

## **NRO 2540 SERIES SYSTEMS**

900-1800 Gallons per Day

# **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 Control Box

w/Low



Optional Multi-Stage Booster Pump



300 psi Stainless Steel Pressure Vessels



Permeate & Concentrate Flow Meters





Liquid Filled Panel Mounted Concentrate Pressure Gauge

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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



- 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.