

Open Ocean – Cape Brett Engine Drive Modular – Data Sheet

This reverse osmosis desalination plant will utilize a commercial grade, quality high pressure pump, with an electrically engaged V-belt clutch. To be driven by a power take-off pulley, on a propulsion engine or generator. 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.

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.

Dimensions:

High pressure pump with electric clutch 240mm wide X 320mm long X 190mm high

Membrane vessel 90mm wide x 1190mm long

Control Panel 430mm high X 380mm wide

Boost pump 12V 210mm high X 100mm X 100mm

Sea Water Filters 400mm high X 250mm wide X 130mm deep

Charcoal Flush Filter 400mm high X 300mm 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.

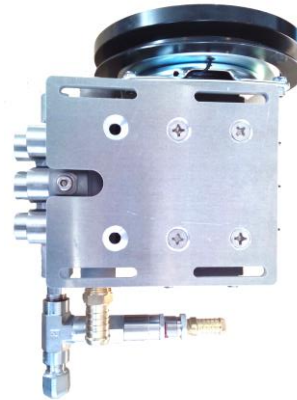


20 Micron Pre-filter

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.

Sliding base-plate

C-N-C cut sliding plate for horizontal belt tensioning



Specifications:

- Commercial quality stainless steel high pressure pump with 12V clutch, using one "A" 13mm automotive belt
- 80 to 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
- 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 benches or platforms required to position the Open Ocean components

Cape Brett Engine Drive System Layout

