NELSEN WATER SOLUTIONS Since 1954

NRO 2540 SERIES SYSTEMS

900-1800 Gallons per Day

NRO

Commercial Reverse Osmosis

The **NRO Commercial Series of Reverse Osmosis Systems** are custom built by Nelsen Corporation to your specifications. These commercial systems of unmatched value in quality and price give you a multitude of standard features that are optional on most other ROs!

NSF-grade high quality parts are used to build this tough system.

The NRO 2540 Series is designed for Commercial or Light Industrial applications requiring flow rates of 900-1800 gallons per day (GPD). The NRO 2540 Series features the durability of a powder coated steel frame, stainless steel pressure vessels, liquid filled panel mounted pressure gauges, and a rotary vane pump with a mounting bracket system that is easily removed for maintenance by one person.



Easy Motor Mount Bracket



Standard Procon Rotary Vane Pumps



Optional Multi-Stage Booster Pump



300 psi Stainless Steel Pressure Vessels



Permeate & Concentrate Flow Meters



Liquid Filled Panel Mounted Concentrate Pressure Gauge



Optional Control Box w/Low Pressure, Permeate TDS & Level Controls

NRO-22540-1800 (Shown with optional upgrades)

Free manual from WaterSoftenerPlus Manuals - watersoftenerplus.com/manuals
Shop water softeners, filters & RO systems - watersoftenerplus.com

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SYSTEM FEATURES & OPTIONS

Additional system features include:

- **Carbon Steel Frame** for strength & rigidity
- **Powder Coated Frame** for long life & durability
- **Extended Frame Legs** with plastic end caps for protection from ground contact and ease of movement
- **Replaceable Motor Mounting System** - makes field repairs easy, bracket mounts to motor and slides over frame
- **Quick Connect Fittings** on rotary vane pumps
- **Replaceable Quick Connect Fittings** for ease of field repairs
- **Quick Connect Fittings** on gauges & recycle operation for ease of service
- **Brass or Stainless Steel** inlet shut off valve
- **High Flow TFC Low Pressure Membranes** - additional element types & ratings available
- **High Quality Stainless Steel** membrane housings
- **Integrated Recycle Valve**
- **Low Pressure Mechanical Switch** w/time delay snubber valve
- **Permeate and Concentrate Flow Meters**
- **Liquid Filled Gauges** for accurate & steady pressure readings
- **Panel Mounted Concentrate Pressure Gauge**
- **Optional Stainless Steel High Pressure Centrifugal Pump** for Lasting Performance (1800 GPD Only)
- **Pump Throttle Valve** & pipe mounted discharge pressure gauge for multi-stage booster pumps
- **Float Switch & Pretreatment Interlocks** - standard on all systems
- **High Flow 5 Micron Front Mounted Prefilter** for ease of service

Optional NRO Series Upgrades:

- **Digital Display Electronic Control Box** with permeate TDS display, low pressure auto reset
- **Private Labeling Available**
- **Custom Photo Quality Controller Graphics Available** (min order quantity required)
- **Interval Fast Flush**
- **Permeate Flush**
- **Custom Operational Programs** at no cost
- **Second TDS Function** for feed water
- **Additional Panel Mounted Gauges** customer specified
- **Pre & Post Filter Gauges**
- **Manual/Auto Flush Valve**
- **Interstage Gauges**
- **Bladder Tank Control** available to provide pressurized storage
- **Wall Mount Frame**



NRO-22540-1800-WM
(Shown with optional upgrades)

Nelsen Corporation has many years of technical experience and service expertise ready to help optimize the performance of your system or build a system to your specific needs!

Nelsen Commercial Reverse Osmosis System Specifications

Model Type	Floor Stand	Floor Stand	Wall Mount	Wall Mount
Model Number:	**NRO-F-12540S-900-1-XXXXX**	**NRO-F-22540S-1800-1-XXXXX**	**NRO-W-12540S-900-1-XXXXX**	**NRO-W-22540S-1800-1-XXXXX**
Production GPD***	900	1800	900	1800
Membrane	2-1/2" x 40" (1)	2-1/2" x 40" (2)	2-1/2" x 40" (1)	2-1/2" x 40" (2)
Permeate GPM	.62 GPM	1.25 GPM	.62 GPM	1.25 GPM
Feed GPM**	1.7	3	1.7	3
% Recovery w/Recycle	19-40%	30-60%	19-40%	30-60%
Pump	1/2 HP	3/4 HP	1/2 HP	3/4 HP
FLA 60HZ 1Ø 110/220	7.1/3.4	10/5.0	7.1/3.4	10/5.0
Circuit Size	20/10A	20/10A	20/10A	20/10A
Solenoid Voltage	110v	110v	110v	110v
Inlet	3/4"	3/4"	3/4"	3/4"
Permeate	3/8"	3/8"	3/8"	3/8"
Concentrate	3/8"	3/8"	3/8"	3/8"
Shipping Dims (DxWxH)	34"x25½"x58"	34"x25½"x58"	48"x40¾"x29¼"	48"x40¾"x29¼"
Weight - Pounds	104 lbs.	118 lbs.	106 lbs.	120 lbs.

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Part # NRO-2540-LIT

** Minimum pressure of 35psi dynamic
*** The stated product performance is based on data taken after 30 minutes of operation at the following test conditions: 2,000 mg/L NaCl solution at 150 psig (1.5 MPa) applied pressure, 15% recovery, 77° F (25° C), pH 6.5–7.0

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