



DESSALATOR SPECIFICATION SHEET

FREEDOM 100 IN 12 / 24 V DC

Application:

The D100 can be operated with 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 50 cm x W 33 cm x H 22 cm
12V motor:	Pulley PJ5, 12V relay, drive belt 654PJ5
24V motor:	Pulley PJ5, 24V relay, drive belt 654PJ5
Sea Water Pre-filter:	H 39 cm x D 24 cm x L 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:	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)

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 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: 45 kg, boxed up: 62 kg