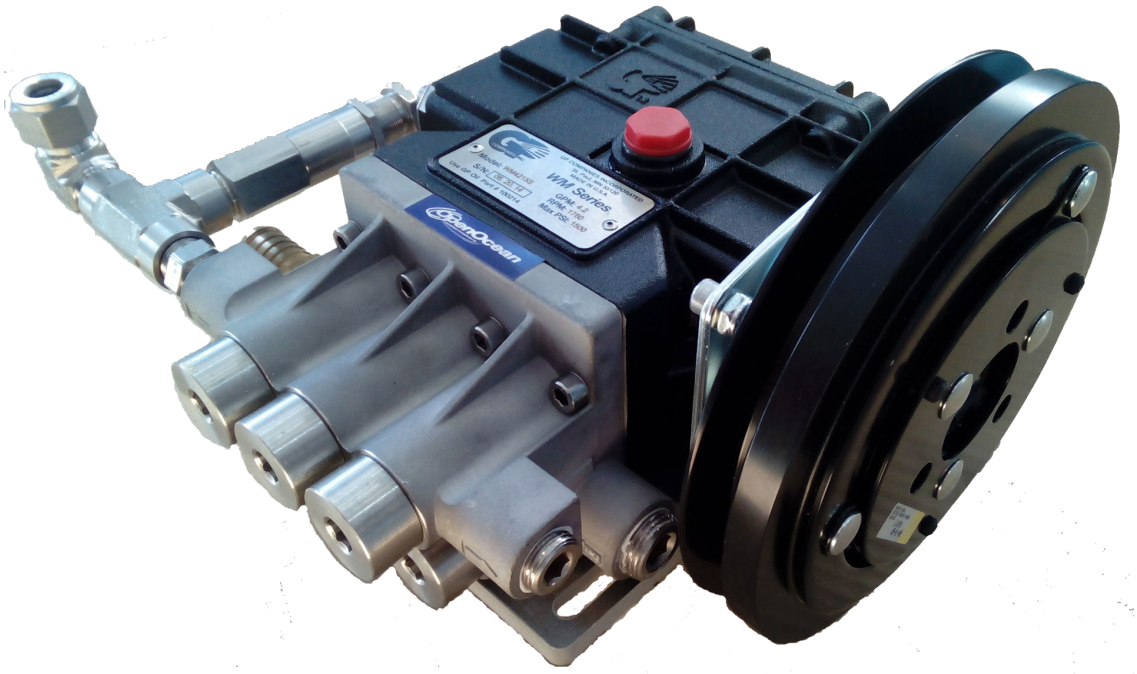
OpenOcean water.

Open Ocean Modular Water • Quencher Series

QUENCHER
Engine Drive

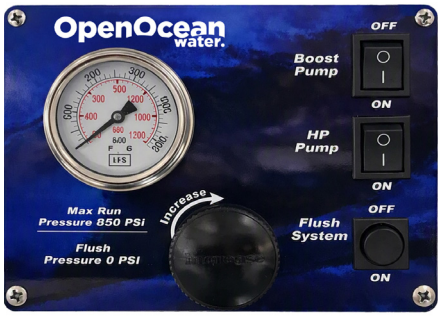
Data Sheet



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1. Data Sheet

The major components are assembled in modular form to best utilise 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 watermaker possible.

This reverse osmosis desalination plant utilises a commercial-grade, quality high pressure pump with an electrically engaged V-belt clutch, 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.

2. Dimensions

- High pressure pump with electric clutch 240mm wide x 320mm long x 190mm 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, 12V 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

3. 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 reaches the 5 micron pre-filter, extending its service life.



Sliding Base-plate

CNC-cut sliding plate for horizontal belt tensioning.



Sliding Base-plate

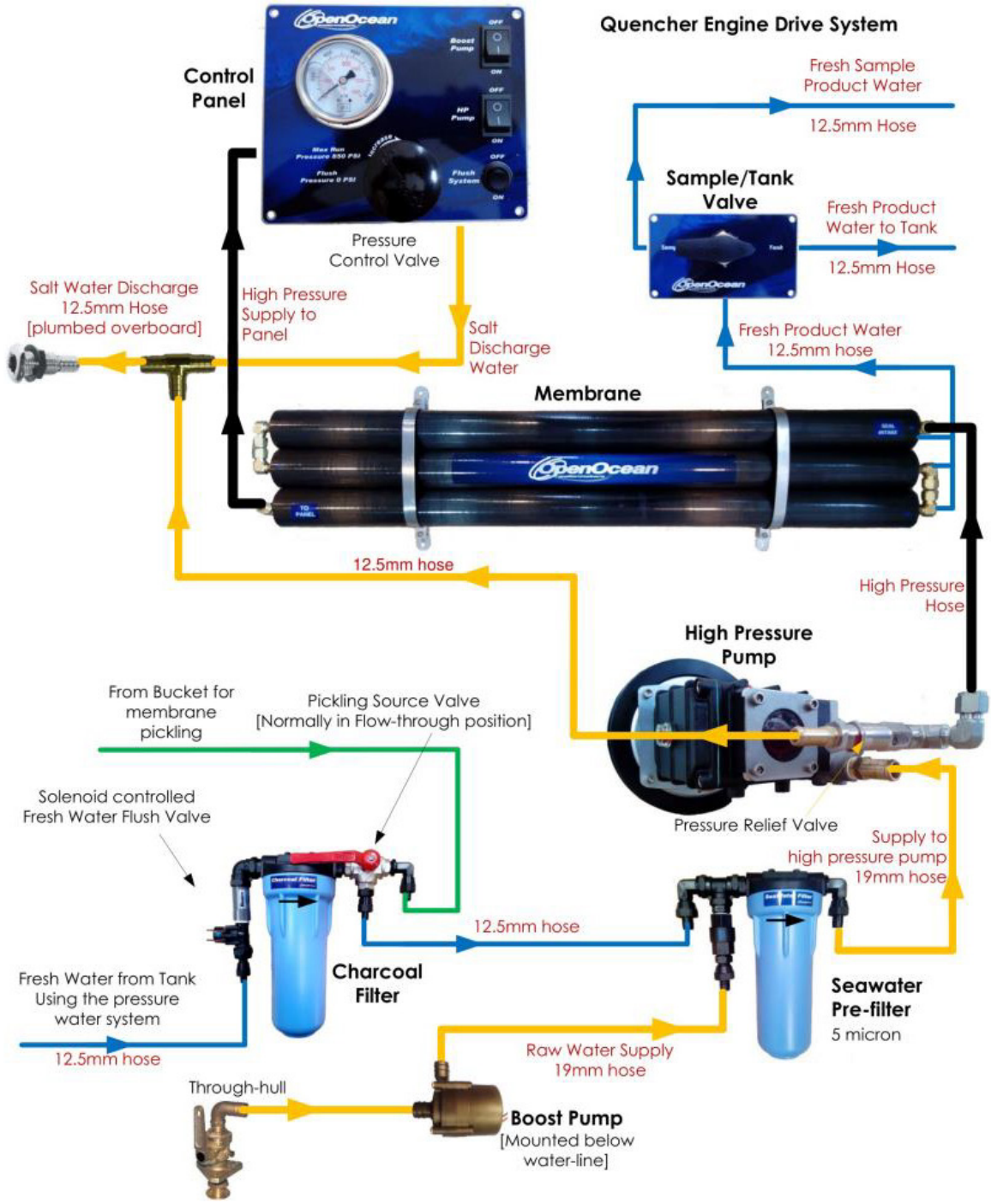
Our Quencher control panels are designed for discreet flush mounting, with electrical and wiring access from behind — a very tidy installation in the cabin. Where the best panel location doesn't allow access from behind, stainless steel stand-off brackets are available for both the control panel and the sample/tank valve, for easy surface mounting with hoses running from below.



Specifications

- Commercial quality stainless steel high pressure pump with 12V clutch, using one "A" 13mm automotive belt
- 80–240 litres per hour @ approx. 13 amps (one, two, or three membranes)
- Reverse osmosis membranes and 2000 psi carbon fibre pressure vessel(s)
- 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 watermaker 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 fitted aboard
- 12 Volt centrifugal sea water rated low pressure boost pump
- 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

4. Component Schematic



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