

BWRO PT

Containerized Brackish Water Media Filtration System

Description and Use

This specification defines the integrated design requirements for the BWRO PT line of containerized units for the Industrial, Power and Municipal markets.

GE Water & Process Technologies' Multimedia Filtration (MMF) containerized systems can be used to filter surface or well brackish water. They are ideal to filter reverse osmosis feed water, where the raw water has high turbidity or is of such quality that it could foul the RO.

Functional Description

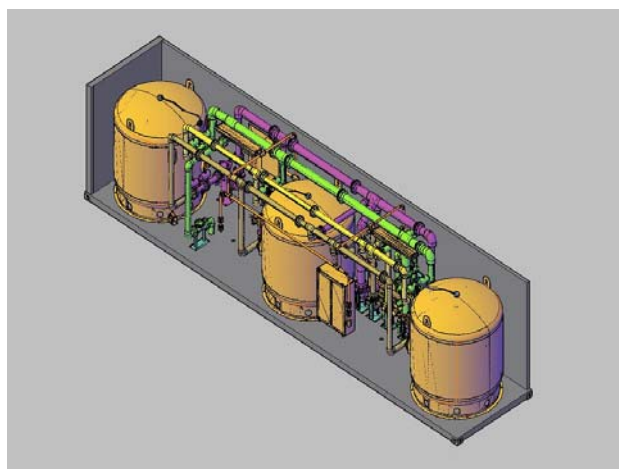
Single pass, three vertical pressure filters total. Each pressure vessel is designed to contain anthracite and sand media⁽¹⁾. System produces 4,906 m³/day (204 m³/hr, 900 gpm) of filtrate.

⁽¹⁾ Filtration media is not included within the container and has to be ordered separately.

Operating Parameters

- Water temperature.....34-99F (1-37°C)
- Feed Pressure.....70-100 psig (4.8-6.9 bar)
- Product Flow.....900gpm (204 m³/hr) max
- Max Feed Turbidity.....< 10 NTU
- Feed Loading Rate.....3-8 gpm/ft²
- BW Loading Rate.....5-6.5 gpm/ft²

Note: Required 4.8 bar (70 psi) minimum customer constant pressure to filter inlet. Temperatures will impact BW loading rates. Exceeding the feed turbidity/TSS limit will shorten run times.



Standard Components

- Container designed for oversea transportation
- Three 84-inch (213 cm) diameter pressure vessels, rated at 100 psig (6.9 bar)
- Three media trap bag filters vessels, rated at 100 psig (6.9 bar)
- Automatic butterfly valves for control of service/backwash sequences
- Instrumentation
- Power 480V/60Hz/3phase or 380V/50Hz/3phase



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Flow Meter	Raw water inlet (turbine, local reading) Backwash waste outlet (paddle wheel, transmitter)
Pressure	MMF feed and outlet Media trap vessels feed and outlet Local indication
Conductivity	Product water

Materials of Construction

Media Filter Vessels	Carbon steel, 100psig rated
Media trap Bag Filter Vessels	Rosedale
Piping	PVC, Schedule 80
Ball Valves	PVC with EPDM seats
Butterfly Valves	PVC with PP discs and EPDM seats

Physical Data

- Dimensions: 480" L x 96" W x 114" H
(12,192 mm L x 2,438 mm W x 2,896 mm H)
- Shipping weight: 60,000LBS (27,200kg)
- Operating weight: 100,000LBS (45,400kg)