THEUNISSEN
TECHNICAL TRADING BV

REVERSE OSMOSIS WATERMAKERS

THEUNISSEN
TECHNICAL TRADING BV

Theunissen Technical Trading BV | Postbus 70, 6580 AB Malden, Nederland
T +31(0)24 358 44 55 | F +31(0)24 358 21 66 | info@tttbv.nl | www.tttbv.nl

PROGRAM
THEUNISSEN TECHNICAL TRADING BV

COMMUNICATION ON BOARD
Integrated telephone /P.A./Intercom and talk-back systems with general fire alarm distribution
Wireless telephone and paging systems
Sound powered telephone systems
EX telephone equipment
Telephone PABX systems

LIGHTING ON BOARD
Luminaires, (EX) stainless steel floodlights for HPS and MH lamps
Navigation lights (EX proof)
Low Location Lighting

MULTI CABLE TRANSITS
Multi cable and pipe transits

FIRE & GAS DETECTION
Fire and gas detection systems
Conventional and addressable systems

REVERSE OSMOSIS WATERMAKERS
Reverse osmosis watermakers

SEARCHLIGHTS & WINDOW WIPERS
Searchlights
Straightline window wipers

OTHER PRODUCTS
Fixed Fire Fighting equipment/Watermist systems/
Local application systems

Single pipe transits

Electronic emergency telegraphs

Watertight halogen marine lights

Signalling columns

Offshore marine heaters

Wireless communication systems

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Sea Recovery

General information

Reverse osmosis watermakers

Sea Recovery, opgericht in 1982, is een van de eerste fabrikanten van compacte ontziltingssystemen voor gebruik in maritieme industrieën. Dankzij hun briljante, innovatieve ontwerpen, creëerde Sea Recovery een zeer betrouwbaar en duurzaam product dat in vrijwel alle weersomstandigheden kan opereren. De watermakers, gebaseerd op het principe van omgekeerde osmose (reverse osmosis), zijn speciaal ontwikkeld voor de eindgebruiker. Dit resulteert in een gebruiksvriendelijke machine die grotendeels automatisch opereert.

- ✓ Functioneert perfect in lastige weersomstandigheden, zo ook in maritieme omgevingen
- ✓ ABS approval certificaat vanaf 1985
- ✓ Compact
- ✓ Gebruiksvriendelijk
- ✓ Range van watermakers: van 600 tot 1.200.000 liter drinkwater per dag
- ✓ Bestaat geheel uit hoogdrukonderdelen (roestvrijstaal 316L en duplex roestvrijstaal)
- ✓ Gedetailleerde gebruiks- en onderhoudshandleiding beschikbaar
- ✓ Lange corrosiebestendigheid
- ✓ Betrouwbaar en duurzaam
- ✓ Wereldwijd marktleider

Aqua Mini

Aqua Matic

Coral Sea

Tasman Sea

Sea Recovery bij TTT

Theunissen Technical Trading BV (TTT) richt zich zowel op de kleinere jachten als de grotere beroepsvaart. Voor kleinere schepen zijn compacte watermakers beschikbaar, enkele ook werkend op 12 of 24 volt. De **Aqua Mini 170**, bijvoorbeeld, maakt met 12 of 24 VDC al 27 liter drinkwater per uur. Deze watermaker is ideaal voor kleinere jachten (circa 30 tot 50 voet). Maar ook scheepseigenaren die meer dan duizend liter per uur nodig hebben kunnen bij TTT terecht. Voor zulke hoeveelheden is de **Coral Sea** uitermate geschikt.

TTT levert voor diverse typen watermakers reserveonderdelen en verbruiksmaterialen uit eigen voorraad. Tevens beschikt TTT over een eigen servicedienst voor uitvoering van reparaties aan boord.

Neem direct contact op met de TTT verkopers:

Vincent de Moor
+31 (0)24 3667478
v.moor@tttbv.nl

Marcel Teuwsen
+31 (0)24 3667477
m.teuwsen@tttbv.nl

Sea Recovery

General information

Reverse osmosis watermakers

Sea Recovery was established in 1982 and became one of the first manufacturers of compact, economic desalination systems for use in the marine industry. A brilliant vision and innovative engineering allowed Sea Recovery to create a very reliable and durable product that can operate in the most difficult environmental conditions. The systems, based on the principle of reverse osmosis, are packaged conveniently for the end-user, providing a user-friendly interface to operate with valves and automated controls.

- ✓ Functions perfectly in harsh environmental conditions, such as marine environments
- ✓ ABS approval certificate since 1985
- ✓ Compact
- ✓ User-friendly
- ✓ Watermaker range of 600 up to 1,200,000 liters potable water per day
- ✓ All fittings are high-pressure components (stainless steel 316L and duplex stainless steel)
- ✓ Detailed operation and maintenance manual available
- ✓ Long corrosion resistance
- ✓ Reliable and durable watermakers
- ✓ Worldwide market leader

Aqua Mini

Aqua Matic

Coral Sea

Tasman Sea

Sea Recovery at TTT

Theunissen Technical Trading BV (TTT) focuses on both smaller yachts and the bigger commercial ships. Compact watermakers are available for smaller ships. Some of the systems are operating on 12 or 24 VDC. The **Aqua Mini 170**, for example, makes 27 litres of potable water per hour, based on 12 or 24 VDC power supply. This watermaker is ideal for smaller yachts (approximately 30 to 50 foot). But ship owners who need more than 1,000 litres per hour can find what they need at TTT as well. The **Coral Sea watermaker** is extremely suitable for that amount.

TTT can deliver the spare parts and consumables from own stock of various types of watermakers. Furthermore, TTT has its own service department for onboard engineering.

Please contact our sales representatives for more information:

Vincent de Moor
+31 (0)24 3667478
v.moor@tttbv.nl

Marcel Teuwsen
+31 (0)24 3667477
m.teuwsen@tttbv.nl

Sea Recovery®

INNOVATIVE WATERMAKERS

Marine Brochure

Sea Recovery - The trusted source for fresh water

Sea Recovery has manufactured the most innovative and intuitive watermakers for the past 30 years. By incorporating a customer-first philosophy into our designs, the quality of our products is never compromised. We believe that boaters deserve more from their watermakers. Dealing with confusing controls and maintenance should not be a concern. Our company strives to communicate to the heart of the leisure boater, by engineering systems that marries style with functionality, a formula that has made Sea Recovery the #1 watermaking brand among marine consumers and boat builders around the world.

Service and support

Worldwide Dealer Network

With hundreds of certified dealers throughout the world, Sea Recovery customers can cruise confidently to any destination and expect a friendly Sea Recovery expert ready to service or upgrade their system.

Sea Recovery Warranty Coverage*

We stand behind our innovative products by providing our customers a full year warranty that includes full coverage for parts and labor at no extra cost to you.

Quality is our Priority

Safety and quality standards are priority and our goal is to surpass them. Our products utilize quality parts and are built to withstand any condition.

* Refer to your owner's manual for warranty details.

Sea Recovery is certified by the following associations:

ISO 14001:2004 ISO 9001:2008

ABS Type Approved, ISO 14001:2004, and ISO 9001:2008 by ABS.

Safety, service, and solutions are the goals that define the American Bureau of Shipping. Sea Recovery is the first and only watermaker manufacturer to gain full product line type acceptance.

National Marine Manufacturers Association and Southern California Marine Association

Sea Recovery is an active member in the above associations in good standing.

CE Approval

The Conformité Européne (CE) mark indicates that our products comply with the legal standards of the EU directives.

Did you know?

You can increase the value of your boat up to 10% by washing down your boat with Sea Recovery product water.

Sea Recovery water has superior taste than your regular tap. Even coffee made with Sea Recovery water tastes better.

You can create clear ice cubes with Sea Recovery water. Store any food, including fish of the day with Sea Recovery water ice for better preservation.

Enjoy the Benefits of a Sea Recovery Watermaker...

Less weight, lower fuel costs, higher speeds

Cruising with a full water tank, or an extra 1,700 pounds will result in wasted fuel, slower speeds, and shorter trips. A Sea Recovery watermaker allows you to cruise faster and farther and create fresh water… on location. Our systems save boaters time and money, while maximizing yacht performance.

Cruise without limits or boundaries

With a Sea Recovery watermaker, you don't need to plan your boating activities around marina stops. Cruise direct to your destination or cruise to limitless distances without the need to stock up on fresh water.

Fresh water wash downs

Wash downs with Sea Recovery water are highly effective in preserving your yacht's exterior, which can contribute to an increase to the value of your yacht. Sea Recovery water acts as a sponge, absorbing and washing out all unwanted sea salt and minerals, and dries clean - without any water spots.

Convenient for every boating activity

Whether you use it to drink, shower or to wash down your yacht, owning a Sea Recovery watermaker provides unlimited possibilities that saves money and increases leisure time. How can any boater afford not to own a Sea Recovery watermaker?

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(40 - 80 feet / 12 - 24 meters)

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Yacht Category: **Sail Boats / Small Power Boats**
(30 - 45 feet / 9 - 14 meters)

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Yacht Category: **Mega**
(over 80 feet / 24 meters)

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NMEA 2000 - No more engine room visits

Sea Recovery's new line of watermakers are NMEA 2000 compliant, giving boaters the power to monitor and communicate with their systems through any NMEA 2000 compatible display.*

NMEA 2000 Network

Eliminate wires, clutter, and engine room visits by connecting directly to your NMEA 2000 central connection. This network standard allows boaters to monitor all NMEA-compliant electronics through their system displays installed throughout your yacht or laptop.

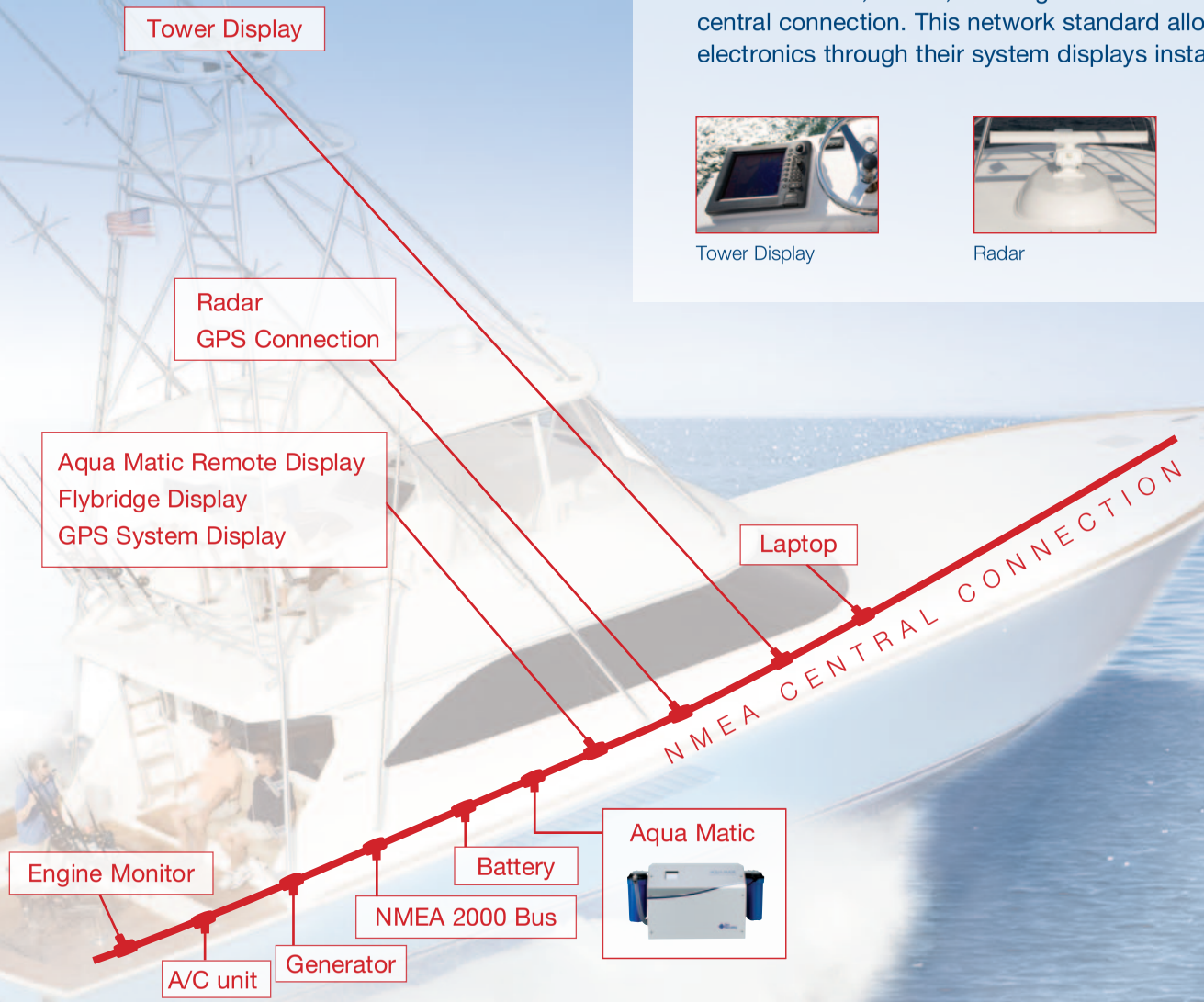
Tower Display

Radar

Aqua Matic
Remote Display

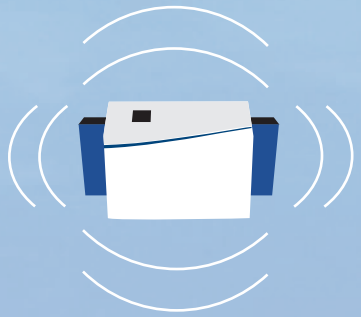
Flybridge and GPS
Display

*Check with your display manufacturer for compatibility



Yacht photograph courtesy of Viking

Quality tested for smooth functionality



Engineered for less noise pollution

Sea Recovery watermakers feature state of the art frames that optimize space, minimize sound, and reduce maintenance time. Sound has been noticeably reduced by 3db for the Aqua Matic and Aqua Whisper DX systems.

Vibration tested

Our systems are manufactured and tested to withstand up to 20 G's of continuous force for over an hour of operation, ensuring reliable performance in all conditions.

State of the art color touch screen

User-friendly touchscreen

Our full color LCD touch screens are designed to be simple and easy to use. Featuring an intuitive Human Machine Interface navigation menu, system start-up and controls are able to be activated with a single touch.

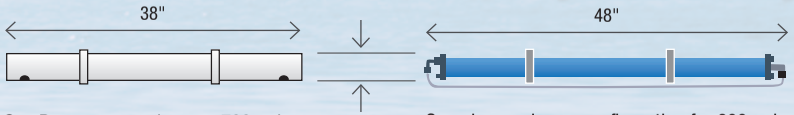
Customized display settings

Equipped with a multiple language interface, you can choose to display your screen in English, French, Italian, and Spanish. You also have the choice to set measurement units to either metric or US standard readings.

More water, less clutter

Sea Recovery watermakers create more water per square inch than any other system in the world. By utilizing high efficiency membranes, there is 17% more filtering surface area than conventional membranes. This reduces the amount of membranes and installation space required by competing brands.

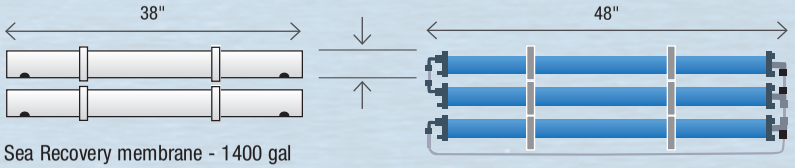
Ex. 1: Sea Recovery's 700 gallon capacity membranes are smaller in length, about the same in diameter, yet have a larger filtering surface than the generic 600 gallon membrane.



Sea Recovery membrane - 700 gal

Generic membrane configuration for 600 gal

Ex 2: Sea Recovery's 1400 gallon membrane configuration uses less membranes than the generic 1200 gallon membrane configuration, giving you more filtering surface while reducing replacement and maintenance costs.



Sea Recovery membrane - 1400 gal

Generic membrane configuration for 1200 gal

AQUA MATIC

Be Innovative, Be Adventurous

The revolutionary Aqua Matic is engineered to be easier to use and more reliable than conventional watermakers. Featuring the latest technology, the Aqua Matic is able to regulate and monitor system functions without the need of an operator. With one touch, the Aqua Matic will start and finish water production automatically, allowing boaters more time to relax and enjoy their cruise.

Modular Configuration

Aqua Matic Key Features

- NMEA 2000 compliant
- One touch operation
- Full color touch screen
- Quiet high pressure pump

Category | Mid to Large Yachts (40 - 80 ft / 12 - 68 m)

Automated functions

Standard watermakers require pressure adjustments for water conditions and to produce fresh water - a process that can be very time consuming. Sea Recovery solves this problem by incorporating an automatic pressure regulating system into the Aqua Matic, allowing the watermaker to balance pressure levels automatically. This feature is designed to maximize a boater's comfort and convenience, allowing more time to be invested in leisure activities.

< Push start and the Aqua Matic does the rest

Longer lifespan with minimal maintenance

The Aqua Matic's features allow boaters to extend its service life. The automatic Fresh Water Flush and LCD monitoring system allows you to optimize pre-filter and membrane performance. This system will flush every 7 days, whether the watermaker is producing water or on standby. Also equipped with the Aqua Matic is a standard high pressure plunger pump (optional radial axial pump upgrade available) that operates at low noise levels and requires minimal maintenance.

< System Status Information

Courtesy of Viking Yachts

The best technology that accommodates your needs

Equipped with every Aqua Matic is an exclusive color LCD touch screen that simplifies system monitoring and operation with easy to view displays. Functions and controls are available anywhere throughout the NMEA 2000 network, and are quickly configured with a single touch of the menu. The screen also reminds you of any maintenance needs and if performance or water quality falls below a determined level. With a Full-Color Alert System, boaters will be quickly advised to tend to any maintenance issue, to ensure that your system continues to run optimally.

AQUA WHISPER DX

Be completely in control

The Aqua Whisper DX grants boaters the freedom to monitor and regulate system capabilities. Made for the hands-on boater, the Aqua Whisper DX allows you to customize features and pressure settings with an advanced touch screen display. It's ruggedness and reliability allows boaters to confidently command their watermaker in all parts of the world.

Modular Configuration

Aqua Whisper DX Key Features

- NMEA 2000 compliant
- User adjusted operation
- Digital menu
- Quiet performance

Category | Mid to Large Yachts (40 - 80 ft / 12 - 68 m)

Maximize system settings

With the Aqua Whisper DX, you have the power to manually optimize and configure your system settings according to any water condition you encounter. Pressure and temperature is balanced using a pressure regulating knob (shown left), allowing boaters to operate the Aqua Whisper DX in any ocean condition. Operations are easily optimized in seconds simply by turning the knob to your preferred setting.

Pressure Status

Manual Drive

Manage critical functions from any location

The LCD touch screen acts as your watermaker's first mate, and will assist your efforts to maintain, guide, and configure the Aqua Whisper DX anyway you wish. Vital system functions and gauges are reported through the display and remote, and can be accessed at any time. The Aqua Whisper DX gives operators maximum control with the ability to do more than ever before.

	Plunger Pump	Radial-Axial Pump
Pump lubrication	oil	water
Oil Changes	500 hours	none
Typical Maintenance Schedule	2,000 hours	8,000 hours
Wetted Parts	316 Stainless Steel	Super Duplex

Customize your high pressure pump

Aqua Whisper DX owners have the option to customize their settings as well as their major features. The Aqua Whisper DX comes with a noise reduction plunger pump. You can upgrade your pump to the radial axial, water lubricated pump that is offered as an option. The chart to your left compares the differences between the two pumps.

Specifications - Aqua Matic/Aqua Whisper DX

* For general system specifications, refer to page 22

	Model #	Production/hr.	Production/24hrs.	Aqua Matic compact*	Aqua Matic modular*	Aqua Whisper compact*	Aqua Whisper modular*
PRODUCTION & WEIGHT	450-1	19 Gal / 71 L	450 Gal / 1,703 L	153 lbs / 69 kg	149 lbs / 68 kg	157 lbs / 71 kg	153 lbs / 69 kg
	700-1	29 Gal / 110 L	700 Gal / 2,650 L	156 lbs / 71 kg	152 lbs / 69 kg	160 lbs / 73 kg	156 lbs / 71 kg
	900-1	38 Gal / 142 L	900 Gal / 3,407 L	158 lbs / 72 kg	154 lbs / 70 kg	162 lbs / 73 kg	158 lbs / 72kg
	900-2	38 Gal / 142 L	900 Gal / 3,407 L	165 lbs / 75 kg	161 lbs / 73 kg	169 lbs / 77 kg	165 lbs / 75 kg
	1400-2	58 Gal / 221 L	1,400 Gal / 5,300 L	171 lbs / 76 kg	167 lbs / 76 kg	175 lbs / 79 kg	171 lbs / 76 kg
	1800-2	75 Gal / 284 L	1,800 Gal / 6,814 L	176 lbs / 80 kg	172 lbs / 78 kg	180 lbs / 82 kg	175 lbs / 79 kg

* Weights based on single phase motor. For three phase motors subtract 9 lbs.

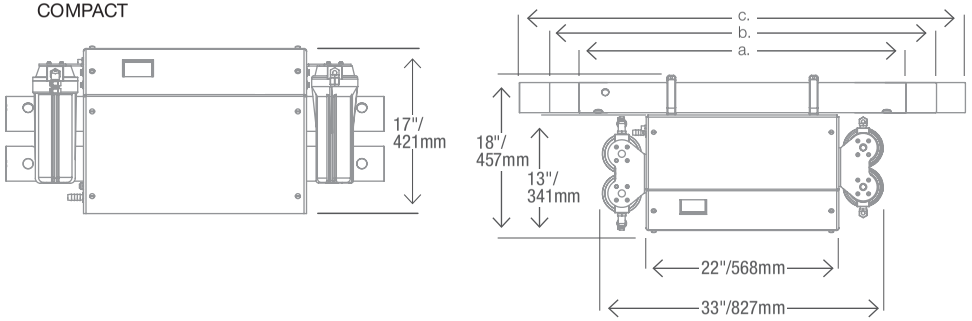
ELECTRICAL	Phase	Pump Motor	Voltage VAC	Hz	Normal Operating Amps	Start Up Current
					110 / 220	110 / 220
Plunger Pump	Single	High Pressure / Booster	110-115 / 220 -230	50 / 60	30 / 15	100 / 50
Radial Axial Pump	Single	High Pressure / Booster	110-115 / 220 -230	50 / 60	35 / 17.5	110 / 55
					220 / 380 - 440	220 / 380 - 460
Plunger Pump	Three	High Pressure / Booster	220-230 / 380-460	50 / 60	11 / 5.5	30 / 15
Radial Axial Pump	Three	High Pressure / Booster	220-230 / 380-460	50 / 60	11 / 5.5	30 / 15

Circuit Breaker Size	Operating AC Voltage	Phase	Recommended circuit breaker
Plunger Pump	110-115 / 220-230	Single	40 Ampere / 20 Ampere
Radial Axial Pump	110-115 / 220-230	Single	45 Ampere / 25 Ampere
Plunger Pump	220 / 380 / 460	Three	15 Ampere / 10 Ampere / 10 Ampere
Radial Axial Pump	220 / 380 / 460	Three	15 Ampere / 10 Ampere / 10 Ampere

Dimensions

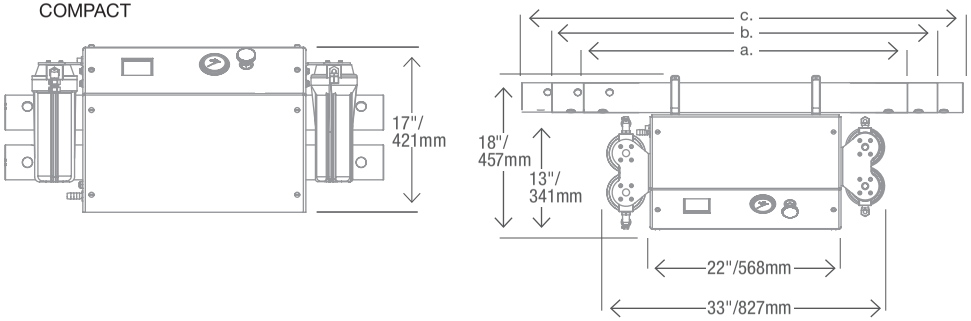
AQUA MATIC

COMPACT



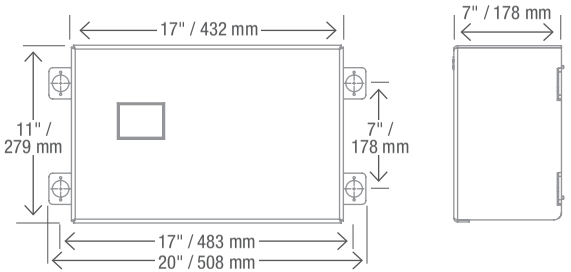
AQUA WHISPER DX

COMPACT



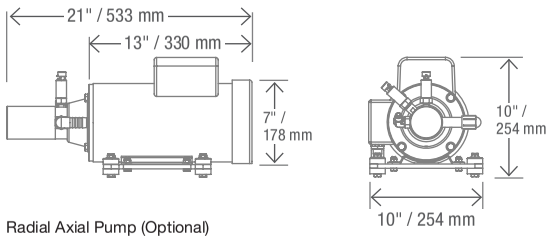
a. 27 15/16" (710mm): Aqua Matic / Aqua Whisper DX Compact 450-1 & 900-2 b. 37 15/16" (964mm): Aqua Matic / Aqua Whisper DX Compact 700-1 & 1400-2
c. 46 15/16" (1192mm): Aqua Matic / Aqua Whisper Compact 900-1 & 1800-2

AQUA MATIC MODULAR



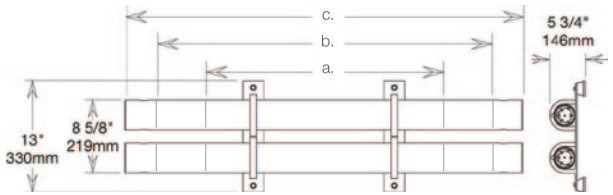
Control Panel - Front

Profile



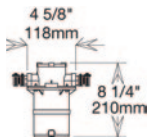
Radial Axial Pump (Optional)

AQUA MATIC / AQUA WHISPER DX VESSELS AND OPTIONS

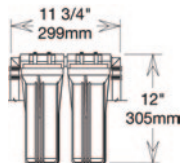


Double R.O. Membrane Vessel Assembly

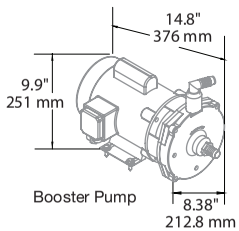
a. 27 15/16" - 710mm: SRC Aqua Matic / Aqua Whisper Modular 450-1 & 900-2
b. 37 15/16" - 964mm: SRC Aqua Matic / Aqua Whisper Modular 700-1 & 1400-2
c. 46 15/16" - 1192mm: SRC Aqua Matic / Aqua Whisper Modular 900-1 & 1800-2



Sea Strainer

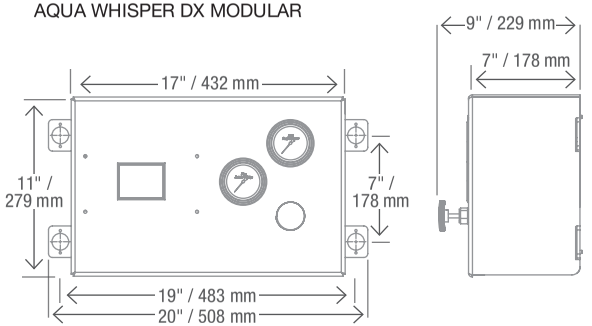


Dual Pre-filter &
Dual Post Filter



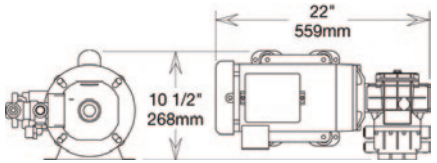
Booster Pump

AQUA WHISPER DX MODULAR



Control Panel - Front

Profile



Standard Plunger Pump

WATER CONNECTIONS: Feed Water 3/4", Brine Discharge 3/4", Product Water 1/2"

AquaWhisper MINI

Great things come in small packages

The low-hassle Aqua Whisper Mini is engineered to fit anywhere. Measuring at about 2 - 3 cubic feet, sail and small power boaters have the opportunity and the convenience of a Sea Recovery watermaker without space restrictions. Featuring a simple interface, the Aqua Whisper Mini can be monitored via the control panel or remote (optional). The Aqua Whisper Mini can produce up to 7, 15, 23, or 31 gallons of fresh water per hour and is the perfect seaworthy companion for the solo cruiser.

Aqua Whisper Mini Key Features

- Smallest line of watermakers
- DC power available for Aqua Whisper Mini 170
- Push button operation
- Low AC power consumption

Category | Small Power Boats & Sailboats (35 - 45 ft / 9 - 14 m)

Smaller than a 34 gallon water tank, up to 750 gallons in capacity

The Aqua Whisper Mini is a few cubic inches smaller than a 20 gallon water tank, yet is capable of producing between 170 and 750 gallons of potable water per day. Weighing at most, 130 lbs, the Aqua Whisper Mini is also more convenient than hauling around a full water tank that adds about 8 pounds per gallon to your boat. For example, if you filled up a 34 gallon tank to capacity, you will have to haul about 342 lbs, which will put more stress on your engine, slow down your speed, and increase fuel costs. With the Aqua Whisper Mini, compact boaters will carry minimal weight, save space, and cruise without limits to any destination they wish.

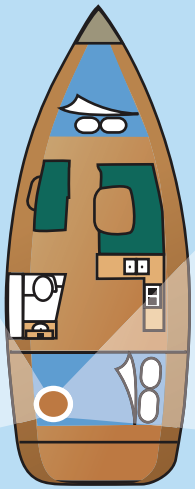
Aqua Whisper Mini 170

12" L x 17" W x 15" D

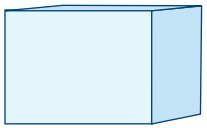
System Weight = 70 lbs
Water Weight = 0 lbs
(make water on location)

Total weight = 70 lbs

36 Foot Sailboat



34 Gallon Water Tank

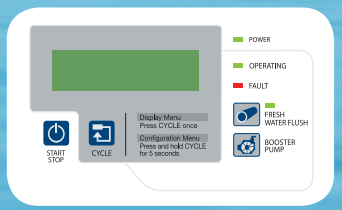


34" L x 26" W x 10" D

Tank Weight = 70 lbs
Water Weight = 272 lbs

Total weight = 342 lbs

* An Aqua Whisper Mini 170 is smaller, lighter, and has a higher capacity than the average 34 gallon tank.



Unlimited features at your control

The Aqua Whisper Mini controller provides fresh water flush options, better maintenance access, and safety alarm features. With the most stable controller in the market, the Aqua Whisper Mini keeps up it's reputation as the smallest, most reliable watermaker used by boaters around the world.

UltraWhisper™

The low power alternative

The Ultra Whisper is engineered for boaters with limited electrical options. With it's new low powered Energy Transfer Device, the very quiet Ultra Whisper is more efficient and requires less maintenance than before. Featuring automatic operation and easy to use Start and Stop controls, the Ultra Whisper is capable of producing between 8 and 25 gallons per hour, ideal for small power boats and sail boats.

Modular Configuration

Ultra Whisper Key Features

- AC or DC power
- Worry-free operation
- Energy efficient
- Quiet operation

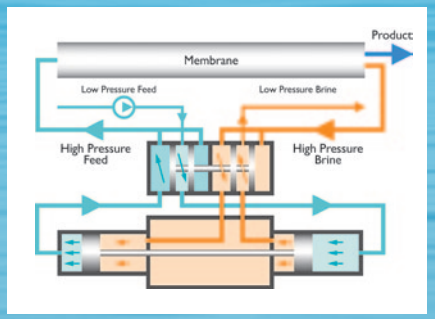
25 GPH available in 24 VDC

The Ultra Whisper replaces the high pressure pump with the Energy Transfer Device. The Energy Transfer Device's patented design produces water through a two valve flow system that delivers smooth, constant, fault-free, automatic operation with no valves to adjust.

Energy efficient & connects to your AC or DC power

With the Ultrawhisper's low power technology, boaters get more out of minimal power. The new Energy Transfer Device and the Ultra Whisper's efficient functions are capable of reducing power consumption by up to 75%. Giving you more out of your energy source and allowing you to travel worry-free.

Energy Transfer Device



Two valve manifold design

Photo courtesy of Admiral Yachts

Specifications - Aqua Whisper Mini / Ultra Whisper

* For general system specifications, refer to page 22

MODEL	Production / Hr.	Production / 24Hrs.	Weight
AQW MINI 170	7 gal / 27 liters	170 gal / 644 liters	70 lbs / 32 kg
AQW MINI 350	15 gal / 55 liters	350 gal / 1,325 liters	127 lbs / 58 kg

MODEL	Production / Hr.	Production / 24Hrs.	Weight
AQW MINI 550	23 gal / 87 liters	550 gal / 1,900 liters	142 lbs / 64 kg
AQW MINI 750	31 gal / 117 liters	750 gal / 2,850 liters	150 lbs / 68 kg

ELECTRICAL	Phase	Pump Motor	Voltage	Hz	H.P.	Normal Operating Amps	Start Up Current
AQW MINI 170		High Pressure / Booster	12 / 24 VDC	N/A	.333	29 / 14	120 / 60
	Single	High Pressure / Booster	110 / 230	50 / 60	.333	6 / 3	26 / 13
AQW MINI 350	Single	High Pressure / Booster	110 / 230	50 / 60	1	13 / 6.5	52 / 26
AQW MINI 550 & 750	Single	High Pressure	110 / 220	50 / 60	2	93 / 47	26 / 13
	Single	Booster	110 / 220	50 / 60	½	28 / 14	7 / 3.5

Circuit Breaker Size	Operating Voltage	Phase	Recommended circuit breaker
AQW MINI 170	12 / 24 VDC	Single	40 Ampere / 20 Ampere
	110 / 230 (AC)		12 Ampere / 10 Ampere
AQW MINI 350	110 / 230 (AC)	Single	20 Ampere / 15 Ampere

Circuit Breaker Size	Operating Voltage	Phase	Recommended circuit breaker
AQW MINI 550	110 (AC)	Single	40 Ampere
AQW MINI 750	220 (AC)	Single	20 Ampere

SYSTEM	Model #	Production / Hr.	Weight - Compact	Weight - Modular
ULTRA WHISPER	200	8 gal / 32 liters	140 lbs / 64 kg	140 lbs / 64 kg
	400	17 gal / 63 liters	150 lbs / 68 kg	150 lbs / 68 kg
	600	25 gal / 95 liters	160 lbs / 73 kg	160 lbs / 73 kg

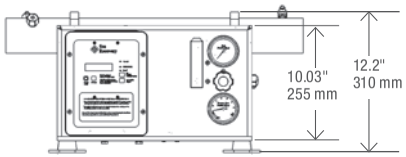
ELECTRICAL Feed Pump and Motor		VAC	NOA	SUC
ULTRA WHISPER 200	12V DC		26	95
	24V DC		13	48
	Phase HZ			
	Single 50 / 60	115	5.1 / 4.4	15
	Single 50 / 60	230	2.5 / 2.2	8
ULTRA WHISPER 400	12V DC		33	95
	24V DC		17	48
	Phase Hz			
	Single 50 / 60	115	6.7 / 5.8	15
	Single 50 / 60	230	3.3 / 2.9	8
ULTRA WHISPER 600	24V DC		24.0	60
	Phase Hz			
	Single 50 / 60	115	11.3 / 9.8	33
	Single 50 / 60	230	5.6 / 4.9	15

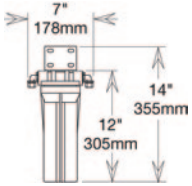
H.P. = Horse Power • NOA = Normal Operating Amps • SUC = Start Up Current

Dimensions

AquaWhisper MINI

COMPACT 170





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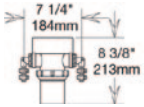
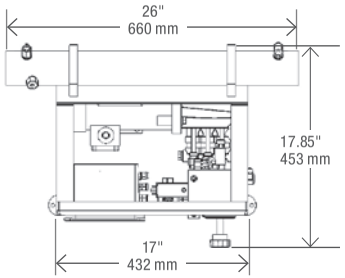
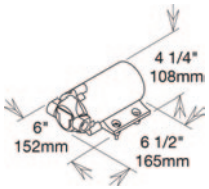


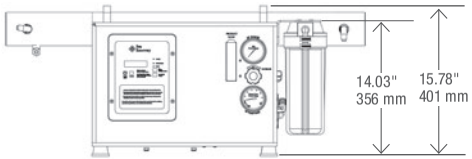
Sea Strainer

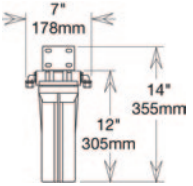




Booster Pump

COMPACT 350, 550, and 750





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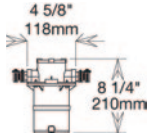
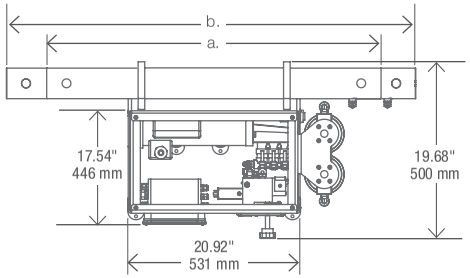
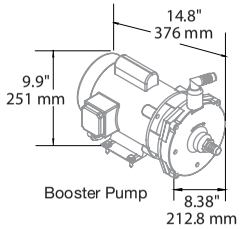


Sea Strainer



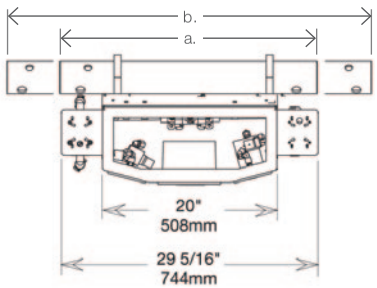


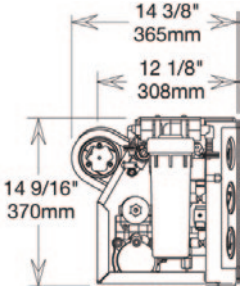
Booster Pump

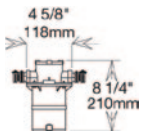
a. Aqua Mini 350 & 550: 37.94" / 964 mm | b. Aqua Mini 750: 46.94" / 1192 mm

UltraWhisper™

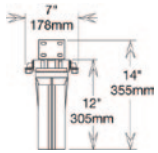
COMPACT



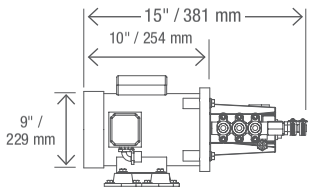




Sea Strainer

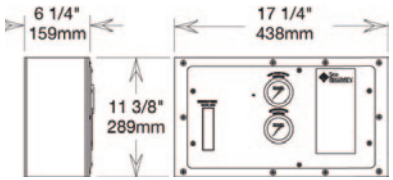


Single Pre/Post Filter

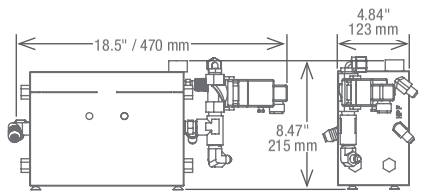


Feed Pump

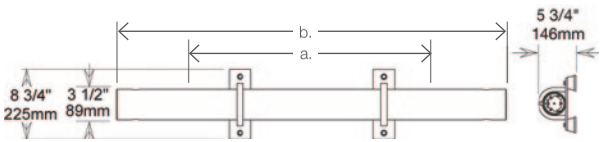
MODULAR



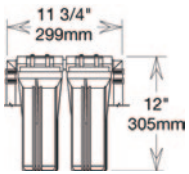
Control Panel



Energy Transfer Device



Single RO Membrane Assembly



Dual Pre-Post filter

a. 37 15/16" - 964 mm: SRC Ultra Whisper Compact / Modular 200
b. 46 15/16" - 1192 mm: SRC Ultra Whisper Compact / Modular 400 & 600

WATER CONNECTIONS: Feed Water 1/2" Brine Discharge 1/2" Product Water 1/4"

Coral Sea™

Never underestimate your fresh water needs

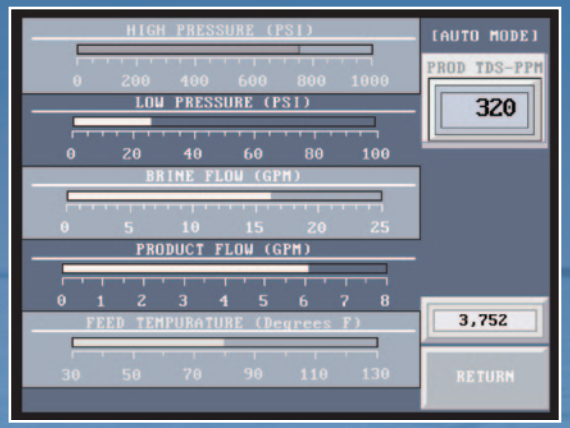
Sea Recovery creates the perfect watermaker for large yachts by combining industrial-strength production with space saving designs. Coral Sea systems are not only installed in luxury yachts, but are also regularly found on oil rigs and commercial vessels around the world. The system's durable construction is the reason why it easily crosses over to both industries. The Coral Sea is also user friendly, featuring electronic monitoring, an LCD touchscreen, and the latest in watermaking technology.

*Please refer to Sea Recovery's commercial brochure for larger systems.

Coral Sea Key Features

- Large production capacities
- LCD touchscreen controls
- Lightweight aluminum design
- Safety sensors

Category | Mega Yachts (over 80 ft / 24 m)



Rugged and reliable operation

The Coral Sea uses industrial PLC that is specifically designed to perform heavy duty operations. All functions are displayed on to the LCD touch screen and/or remote, allowing users to monitor and control the system from any location on the boat. With the Coral Sea, boaters are able produce water at any time and any place.

Functions that ensure your safety

The Coral Sea is one of the easiest and safest industrial grade watermakers to own. It features automatic operation and safety sensors, that when triggered, automatically shut down the system. To ensure safe operation, the Coral Sea will shut down when:

- pre-filter maintenance is required
- operating pressure limit is exceeded

Photo courtesy of Westport Yachts

The Coral Sea's electronic meters also monitor important functions:

- fresh water flow
- brine discharge flow
- product water flow

Convenient configuration and design

Sea Recovery's membrane technology allows our watermakers to maximize the most space per gallon than any other systems on the market. The Coral Sea can produce up to 280 gallons an hour, and will fit in any large yacht with modular, horizontal, and vertical system configurations.

Specifications - Coral Sea

* For general system specifications, refer to page 22

Model #	Config.	Vessel Size	Production / hr	Production / 24hr	Modular weight	Vertical weight	Horizontal weight
2800	Ver. / Hor. /Mod.	3" Membrane	117 gal / 442 lit	2,800 gal / 10,599 lit	425 lbs / 193 kg	473 lbs / 215 kg	473 lbs / 215 kg
3600	Ver. / Hor. /Mod.	3" Membrane	150 gal / 568 lit	3,600 gal / 13,627 lit	435 lbs / 197 kg	485 lbs / 220 kg	485 lbs / 220 kg
4200	Ver. / Hor.	4" Membrane	175 gal / 662 lit	4,200 gal / 15,899 lit		700 lbs / 318 kg	750 lbs / 340 kg
5200	Ver. / Hor.	4" Membrane	217 gal / 820 lit	5,200 gal / 19,684 lit		750 lbs / 340 kg	800 lbs / 364 kg
6200	Hor.	4" Membrane	258 gal / 978 lit	6,200 gal / 23,469 lit			850 lbs / 386 kg
6800	Hor.	4" Membrane	283 gal / 1,073 lit	6,800 gal / 25,741 lit			900 lbs / 409 kg

System Model	Phase	Pump Motor	Voltage VAC	Hz	Normal Operating Amps	Start Up Current
Coral Sea 2800 & 3600	Three	Booster / High-Pressure	220 / 380	50	220 / 380 24 / 12	220 / 380 96 / 43
		Booster / High-Pressure	208 / 230 / 460	60	208 / 230 / 460 18 / 16 / 9	208 / 230 / 460 54 / 48 / 27
	Single	Booster / High-Pressure	220 / 230	.125	220 / 230 32 / 26.5	220 / 230 128 / 108
Coral Sea 4200, 5200, 6200 & 6800	Three	Booster / High-Pressure	220 / 380	50	220 / 380 36.6 / 21	220 / 380 146 / 84
		Booster / High-Pressure	208 / 230 / 460	60	208 / 230 / 460 32.5 / 29.2 / 14.6	208 / 230 / 460 130 / 116.8 / 58.4

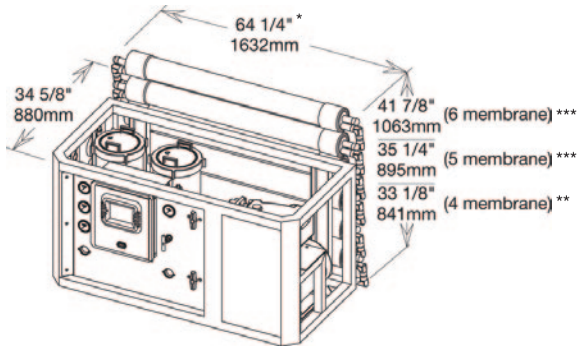
Amperage Rating of Circuit Breaker	Coral Sea 2800 & 3600	Coral Sea 2800 & 3600	Coral Sea 2800 & 3600	Coral Sea 4200 - 6800	Coral Sea 4200 - 6800
AC Voltage	220 / 230	220 / 380	208 / 230 / 460	220 / 380	208 / 230 / 460
Cycles	50 / 60	50	60	50	60
Phase	Single	Three	Three	Three	Three
Circuit Breaker Amp	50 / 40	40 / 25	40 / 25 / 20	60 / 35	60 / 40 / 30

External Installation Water Connections	Feed Inlet	Clean Inlet	Brine Discharge	Clean Return	Product
2800 & 3600 ANSI Threaded Flange	3/4"	3/4"	3/4"	3/4"	1/2"
4200, 5200, 6200 & 6800 ANSI Threaded Flange	1"	1"	1"	1"	1/2"

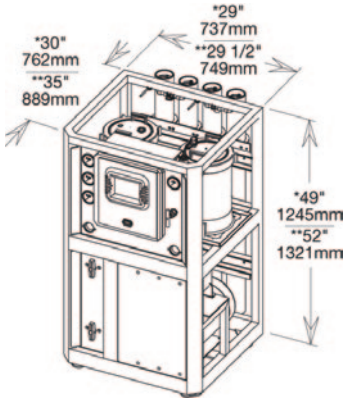
Dimensions

Coral Sea™

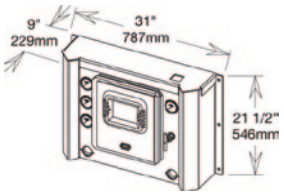
HORIZONTAL



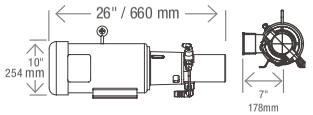
VERTICAL



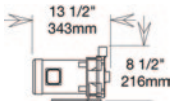
MODULAR



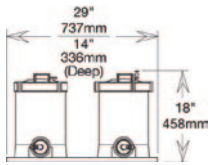
Control Panel



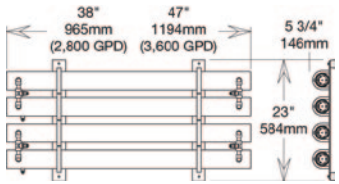
Motor Pump



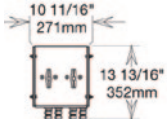
Booster Pump



Pre-filter & Oil/Water Separator



Membrane Vessel



Valve Panel

* 3" Membrane Vessels
2800 to 3600 GPD • 2800/3/H, 3600/3/H

** 4" Membrane Vessels
4200 to 6800 GPD • 4200/4/H, 5200/4/H, 6800/4/H

*** 5 and 6 piece membrane for 4" Coral Sea Horizontal
6200 and 6800 only

* 3" Membrane Vessels
2800 to 3600 GPD • 2800/3/V, 3600/3/V

** 4" Membrane Vessels
4200 to 5200 GPD • 4200/4/V, 5200/3/V

* 3" Membrane Vessels
2800 to 3600 GPD • 2800/3/M, 3600/3/M

Coral Sea Accessories

UV Sterilizer
The final process where 99.8% of all micro-organisms are sterilized.

Fresh Water Flush
Greatly prolongs the life of the membranes by rinsing them with fresh water.

Multi-Media Filter
Traps suspended solids larger than 30 microns to provide additional protection for the system's pre-filters, extending pre-filter element life.

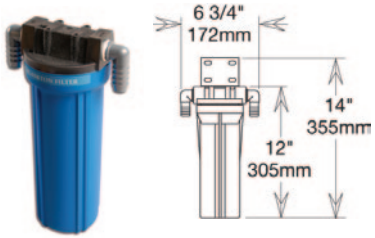
Remote Control
Touch Pad Unit that allows for remote operation and supervision of your watermaker.

pH Neutralizer
Provides pH neutralization of the reverse osmosis system product water.

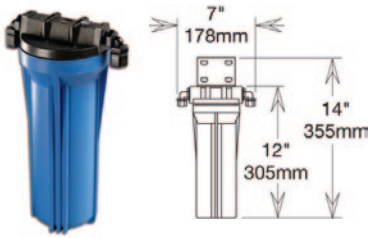
* Refer to your owner's manual or visit www.searecovery.com for dimensions

Marine Accessories

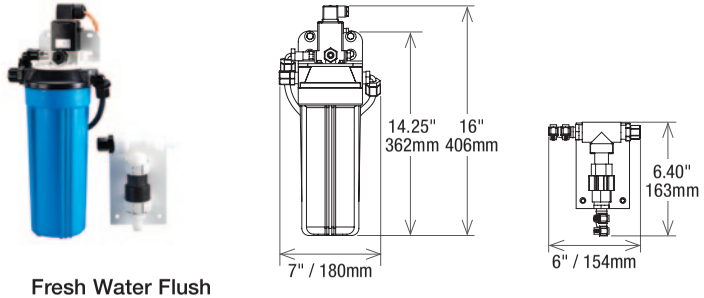
KEY: Aqua Matic | Aqua Whisper DX | Aqua Mini | Ultra Whisper



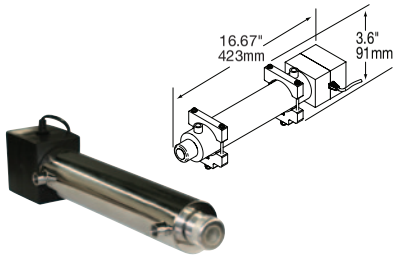
Plankton Filter
Filters most microorganisms from the feed water, prolonging pre-filter life.



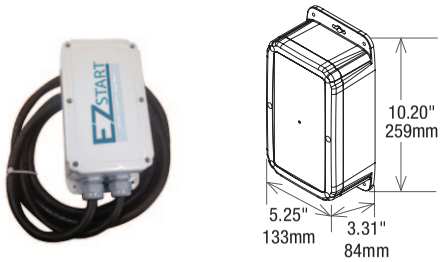
pH Neutralizer
Brings R.O. product water to a neutral pH.



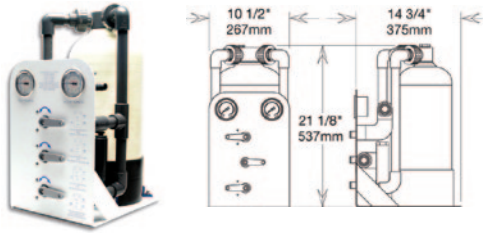
Fresh Water Flush
Prevents fouling of the membranes and pre-filters by automatically rinsing the system with fresh water every seven days.



UV Sterilizer
Eliminates 99.8% of bacteria, viruses and microorganisms from the feed water.

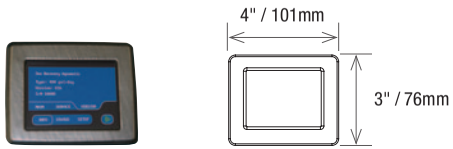


Soft Motor Start
Reduces system start up, up to 50%.
It is only available for single phase, 11-/220VAC, 50/60 Hz systems.



Multimedia Filter
Reduces pre-filter changes. Saves time and money. Recommended where feed water is high in suspended particles and biological growth (plankton).

Commercial Pre-filter & Oil / Water Separator
Recommended where feed water is high in suspended particles and biological growth (plankton).



Touch Screen Remote
Operate your system from any location.

Push Button Remote
Operate your system from any location with this push button remote.

Consumables and Spares

Use Sea Recovery's genuine replacement consumables and spares in order to provide your watermaker with the highest quality material. Ensure the quality of your fresh water production by replacing filter and membrane elements. Our cleaning and storage compounds help prolong your watermaker, and eliminate unnecessary buildup that can lead to extra maintenance. Contact your dealer to order spare replacements.

All Sea Recovery Watermakers - General Specifications

Product Water Production Stated Per Hour And Per Day Of Operation
Based in ±15% at 800 psi / 55 Bar, 77°F / 25°C, 35,000 PPM TDS

Salt Rejection (Chloride Ion)
99.4%

Product Water Temperature
Ambient to feed water temperature

Salinity Monitoring
Automatic computer controlled electronic monitoring with continuous readout in micromhos per cubic centimeter, are temperature compensated and of a fail-safe design.

Salinity Range Of Feed Water
Seawater up to 50,000 PPM TDS (NaCl) (typically seawater salinity is 35,000 PPM TDS NaCl)

Temperature Range
Max. 122°F / 50°C Min. 33° F / .5°C

Reverse Osmosis Membrane
Specifically selected high rejection / high yield aromatic tri-polyamid, thin film composite, spiral wound, single pass reverse osmosis membrane element.

Chlorine Tolerance
1000 hours @ 0.1 PPM, pH range 3-11

Feed Water Pressure
Min 6 PSI / .42 Kg/cm2 / 41.4kPa.
Max 40 PSI / 2.8 Kg/cm2 / 275.8 kPa

Operating Pressure
From seawater @ 35,000 PPM & 77°F
Nominal 800 pSI / 56.25 Kg/cm2 / 5516 kPa

For more information on systems and features, visit: **www.searecovery.com**

Sea Recovery

P.O. Box 5288 • Carson, California 90745-5288
Toll Free: (800) 354-2000 • Tel: (310) 637-3400 • Fax: (310) 637-3430
Email: srcsales@searecovery.com • Web: www.searecovery.com

THEUNISSEN
TECHNICAL TRADING BV

Theunissen Technical Trading BV | Postbus 70, 6580 AB Malden, Nederland
T +31(0)24 358 44 55 | F +31(0)24 358 21 66 | info@tttbv.nl | www.mct.nl

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PN: D1SMB • SRC022513

Industrial Water Systems

Products & Company Brochure

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Parker

ENGINEERING YOUR SUCCESS.

Parker Sea Recovery: Three Decades of Proven Performance

Since its inception more than 30 years ago, Parker Sea Recovery has evolved into the world's leading watermaker manufacturer. Today, it is recognized globally for providing outstanding reverse-osmosis products, service and support to a broad scope of markets that includes commercial marine; offshore; oil and gas; military; and land-based organizations.

Dedicated to developing the most advanced industrial watermakers in its markets, Parker Sea Recovery engineers watermakers that are easy to use and maintain, yet are robust enough to withstand even the most challenging environmental conditions. Parker Sea Recovery systems offer advanced features including full-color touch screens, oil-free pumps, intelligent software and standard MODBUS communications that allow customers full system control and monitoring from a remote location.

Each Parker Sea Recovery system is backed by a global network of agents, distributors and service dealers, all focused on exceeding customer expectations.

Service-focused global network

Parker Sea Recovery customers are supported by a global network of factory-trained technicians that stand ready to deliver outstanding maintenance and repair, wherever and whenever a need occurs. In addition, Parker Sea Recovery distribution and service partners have experienced, helicopter-certified technicians capable of handling repair and maintenance requests, no matter the location.

Expedited worldwide delivery

Parker Sea Recovery stocks and manages an impressive inventory of replacement parts and consumables that are all tested and ready to ship as needed to any part of the world.

Whether it's an emergency situation or a tight schedule, customers can count on Parker Sea Recovery to get the job done. With a LEAN manufacturing facility that is able to deliver on short notice, Parker Sea Recovery can provide most single systems less than a month from the date of purchase.

Intuitive technology

Nearly all Parker Sea Recovery systems are designed to be completely automated. Water production runs smoothly without the need of an operator, reducing overhead expense. Self-cleaning features and options minimize maintenance needs and prolong the life of the watermaker.

A Solid Past, An Exciting Future

A leader in reverse-osmosis technology joins a leader in innovative engineering

As part of Parker Hannifin – recognized worldwide for excellence in product engineering across a number of industries, including reverse-osmosis systems for clean-water applications – Sea Recovery brings its own legacy of reverse-osmosis engineering excellence to the Parker organization. Now known as Parker Sea Recovery, the division operates in 48 countries, providing customers with outstanding, situation-specific solutions to their unique watermaker needs.

Parker Headquarters,
Cleveland, Ohio, USA

Parker Sea Recovery products are tested & certified to comply with all pertinent environmental and global safety standards.

Parker Sea Recovery has been approved by commercial and industrial independent product safety standards including UL, IEC and CE. Parker Sea Recovery is also complies with ISO 9001:2008 and ISO 14001:2004 standards and meets the criteria for ABS Type Approval.

Parker Sea Recovery continuously improves its products as it maintains best-in-class business practices designed to safeguard the environment, including:

- Manufacturing and distribution efforts that not only reduce pollution but also result in continuous and measurable improvements to the environment;
- Production processes that are sensitive to the individual employee, the work environment and the surroundings;
- Production facilities that comply with ISO 14001 standard, local environmental and work environment legislation.

Conformance to Global Standards and Requirements

Parker Sea Recovery products and processes adhere to global standards and requirements such as ATEX, NORSOK, IEEE and NEC.

Strict compliance with these global standards means customers can have confidence in the functionality and integrity of every Parker Sea Recovery product and service they purchase. Not only does conformance ensure that all system components meet established criteria for reliability and safety, but it also bolsters the quality and effectiveness of the overall Parker Sea Recovery system.

ISO 14001:2004

ISO 9001:2008

The Parker Sea Recovery Pledge

Valued customers

Parker Sea Recovery endeavors to delight its customers by providing products, service and support that meet or exceed each client's unique situation. By partnering with customers, Parker Sea Recovery can better discover and respond to the circumstances of each order. Ultimately, this approach means Parker Sea Recovery delivers performance-specific systems that not only address job circumstances, but also help support real and measurable productivity and profitability.

Code of conduct and ethical business practices

Parker Sea Recovery's solid industry reputation and good name – as well as the company's history of success – rests on a foundation made strong by thousands of dedicated Parker employees. Each of these professionals takes seriously a commitment to act responsibly and with integrity throughout every aspect of their work, from design and engineering through sales and support.

Promoting a safe, productive workplace

Parker Sea Recovery is committed to providing a healthy and safe working environment for each of its employees. Further, employees are charged with following all health and safety rules that apply to their jobs, and for taking all reasonable precautions to protect themselves and co-workers from accidents, injuries or unsafe conditions. This pledge to health and safety includes encouraging employees to report any unsafe practices or conditions so that those can be expediently remedied.

The environment

A leader in environmental stewardship, Parker Sea Recovery continually improves its product design and its manufacturing processes to benefit customers, suppliers, employees and shareholders as well as its local and global communities. Constantly striving to comply fully with all applicable environmental laws, Parker Sea Recovery is dedicated to safeguarding the environment in and around plants and properties.

Supplier pre-qualification

Parker Sea Recovery understands the vital role that suppliers play in the satisfaction of its end users. As an extension of its own operations, Parker Sea Recovery charges its suppliers to provide materials, products and services that meet or exceed the requirements of contracts, applicable specifications and quality standards. In addition, Parker Sea Recovery requires that suppliers adhere to a strident code of conduct addressing ethical, legal, environmental and social responsibilities, further bolstering customer confidence in Parker Sea Recovery products and services.

Parker Sea Recovery System Benefits

With features such as intuitive controls, versatile design, automated self-maintenance and energy efficiency, Parker Sea Recovery's watermakers can accommodate a spectrum of conditions and circumstances, making them an ideal fit for nearly any industry need.

Modern user interfaces

Parker Sea Recovery user interfaces are certified to perform under even the most demanding conditions. They offer innovative industrial PLC controls featuring integrated performance-monitoring software. These features enable real-time remote monitoring of process instrumentation and system performance, as well as remote notification of detected system errors and detailed maintenance requests. Parker Sea Recovery systems are easy to operate with one-touch automatic start up and shutdown functions.

Parker Sea Recovery's watermaker systems offer versatility in design to accommodate a range of needs. Product lines include compact configurations with a minimal footprint as well as modular configurations with design flexibility to fit virtually any type of space restriction.

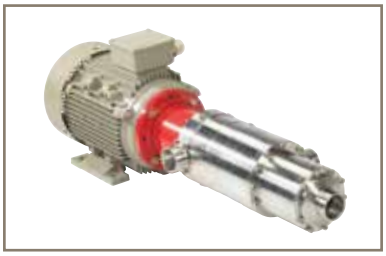
Energy savings

Energy savings and self maintenance are vital features of Parker Sea Recovery's line of watermakers. Automated fresh-water flushes prolong system life and maintain performance integrity, while water-lubricated pumps require little to no maintenance, reducing repair expense and down time. Parker Sea Recovery's largest production system, the Atlantic Sea, uses the I-Save energy recovery pump, which can curtail energy consumption by up to 49 percent. This energy savings helps reduce running costs – and the vessel's carbon footprint.

Engineered to withstand nearly any type of condition, Parker Sea Recovery's line of commercial systems are a recognized standard in the production of clean water.

Containerized solutions

Ideally suited for oil and gas production, mining, military applications and disaster relief situations as well as for a variety of land-based applications where pre-configured structures must comply with environmental and logistical conditions, Parker Sea Recovery containerized systems are pre-assembled and fully tested to ensure integrity and reliability. These turnkey products offer a plug-and-play solution for challenging circumstances.



Above: System control and color touch screen. Below: I-Save Energy Recovery Pump

Technical water capabilities

Parker Sea Recovery dual-pass watermakers are engineered to meet the most demanding requirements. Blending superior performance with full code compliance, Parker Sea Recovery's unique designs can provide potable and technical water from the same skid, minimizing the system footprint while improving power efficiency and lowering the total cost of ownership.

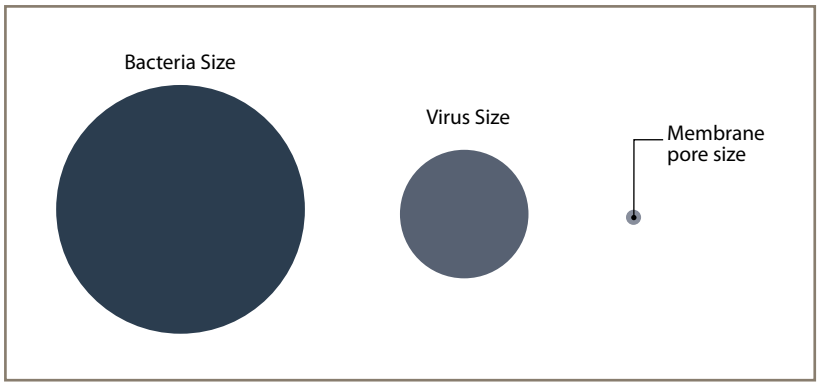
For applications where contaminants result in deposits, corrosion and carryover, Parker Sea Recovery offers reverse-osmosis systems featuring electrode-deionization mixed-bed ion exchange (MBDI) to product the highest quality demineralized water.

Parker Sea Recovery uses standard modules that can be custom engineered to deliver optimum performance and reliability.

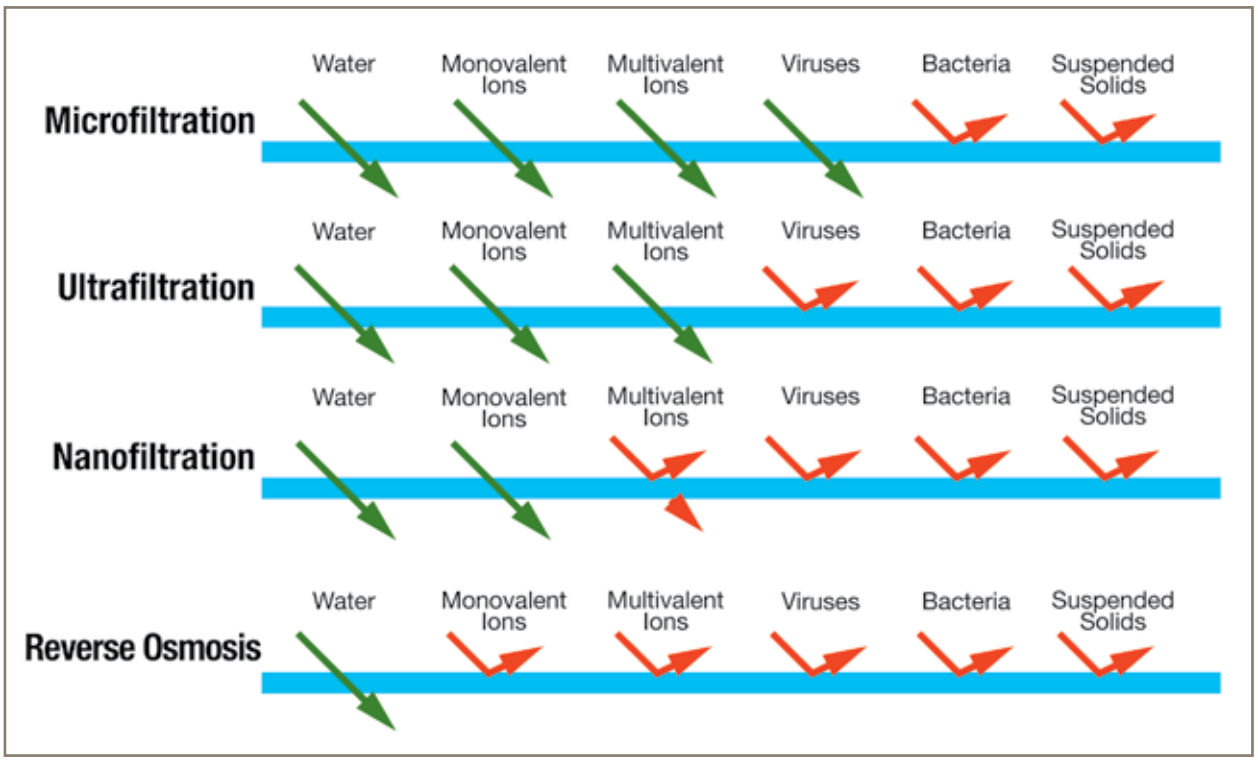
Reverse Osmosis Filtration: Advantages

Reverse osmosis effectively removes 99.98 percent of all impurities from water, and is much safer than evaporation in eliminating contaminants. Parker Sea Recovery water purification systems feature high-yield, low-tolerance membranes with pores that are approximately 0.0001 micron. These membranes successfully eliminate the harmful effects of lead, heavy metals, chlorine, chemical contaminants, pesticides, pathogens, bacteria, viruses and radioactive materials.

Integrated pre- and post-filtration processes, when coupled with the option to disinfect water using a UV Disinfection System, makes Parker Sea Recovery system water the safest water produced.



Comparison between bacteria and virus and Parker Sea Recovery's membrane pore size.



Membrane Process Characteristics

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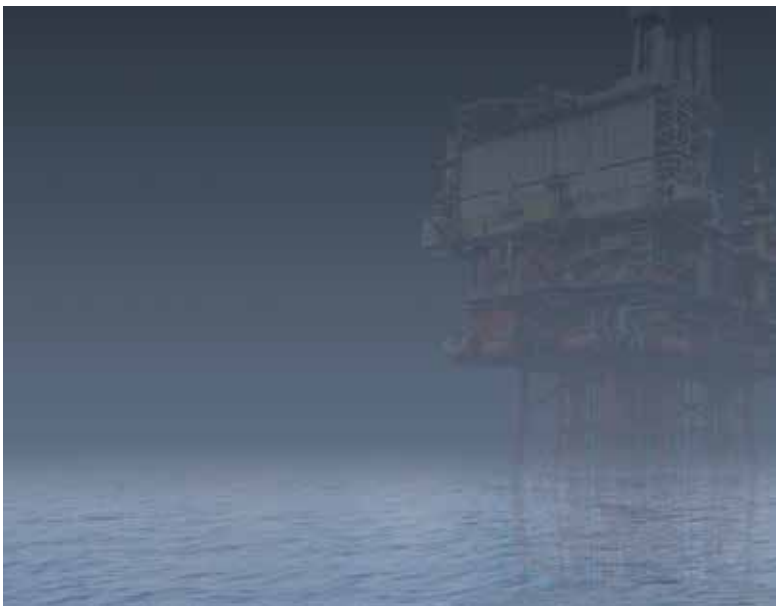


Industrial Series Controller

Three configurations for a variety of needs

The Parker Sea Recovery industrial controller is an innovative solution for beginning and experienced water-system operators.

Basic semi-automatic control system

Prevent potential problems with performance monitoring that automatically shuts down when the product tank is full. The touch-screen interface is able to display multiple warning messages that aid in basic maintenance, extending the life of the water system.

Digital control system

A multi-colored touch-screen interface displays maintenance alerts and provides an on-screen help guide. The system also performs automatic start-ups and shutdowns depending on the level of water in the product tank.

Fully automatic control system

This truly automated configuration practically eliminates the need for an operator. Its MODBUS communications package integrates with hosted control systems that allow remote monitoring, ensuring smooth operation.

Basic Control System

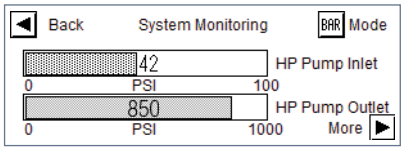
Digital Control System

Interior door / electrical

Controller Features

Basic controller standard features

- 101.6mm touch screen interface
- Single point tank level control
- Product salinity monitoring
- Multiple warning messages
- Performance monitoring and alerts
- Automatic start up / shut down function
- Optional basic MODBUS communication package

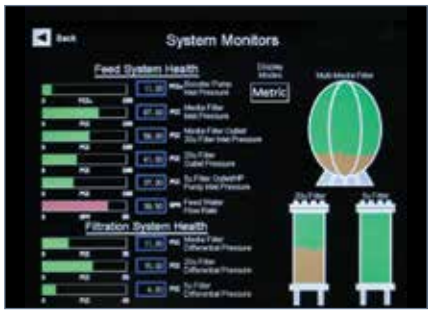


(System pressure monitoring screen)

Digital controller standard features

Includes all basic control standard features plus:

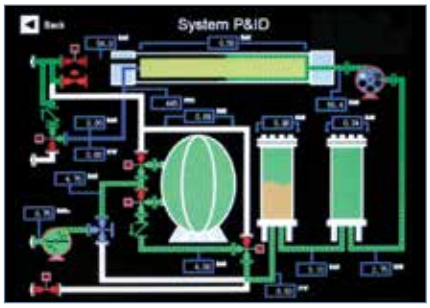
- 203.2mm 65K color touch screen interface
- Digital display of all system pressures, flow rates automated valve positions, and filtration system blockages
- Maintenance detection and interactive on-screen help
- Multi-point tank level control
- Chemical injection controls
- Optional multi media filter automation
- Optional full MODBUS communication package



Fully automatic controller standard features

Includes Basic and Digital control standard features plus:

- Automatic fresh water flush
- Automatic media filter backwash
- Automatic pre and post-treatment
- Automatic system pressure regulation
- Automatic back pressure regulation
- Filter element blockage prediction
- Full MODBUS communications package



Available Voltages

Phase	Three	Three	Three	Three	Three	Three
Hz	50	50	50	60	60	60
VAC	220	380	440	208	230	460
FLA	35	35	35	30	30	30
Circuit Breaker Size	125 Amperes	100 Amperes	100 Amperes	125 Amperes	125 Amperes	100 Amperes

Java Sea Series

Large capacity production, small footprint

Parker Sea Recovery's revolutionary Java Sea is engineered to be easier to use and more reliable than conventional watermakers. Featuring the latest technology, the Java Sea is able to regulate and monitor system functions without the need of an operator. With one touch, the Java Sea will start and finish water production automatically.

Automated functions

Standard watermakers require pressure adjustments for water conditions and to produce fresh water - a process that can be very time consuming. Parker Sea Recovery solves this problem by incorporating an automatic pressure regulating system into the Java Sea, allowing the watermaker to balance pressure levels automatically. This feature maximizes operator comfort and convenience.

Longer lifespan, minimal maintenance

The Java Sea's features allow operators to extend its service life. The automatic fresh-water flush and LCD monitoring system optimizes pre-filter and membrane performance. This system will flush every seven days, whether the watermaker is producing water or on standby.

Product features

- **Maximum production: 3.5 to 12 cubic meters per day (24 hours)**
- **Automatic pressure regulating system**
- **High-efficiency booster pump for extended pre-filter life**
- **Automatic fresh-water flush**
- **One-touch operation**
- **Intuitive, full-color LCD touch screen interface**

Java Sea System Specifications

Model	Vessel Size	Membrane Config.	Production Per Hour	Production Per 24 Hrs.	Weight
3.5m³	76.2mm	Single	0.14 m³	3.5 m³	195 kg
7m³	76.2mm	Single	0.29 m³	7 m³	195 kg
10m³	76.2mm	Single	0.41 m³	10 m³	195 kg
12m³	76.2mm	Single	0.5 m³	12 m³	195 kg

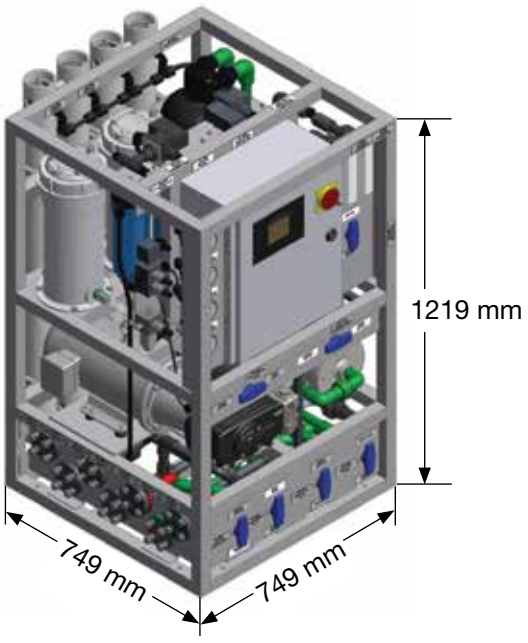
Electrical Requirements

Power	HP Pump	Booster Pump	FLA
220 / 50 Hz / 1 PH	3.7 KW	.75 KW	39
230 / 50 Hz / 1 PH	3.7 KW	.75 KW	32
220 / 50 Hz / 3 PH	3.7 KW	.75 KW	29
380 / 50 Hz / 3 PH	3.7 KW	.75 KW	15

Java Sea Dimensions

Front View

Right View



Isometric View

Coral Sea Series

State-of-the-art versatile design

Operators will get more out of the new Coral Sea Series of watermakers. Designed in three different configurations, the Coral Sea Series offers flexible installation options, a choice of basic or digital controller configurations, and the reliability, safety and quality that could only be delivered by Parker Sea Recovery

Vertical, horizontal or modular configurations

The Coral Sea Series is available in three different design configurations that accommodate any space. The vertical and horizontal compact aluminum frames are lightweight and corrosion resistant. The modular design allows individual component mounting, perfect for retrofits or new builds.

Industrial PLC control

Integrated performance monitoring and optimization software allows the Coral Sea to display local warnings of potential problems before they become significant performance issues. A one-touch automatic start up/ shutdown function lets operators walk away knowing the system will continue to run at peak efficiency.

Product features

- **Small-footprint, large-volume production, from 10.59 to 25.73 cubic meters per day**
- **Radial axial pump does not require oil change**
- **Basic and digital controller options**
- **Industrial PLC control**
- **User-friendly color touchscreen**
- **Optional ethernet/MODBUS communication**

Coral Sea System Specifications

Model	No. of Vessels	Vessel Size	Production / Hour	Production / 24 Hrs.	Weight
2800	4	76.2mm	442 lit	10.59 m^3	445 kg
3600	4	76.2mm	568 lit	13.62 m^3	445 kg
4200	3	101.6mm	662 lit	15.89 m^3	445 kg
5200	4	101.6mm	820 lit	19.68 m^3	454 kg
6200	5	101.6mm	978 lit	23.46 m^3	463 kg
6800	6	101.6mm	1,073 lit	25.73 m^3	477 kg

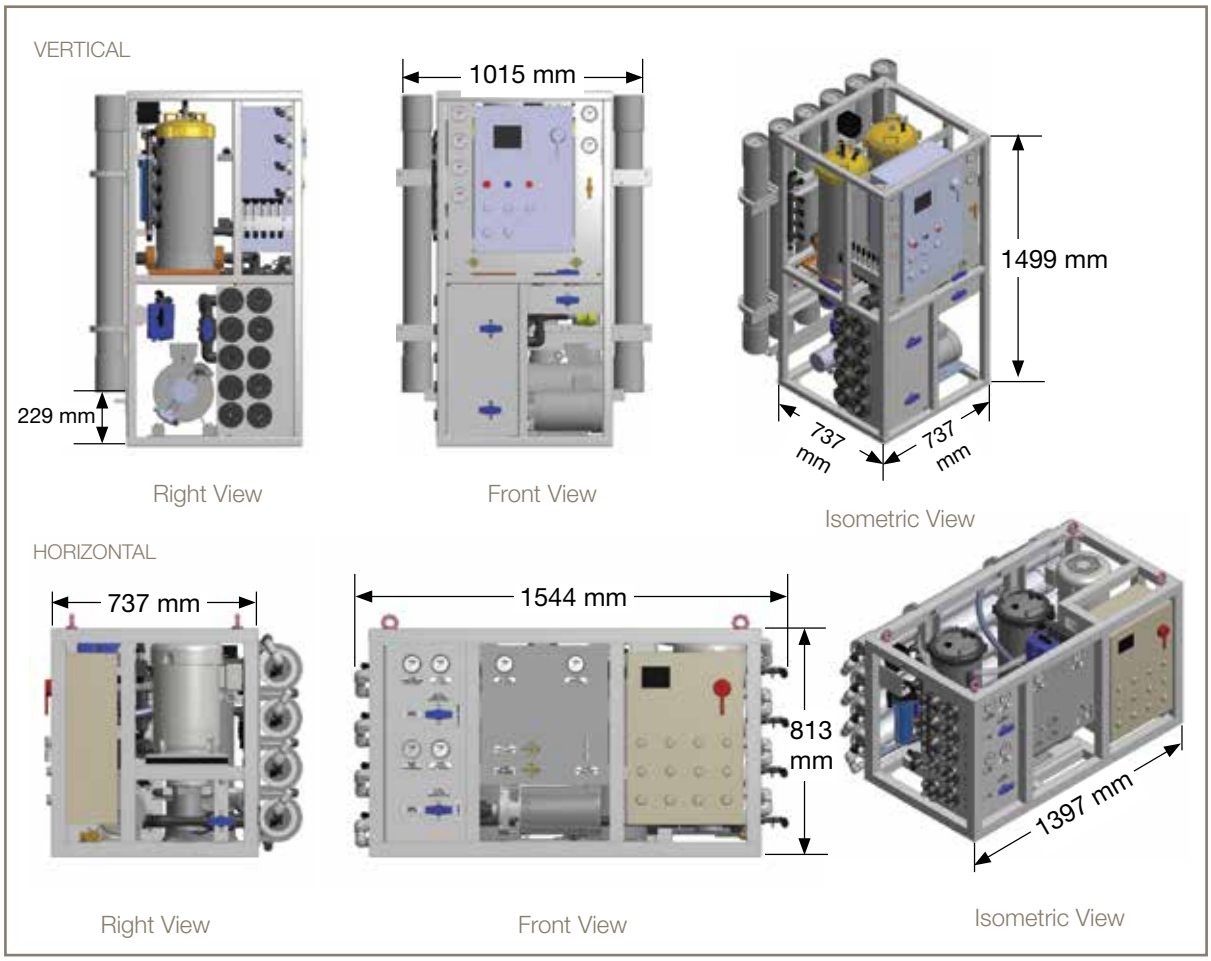
*All models avalible in Vertical, Horizontal, or Modular configurations

Electrical Requirements

Model 2800 - 3600			
Power	**HP Pump**	**Booster**	**FLA**
220 / 50 Hz / 1 PH	5.5 KW	1.5 KW	48
220 / 50 Hz / 3 PH	5.5 KW	1.5 KW	36
380 / 50 Hz / 3 PH	5.5 KW	1.5 KW	17

Model 4200 - 6800			
Power	**HP Pump**	**Booster**	**FLA**
230 / 60 Hz / 1 PH	N/A	N/A	N/A
208 / 60 Hz / 3 PH	7.5 KW	1.5 KW	39
230 / 60 Hz / 3 PH	7.5 KW	1.5 KW	21

Coral Sea Dimensions



Tasman Sea T-2

Reliable service, new modern controls

The Tasman Sea T-2 offers semi-automatic to fully automatic configurations - all complete with touch-screen controls and optional Ethernet and MODBUS remote communication. The Tasman Sea T-2 requires minimal maintenance and is backed by a global team of factory-trained technicians. Parker Sea Recovery continues the tradition of using high-quality parts that have been tested and proven to exceed industry safety standards, giving customers the confidence of choosing the world's most trusted watermaker.

Choose the level of control

Choose from basic, semi-automatic or fully automatic control options. The basic control option features a performance- and error-detection function that displays multiple different user warning messages, helping to prevent major maintenance issues.

Parker Sea Recovery's integrated performance monitoring and optimization software allows the Tasman Sea to display local warnings of potential problems before they become significant performance issues. Its one-touch automatic start up/shutdown function lets operators walk away knowing the system will continue to run at peak efficiency.

Product features

- **Small footprint, large volume production, from 25 to 90 cubic meters per day**
- **Radial axial pump does not require oil change**
- **Available with basic, semi-automatic and automatic controller options**
- **Industrial PLC control User-friendly color touchscreen**
- **Optional ethernet/MODBUS communication**

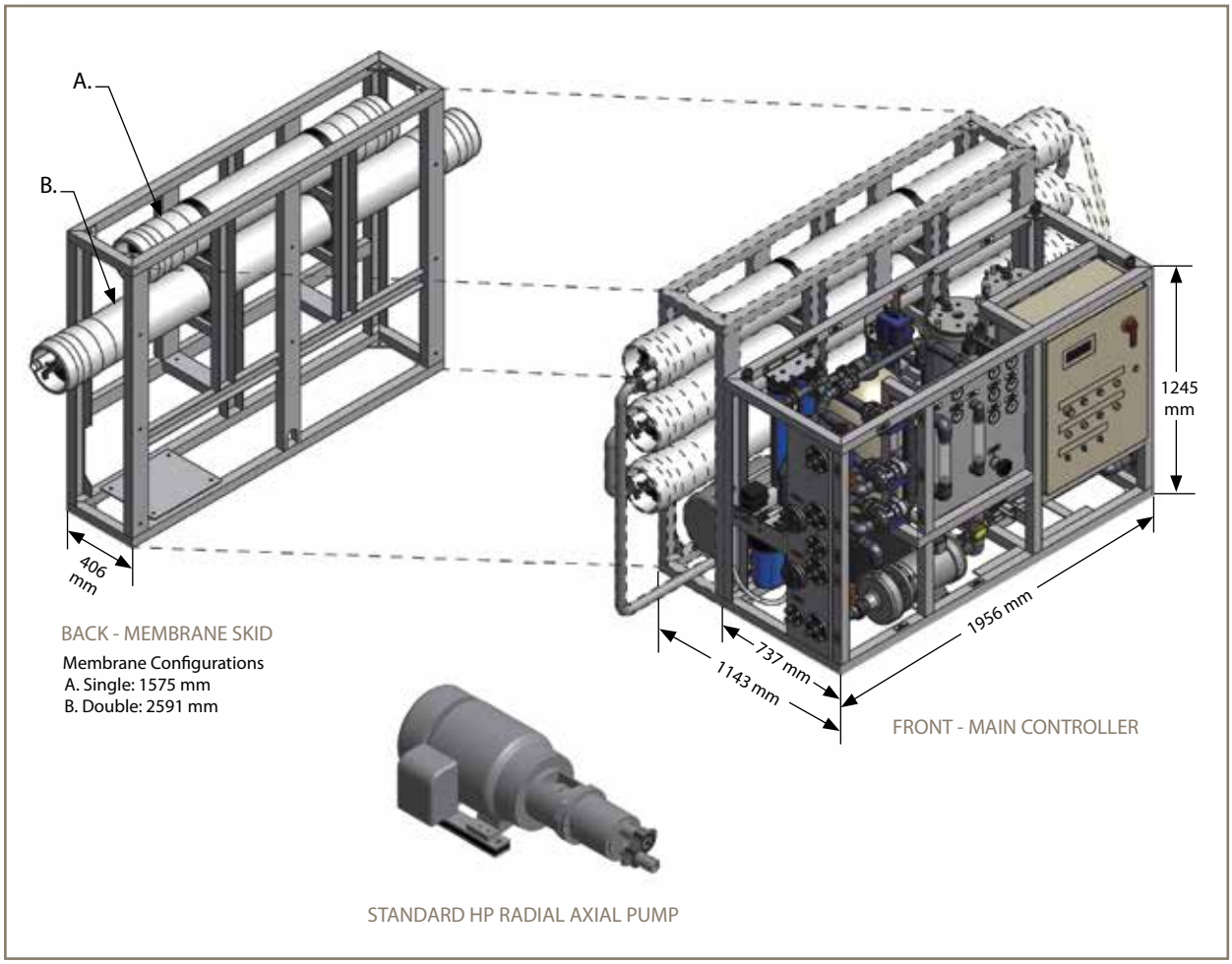
Tasman Sea System Specifications

Model	No. of Vessels	Membrane Configuration	Production / Hour	Production / 24 Hrs.	Weight
25m³	1	Single	1.05 m³	25 m³	861 kg
45m³	2	Single	1.87 m³	45 m³	953 kg
45m³	1	Double	1.87 m³	45 m³	953 kg
60m³	3	Single	2.49 m³	60 m³	998 kg
72m³	4	Single	2.99 m³	72 m³	1,089 kg
72m³	2	Double	2.99 m³	72 m³	1,089 kg
90m³	6	Single	3.74 m³	90 m³	1,089 kg
90m³	3	Double	3.74 m³	90 m³	1,089 kg

Electrical Requirements

Systems: 25m³ - 90m³			
Power	**HP Pump**	**Booster Pump**	**FLA**
220 / 50 Hz / 1 PH	18.5 KW	5.5 KW	90
380 / 50 Hz / 3 PH	18.5 KW	5.5 KW	52
440 / 50 Hz / 3 PH	18.5 KW	5.5 KW	47

Tasman Sea Dimensions



BACK - MEMBRANE SKID

Membrane Configurations
A. Single: 1575 mm
B. Double: 2591 mm

FRONT - MAIN CONTROLLER

STANDARD HP RADIAL AXIAL PUMP

North Sea Modular

Easy installation, large production, complete control

In the effort to accommodate the needs of the retrofit market, Parker Sea Recovery has created the North Sea Modular Series. The North Sea Modular Series provides a reliable source of fresh water at large production capacities, with minimal space and maintenance requirements. Its configuration provides maximum utility of space while incorporating ease of control and safety standards.

Modular configuration - perfect for retrofit

The North Sea Modular Series is built to fit through waterproof doors and hatches. This conserves the vessel's original form by virtually eliminating the need for cutting - saving time and money.

Perfect for retrofit or new builds, the North Sea Modular's separate component installation feature accommodates space restrictions. Its robust aluminum frame allows access from any angle for easy maintenance.

Product features

- **Small footprint, large volume production, from 45 to 200 cubic meters per day**
- **Radial axial pump does not require oil change**
- **Available with basic, semi-automatic and automatic controller options**
- **Industrial PLC control**
- **User-friendly color touchscreen**
- **Optional ethernet/MODBUS communication**

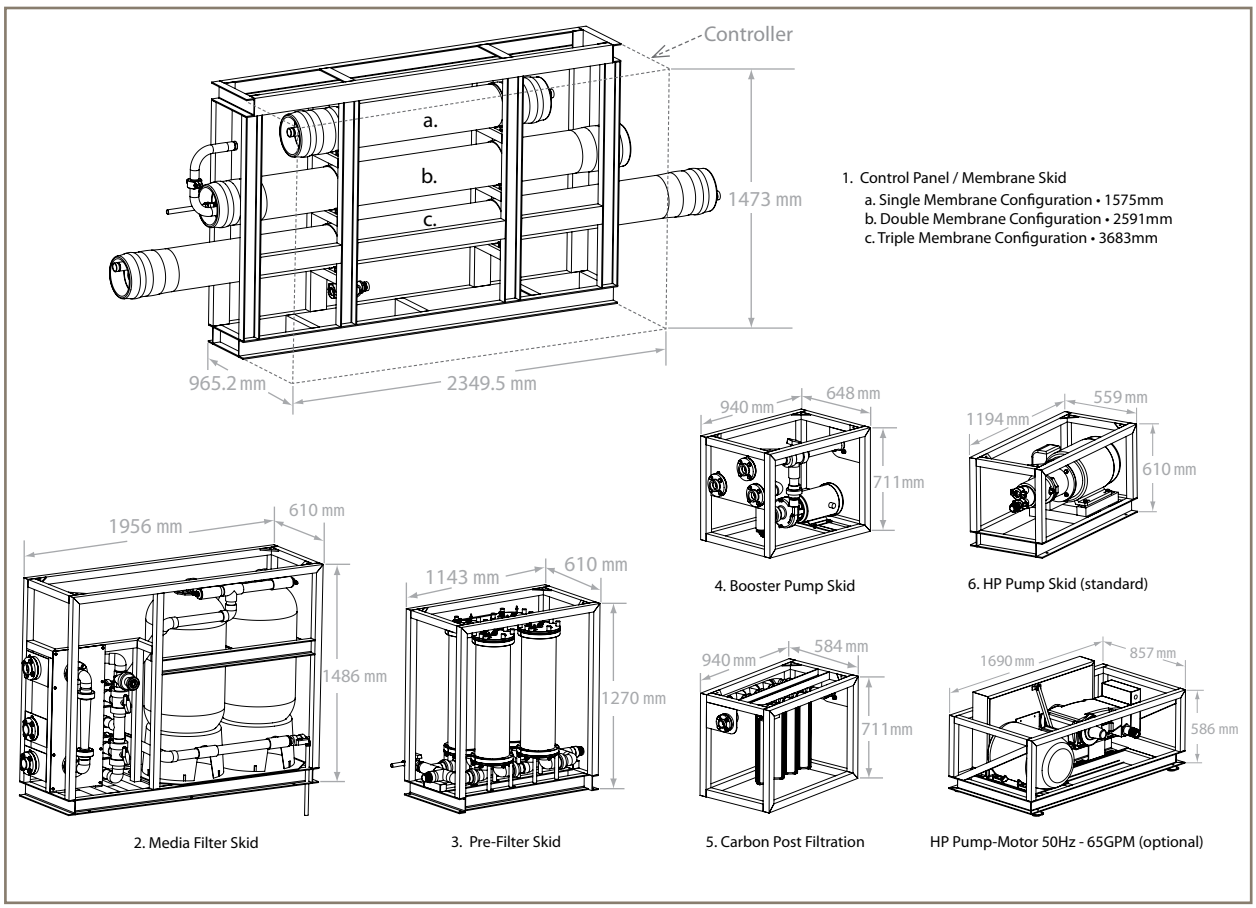
North Sea Modular System Specifications

Model	No. of Vessels	Membrane Configuration	Production / Hour	Production / 24 Hrs.	Weight
45m³	1	Double	1.87 m³	45 m³	1,679 kg
85m³	2	Double	3.53 m³	85 m³	1,815 kg
105m³	3	Double	4.37 m³	105 m³	1,951 kg
145m³	4	Double	6.03 m³	145 m³	2,177 kg
175m³	6	Double	7.29 m³	175 m³	2,178 kg
175m³	4	Triple	7.29 m³	175 m³	2,450 kg
200m³	6	Triple	8.33 m³	200 m³	2,858 kg

Electrical Requirements

System	Data	220/50Hz/3PH	380/50Hz/3PH	440/50Hz/3PH
45m³	**Full Horse Power - HP Pump**	18.5 KW	18.5 KW	18.5 KW
	Full Horse Power - Booster	5.5 KW	5.5 KW	5.5 KW
	FLA	93	54	47
85m³ • 105 m³	**Full Horse Power - HP Pump**	18.5 KW	18.5 KW	18.5 KW
	Full Horse Power - Booster	5.5 KW	5.5 KW	5.5 KW
	FLA	93	54	47
145m³ - 200m³	**Full Horse Power - HP Pump**	37 KW	37 KW	37 KW
	Full Horse Power - Booster	5.5 KW	5.5 KW	5.5 KW
	FLA	135	79	68

North Sea Modular Dimensions



North Sea N-2 Series

The reliable choice for unlimited fresh water production

The North Sea N-2 Series is the top choice of the offshore and commercial marine industry. It has the capacity to provide up to 200 metric tons of fresh water per day. With minimal space and maintenance requirements, the new North Sea N-2 has multiple controller configuration options, and provides maximum utility of space while incorporating ease of control and safety standards.

Choose the level of control

Choose from basic, semi-automatic, or fully automatic control options. The basic control option features a performance- and error-detection function that displays multiple user warning messages to help prevent major maintenance issues.

The North Sea N-2 high pressure pump is the most compact and efficient pump on the market. This HP pump has flexible installation options that don't require frames, belt drives or gear boxes. The HP pump is water lubricated, corrosion resistant (Super Duplex), and completely eliminates membrane fouling caused by oil leaks. This innovative HP pump provides constant flow regardless of variations in pressure while delivering a total efficiency of up to 97 percent.

Product features

- **Produces 45 to 200 cubic meters per day**
- **Radial axial pump does not require oil change**
- **Available with basic, semi-automatic and automatic controller options**
- **Industrial PLC control**
- **User-friendly color touchscreen**
- **Optional ethernet/MODBUS communication**

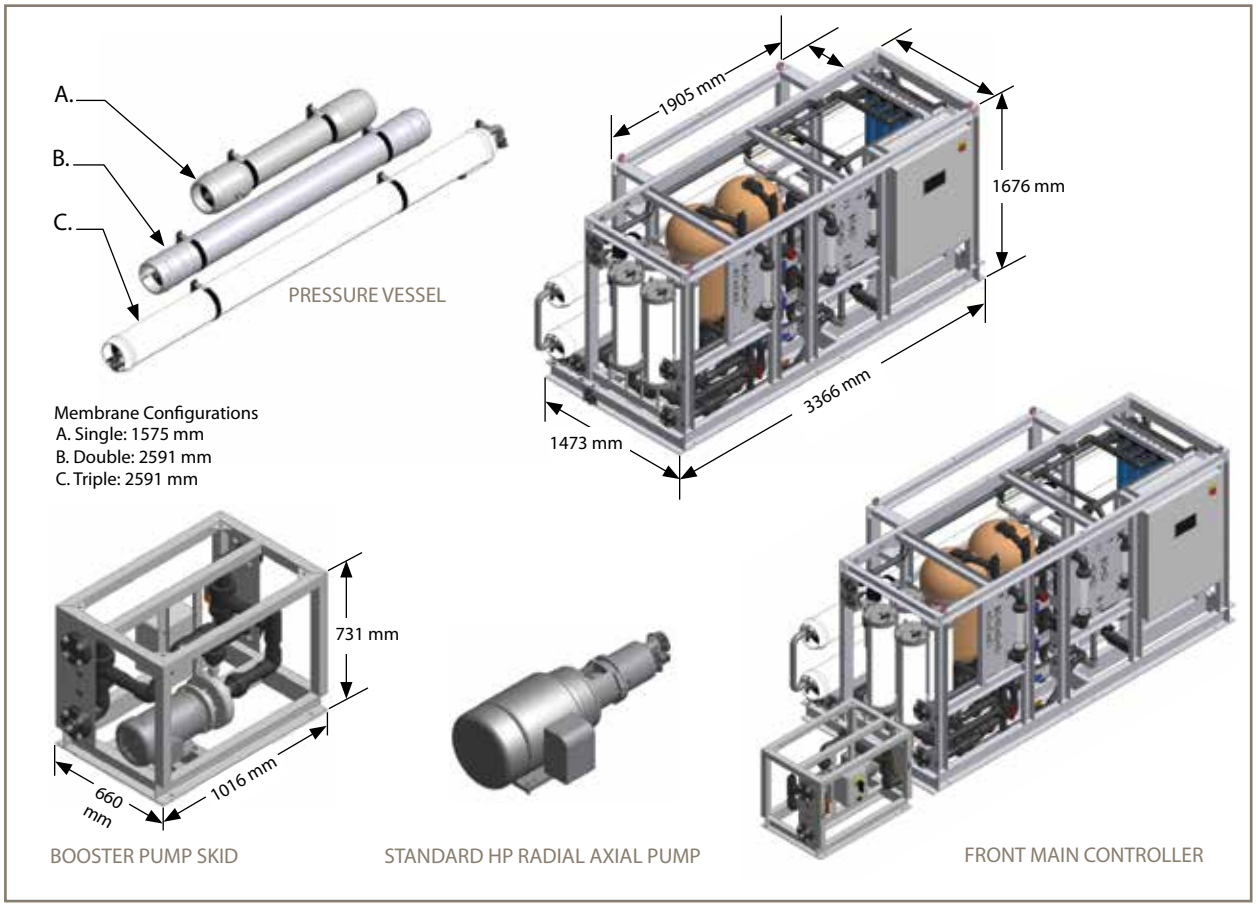
North Sea N-2 System Specifications

Model	No. of Vessels	Membrane Configuration	Production / Hour	Production / 24 Hrs.	Weight
45m³	1	Double	1.87 m³	45 m³	1,679 kg
85m³	2	Double	3.53 m³	85 m³	1,815 kg
105m³	3	Double	4.37 m³	105 m³	1,951 kg
145m³	4	Double	6.03 m³	145 m³	2,177 kg
175m³	6	Double	7.29 m³	175 m³	2,178 kg
175m³	4	Triple	7.29 m³	175 m³	2,450 kg
200m³	6	Triple	8.33 m³	200 m³	2,858 kg

Electrical Requirements

System	Data	220/50Hz/3PH	380/50Hz/3PH	440/50Hz/3PH
45m³	**Full Horse Power - HP Pump**	18.5 KW	18.5 KW	18.5 KW
	Full Horse Power - Booster	5.5 KW	5.5 KW	5.5 KW
	FLA	93	54	47
85m³ • 105 m³	**Full Horse Power - HP Pump**	18.5 KW	18.5 KW	18.5 KW
	Full Horse Power - Booster	5.5 KW	5.5 KW	5.5 KW
	FLA	93	54	47
145m³ - 200m³	**Full Horse Power - HP Pump**	37 KW	37 KW	37 KW
	Full Horse Power - Booster	5.5 KW	5.5 KW	5.5 KW
	FLA	135	79	68

North Sea N-2 Dimensions



Atlantic Sea Series

Safe, reliable and supported anywhere in the world

The Atlantic Sea is Parker Sea Recovery's largest series of SWRO systems. Its features include a small footprint and fully automatic controls with the capability to produce up to 1,200 metric tons per day. The Atlantic Sea also boasts the lowest consumption of energy per ton of water produced. This system is perfect for those who require an unlimited amount of fresh water anywhere at anytime.

Efficiently productive

From its fully automated controller to its low maintenance HP pump and its I-Save energy recovery system, the Atlantic Sea flawlessly delivers high production capacities. Its automated controller is easy to operate and allows real-time remote monitoring of essential system functions.

The Atlantic Sea's high pressure pump is the most compact and efficient pump on the market. Its flexible installation doesn't require frames, belt drives or gear boxes. The HP pump is corrosion resistant and completely eliminates oil leaks and membrane fouling caused by oil leaks.

The Atlantic Sea is capable of instant-on start-up that allows the system to produce usable, fresh water within minutes.

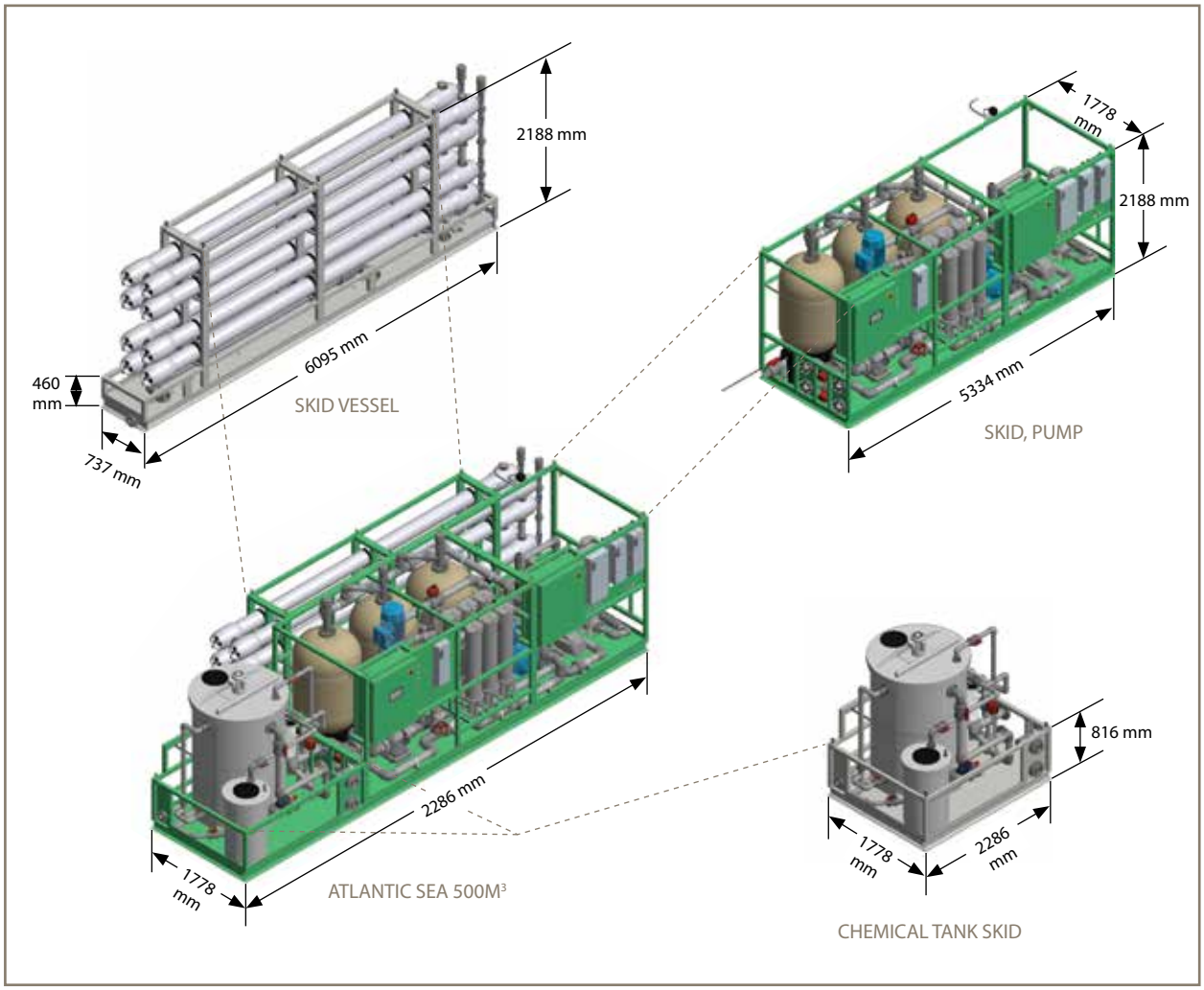
Product features

- **Mega production - up to 1,200 metric tons per day**
- **Digital control with standard MODBUS**
- **Low-maintenance HP pump**
- **I-Save energy recovery system**
- **One-touch start up with instant-on feature**

Atlantic Sea System Specifications

System Production	Energy Recovery Available / Type	No. of Membranes	Production / Hour	Production / 24 Hrs.	Estimated Energy Savings Per M³ of Water Produced
250 M³	Yes / I-Save	12	10,417 lit	250,000 lit	40%
300 M³	Yes / I-Save	16	12,500 lit	300,000 lit	40%
400 M³	Yes / I-Save	20	16,667 lit	400,000 lit	44%
500 M³	Yes / I-Save	30	20,833 lit	500,000 lit	44%
600 M³	Yes / I-Save	50	25,000 lit	600,000 lit	44%
750 M³	Yes / I-Save	60	31,250 lit	750,000 lit	44%
1000 M³	Yes / I-Save	100	41,667 lit	1,000,000 lit	48%
1200 M³	Yes / I-Save	120	50,000 lit	1,200,000 lit	49%

Atlantic Sea Dimensions



Customized Systems

Custom designed to meet your needs

Parker Sea Recovery's advanced water systems are capable of being customized to the special needs of individual customers. The company works closely with customers to meet all specifications, whether it's for customized parts, production capacities or a complete customized re-design. Parker Sea Recovery's customized reverse-osmosis water systems provide the same advanced technologies as standard systems and are delivered and commissioned to any location in the world. A typical delivery time for customized systems ranges from 10 to 12 weeks.

Design

After receiving specifications, Parker Sea Recovery's engineers and system designers create a system that is designed to meet or exceed client specifications. Once the final design is approved by the customer, the dedicated Parker Sea Recovery team of specialists begins building a system that will look and function to agreed standards.

Build

Customized systems are given as much attention as our standard systems. Always at the lead in industry standards, Parker Sea Recovery water systems are built with quality components and materials, incorporating advanced electronics and modern user interfaces that allow ease of operation and maintenance. The Parker Sea Recovery development process also includes extensive testing to the system will run flawlessly and adhere to safety standards once in full operation.

Delivery and Commissioning

Parker Sea Recovery's local sales representatives work closely with customers to ensure their system is delivered and commissioned promptly and properly. With service specialists located in every part of the world, Parker Sea Recovery has local assistance always at the ready. Typically a completely re-designed custom system can be delivered in about 12 weeks.

Accessories and Consumables

Fresh Water Flush
Prolong membrane life at the touch of a button.

pH Neutralizer
Restore product water to a neutral state or level.

Hydrocyclone Separator
Has no filters or moving parts and extends the life of pre-filters and elements.

Chemical Cleaning Tank
Restore membrane productivity and reduce bio-fouling.

UV Sterilizer
Eliminates 99.8 percent of bacteria and viruses from the feed water.

Chemical Injection
Control the chemistry of the feed water to reduce and prevent fouling..

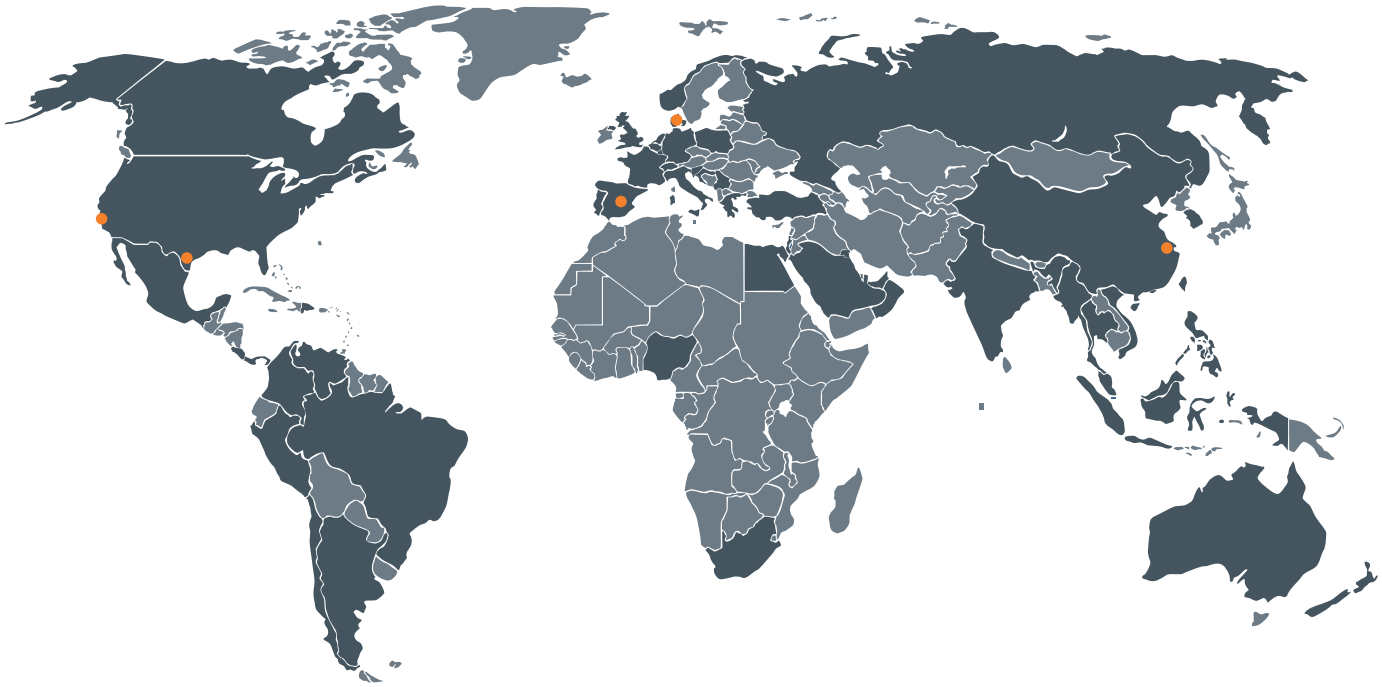
Media Filter
Traps suspended solids larger than 30 microns. Helps extend pre-filter element life.

Consumables and Spares

Only Parker Sea Recovery's genuine replacement consumables and spares will ensure the quality and function of each Parker Sea Recovery watermaker system. Cleaning and storage compounds help prolong the life of the watermaker, and eliminate unnecessary buildup that can lead to extra maintenance. Contact a Parker Sea Recovery dealer to order spare replacements.

To find a dealer or for service and parts, contact Parker Sea Recovery
Tel: 1 (800) 354-2000 | Email: sales@searecovery.com

Worldwide Agents and Dealers



- Local Factory Sales Offices
- Agents and Distributors

Visit our website to find a dealer, agent or service technician near you.

www.searecovery.com

Authorized Representative:

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T +31(0)24 358 44 55 | F +31(0)24 358 21 66 | info@tttbv.nl | www.tttbv.nl

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Parker Hannifin Corporation
Sea Recovery
2630 E. El Presidio St.
Carson, CA 90810
Tel: 1 310 637 3400
Fax: 1 310 637 3430
srcsales@searecovery.com

Referencelist Sea Recovery

YARD	HULL NO.	VESSEL TYPE	VESSEL NAME	OWNER	EQUIPMENT	CAPACITY
Altena Marine	Vryburg	Yacht	Vryburg	Private owner	Ultra Whisper 600	2,28m3/day
Balk Shipyard	unknown	Mega Yacht	Gisele	unknown	Aqua Matic 900-2 (2x)	2 x 3,407 m3/day
Beliard-Murdoch	2050	Guard Vessel	Emanuel	Van Laar Maritime B.V.	Aqua Matic 450-1	1,703m3/day
Bijlholt Shipbuilding B.V.	1798	Guard vessel	Fenny	Van Laar Maritime B.V.	Aqua Matic 450-1	1,703m3/day
Brovo Shipyard	unknown	Yacht Grand Banks	Libertas	Private owner	Aqua Matic 1800-2	6,814m3/day
Damen Shipyards	unknown	Fast Crew Supplier	unknown	unknown	Aqua Whisper DX 1800-2	6,814m3/day
Damen Shipyards	unknown	Fast Crew Supplier	unknown	unknown	Aqua Whisper DX 1800-2	6,814m3/day
Damen Shipyards	unknown	Fast Crew Supplier	unknown	unknown	Aqua Whisper DX 1800-2	6,814m3/day
Damen Shipyards	unknown	Fast Crew Supplier	unknown	unknown	Aqua Whisper DX 1800-2	6,814m3/day
Damen Shipyards	549896	Fast Crew Supplier	Rolly Gray (P424)	Royal Bahamas Defence Force	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549895	Fast Crew Supplier	Leon Livingstone Smith (P423)	Royal Bahamas Defence Force	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549870	Fast Crew Supplier	Durward Knowles (P422)	Royal Bahamas Defence Force	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549868	Stan Patrol 4207	Arthur Dion Hanna (P241)	Royal Bahamas Defence Force	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549410	Fast Crew Supplier	Isla Baltra	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549409	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549408	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549407	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549406	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549405	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549404	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549403	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549402	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549204	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549203	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65 m3/day
Damen Shipyards	549202	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	549201	Fast Crew Supplier	Lignum Vitae (P301)	Royal Bahamas Defence Force	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	547257	Fast Crew Supplier	Ocean Warrior	Sea Shepherd	Aqua Matic 450-1	1,703 m3/day
Damen Shipyards	547252	FCS 5009	Famar Intervention	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	547245	Fast Crew Supplier	unknown	unknown	Aqua Matic 900-2	3,407m3/day
Damen Shipyards	547244	Fast Crew Supplier	unknown	unknown	Aqua Matic 900-2	3,407m3/day
Damen Shipyards	547243	Fast Crew Supplier	unknown	unknown	Aqua Matic 900-2	3,407m3/day
Damen Shipyards	547242	Fast Crew Supplier	unknown	unknown	Aqua Matic 900-2	3,407m3/day
Damen Shipyards	547240	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day

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Referencelist Sea Recovery

YARD	HULL NO.	VESSEL TYPE	VESSEL NAME	OWNER	EQUIPMENT	CAPACITY
Damen Shipyards	547234	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	547213	Fast Crew Supplier	SVS Cochrane	Kenia Marine Contractors	Aqua Whisper DX 700-1	2,65m3/day
Damen Shipyards	544858	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544857	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544852	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544851	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544850	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544848	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544847	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544844	Fast Crew Supplier	TMC Hawk	Tamrose Ventures LTD	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544843	Fast Crew Supplier	TMC Angel	Tamrose Ventures LTD	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544830	Fast Crew Supplier	unknown	Nigerian Government	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544829	Fast Crew Supplier	Barak Defender	C&I Leasing PLC	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544828	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544827	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544823	Fast Crew Supplier	unknown	Vietnam	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544822	Fast Crew Supplier	unknown	unknown	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544819	Fast Crew Supplier	Defender I	Nigerian Government	Aqua Matic 700-1	2,65m3/day
Damen Shipyards	544818	Fast Crew Supplier	Defender II	Nigerian Government	Aqua Matic 700-1	2,65 m3/day
Damen Shipyards	532536	Offshore Supply Ship	Severn Provider	Severn Offshore Services	Aqua Whisper Mini 350	1,325m3/day
Kremer Nautic	GB 53-007	Yacht	Earl Grey	Private owner	Aqua Matic 1400-2	5,3m3/day
Kremer Nautic	GB 41-016	Yacht	Don	Private owner	Aqua Whisper Mini 170	0,64m3/day
Mulder Shipyard	95	Motoryacht	unknown	Private owner	Ultra Whisper 600	2,28m3/day
Scheepswerf Made	436	Motoryacht	Jericho	Private owner	2x aqua Whisper DX-1800-2	2 x 6,814m3/day
Seghers Shipyard	1941	Guard vessel	Merlin Diver	Van Laar Maritime B.V.	Aqua Matic 450-1	1,703m3/day
Shipkits Stetin	132	Windpark Support Vessel WSV75	Acta Orion	Acta Marine	Coral Sea 3600V dual	2x 13,5m3 / day
Shipyard Trico	unknown	Multipurpose Support Vessel	Miranda	van Laar Maritiem	Aqua Matic 450-1	1,703 m3/day
Smithske Jens	1890	Guard vessel	Octopus	Van Laar Maritime B.V.	Aqua Matic 450-1	1,703m3/day
unknown	unknown	General Cargo Vessel	CRS Rebecca	Flinter B.V.	Aqua Matic 1800-2	6,814m3/day
unknown	unknown	Trailing Suction Hopper Dredge	Volvox Asia	Van Oord	Coral Sea 6800	25,73m3/day
unknown	unknown	Water Injection Dredger	Sagar Manthan	Van Oord	Aqua Matic 700-1	1,703m3/day
unknown	unknown	Yacht	unknown	United Express, Zaventem	Ultra Whisper 400	1,512m3/day
unknown	unknown	Tug	SD Salvor	Kotug	Aqua Matic 700-1	2,65m3/day

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Referencelist Sea Recovery

YARD	HULL NO.	VESSEL TYPE	VESSEL NAME	OWNER	EQUIPMENT	CAPACITY
unknown	unknown	Zeilclipper	Morgenster	Marian en Harry Muter	Aqua Matic 700-1	2,650m3/day
unknown	unknown	Platform	K5CC	Total E & P	Aqua Matic 700-1	2,650m3/day
VEB Elbe Shipyard	unknown	Guard vessel	Faxaborg	Van Laar Maritime B.V.	Aqua Matic 450-1	1,703m3/day
Wim van der valk	WV103	Yacht	Selene	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV110	Yacht	Grey Falcon	Private owner	aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV109	Yacht	Jangade	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV108	Yacht	unknown	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV106	Yacht	Santa Maria T	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV105	Yacht	unknown	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV102	Yacht	Versailles	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV100	Yacht	MY Veselka	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV099	Yacht	Nadezhda	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV098	Yacht	The Next Episode	Private owner	Aqua Matic 1800-2	6,814m3/day
Wim van der Valk	WV094	Yacht	Montana de Piedra	Private owner	Aqua Matic 1800-2	6,814m3/day

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