

hydRO - BWRO Series



Brackish Water Reverse Osmosis Systems

50 and 60 Hz

Pre-Engineered Systems

- Robust and highly refined design
- Energy Efficient
- Simple, easy to operate & maintain
- Fast delivery
- Compact footprint
- Manufactured in USA at an ISO 9001:2008 certified facility
- Engineered for longevity

Applications

- Potable water
- Industrial process water supply
- Boiler feed water
- Demineralization pre-treatment
- Wastewater reuse and recycle
- Food & beverage
- Irrigation

System Performance

- Recovery 75-85%
- Design Feed TDS: Up to 3,000 mg/l
- Feed Water SDI: < 4.0
- Operating Pressure: 50 – 300 psi
- Operating Temperature: 33 -95° (1 -35°C)



Shown with optional features

Standard Features

- Stainless steel multistage pump
- Variable frequency drive (VFD)
- NEMA 4X control enclosure
- Ethernet connection capabilities
- FRP pressure vessels per ASME SEC X
- Schedule 80 PVC low pressure piping
- 316 stainless steel high pressure piping
- Flanged pipe interface connections
- Marine grade powder coated frame
- 316 stainless steel filter housing
- 5 micron sediment filters
- Automatic inlet isolation valve
- Pre and post flush
- Reject control valve
- CIP Cleaning connections
- Frequency Drive (VFD) offers operational flexibility

Instrumentation

- PLC controls with touch screen
- Permeate conductivity monitor
- Permeate flow meter
- Concentrate flow meter
- Filter housing inlet pressure gauge
- Filter housing outlet pressure gauge
- Reject pressure gauge
- Low pressure protection
- High pressure protection

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Optional Features/Configurations

- Nanofiltration configuration
- Containerization
- Custom frame materials
- HMI upgrade
- Data acquisition & logging
- Remote monitoring
- Product water out-of-spec dump
- Feed water out-of-spec dump
- Ancillary equipment interlock
- Product blend
- ORP monitor
- pH monitor
- Feed conductivity meter
- Turbidity monitor
- Temperature indicator
- Cleaning system
- Flow meter upgrade
- Chemical feed system control
- Spare parts package
- Complete customized solutions



Custom RO System

Other Services

- Pilot studies
- Commissioning
- Start up
- Training

Ancillary Equipment

- Storage tanks
- Multimedia filtration systems
- Activated carbon systems
- DI systems (EDI or IX)
- Feed pumps
- Softeners
- UV systems
- Ozone systems
- UF systems
- MBR

Contact: