

WATER TREATMENT SYSTEMS

TRITON SERIES



SYSTEM INFORMATION

The Triton series of water treatment systems are pre-engineered for industrial applications requiring larger volumes of purified water with depth filtration and fast deployment.

The system is skid mounted containing multimedia filtration, activated carbon filtration and resin softening as part of the prefiltration circuit. The high pressure pump provides the pressure driving force to produce purified permeate product water from the reverse osmosis membranes which are arranged in series to achieve the required product flow rates.

The system is fully automated for start-up and shut-down with level control and system flush cycles. The control panel has a digital controller and display.

Each system is modified to client's requirements. The systems are individually tested in our workshop. All spares and parts are readily available.

The system design:

- Water temperature:*
5 - 35 °C
- Feed water TDS*
<1500 ppm
- Recovery:*
50 - 75%
- Operating pH*
3 - 10



Triton series benefits:

- Fully equipped, assembled & customizable
- Expandable & skid mounted
- Low operation & maintenance costs
- Easy maintenance & servicing
- 1-year limited mechanical warranty

Systems for higher flow rate are available as part of our

Modular Water Systems range -

Contact us for more information

These systems all include:

- 304 SS Frame
- UPVC LP piping, fittings and valves
- SS 304 HP piping, fittings and valves (*)
- Permeate, brine and recycle flow meters
- Pressure indicators
- Low pressure switch for pump protection
- TDS controller for quality monitoring
- Control cabinet - fully automatic
- CIP connections integrated

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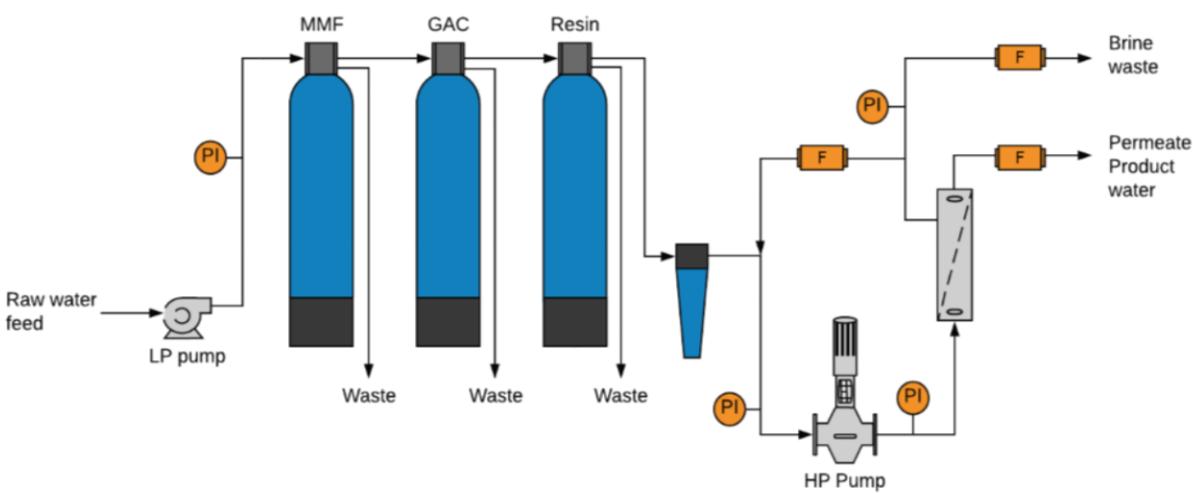
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SYSTEM SPECIFICATIONS

SERIES	UNITS	TRITON-750	TRITON-1000	TRITON-1250	TRITON-1500
MODEL		CT-BWRO-4040-3	CT-BWRO-4040-4	CT-BWRO-4040-5	CT-BWRO-4040-6
Nominal Permeate flow	L/h	~ 750	~ 1000	~ 1250	~ 1500
Low pressure Pump and Motor					
Pump pressure	bar	3	3	3	3
Motor power	kW	0.85	0.85	0.9	0.9
Wet contact material (*)	-	SS 304	SS 304	SS 304	SS 304
Pre-Treatment					
Filter vessel 1	-	AFM, 120 kg	AFM, 120 kg	AFM, 120 kg	AFM, 120 kg
Filter vessel 2	-	GAC, 50 kg	GAC, 50 kg	GAC, 50 kg	GAC, 50 kg
Filter vessel 3	-	Resin, 75 L	Resin, 75 L	Resin, 75 L	Resin, 75 L
Filter cartridge	micron	5	5	5	5
High pressure Pump and Motor					
Pump pressure	bar	15	15	15	15
Motor power	kW	3.4	3.6	4.2	4.5
Wet contact material (*)	-	SS 304	SS 304	SS 304	SS 304
Membranes Elements and Housings					
Membranes quantity	#	3 x 4040	4 x 4040	5 x 4040	6 x 4040
Membrane housing	#	3	4	5	6
General System					
Approx. dimensions (LxWxH)	cm	180 x 70 x 165			
Voltage	V	220 / 380	220 / 380	220 / 380	220 / 380
System cost (excl. VAT)	ZAR	R280 000 to R300 000	R310 000 to R320 000	R330 000 TO R340 000	R350 000 to R365 000

* Available in stainless steel 316 versions for brackish water applications of >1500 ppm TDS

The Triton series flow sheet:



Applicable costing depends on feed water analysis and level of pre-treatment required for each application. Variations from standard conditions are customized. Contact us for a quote.

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VALUE ADDED SERVICES



AMANZI
Quality Solutions



WATER QUALITY AND ANALYSIS

A complete water analysis is the first step towards understanding your water treatment requirements.

We have partnered with Amanzi Quality Solutions to ensure expert sample analysis, water quality assessments and continued monitoring of water sources.

AFTER SALES SERVICE CONTRACT

We offer after sales service contracts that can be tailored to client requirements. This typically includes regular site visits to inspect equipment and conduct cleaning cycles (CIP) on membranes. We also supply parts and consumables that are replaced as part of routine maintenance and care.

This service will ensure trouble free operation for many years.



PLANT OPTIMIZATION

We will gladly arrange a site visit and inspection of your current water system to advise on how to get the most out of your existing equipment.

Our engineers and technicians can assist to improve operation and maintain water quality.



STORAGE AND DISTRIBUTION

All treated water needs to be stored for periodic use.

We supply storage tanks and installations for distribution infrastructure to end-point supply.

ULTRAVIOLET (UV) DISINFECTION

Stored water experiences algal growth and micro-organisms over time. UV disinfection in storage tanks eliminates this problem as UV light destroys micro-organisms and disinfects water without chemical addition. We supply a range of UV systems to suit all kinds of storage.



END-POINT FILTRATION

Water can become contaminated either during storage or distribution.

We advise end-point filtration for all applications where the water will be used as drinking water. We supply a range of under the counter end-point filters.

CONTACT US TODAY FOR ALL YOUR WATER TREATMENT NEEDS