

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. All **Nelsen NRO 2540 Commercial Systems** are wet tested to optimum pressure and production prior to shipment.

The NRO 2540 Series is designed for Commercial or Light Industrial applications requiring flow rates of 700-1400 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 Stainless Steel 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-22540-1400
(Shown with optional upgrades)

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 (1400 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-22540-1400-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-700-1 | NRO-F-22540S-1400-1 | NRO-W-12540S-700-1 | NRO-W-22540S-1400-1 |
| Production GPD | 700 | 1400 | 700 | 1400 |
| 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** | .48 GPM | .97 GPM | .48 GPM | .97 GPM |
| Feed GPM | 1.7 | 2 | 1.7 | 2 |
| % Recovery w/Recycle | 19-40% | 30-60% | 19-40% | 30-60% |
| Pump | .5 HP | .75 HP | .5 HP | .75 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. |