

MPW's Multi-Pass RO design provides the ability to vary flow rate with changing influent water quality conditions and production-requirements.

MPW's Multi-Pass 300 Reverse Osmosis (RO) System provides onboard filtration and is a convenient production solution for removing dissolved solids, total organic carbon (TOC) and other colloidal contaminants. The system is operable in either single or double pass mode, with nominal flow rates of 300 and 150 GPM respectively. The system offers full automation, touch screen controls, flexibility and reliability to meet your specific flow rate and effluent water quality requirements. MPW's trained Field Service Technicians are available to assist with site evaluation, set-up, commissioning and operation.



Features

- Quick conversion to single pass or double pass operating mode
- Removes up to 99% of ionic contaminants, and organics over 200 molecular weight
- 24-hour remote monitoring and DAS to ensure water quality parameters are met
- PLC controlled chemical feed systems for de-chlorination, pre-filtration, scale inhibiting and pH control
- 24/7 Logistics Department for dependable order placement and delivery coordination
- Full system automation / touch screen controlled
- Onboard filtration



Typical Applications

- Total dissolved solids reduction
- Organic compound reduction
- Colloidal silica reduction
- Demineralizer system pre-treatment
- Water system outage support
- Environmental improvement and waste discharge reduction

System Features

DIMENSIONS

Trailer: (LxHxW) 47'x8.5'x13.5'
 Operating Weight 75,000 lbs

PRODUCT WATER

Single Pass Product, 45°F Up to 300 GPM
 Double Pass Product, 45°F Up to 150 GPM
 Recovery 1 pass up to 75%
 2 pass up to 90%
 Rejection Up to 99%

CONNECTIONS

Inlet / Product /Reject 4" camlock

REQUIREMENTS

Max. Water Temperature 110°F
 Min. Water Temperature 35°F
 Inlet Turbidity < 1 NTU
 SDI15 < 5
 Electrical 480v AC, 3-phase,
 272 FLA

INSTRUMENTATION

Inlet, Product and Reject Flow Meters
 pH and conductivity meters
 Touch Screen Panel PC and PLC for Real-Time
 SCADA and System Trending
 Digital Pressure Transducers
 Electrical Efficiency - VFD Controlled Pumps

Technical Specifications

