



## Triton SWRO60

### Key Data

Product Flow	60 m <sup>3</sup> /h (265 GPM)
Recovery <sup>1</sup>	Up to 40 %
Rejection	Up to 99 %
Operating Water Temp.	10-40 °C (50 – 104 °F)
Electrical Efficiency <sup>1</sup>	<2.8 kWh/m <sup>3</sup>

<sup>1</sup> Subject to seawater TDF levels

### Overview

The world's newest and most efficient mobile seawater desalination system forms part of the fleet of mobile water treatment equipment from Ecolutia Services. Industrial and municipal customers trust our 24-hour, 365 days per year service for emergency, short-term or long-term use. The outsourced service assists in overcoming critical water issues, such as dealing with water scarcity, security of supply, treating raw water and reusing wastewater.

By providing greater flow but using less energy, the Triton SWRO60 has the world's largest fresh water production capability of any mobile containerised seawater reverse osmosis system. Available globally, the system provides fresh, potable and non-potable water supplies on flexible, open ended, service agreements.

To ensure maximum production capabilities around the world the materials of construction of the Triton SWRO60 system are of a superior manufacture and design. The system can treat from any brackish water borehole around the world through to the highest salinity seawaters of the Middle East, without compromising output. Such a wide treatment profile gives you added confidence in the robustness of the system and in the success of the project.

The system incorporates a two-train design providing a product flow of 60 m<sup>3</sup>/h (265 GPM), with an integrated energy recovery device. With an industry leading power efficiency of <2.8 kWh/m<sup>3</sup> this means you benefit from extra savings throughout the duration of the project. The Triton SWRO60 provides the flows you need whilst reducing your environmental footprint, energy and transportation costs.

### Typical Applications

- Emergency Relief during water shortages
- Seasonal or peak water consumption changes
- Temporary or long-term water treatment
- Potable/non-potable supplies for construction sites
- Full flow pilot plant testing and operations
- Field, landscape and golf course irrigation
- Plant commissioning water
- Pipe flushing

# System Features

- Capability for rapidly deployment to project site
- Potential to produce up to 60 m<sup>3</sup>/h (265 GPM) of fresh water within hours of arriving at location
- Integrated Energy Recovery Device for lower energy consumption
- Remote monitoring capability
- VFD controlled high pressure feed pumps
- Fully automated feed flush upon shut down
- Pre and post-treatment options from portfolio range
- Compact system within standard shipping container for transportation ease
- No civil works required

# Feedwater

Knowing the feedwater quality allows better appraisal of the project. The flexible design of the seawater system also allows operation on non-seawater high salinity waters.

### Typical waters treated

- Seawater: up to 45,000 TDS globally
- Non-Seawater: from 10,000 TDS globally, where a brackish water RO would not be as suitable

# Mobile Fleet

The Triton SWRO60 is part of a fleet of mobile water and wastewater treatment systems. By using the systems as modular building blocks, further treatment options are possible through use of our portfolio, which includes:

- **Atlas** – A 150 m<sup>3</sup>/h (660 GPM) MF system providing security against suspended solids breakthrough

# Operating Parameters

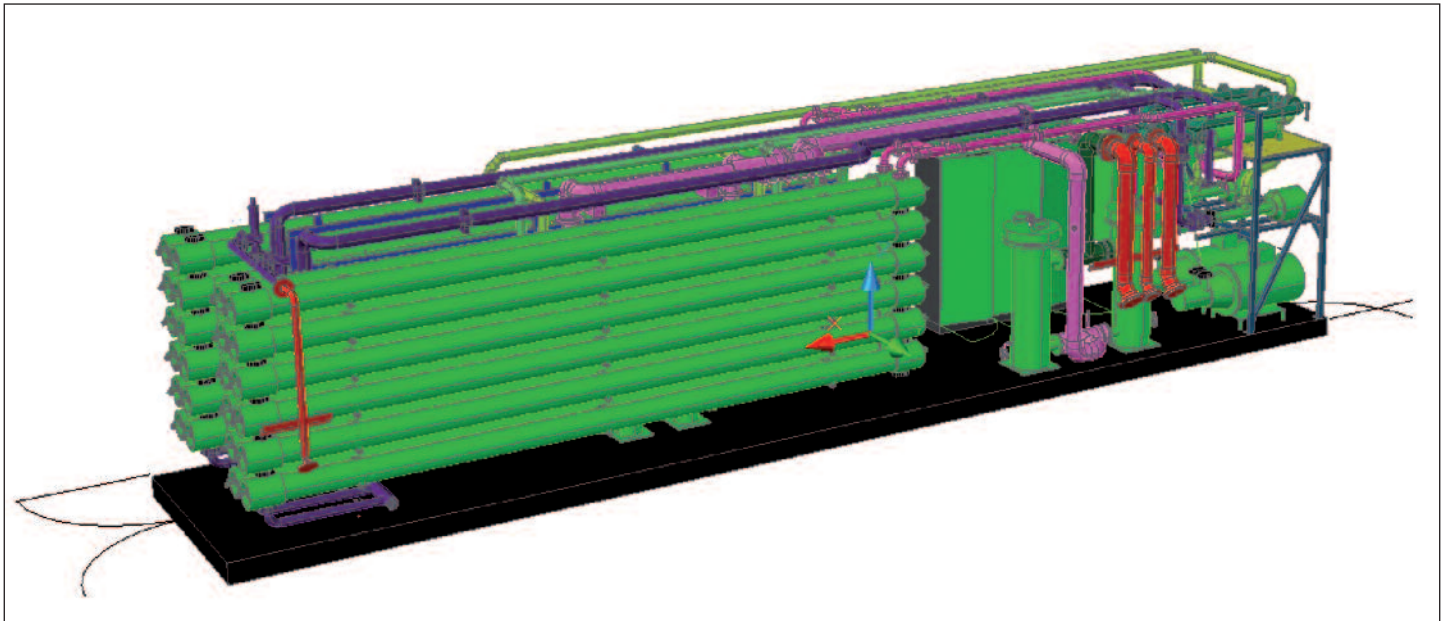
Length – Width - Height	12.2 - 2.5 - 2.9 m (40.0 - 8.0 - 9.6 ft)
Shipping Weight	20,000 kg (~44,000 lbs)
Operating Weight	22,000 kg (~48,500 lbs)
Min Inlet Pressure	5 bar (70 psi)
Max Inlet Pressure	7 bar (100 psi)
Feed Connector	DN 150 PN 16 (6")
Permeate Connector	DN 100 PN 16 (4")
Concentrate Connector	DN 150 PN 16 (6")
Power Requirements	380-460V, 50-60Hz, 370A
Installed kVA	244

- **Proteus Series** – Multi-media systems loaded for a range number of treatment options to produce up to 300 m<sup>3</sup>/h (1320 GPM)
- **Triton Series BWRO65** – A 65 m<sup>3</sup>/h (286 GPM) brackish water RO with integrated filtration tanks
- **Volturnus Series** – A 50 m<sup>3</sup>/h (220 GPM) EDI system with integrated softening and gas removal to purify water to ultra pure levels

# Service & Operation

Our systems are operated and maintained by our team of university graduate Field Service Engineers (FSEs). The team are fully trained and skilled in water treatment, plant operation and troubleshooting.

We are committed to the highest standards of customer service to meet your expectations. The FSEs have 24-hour technical back-up support, as well as our 'Project Execution Plan' which is our guide to project goals.



**For a secure treated water supply contact Ecolutia Services**