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.

Oceanus RO type fresh water generators
Seawater desalination systems

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Application

The Oceanus series covers a range of 12-30 m³/day fresh water production on any sea.

Oceanus offers the perfect water treatment solution for ships and offshore installations such as jack-up rigs, offshore platforms, cruise ships, accommodations, fishing trawlers, ferries, AHTS as well as many others.

Standard features

- Robust relay-based control panel
- Membrane configuration can accommodate varying levels seawater salinities and temperatures
- 3 years free of charge 'log sheet data support'
- Continuous monitoring of permeate quality and automatic dump.

Key specifications

<table>
<thead>
<tr>
<th>Seawater TDS design</th>
<th>35000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design seawater temperature</td>
<td>15°C</td>
</tr>
<tr>
<td>Produced water quality</td>
<td>&lt; 500 ppm @ 25°C</td>
</tr>
</tbody>
</table>

Features

- **Capacity**
  - DOS 40-3: 12 m³ per day
  - DOS 40-4: 16 m³ per day
  - DOS 40-5: 21 m³ per day
  - DOS 40-6: 24 m³ per day
  - DOS 40-8: 30 m³ per day
- Installed power HP pump
  - DOS 40-3, 40-4, 40-5, 40-6: 5.5 kW
  - DOS 40-8: 7.5 kW
- Seawater feed flow
  - DOS 40-3, 40-4, 40-5, 40-6: 2.4 m³/h
  - DOS 40-8: 3 m³/h
- Dimensions (LxWxH)
  - DOS 40-3, 40-4, 40-5, 40-6: 800x750x1903mm
  - DOS 40-8: 1500x900x2000mm
- Weight (dry /operating)
  - DOS 40-3: 267 kg / 350 kg
  - DOS 40-4: 272 kg / 367 kg
  - DOS 40-5: 288 kg / 394 kg
  - DOS 40-6: 293 kg / 411 kg
  - DOS 40-8: 450 kg / 860 kg
Oceanus RO type fresh water generator
Seawater desalination systems

Low maintenance

The Oceanus RO series is equipped with:

- Automatically operated 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 Oceanus series:

- Seawater feed pre-heater (for sea water < 5°C)
- Hadex® disinfectant dosing unit for chlorination of RO permeate
- Neutralising filter for post-treatment: RO permeate
- Frame for multimedia filter and neutralising filter, enabling plug & play installation (except DOS 40-8).

Standards and guidelines

Electrical
- IEC 60204
- IEC 61439-1

Directives and guidelines
- MLC, 2006
- WHO
- EC directives