

Tethys

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 long-term period.

Application

The Tethys series covers a range of 3-6 m³ per day fresh water production from seawater with any level of salinity. Due to its robust yet compact format, Tethys provides the perfect solution for unmanned platforms, short sea or fishing vessels, patrol boats, tugs, barges and so on.



Standard equipment

- Touch screen Hatlenboer-Water X7-microcontroller
- Membrane configuration can accommodate varying levels seawater salinities and temperatures
- 3 years free of charge 'log sheet data support'
- Continuous monitoring of permeate quality
- X7-microcontroller for remote monitoring

Key specifications

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

| Features | DTS40-1 | DTS40-2 |
|------------------------------------|-------------------------------|--------------------------|
| Capacity | 3 m ³ per day | 6 m ³ per day |
| Installed power HP pump | 3 kW | 3 kW |
| Seawater feed flow (50 Hz / 60 Hz) | 0.78 / 0.96 m ³ /h | 0.96 m ³ /h |
| Dimensions (LxWxH) | 1266 x 645 x 860 mm | 1266 x 645 x 860 mm |
| Service space front/sides | 800 / 2 x 1000 mm | 800 / 2 x 1000 mm |
| Weight (dry / operating) | 150 / 170 kg | 163 / 195 kg |

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Modular

The Tethys RO series is set up modularly. Different options are available to suit your requirements:

- Multimedia filter (automatically operated)
- Clean in Place (CIP) system for extension of membrane lifespan
- Hadex® disinfectant dosing unit for chlorination of RO permeate
- Neutralizing filter for post-treatment RO permeate

Compact design

- Compact and robust ridged steel frame for 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

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

- MLC, 2006
- Machinery safety (2006/42/EC)
- EMC directive (2014/30/EU)
- Low voltage directive (2014/35/EU)

