



Open Ocean - Quencher Electric 240 Volt AC Modular – Data Sheet

The major components are assembled in **modular** form to best utilize available space. These components are universal in nature and many of them are available worldwide, an important feature for a vessel operating internationally. Open Ocean keeps circuit boards, fancy controls and flashing lights off their products to provide the most **reliable** water maker possible.

This reverse osmosis desalination plant will utilize a commercial grade, high pressure pump, close coupled (no belts) to a 2.2hp, 240 Volt AC, electric motor. This supplies high pressure, pre-filtered sea water to a membrane array that produces a nominal 80 - 240 litres of potable water per hour from sea water at 25 degrees C and a salinity of 35,000 ppm, at an operating pressure of 800 – 850 psi.

Dimensions:

High pressure pump with electric motor 285mm wide X 560mm long X 255mm high

Membrane vessel 90mm wide x 1190mm long

Control Panel 200mm wide X 165mm high

Sample/Tank Valve Panel 130mm wide X 75mm high

Boost pump 240 V 290mm high X 390mm long X 195mm wide

Sea Water Filters 400mm high X 320mm wide X 130mm deep

Charcoal Flush Filter 400mm high X 370mm wide X 130mm deep



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Options

Autoflush – automatically flushes fresh water through the system every 7 days, preserving the membranes. Especially good for boaters who don't get back to their boats as often as they mean to.



20 Micron Pre-filter

for systems that will operate in water with high levels of organics. Filters out plankton and silt before it gets to the 5 micron pre-filter extending its service life.

Stand-offs

Our Quencher control panels were designed for discreet flush mounting with electrical and wiring access from behind. This makes for a very tidy installation in the cabin. For some installations, the best panel location does not lend itself to access from behind. For those installations we have stainless steel stand-off brackets for both the Control Panel and the Sample/Tank Valve. These stand-offs allow for easy surface mounting with hoses coming and going from below.



Specifications:

- 240Volt AC electric motor
- 80-240 liters per hour @ approx 13 amps (one, two, or three membranes)
- Commercial quality reverse osmosis Stainless Steel high pressure pump
- Reverse osmosis membranes and 2000 psi carbon fibre pressure vessel modules
- 240 Volt centrifugal sea water rated low pressure boost pump
- 5 micron polyester pleated **washable** pre-filter for cost effective long life filtration
- Fresh water flush facility: Charcoal filter connects to your onboard pressure water system to flush the water maker with fresh water
- Pressure relief valve – protects components from accidental over pressure situations
- Test, rejection and regulation valves
- High pressure hose / nylon non-corrosive tubing – can be cut and fit aboard
- All you need to provide is a sea strainer, access to the ship's water tanks, low pressure hoses, and any mounting benches or Surfaces required to position the Open Ocean components

Quencher AC System Layout

