Sea Water Desalination Watermakers
For Seawater Marine Use, Land Based and
Offshore Applications
With over 15 years of experience, Ampac-USA introduces the All New SeaPro™ Seawater Desalination Systems also known as Watermakers for the Land Based and the Marine Based Industry converting Sea Water to Pure Drinking Water for Yachts, Navy Ships and Commercial Freightliners worldwide.

Ampac USA integrate marine-grade materials with craftsman attention to detail. The result is a reliable, long-lasting marine Sea Water Desalination Reverse Osmosis watermaker Systems trusted by the Marine Industry worldwide.

When there’s a need for fresh water in high volume, Ampac-USA Manufacture High Flow Sea Water Desalination Commercial Grade Reverse Osmosis Watermaker Systems for Land Based Applications starting from 1,500 GPD up to 100,000 GPD (Gallons per day) using top quality components. Our systems are delivered complete with all plumbing included ready to produce water immediately after installation.

Unlike Osmosis, which is the natural tendency of pure water to flow through a membrane into impure water, Reverse Osmosis is achieved by applying very high pressure to seawater to counteract the osmotic flow. Thus, seawater is forced through a semi-permeable membrane, which removes all the dissolved solids and produces fresh, potable water on the other side. This method rejects at least 98% of salts, contaminants, and pollutants from seawater.

Salt or Brackish Water first enters into the RO via a through-hull fitting and is filtered through the Sea Strainer. This feed water is then boosted to 30 psi by the Booster Pump and filtered through 25 & 5 micron Pre-filters. Oil, if present, is then separated and removed by the Oil/Water Separator. These filters remove sediments and suspended solids from the feed water prior to entering the High Pressure Pump.

A Low Pressure Switch shuts down the RO in the event of low flow conditions, preventing cavitation in the High Pressure Pump.

The High Pressure Pump supplies the required force to drive the feed water through the semi-permeable Reverse Osmosis (R.O.) Membrane. An automatic high pressure safety relief valve protects the water maker if pressure exceeds recommended levels.

The fresh water produced flows out of the Reverse Osmosis Membrane where it is up to 99.2% free of salts, minerals, and other ions. It then passes into the Product Flow Meter where the amount of potable water produced per minute is registered. Next, the Salinity Probe registers the salt content of the product water. If the water is good quality, it passes through the 1 Micron Carbon Block Post-Filter and ½ Micron Ceramic Post-Filter, which purifies the water of unpleasant odors and taste. Finally, the last filtration process is completed by an optional Ultraviolet Sterilizer where 99.8% of all micro-organisms, including viruses and bacteria are destroyed.
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Ampac USA Emergency Portable Sea Water Desalination

In case of Natural Disasters or wars or for small boats, The Ampac Portable Emergency Sea Water Desalination System is designed to transform Seawater, Well Water, or Surface Water to Potable Drinking Water Standard set by the World Health Organization Standards.

The Ampac Portable Emergency Sea Water Desalination System can be designed to operate using DC or AC Power as per customer requirement.

The Ampac USA Emergency Portable Sea Water Desalination Reverse Osmosis Watermaker System is the ultimate choice for a reliable fresh Water source for Temporary or for Emergency Situations.

The Ampac USA SeaPro™ Series comes with 150 GPD or 300 GPD with maximum feed water salinity of 45,000 ppm. We offer Standard SeaPro™ Series Units as well as customizable to fit your water application requirement. From your Boat to the world’s largest desalination plants, Ampac USA is ready to provide the best in Sea Water Desalination Equipment.

**Key Features:**
- AC or DC power as per order
- One Button Start-Stop Operation
- Energy Efficient, low amperage per gallon of product water
- Quiet Operation

**System Pumps Included:**
- Smart-on Demand Suction Supply pump, will pull the sea water from any storage tank or direct from the sea
- Exclusive high efficiency booster pump for extended pre-filter life.

**Noise Reduction Features:**
- Noise Pulsation Dampener Included
- Smooth running and extraordinarily quiet.
- Vibration isolation mounts included.

**Materials:**
- Stainless steel exterior and interior pressure gauges for accurate measurement of water maker functions.
- Fiberglass Reinforced High Pressure Membrane Vessel is stronger and eliminates corrosion.
- Convoluted foam lines the lid; cut foam cubes line the bottom. Cases have double-throw latches, a molded plastic handle, and a hole to accommodate a padlock, with the addition of two 2" dia. polyurethane wheels and a retractable handle for easy mobility.

**Safety:**
- A failsafe Product Water Diversion Valve
- Unique Low Voltage Control Circuitry, shielded terminals, & covered high voltage components for end-user safety.
- High rejection / high yield membrane element that produces higher quality product water in a smaller space.
**System Specifications:**

**Stage 1:** Five micron Sediment pre-filter that reduces sediment, sand, silt, and rust particles that may be in your water supply.

**Stage 2:** A heavy duty Five Micron lead and chemical reducing carbon block filter (LVOC). This specially formulated block is capable of reducing lead as well as harmful Volatile Organic Chemicals. These water contaminants come from a variety of sources including localized use of herbicides and pesticides, gasoline or oil spill.

**Stage 3:** Improved FILMTEC™ seawater reverse osmosis elements offer the highest productivity while maintaining excellent salt rejection. FILMTEC SW membrane elements have the highest flow rates available to meet the water demands of both sea-based and land-based desalinators. FILMTEC SW elements operate at lower pressure to reduce cost, and operating expenses. Improved FILMTEC seawater membrane combined with automated, precision element fabrication result in the most consistent product performance available.

**Stage 4:** Extruded activated carbon filter consist of virgin activated carbon powder, a thermoplastic binder, and specialty adsorbents such as zeolites oxidizing filtration media. The filters are manufactured as continuous lengths of rod, tube, slab, flexible flat sheet, or as other complex shapes using a proprietary solid-state extrusion process. The resulting products are highly porous and extremely uniform, providing high performance adsorption and particulate reduction at low flow resistance when fabricated into finished filter elements.

Extruded activated carbon filters meet exacting performance requirements and/or claims, and specific models are registered as meeting the requirements of NSF/ANSI for VOCs and THMs reduction, particulate, cyst, turbidity, lead reduction, chlorine taste and odor reduction, and other requirements relating to purity and safety of their materials of construction.

**Stage 5:** Ultraviolet disinfection is a means of killing or rendering harmless microorganisms in a dedicated environment. These microorganisms can range from bacteria and viruses to algae and protozoa. Ultra Violet disinfection is used to disinfect and sterilize Permeate Product Water after the Desalination Process. A major advantage of UV treatment is that it is capable of disinfecting water faster than chlorine without cumbersome retention tanks and harmful chemicals. UV treatment systems are also extremely cost efficient!

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Power Volts/Ph/Hertz/Amps</th>
<th>Capacity GPD – LPD</th>
<th>Dimensions W x D x H inch</th>
<th>Weight lbs/kg</th>
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<tbody>
<tr>
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</table>

**Seawater** typically contains from 32,000 – 45,000 ppm of total dissolved solids (TDS). The World Health Organization has established a maximum TDS level of less than 500 ppm for drinking water standards. Reverse Osmosis water treatment technology is capable of making seawater drinkable by reducing the total dissolved solids by 99% or more. Ampac USA Sea Water Desalination Watermakers are specifically designed for those applications.

RO technology is particularly cost-effective, requiring lower capital costs than alternate treatment methods such as evaporation and distillation. In addition, Reverse Osmosis is far less energy intense which lowers operating cost.

**AMPAC USA Sea Water Desalination Watermakers** are effective at lower pressure than older types, and also produce higher permeate water to feed water ratio. This all contributes to lower cost-per-gallon of permeate water produced.

**AMPAC USA Watermakers** will feed raw water through a series of filters to remove solid impurities as well as to treat turbidity and other problems. The RO Booster Pump will increase the pressure to force the feed water through the reverse osmosis membrane, resulting in delicious, salt free, purified water exceeding the World Health Organization Standards for Drinking Water Applications.
Ampac USA Marine Based Sea Water Desalination

The Ampac USA Sea Water Desalination Marine Watermakers are technically the most advanced marine desalination systems in the industry today.

With over 15 years of experience, Ampac USA designs and manufactures the world’s most innovative and most energy efficient seawater desalination water makers for marine based sea water desalination applications in the market today. The Ampac USA Watermaker is a horizontal one-piece frame configuration with internal High Pressure Booster Pump for ease of use in compact locations. All components within the frame are readily accessible for easy maintenance.

Low Flow Marine Based Watermakers
100 up to 1,000 GALLONS PER DAY
- SW100  100 GPD (375 LPD)
- SW200  200GPD (750 LPD)
- SW300  300 GPD (1125 LPD)
- SW600  600 GPD (2270 LPD)
- SW800  800 GPD (3000 LPD)
- SW1000 1000 GPD (3875 LPD)

High Flow Marine Based Watermakers
1,500 up to 10,000 GALLONS PER DAY
- SW1500 1,500 GPD (5,670 LPD)
- SW2000 2,000 GPD (7,500 LPD)
- SW3000 3,000 GPD (11,350 LPD)
- SW4500 4,500 GPD (17,000 LPD)
- SW6000 6,000 GPD (22,700 LPD)
- SW8000 8,000 GPD (30,280 LPD)
- SW10K  10,000 GPD (37,850 LPD)

Production Based on the Following Feed water Conditions

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<tr>
<th>Water TDS</th>
<th>&lt; 45,000 ppm</th>
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<tr>
<td>Recovery</td>
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<tr>
<td>Rejection</td>
<td>98% Average</td>
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<td>Water temperature</td>
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<tr>
<td>Pressure</td>
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<td>110V/220V/380V/460V50Hz/60Hz Single or 3 Phase power</td>
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<tr>
<td>Production over a 24-Hour Period</td>
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</table>
**Ampac USA Low Flow Marine Based Watermakers**

The Low Flow Marine Based Seawater Desalination Watermaker is a Fully Automated Minimum Power Watermaker engineered for boaters, and is a horizontal one-piece frame configuration with internal High Pressure Booster Pump for ease of use in compact locations.

The super quiet Watermaker features automatic operation and is easy to use with a Start and Stop control. It serves as an efficient fresh water supply from the sea, and is ideal for Power Boats and Sailing Boats. All components within the frame are readily accessible for easy maintenance. This unit is designed to fit in tight places. The Atlantic Marine Watermaker comes in different capacities from 100 to 1000 Gallons per day, please see table next page for Flow Rate Specifications and Power Requirements.

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**Standard Features:**
- Compact design
- Aluminum Anodized, powder Coated Frame
- Micro Processor PLC Based Control Panel
- Heavy Duty 5 Micron Sediment Pre-Filter
- Extruded 5 Micron Carbon Block Pre-Filter
- TFC Spiral Wound Membrane Elements
- FRP Membrane Vessels 1000 PSI
- Quality Liquid Filled 316SS Pressure Gauges
- Low & Hi Pressure Switches
- Permeate TDS Water Quality Monitor
- Temperature and Operation Hour Meters
- Permeate and Concentrate Flow Meters
- Pressure Control Valve
- Automatic Feed Shut Off Valve
- High Pressure Relief Valve
- 316L Stainless Steel High Pressure Piping
- Inlet-Feed Solenoid Valve

**Optional Features:**
- On-Deck Remote Control Panel
- 10” LCD Display with Touch Screen Integrated
- Submersible Pumps for Sea Water
- On-Demand Feed Supply Pumps for Sea Water
- On-Demand Delivery Pumps for Fresh Water
- Full Duplex Titanium Booster Pumps
- Full Stainless Steel Skid Frame
- Ceramic ½ Micron Post Filter
- Alkaline pH Adjust Post Filter
- Ultra Violet sterilization integrated
- Membrane Auto-Flush with Permeate Water
- Membrane Flush on-Demand Pump
- CIP (Clean in Place System Integrated)
- Multimedia Pre-Filter for High Turbidity Seas.
- Anti-Scalant injection
- Chemical Injection Systems including Tank, Pump & Mixer
- Explosion Proof Rating Class 1, Div.2
**Key Features:**
- Single or Three Phase power as per order
- One Button Start-Stop Operation
- Energy Efficient, low amperage per gallon of product water
- Quiet Operation

**System Pumps Included:**
- Smart-on Demand Suction Supply pump
- Exclusive high efficiency booster pump for extended pre-filter life.

**Noise Reduction Features:**
- Noise Pulsation Dampener Included
- Smooth running and extraordinarily quiet.
- Vibration isolation mounts included.

**Materials:**
- Fully automated Turnkey Sea Water Desalination System including pre-treatment Modules and Reverse Osmosis System fully built on a Powder Coated welded Aluminum Skid with Diamond Plate Base using best industrial practice and following manufacturer’s guidelines for every component.
- Stainless steel exterior and interior pressure gauges for accurate measurement of water maker functions.
- Fiberglass Reinforced High Pressure Membrane Vessel is stronger and eliminates corrosion.

**Safety:**
- A failsafe Product Water Diversion Valve
- Low Voltage Control Circuitry, shielded terminals, & covered high voltage components for end-user safety.
- High rejection / high yield membrane element that produces higher quality product water in a smaller space.
- Alarm Horn - Alarm Conditions: Low feed pressure & High permeate conductivity.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Power Volts/Ph/Hz/Amps</th>
<th>Capacity GPD – LPH</th>
<th>Dimensions W x D x H inch/cm</th>
<th>Weight lbs./kg</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>240/1/60/6.4</td>
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<td>SW200</td>
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<td>120/1/60/6.4</td>
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<td>44 x24 x 26</td>
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<td>112 x 61 x 66</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20-7760</td>
<td>240/1/60/6.4</td>
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<td>230 / 105</td>
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<td>112 x 61 x 66</td>
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<td>80-7750</td>
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<td>112 x 61 x 66</td>
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<tr>
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<td>80-7760</td>
<td>440/1/60/3.0</td>
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<td>SW1000</td>
<td>100-7749</td>
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<td>44 x24 x 26</td>
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<td>100-7760</td>
<td>440/1/60/3.0</td>
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</table>
The High Flow Sea Water Desalination Reverse Osmosis Watermaker System is the ultimate choice for a reliable Fresh Water Source for Marine Based Applications. The High Flow Watermaker Series comes with capacities ranging from 1,500 to 10,000 GPD and a maximum feed water salinity of 45,000 ppm.

Ampac USA offer Standard Units as well as Modular Units to fit your Installation. We’re particularly noted for our technical services and our after sales support, and we are available to assist with your specific customized applications.

<table>
<thead>
<tr>
<th>Standard Features:</th>
<th>Optional Features:</th>
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<tbody>
<tr>
<td>Compact design</td>
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</tr>
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<td>Full Duplex Titanium Booster Pumps</td>
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<tr>
<td>FRP Membrane Vessels 1000 PSI</td>
<td>Full Stainless Steel Skid Frame</td>
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<td>Ceramic ½ Micron Post Filter</td>
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<td>Low &amp; Hi Pressure Switches</td>
<td>Alkaline pH Adjust Post Filter</td>
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<td>Permeate TDS Water Quality Monitor</td>
<td>Ultra Violet sterilization integrated</td>
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<td>Temperature and Operation Hour Meters</td>
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<td>Permeate and Concentrate Flow Meters</td>
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<td>High Pressure Relief Valve</td>
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<td>316L Stainless Steel High Pressure Piping</td>
<td>Chemical Injection Systems including Tank, Pump &amp; Mixer</td>
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<tr>
<td>Inlet-Feed Solenoid Valve</td>
<td>Explosion Proof Rating Class 1, Div 1</td>
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- Single or Three Phase power as per order
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- Energy Efficient, low amperage per gallon of product water
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</table>
On many occasions drilling a Beach Well is essential for Land based Installation Sites, seawater extracted from beach wells is usually mixed with underground well water, which requires special pre-treatment before the Reverse Osmosis Process.

Ampac USA Land Based Seawater Desalination Watermakers include all of the marine based components with the addition of pre-treatment stages necessary to remove other contaminants from well water such as Calcium, Magnesium, Iron, Bacteria, etc. As well it includes all the post-treatment necessary for maintaining the purity level of the permeate water, and the delivery pump to ensure reliable consistent pure water supply the point of use.

Our Land Based Watermakers comes with a complete control panel that include a microprocessor controller features an alphanumeric backlit LCD to display operating conditions, and provides adjustable time delays and set points to accommodate varying field conditions.

The Microprocessor monitor and control operation of watermaker and communicate with pre-treatment, post-treatment equipment and distribution tank levels as required.

AMPAC USA Sea Water Desalination Watermakers combined with automated, precision fabrication result in the most consistent product performance available in the Sea Water Desalination today.
**Standard Features:**

- Powder Coated Welded Aluminum frame will conform to AISC Manual of Construction
- Smart on Demand Feed Supply Pump
- Spin Down Screen Filter with Manual Flush Valve
- Multimedia KDF-GAC-Poly Phosphate Pre-Filter w/auto-backwash valve
- Ion Exchange Water Softener Pre-Filter w/auto-backwash valve
- 4” x 20” Sediment Pre-Filter 20 Micron
- 4” x 20” Sediment Pre-Filter 05 Micron
- Inlet Actuator Valve with Bypass
- High Pressure Plunger Pump w/ safeguards
- High Pressure FRP Reverse Osmosis Vessels
- Seawater R/O Membrane Elements
- Carbon Post Filter
- Ceramic 0.02 Micron Post Filter
- Ultra Violet Disinfection Sterilizer
- Anti-Scalant Injection System including Tank, Pump Mixer and Injector *(Optional).*

**Instrumentations:**

- Automatic Operating Programmable logic controller UL/CE Approved with:
  - Inlet Solenoid Valve Control
  - Low & High Feed Pressure Switches
  - Supply Pumps Controls
  - R/P Storage Tank Full Pump on/off
  - Auto Flush Cycle
  - Pre-Treat Lockout
  - TDS Water quality Monitor for Permeate Water Quality
  - Temperature Monitor with LCDE Display
  - Hour Meter
- Complete Panel for Easy Controls
- Stainless steel liquid-filled pressure gauges
- Permeate and concentrate flow meters
- Low pressure cut off Sensor Switch
- Stainless Steel System Pressure Control Valve
- High Pressure Diverter Valve
- On/Off Main Power Switch
- On/Off Feed Pump Switch
- On/Off High Pressure Pump Switch.
<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Power Volts/Ph/Hz/Amps</th>
<th>Capacity GPD – LPH</th>
<th>Dimensions W x D x H inch/cm</th>
<th>Weight lbs./kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1500-LX</td>
<td>150-7750LX, 150-7761LX</td>
<td>230/1/50/6.4, 240/1/60/6.4</td>
<td>1,500 GPD – 230 LPH</td>
<td>72 x 30 x 65 / 183 x 76 x 165</td>
<td>900 / 410</td>
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<td>SW2000-LX</td>
<td>200-7750LX, 200-7760LX</td>
<td>230/1/50/6.4, 240/1/60/6.4</td>
<td>2,000 GPD – 315 LPH</td>
<td>72 x 30 x 65 / 183 x 76 x 165</td>
<td>950 / 430</td>
</tr>
<tr>
<td>SW3000-LX</td>
<td>300-7750LX, 300-7760LX</td>
<td>230/1/50/6.4, 240/1/60/6.4</td>
<td>3,000 GPD – 470 LPH</td>
<td>72 x 30 x 65 / 183 x 76 x 165</td>
<td>1,050 / 480</td>
</tr>
<tr>
<td>SW4000-LX</td>
<td>400-7750LX, 400-7760LX</td>
<td>230/1/50/6.4, 240/1/60/6.4</td>
<td>4,000 GPD – 630 LPH</td>
<td>72 x 30 x 65 / 183 x 76 x 165</td>
<td>1,050 / 480</td>
</tr>
<tr>
<td>SW6000-LX</td>
<td>600-7750LX, 600-7760LX</td>
<td>380/1/50/3.5, 440/1/60/3.0</td>
<td>6,000 GPD – 946 LPH</td>
<td>96 x 36 x 65 / 244 x 92 x 165</td>
<td>1,150 / 520</td>
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<tr>
<td>SW8000-LX</td>
<td>800-7750LX, 800-7760LX</td>
<td>380/1/50/3.5, 440/1/60/3.0</td>
<td>8,000 GPD – 1,260 LPH</td>
<td>96 x 36 x 72 / 244 x 92 x 183</td>
<td>1,240 / 560</td>
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<tr>
<td>SW10K-LX</td>
<td>10K-7750LX, 10K-7760LX</td>
<td>380/1/50/3.5, 440/1/60/3.0</td>
<td>10,000 GPD – 1,570 LPH</td>
<td>96 x 36 x 72 / 244 x 92 x 183</td>
<td>1,350 / 620</td>
</tr>
</tbody>
</table>

**Diagram:**
![Diagram of AMPAC USA Seawater Desalination Watermakers](image_url)
Ampac USA Commercial Seawater Desalination Watermakers

AMPAC USA Commercial Seawater Desalination Watermakers are designed to be the most user friendly, reliable turnkey SWRO Systems for the average operator, featuring the latest technologies. Ampac USA watermakers are fully automated and require minimum assistance, they are equipped with solid state sensors that monitor pressure points, water levels, temperature and flow. Each SWRO is equipped with an Auto Flush module that periodically flush the membrane elements with freshwater to ensure all components stay in top operating conditions.

System production is based on the following conditions:

1) Air Temp (Weather): From 40°C to -30°C
2) Sea water Temp: From 30°C to -2°C
3) Machine Room: From 50°C to 0°C
4) Relativity Humidity: From 95% to 0
5) Maximum Salinity: 45,000ppm NaCl feed water,
6) pH Range: 3.0-11.0pH Range.

System can also be installed on ship with the following max. Motion:

1) Permanent Trim up to: ±5°
2) Permanent List up to: ±15°
3) Pitching up to: ±10°
4) Rolling up to: ±45°

Make of System: Fully automated Turnkey Seawater Desalination Watermaker including pre-treatment Modules and Reverse Osmosis System fully built on a Powder Coated welded Aluminum Skid with Diamond Plate Base using good industrial practice and following manufacturer’s guidelines for every component.

Ampac USA Commercial Watermakers comes with a complete control panel that include a microprocessor controller features an alphanumeric backlit LCD to display operating conditions, and provides adjustable time delays and set points to accommodate varying field conditions.

The Microprocessor monitor and control operation of watermaker and communicate with pre-treatment, post-treatment equipment and distribution tank levels as required.

System production is based on the following conditions: 45,000ppm NaCl feed water, 77°F/25°C Operating temperature and 3.0-11.0pH Range. Actual feed water analysis may require special design consideration affecting final design and pricing.
**Standard Features:**
Included with this proposal:

- Powder Coated Welded Aluminum frame will conform to AISC Manual of Construction
- Chlorine Tablet Feeder
- Smart on Demand Feed Supply Pump
- Spin Down Screen Filter with Manual Flush Valve
- Multimedia KDF-GAC-Poly Phosphate Pre-Filter w/auto-backwash valve
- Anti-Scalant Injection System including Tank, Pump Mixer and Injector
- 4” x 30” Hydrosafe Pre-Filter Sediment 05 Micron
- Inlet Actuator Valve with Bypass
- High Pressure Plunger Pump w/ safeguards
- 4” x 40” FRP High Pressure Vessels
- TFC 4” x 40” Membrane Elements
- 2” x 10” Carbon Post Filter
- Ultra Violet Disinfection Sterilizer.

**Instrumentations:**
Included with this proposal:

- Automatic Operating Programmable logic controller UL/CE Approved with:
  - Delayed start-up of high-pressure pump
  - Inlet Solenoid Valve Control
  - Low & High Feed Pressure Switches
  - Supply Pumps Controls
  - R/P Storage Tank Full Pump on/off
  - Auto Flush Cycle
  - Pre-Treat Lockout
  - TDS Water quality Monitor for Permeate Water Quality
  - Temperature Monitor with LCDE Display
  - Hour Meter

- Complete Panel for Easy Controls
- Stainless steel liquid-filled pressure gauges
- Permeate and concentrate flow meters
- Low pressure cut off Sensor Switch
- Stainless Steel System Pressure Control Valve
- High Pressure Diverter Valve
- On/Off Main Power Switch
- On/Off Feed Pump Switch
- On/Off High Pressure Pump Switch.
Ampac USA design and manufacture Advanced Heavy Duty Reliable Emergency Portable High Flow Seawater Desalination Reverse Osmosis Systems with production up to 250,000 GPD (Gallons per Day) that can be deployed anywhere in the world.

Key benefits included:
- Very Reliable and Solid Construction
- Rapid deployment of mobile assets
- Production continuity, productivity gains
- Reduced time and costs for repairs and new plant or process startups
- Guaranteed water quality and quantity
- Extended asset life with high-quality water treatment
- Safe operation and regulatory compliance
- Lowest Power Consumption
- Materials and Components exceeding specifications
- Easy Remote Control minimize operator’s interference.
AMPAC USA Emergency Mobile Seawater Desalination Watermaker
Ampac USA Seawater Desalination Watermaker Model SW80K-LX installed and commissioned at the Qualcomm Resort in La Paz, Mexico

Ampac USA SWRO Model SW100K-LX deployed By the Red Cross in Colombia.

Ampac USA Solar Powered Seawater Desalination Model SW1500 Deployed by the US Corps of Engineers in Iraq.
Ampac USA Mobile Brackish & Seawater Desalination Watermakers

With just a call, Ampac USA provides water when and where you need it. Ampac USA’s on-demand mobile water treatment solutions include reverse osmosis, filtration, demineralization, High Purity, softening for Brackish Water and Seawater Applications.

Deployable within two hours, Ampac USA’s trailered solutions can help with steam blows, plant start-ups/shutdowns, replacement of conventional resin-based systems, and much more.

**Deploying trailers to your pre-planned or emergency outage in less than 2 hours**

Whether a scheduled outage or an emergency need, your operations need guaranteed water quality and quantity. Complying with environmental regulations and handling various influent waters, Ampac USA’s trailer-based Water Treatment systems can meet your temporary, or emergency water needs.

**Mobile Water Treatment Features**

Ampac USA’s mobile water treatment solutions fall into four system categories: resin, membrane, filtration, and other water treatment.

Routine applications include:

- Well Water Treatment
- Seawater Desalination
- Clarifier by-pass / outage projects requiring total suspended solids (TSS) removal
- Boiler feed water to all levels of purity
- Total organic carbon (TOC) removal
- Water recycling
- Steam blow boiler make up
- Water availability ahead of permanent plant commissioning
- Special applications where improvements in water quality or quantity can provide value for your processes
Standard Features:

Heavy Duty – Light Weight Single Axle Trailer with Insulation, A/C and Lighting

Duromax Hybrid Dual Fuel 10 KW Electric Generator

Fully automated Turnkey Brackish Water and Seawater Desalination System including all necessary pre-treatment Modules, R/O System fully built on a Powder Coated welded Aluminum Skid.

Quick Disconnect CamLock Fittings for Inlet Raw Water and Output Pure Water Mounted on the wall of the trailer in an enclosure with a lock door.

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