

hydRO - SWRO Series



Seawater Water Reverse Osmosis Systems
60 Hz

Pre-Engineered Systems

- Fast delivery
- Economic and energy efficient design
- Flexible installation for various space requirements
- Manufactured in USA at an ISO 9001:2008 certified facility



Shown with
standard features

Applications

- Potable water
- Industrial process water supply
- Demineralization pre-treatment

System Performance

- Design Temperature: 25°C (77°F)
- Design Feed TDS: 35,000 – 45,000 mg/l
- SDI₁₅ < 3.0
- Minimum inlet pressure: 2 bar (30 psig)

Standard Features

- Modular design for flexible installation to meet various space requirements
- Centrifugal multi-stage pump with Variable Frequency Drive (VFD) offers operational flexibility
- Energy recovery device for energy cost savings
- ASME FRP pressure vessels
- Ethernet connectivity
- Schedule 80 PVC low pressure piping
- 316 stainless steel high pressure monitoring
- Marine grade powder coated carbon steel frame
- Automatic inlet/permeate/flushing valves
- NEMA 4X control enclosure
- MicroLogix 1100 with Magelis 5.7" Graphic Touch Screen Terminal
- FRP cartridge filter housing with 5 micron cartridge filter with string wound element
- Anti-scalant dosing pump and tank
- 316 SS CIP/Flushing pump with TEFC motor
- CIP/Flushing tank (HPDE)

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

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 systems



Custom RO System

Other Services

- Pilot studies
- Commissioning
- Start up
- Training

Contact: