



Stella Watermaker

April 2019

STELLA WATERMAKER Electric 240 volt AC

Stella Watermakers are proudly **designed and manufactured in Australia**. The reverse osmosis desalination plant will utilise a high pressure direct drive pump (no belts) with a 240VAC, single phase electric motor. This will supply high pressure, pre-filtered sea water to a membrane array (1-3 membranes) that will produce a nominal 80 - 240 litres of potable water per hour from sea water (1920 – 5760 LPD) at 25 degrees C and a salinity of 35,000ppm, at an operating pressure of 800 - 850psi.

The major components will be assembled in **modular** form to best utilise your available space. These **quality components** are industry standard and many of them are available worldwide. Stella keeps circuit boards, complex controls and flashing lights off their products, to provide the most **reliable** and **easy to use** watermaker available today.

Specifications

- 316 stainless steel triplex high pressure pump, designed specifically for reverse osmosis with solid ceramic plungers and 316 stainless steel pressure relief valve
- 240VAC, 50Hz, 1.5kw, single phase electric motor (uses approx. 9.5 amps) fitted with polymer anti-vibration engine mounts
- Fiberglass 1000psi membrane vessels with Duplex 2205 stainless steel end caps and heavy duty polypropylene clamps
- FILMTEC high flow seawater reverse osmosis membranes
- 316 stainless steel control panel and fittings
- 316 stainless steel pressure gauge and regulation valve
- Product flow meter and test/diversion valve
- 2 x 1.5 meter high pressure hose, with 316 stainless steel fittings (Can Be customized to suit)
- Davey 240VAC sea water rated low pressure pump (uses approx. 2.8 amps)
- Dual 20 & 5 micron pre-filter housings with 316 stainless steel bracket and polyester pleated washable (reusable) filters
- 1x TDS meter to check water quality
- Pickling facility (for membrane storage) with connection and diversion valve
- Fresh water rinse facility: single filter housing with 5 micron charcoal (carbon) filter and valve, connects to your onboard pressure water system to fresh water flush the system with tank water
- Optional automatic timed fresh water flush facility (Auto Flush): same as above but with additional electric timer and solenoid valve that is programmed to flush system every 7 days
- You will need to provide, access to the ship's water tanks, and any mounting benches or platforms required to position the components. Connection to the boat's electrical system must be by a qualified electrician
- Stella provide all operational components required for installation with the exception of low pressure standard hose, electrical switches and additions to the ship's electrical system or distribution switch-board, through hull fittings required for seawater feed or brine overboard discharge.

Dimensions (Approx. Length x Height x Depth)

- High Pressure Pump with electric motor - 50cm x 21cm x 24cm
- High Pressure Hose's 1.5 meter X 2
- Membrane housing 80ltr with bracket - 115cm x 18cm x 10cm
- Membrane housing 160ltr with bracket - 115cm x 30cm x 10cm
- Membrane housing 240ltr with bracket - 115cm x 43cm x 10cm
- Control Panel – 30cm x 25cm x 8cm
- Low Pressure Pump - 32cm x 22cm x 20cm
- Seawater Filter – 24cm x 32cm x 12cm
- Charcoal Filter 11cm x 32cm x 12cm

STELLA WATERMAKER Engine Driven (ED80, ED160, ED240)

Our engine driven units are the same price and specs as our electric 240VAC unit but with:

- 12VDC electromagnetic clutch with single A-section pulley (approx. 2HP draw from motor) mounted to high pressure pump instead of electric motor (22cm x 17cm x 22cm)
- Jabsco 12VDC low pressure pump (316SS head) instead of 240VAC (uses approx. 8 amps)

Price (Including GST)

Stella Watermaker AC80	(80LPH)	RFQ ALQUEST MARINE
Stella Watermaker AC160	(160LPH)	RFQ ALQUEST MARINE
Stella Watermaker AC240	(240LPH)	RFQ ALQUEST MARINE

Options (Including GST)

Spares Kit includes:

*3x 20 micron and 3x 5 micron seawater filters, 1x 5 micron charcoal filter,
1x 500g pickling solution to store membranes, 1 x 1lt oil for HP pump.*

RFQ ALQUEST MARINE

Installation

- All Stella watermakers come complete with a detailed installation and operation manual and can be installed by a competent company or individual
- Stella Systems can provide a cost estimate for installation and commissioning and or provide a list of approved installers and dealers Australia Wide.

Delivery

- Ex stock if available or approx. 2-3 weeks from order confirmation

Warranty

- Stella Watermakers come with a limited 12 month **warranty**. Our product in your vessel gives us a responsibility we do not shy away from, our commitment is to provide always outstanding service. Put simply - our reputation depends on this.

Service

- Stella Systems and our installers Stella Marine will assist you in any way possible with the job, to ensure a practical and satisfactory outcome
- All spare parts and consumables are available from Stella Systems, or most cities world wide



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MARINE EQUIPMENT MANUFACTURERS, IMPORTERS & DISTRIBUTORS