



Open Ocean - Quencher Electric 12 Volt DC Modular – Data Sheet

The major components are assembled in **modular** form to best utilize your 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, coupled to a 1/2hp, 12 volt DC electric motor. This supplies high pressure, pre-filtered sea water to a reverse osmosis membrane that will produce approx. 35 litres of potable water per hour using approx. 25 amps at 12volts 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 280mm wide X 470mm long X 200mm high

Membrane vessel 90mm wide x 1190mm long

Control Panel 275mm high X 185mm wide

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

Boost pump 12 V 100mm high X 100mm wide X 70mm deep

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

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



openocean@xtra.co.nz
www.openoceanwatermakers.co.nz

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.

Specifications:

- 12 Volt DC electric motor
- 35 liters per hour @ approx 25 amps @ 12.8 constant volts
- Commercial quality reverse osmosis Stainless Steel high pressure pump
- Reverse osmosis membranes and 2000 psi carbon fibre pressure vessel modules
- 12 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 surfaces required to position the Open Ocean components

Quencher 12 Volt Low Current System Layout

