



DESSALATOR SPECIFICATION SHEET

DUO100 AC/DC 12 or 24 V DC and 120 or 230 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 32 cm x H 20 cm x D 15 cm

Pump and Motors Assembly: L 71 cm x W 40 cm x H 25 cm

12V motor: Pulley PJ5, 12V relay, drive belt 923PJ5 or

24V motor: Pulley PJ5, 24V relay, drive belt 923PJ5 and

230V motor: Pulley PJ5, drive belt 758PJ5

Sea Water Pre-filter: H 39 cm x D 24 cm x W 31 cm

Standard 10 inch, 5 micron water filter

Membrane Assembly: L 70 cm x W 27 cm x H 12 cm

Power consumption:

High pressure pump/motor unit: 1.1 kW at 120 or 230 V AC (with 30 μ F Capacitor)
700W max at 12V or 24V DC

12V: 700W – 46A (a fuse holder with 63A motor fuse is supplied).

24V: 700W – 30A (A 40A starting curve circuit breaker is supplied)

120V: 9A continuous (32A starting). A 25A circuit breaker is supplied.

230V: 6.5A continuous (20A starting). A 16A 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 \varnothing 8mm – 8 m
- 2 pre-installed high pressure connectors and 2 to be fitted on installation (adapter supplied)
- Blue production hose \varnothing 8/10mm: 8m
- 1 spare pre-filter element (5 microns, 10 inch)

Cable:

Cable supplied: 2 x 6m of 3x1.5mm² for AC power supply to panel and AC motor feed

Cable required: 50mm² for the 12V or 35mm² 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