



# DESSALATOR SPECIFICATION SHEET

## DUO100 12 / 24 V DC and 120 / 230 / 400 V AC

### Application:

The DUO can be operated with either AC power supplied by a generator or DC power supplied from the engine alternator.

### Options:

This model is only available in Remote Control version. The Remote Control model is modular and the control panel can be mounted independently from the other major components.

### Size:

Horizontal Control Panel:	L 320mm x H 200mm x D 120mm
Pump and Motors Assembly:	L 730mm x W 350mm x H 300mm
12V motor:	Pulley 50mm, 12V relay, drive belt 10x925 or
24V motor:	Pulley 71mm, 24V relay, drive belt 10x925 and
230V motor:	Pulley 85mm, drive belt 13x725
Sea Water Pre-filter:	H 410mm x D 200mm x W 340mm Standard 10 inch, 5 micron water filter
Membrane Assembly:	L 700mm x W 245mm x H 150mm
<b>Power consumption:</b>	
High pressure pump/motor unit:	1.1 kW at 120, 230 or 400 V AC (with 30µF Capacitor) 600W at 12V or 24V DC
12V:	600W – 46A (a fuse holder with 63A motor fuse is supplied).
24V:	600W – 30A (A 40A starting curve circuit breaker is supplied)
120V:	9A continuous (32A starting). A 32A circuit breaker is supplied.
230V:	5A continuous (10A starting). A 10A circuit breaker is supplied.
400V:	3A continuous (5A starting). A 5A circuit breaker is supplied..

### Module Elements of the Watermaker:

- Pre-filter assembly with fresh water rinse solenoid valve and key for the filter
- High pressure motor/pump assembly mounted on fixing base
- Membrane assembly comprises; three tubes containing three 25.21 membranes, end plates and retaining rods and associated high pressure hose connections and fresh water delivery connectors
- Front panel: comprising electric control box (fixed behind the front panel) with electronic controller, high pressure gauge, graduated medical flow-meter, pressure sensor, salinity probe, hour meter and operating status indicator lights.

### Accessories included:

- ½" thru-hull scoop type skin fitting with sea-cock and strainer
- High pressure hoses Ø 8mm – 8 m
- 2 pre-installed high pressure connectors and 2 to be fitted on installation (adapter supplied)
- Blue production hose Ø 8/10mm: 8m
- 1 spare pre-filter element (5 microns, 10 inch)

### Cable:

Cable supplied: 2 x 6m of 3x1.5mm<sup>2</sup> for AC power supply to panel and AC motor feed  
Cable required: 50mm<sup>2</sup> for the 12V or 35mm<sup>2</sup> for the 24V

**Working pressure:** Between 60 and 65 Bars. Dessalator pressure gauge is marked with a green zone (registered design).

**Weight:** 50 kg, boxed up: 75 kg