



DESSALATOR SPECIFICATION SHEET

FREEDOM 30 12 or 24 V DC

Application:

The D30 can be operated with DC power supplied from the engine alternator.

Options:

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

Size:

Horizontal Control Panel –remote control: L 32 cm x H 20 cm x D 15 cm

Pump and Motors Assembly: L 50 cm x D 30 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 10 cm x H 12 cm

Power consumption:

High pressure pump/motor unit: 550W max at 120, 230 or 400 V AC (with 20 μ F Capacitor)
550W max at 12V or 24V DC
12V: 550W – 32A (a fuse holder with 50A motor fuse is supplied).
24V: 550W – 18A (A 25A 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; one tube containing one 25.21 membrane, 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)
- 12V: Fuse holder with a 50A fuse
- or 24V: 25A circuit breaker

Cable:

Cable required: 35mm² for the 12V or 16 to 35mm² for the 24V (according to the distance)

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

Weight: 38 kg, boxed up: 52 kg