



## 1800 GPD Reverse Osmosis System

- Fully Equipped and Customizable
- Higher Recovery Rates
- Lower Energy Consumption
- High Flow Low-Energy Membranes
- Lower Maintenance
- Compact Space Saving Design
- Individually Wet Tested and Sanitized
- 1-Year Manufacturer's Warranty
- Made in the U.S.A.

**Reverse Osmosis Systems** feature an excellent pre-treatment design, high quality components and offer high performance. Marlo systems are designed for higher recovery rates and minimum energy consumption.

Experience greater savings with lower maintenance and operation costs when you install a **Reverse Osmosis System**.



# NRO-1800 Commercial Reverse Osmosis System

## Standard Features:

- **Membrane:** One 4" x 40" TFC HF1 Membrane – For maximum rejection of impurities and high flow.
- **Membrane Housing:** One 4" x 40" PVC Membrane Housing.
- **Pump:** One 1001 Fluid-O-Tech® 5.3 GPM Brass Rotary Vane Pump – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 3/4 HP Motor 110 or 220 Volt 50 or 60 Hertz.
- **Frame:** One Aluminum White Powder Coated Frame – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 20" 10 Micron Carbon Block – Removes Chlorine, odor, and taste from the feed water.
- **Filter Housing:** Two 4.5" x 20" Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 PSI Bottom Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One Low Pressure Switch – Safety device which protects the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4" Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Concentrate Recirculate:** One 1/4" Brass Needle Valve – This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back through the system.
- **Flow Meters:** One Product (0-2 GPM) & One Waste (0-5 GPM) Flow Meter – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Switch:** One Manual On and Off Switch
- **Easy Maintenance & Operation:** NECO reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.



## Optional Features:

- **Stainless Steel Pump:** Upgrade feed pump material from brass to 304 stainless steel.
- **Stainless Steel Housing:** One 4" x 40" Stainless Steel Membrane Housing 1/2" FNPT.
- **Fiberglass Housing:** One 4" x 40" Fiberglass Membrane Housing 1/2" FNPT.
- **High Pressure Switch:** One High Pressure Switch – Automatically starts the system when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Float Switch:** One Normally Closed Float Switch – For atmospheric storage tank applications.

### System Specifications

Model	MRO-1800-2.5	Design	Vertical
Gallons Per Day	1800 @ 77°F	Dimensions (Approx.)	19" x 23" x 46"
Auto-Flush	N/A	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	1	Motor HP	3/4
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"	Weight (Approx.)	100 lbs.

### System Operating Specifications

Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	3	Maximum Hardness	Softened
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	6
pH Range	3 - 11	Maximum Temperature	105 °F



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