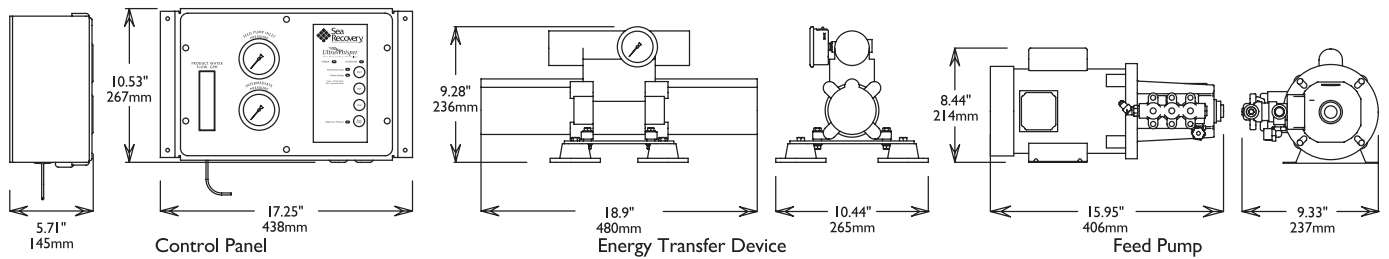
### Aqua Whisper I70



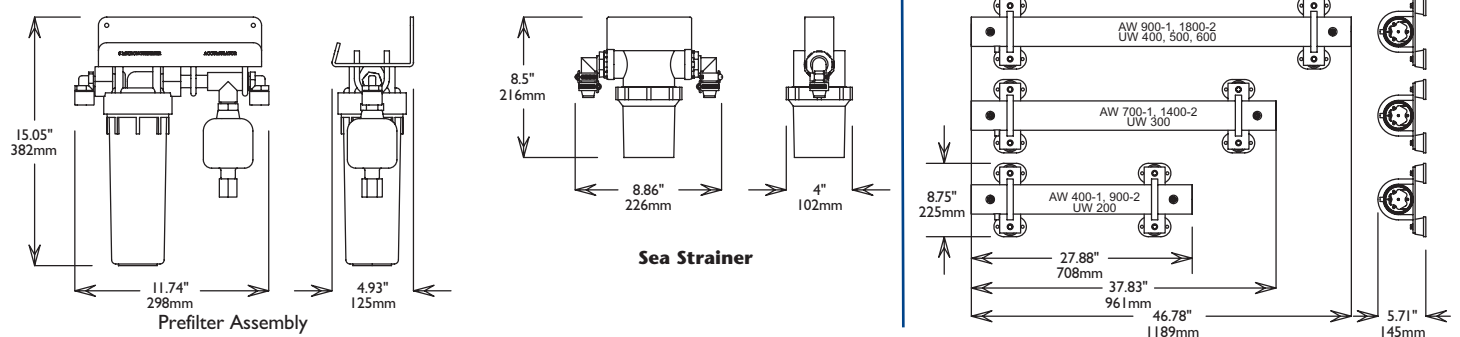
### Ultra Whisper Compact



### Ultra Whisper Modular



### Membranes for All Models



**Authorized Dealer:**



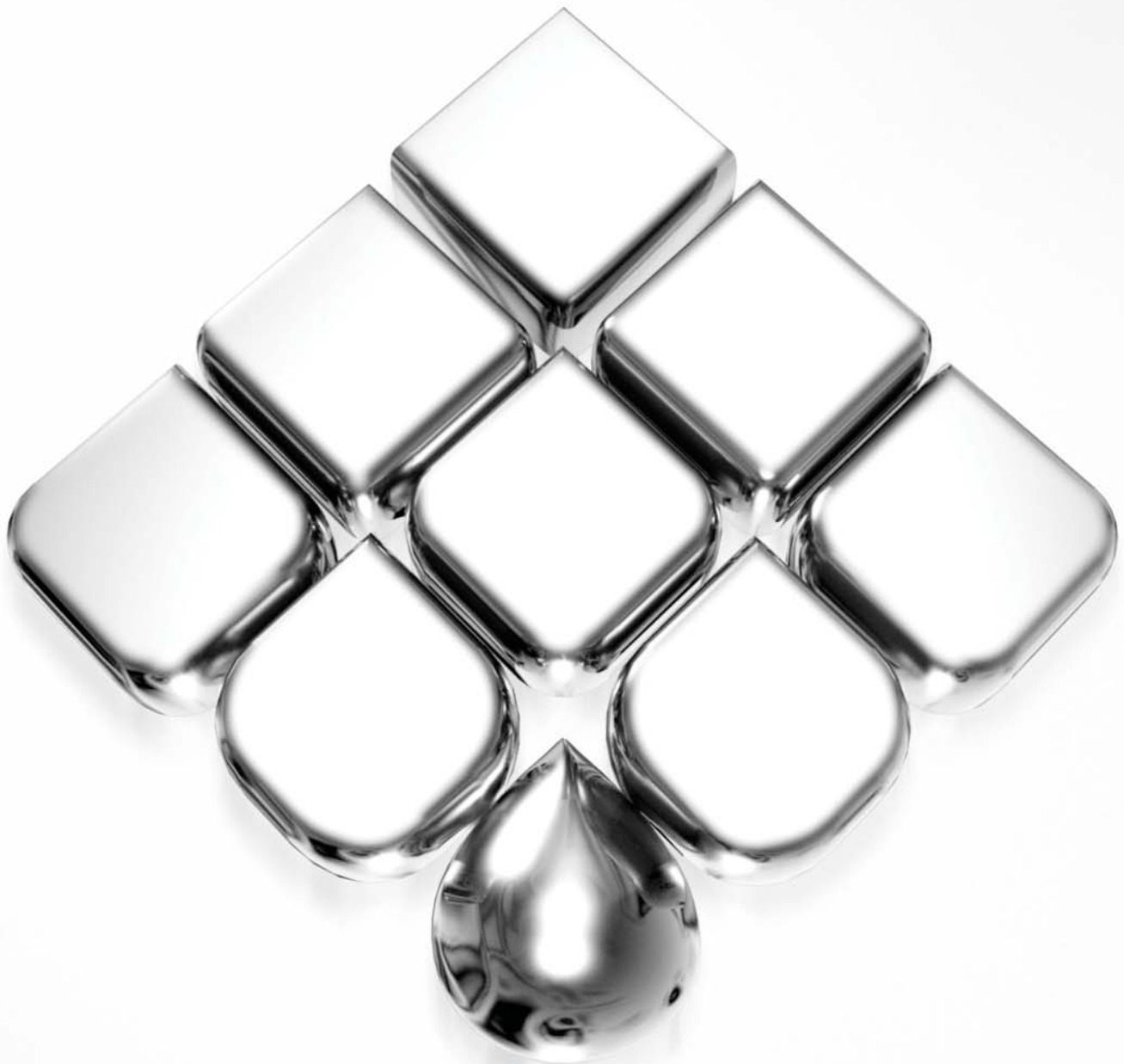
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**R e v e r s e   O s m o s i s   D e s a l i n a t o r s**



**Marine**  **Whisper™ Series**