OpenOcean water.

Open Ocean Modular Water · Land-Based Systems

PORTABLE LAND-BASED
240 Volt AC

Data Sheet



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Control panel and switches



High pressure pump and motor

1. Data Sheet

This reverse osmosis desalination plant uses a commercial-grade high pressure pump, close coupled (no belts) to a 1.85 kW, 240 Volt AC, 50 Hz, single phase 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.

The major components are assembled pre-plumbed in a case. These components are universal in nature and many of them are available worldwide. Open Ocean keeps circuit boards, fancy controls and flashing lights off their products to provide the most reliable watermaker possible.

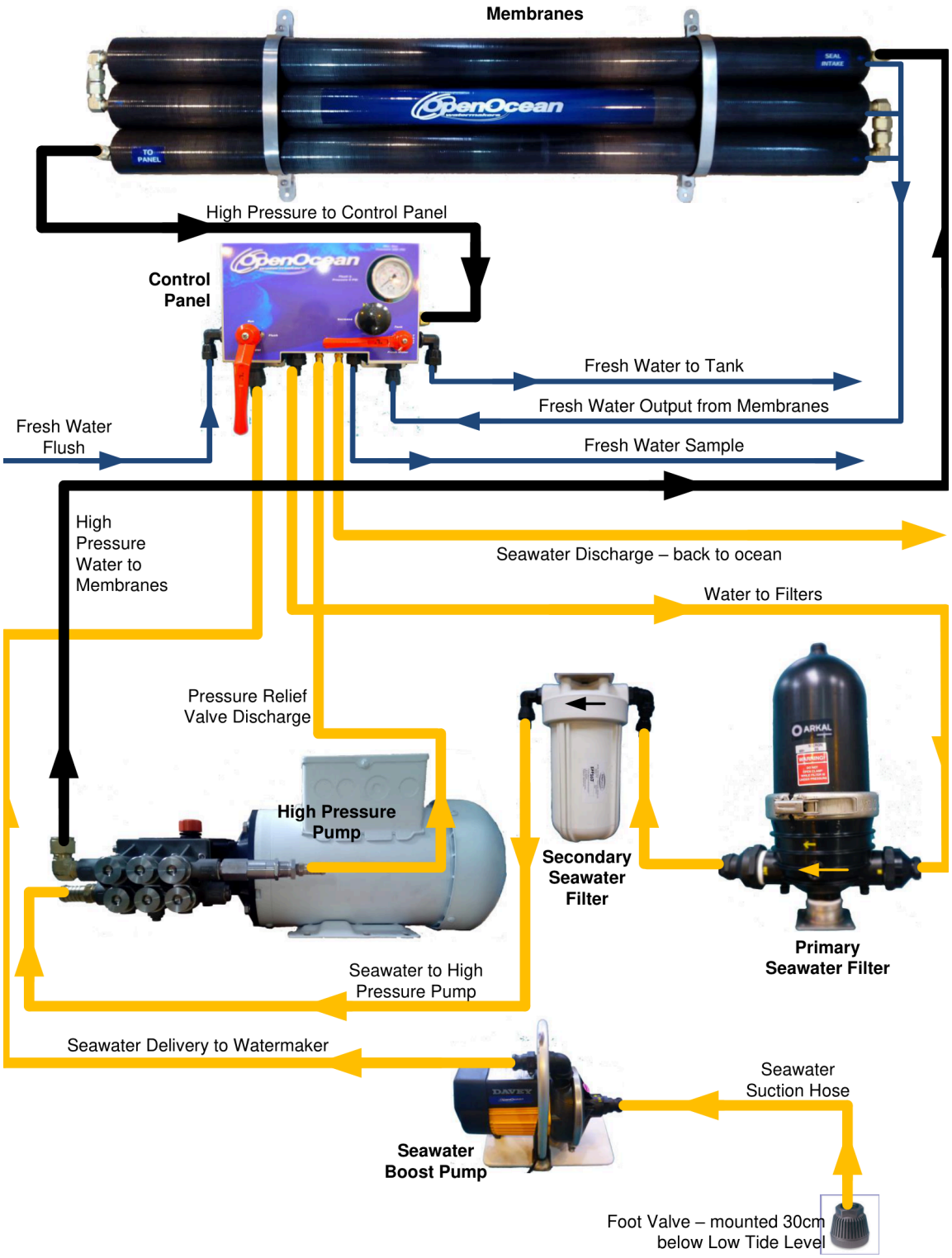
2. Dimensions

- Case size is approximately 1225mm long x 800mm high x 340mm deep
- A second case of the same dimensions is supplied containing various hoses and support equipment
- The primary case weighs approximately 80kg, and the support case approximately 50kg
- The system is normally supplied with a 10m pick-up hose that runs from the ocean to the boost pump
- 30m hose from the boost pump to the system case, and a 30m discharge hose to return seawater to the ocean
- 15m hose to deliver fresh product water to storage tanks

3. Specifications

- 1.85 kW, 240 Volt AC, 50 Hz, single phase electric motor - the motor starts up without load
- Direct coupled, commercial quality high pressure pump
- Reverse osmosis membranes and 2000 psi carbon fibre pressure vessel modules
- Control panel suitable for dry or wet area mounting
- 240 Volt centrifugal sea water rated low pressure boost pump
- Washable 20 micron pre-filter for first stage filtration
- 5 micron jumbo polyester pleated washable pre-filter for cost-effective, long-life filtration
- Fresh water flush facility
- Pressure relief valve - protects components from accidental over-pressure situations
- Test, rejection and regulation valves
- All high pressure hose is 2500 psi nylon non-corrosive tubing
- Open Ocean provides all operational components required
- The system draws just under 13 amps in operation (around 2900 Watts). For remote locations, we recommend a generator or pure sine-wave inverter of 4500 Watts or more to power the system

4. System Layout



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