

ROFlex900 Mobile Reverse Osmosis Systems



The Marmon Industrial Water ROFlex is a Mobile Reverse Osmosis (RO) system in a containerized package designed to offer the highest flowrate in the marketplace. Using spiral wound elements, it is the most efficient way to reduce up to 99% of total dissolved solids (TDS), contaminants, and other impurities to supply purified water for various industrial processes. Each ROFlex unit can operate as a 900 gpm single-pass RO system or be quickly reconfigured as a 450 gpm two-pass RO. When matched with an ElectroFlex EDI unit, the duo can ultimately produce 350 gpm of high-purity water for your application without the need for regeneration chemicals.

System Advantages

- Operates in single pass mode OR double-pass mode
- 95-99% removal of suspended and dissolved solids using high-rejection TFC spiral wound membranes for enhanced separation performance
- Programmed electronic microprocessor offers seamless RO control
- Low energy membrane design reduces operational costs
- Compact footprint minimizes space requirements
- User-friendly configuration facilitates simpler operation and maintenance
- Pre-engineered for reliable performance and faster deployment
- Plug and play installation
- Safety features include high-pressure and low-pressure switches, emergency stop & automatic inlet shut-off valve



How the ROFlex900 Works

In the ROFlex process, untreated water is forced through a semi-permeable membrane at high pressure.

The membrane selectively permits water molecules to pass through while blocking contaminants, suspended solids, dissolved particles, and impurities. As a result, purified water is effectively separated from a concentrated brine or reject stream

ROFlex900 System Specifications

Operating Modes	900 gpm Single Pass 425 gpm Double Pass
Water Recovery	70-80%
Nominal TDS Removal	Single Pass - 97% Double Pass - 99%+
RO Trains	Two (2) x 50%
Prefilters	Two (2) x 50%
RO Booster Pumps	Two (2) x 50%
Dosing Points	Bisulfite, Antiscalant, Caustic, Spare/Biocide
Remote Monitoring	Available



Feedwater Specifications

Type	Well or Surface Water, SDI < 5
SDI	< 3 typical, < 5 max.
Turbidity	<0.5 typical, < 1 max.
TOC	< 5 ppm typical
Total chlorine	< 2 ppm
Hardness/Alkalinity	Below scaling limit in reject
pH	4-9
Cationic Polymer	None
CO2	2ppm
Aluminum	< 0.05 ppm dissolved
Iron	< 0.05 ppm
Manganese	< 0.05 ppm
Temperature	35-100F (Best performance 45-85F)

Benefits of the MIW Rental Solution

De-risk Your Operation

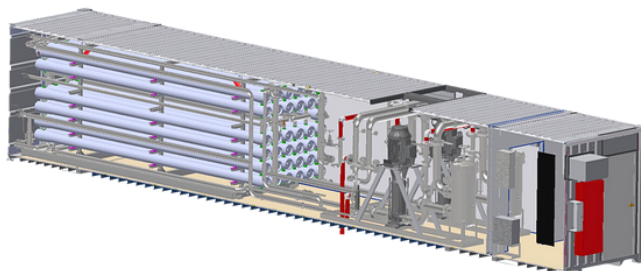
Our rental systems are designed as semi-permanent installations, with no need for trailer traffic. Plug and play solutions address today's regulatory and water-related risks. Mobile units allow you to immediately respond to emergency situations and better manage planned system maintenance and upgrades.

Performance + Simplicity

Marmon Industrial Water rental equipment provides access to the latest treatment technologies without the burden of ownership or a CAPEX investment, allowing you to focus on your core operations.

Flexibility

Short or long-term rental contracts depending on your needs, including options for our specialized service technicians to provide technical support, preventative maintenance, and ultimately full operation.



Connections / Utilities / Dimensions

Electrical	480 VAC, 3-Phase, 60 Hz
Service Rating	400 Amps (312 FLA)
Instrument Air	1/2", 90-125 psi, < 10 SCFM
Feed Water	8" Grooved, < 150 psi, ≤ 1200 gpm
Product Water	8" Grooved, < 85 psi, < 1000 gpm
RO Flush Inlet	3" Flange, < 85 psig
EDI Recovery In	2" Flange, < 150 psig, < 50 gpm
Waste Water	8" Grooved, < 85 psi, < 1000 gpm
Gravity Flows	Misc Floor Drains & Pressure Reliefs
CIP	3" & 4" Cam & Groove
Dimensions	53' L X 8'6" W X 9'6" H
Est. Operating Weight	67,000#
Est. Shipping Weight	40,000#

Contact Us

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