



HATENBOERWATER

Fresh in water since 1906.

Proteus RO type fresh water generators

Seawater desalination systems

Hatenboer-Water designs and develops durable reverse osmosis units for any type of vessel or offshore structure. Easy to install, operate and maintain, these solutions can be delivered in a customized or standard set-up.

Standard

The standard series offer a plug & play, economical and quickly supplied alternative to traditional solutions. Units can be rented out to your facilities for a short or longterm period.

Application

The Proteus series covers a range of 36-100 m³/day fresh water production on any sea. Proteus water treatment systems are highly suitable for ships and offshore installations such as jack-up rigs, offshore platforms, cruise ships, accommodations, cattle ships, ferries, AHTS and so on.



Standard features

- Touch screen Hatlenboer-Water X7 microcontroller
- Membrane configuration accommodating varying seawater salinity levels and temperatures
- 3 years free of charge 'log sheet data support'
- Continuous monitoring of permeate quality and automatic dump.
- X7-Controller for remote monitoring

Key specifications

Seawater TDS design	35000 ppm
Design seawater temperature	15°C
Produced water quality	< 500 ppm @ 25°C

Features

Capacity

Installed power HP pump

Seawater feed flow

Dimensions (LxWxH)

Weight (dry / operating)

DPS 80-2

36 m³ per day

11 kW

4.0 m³/h

1800x1500x

1800mm

800 kg / 1350 kg

DPS 80-3

55 m³ per day

11 kW

5.2 m³/h

1800x1650x

1800mm

1100 kg / 1900 kg

DPS 80-4

70 m³ per day

15 kW

7.0 m³/h

2800x1700x

1800mm

1150 kg / 2300 kg

DPS 80-6

100 m³ per day

18.5 kW

8.9 m³/h

2800x1700x

1800mm

1200 kg / 2450 kg



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Low maintenance

The Proteus RO series is equipped with:

- Large pre-filtration surface and multimedia filtration for increased performance
- Conservative membrane design with low loads to minimise fouling
- Automatic fresh flush system to prevent fouling in standby modus
- Chemical cleaning unit for cleaning fouled membranes
- Chemical conservation for membrane preservation in longterm offline modus.

Heavy duty design

- Box type ridged steel base frames for safe transport and easy installation
- Duplex stainless steel high pressure manifolds for long life time
- Slow running high pressure pump for long life time and minimal down time.

Optional features

The following components are available for the Proteus series:

- Automatic operation multimedia filter
- Seawater feed pre-heater (for seawater < 5°C)
- Hadex® disinfectant dosing unit for chlorination of RO permeate
- Neutralising filter for post-treatment RO permeate.

Standards and guidelines

Electrical

- IEC 61892-1 – 61892-7
- IEC 60092-350
- IEC 60092-351
- IEC 60092-353
- IEC 60228, class 2 & 5

NORSOK (optional)

- S-001
- P-001 § 5.2
- P-100 § 22
- P-002 § 27
- E-001

Directives and guidelines

- MLC, 2006
- WHO
- EC directives
- Machinery safety (2006/42/EC)
- EMC directive (2004/108/EC)
- Low voltage directive (2006/95/EC)
- Pressure equipment directive (97/23/EG)
- MODU CODE



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