



# Triton

## Series **Fact Sheet**

**Triton** is a range of **Mobile Reverse Osmosis Water Treatment Systems** available alone, in parallel or in series with other systems from the **Ecolutia** Mobile fleet. The **Triton** range features the **Triton SWRO144** for seawater and the **Triton BWRO96** and **Triton BWRO180** for brackish water. The **Triton** Series offers a containerised solution that allows this system to be used wherever the need arises, no matter how remote.

### TRITON SWRO144

#### Triton SWRO144 Key Data

Product Flow	1.44 MLD
Recovery	up to 40-50%
Rejection	up to 99%
Max Operating Temp	40°C (104°F)
Electrical Efficiency	2.3 - 2.8 kWh/m <sup>3</sup>

Together these enable exceptional performance on a wide range of salinities. For example, the unit can operate from a brackish borehole at 15,000 TDS to the highest salinity sea water of the Middle East at 50,000 TDS.

All of the **Triton** Series are integrated with high levels of instrumentation, automation and SCADA systems for remote operation and data acquisition, thus guaranteeing the quality and volume of treated water.

This is supported by the provision of a university graduate Ecolutia Field Service Engineer (FSE) who will operate and maintain the equipment for you.

Flexibility and originality are both part of Ecolutia's philosophies, and both can be found in the way in which equipment can be positioned to achieve the optimum flow rate and desired water quality.

The **Triton SWRO144** seawater reverse osmosis unit can achieve a flow rate of up to 1.44 MLD, producing more fresh water than any other comparable single containerised mobile seawater reverse osmosis unit.

Incorporating an integrated energy recovery device, the **Triton SWRO144** can offer industry leading power efficiency for a mobile unit as low as 2.3kWh/m<sup>3</sup> of product water. Highly efficient VFD controlled high pressure pumps are equipped as standard to ensure global capability.

Offering maximum versatility the **Triton SWRO144** has a two train design combined with superior construction materials.



Some of the more typical applications of the **Triton SWRO144** are found below, but the list extends into many industry specific utilisations. Combine this with the options of configuring the **Triton SWRO144** for standalone use, in series or in parallel with other Ecolutia Mobile Water Treatment Systems and you have many design options for your project.

### Triton SWRO144 Typical Applications

- Drought relief and emergency water requirements
- Plant start up and commissioning
- Seasonal or peak water consumption changes
- Alternative water sources
- Temporary or long term water requirement
- Potable/non potable supplies for municipalities and construction sites
- Environmental compliance
- Mine dewatering
- Waste water reclamation
- Evap or tailings ponds



### Triton SWRO144 Key Data

Length	12.2m (40 ft)
Width	2.5m (8 ft)
Height	2.9m (9.6 ft)
Shipping Weight	20,000 kg (~44,100 lbs)
Max Operating Weight	21,000 kg (~46,300 lbs)
Max Inlet Pressure	7 bar (100 psi)
Feed Water Connection	DN 150 PN 16 (6")
Product Water Connection	DN 100 PN 16 (4")
Concentrate/Brine Connection	DN 150 PN 16 (6")
Power Requirements	380-460V, 50-60Hz, 370A

Ecolutia operates 24-hours, 365 days a year around the world. With a **superior** fleet set up for **swift deployment** and a **dedicated team** focused on meeting customer needs, Ecolutia can provide you with an **immediate, cost effective** and **superior mobile solution** for your water treatment needs. Whether you are interested in a **rapid response** service to deal with critical issues or you are more likely to deploy a **short or long term solution**, Ecolutia can provide you with the technology and the service that fits.

Speak to your sales representative or contact us at [www.ecolutia.com](http://www.ecolutia.com) to discuss your project's exact requirements and how Ecolutia can find the right service solution.