



Triton BWRO130

Key Data

Single-pass operation	130 m ³ /h (572 GPM)
Double-pass operation	51 m ³ /h (225 GPM)
Recovery ¹	Up to 80 %
Rejection	Up to 99 %
Operating Water Temp.	10 - 40 °C (50 – 104 °F)
Electrical Efficiency ¹	0.8 - 1.5 kWh/m ³

¹ Subject to feedwater TDS levels

Overview

Ecolutia Services operates the world's most efficient fleet of mobile water and wastewater treatment systems. 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.

The Triton BWRO130 is a containerised and skid mounted reverse osmosis (RO) system designed for customers requiring higher flows and greater operational flexibility. Each system has up to 156 membranes across two trains. The two trains have a 14 and 12 vessels configuration in order to give the RO

operational dexterity, in addition to the increased flow. This additional flexibility gives a wide production potential of 50 - 130 m³/h and permits optimal performance to meet your daily requirement. In single pass the system has three basic operating options from which the optimal project performance is selected.

- Single train operation
- Dual train operating in parallel
- A combination of one full train and one partial train

In single-pass the system can produce 130 m³/h (572 GPM) flow of treated water at 5-20 µS/cm and in double-pass operation 51 m³/h (225 GPM) at <5 µS/cm is achieved. To ensure optimal performance the system design includes on-line monitoring, chemical feed systems for scale control and the fail-safe shut-down features to ensure quality and quantity of water is maintained during operation.

Typical Applications

- Large scale short term projects
- Long-term water treatment project
- Full flow pilot plant testing and operations
- Seasonal or peak water consumption changes
- Improving ion exchange plant performance
- Plant commissioning water
- Power plant start-up
- Pipe flushing

System Features

- Up to 80% Recovery
- Flexible system array customised to specific feed and product water requirements
- Remote monitoring capability
- VFD controlled high pressure feed pumps
- Materials of construction ensure higher salinity water treated with ease
- Pre and post-treatment options from portfolio range

Feedwater

Knowledge of the feedwater allows appraisal of the project. The table below offers some guidance:

Typical waters treated

Potable, well, river, lake, reservoir, contaminated, partially treated, food process, industrial process, industrial wastewater, municipal, municipal wastewater

Mobile Fleet

The Triton BWRO130 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 Series** – A 150 m³/h (660 GPM) MF system providing security against suspended solids breakthrough
- **Proteus Series** – Multi-media systems loaded for a range number of treatment options to produce up to 300 m³/h (1320 GPM)

Operating Parameters

Length – Width - Height	12.2 - 2.5 - 2.9 m (40.0 - 8.0 - 9.6 ft)
Shipping Weight	22,000 kg (~48,500 lbs)
Operating Weight	24,000 kg (~53,000 lbs)
Min Inlet Pressure	4 bar (58 psi)
Max Inlet Pressure	7 bar (100 psi)
Feed Connector	DN 160 PN 16 (6")
Permeate Connector	DN 100 PN 16 (4")
Concentrate Connector	DN 80 PN 16 (3")
Power Requirements	380-460V, 50-60Hz, 300A
Installed kVA	180

- **Triton BWRO65** – A 65 m³/h (286 GPM) brackish water RO with integrated filtration tanks
- **Triton SWRO60** – A 60 m³/h (265 GPM) seawater RO, low energy consumption system
- **Volturnus Series** – A 50 m³/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