Oceanus 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.

**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.

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### Key specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>DOS 40-3</th>
<th>DOS 40-4</th>
<th>DOS 40-5</th>
<th>DOS 40-6</th>
<th>DOS 40-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>12 m³/day</td>
<td>16 m³/day</td>
<td>20 m³/day</td>
<td>24 m³/day</td>
<td>30 m³/day</td>
</tr>
<tr>
<td>Installed power HP pump</td>
<td>5.5 kW</td>
<td>5.5 kW</td>
<td>5.5 kW</td>
<td>5.5 kW</td>
<td>7.5 kW</td>
</tr>
<tr>
<td>Seawater feed flow</td>
<td>2.4 m³/h</td>
<td>2.4 m³/h</td>
<td>2.4 m³/h</td>
<td>2.4 m³/h</td>
<td>3 m³/h</td>
</tr>
<tr>
<td>Dimensions (LxWxH)</td>
<td>1000x800x1900mm</td>
<td>1000x800x1900mm</td>
<td>1000x800x1900mm</td>
<td>1000x800x1900mm</td>
<td>1500x900x2000mm</td>
</tr>
<tr>
<td>Weight (dry / operating)</td>
<td>336 kg / 508 kg</td>
<td>349 kg / 532 kg</td>
<td>362 kg / 556 kg</td>
<td>375 kg / 580 kg</td>
<td>450 kg / 860 kg</td>
</tr>
</tbody>
</table>

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

The Oceanus RO series is equipped with:

- Control panel with a Hatenboer-Water microcontroller and touch screen
- Membrane configuration can accommodate varying levels of seawater salinities and temperatures
- 3 years free of charge 'log sheet data support'
- Continuous monitoring of permeate quality and automatic dump.
- Automatically operated multimedia filtration for increased performance
- Automatic fresh flush system to prevent fouling in standby modus
- Chemical cleaning unit for cleaning fouled membranes

Heavy duty design

- Ridged steel base frames for safe transport and easy installation
- Duplex stainless steel high pressure manifolds for long life time
- High quality and high pressure pump for long life time and minimal down time.

Controller

Our water makers are equipped with our own X7 user friendly interfaces, for more comprehensive and easier system control.
- Operator interface (7"
- (Preventive) alarm and service notifications increase productivity and reduce maintenance time of the equipment
- Embedded RJ45 Ethernet port and standard MODBUS TCP/IP functionality
- Operational log data, settings and alarms can quickly be retrieved.

Optional features

The following components are available for the Oceanus series:

- Prefiltration by cyclone separator, for operation in shallow waters
- Seawater feed pre-heater (for seawater < 5°C)
- Hadex® disinfectant dosing unit for chlorination of RO permeate
- Neutralising filter for post-treatment of 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

Directives and guidelines

Directives and guidelines
- MLC, 2006
- WHO
- EC directives
- Machinery safety (2006/42/EC)
- EMC directive (2014/30/EC)
- Low voltage directive (2014/35/EU)
- MODU CODE