

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 Commercial Systems** are wet tested to optimum pressure and production prior to shipment.

The **NRO 440 Series** is designed for Commercial or Light Industrial applications requiring flow rates of 1.1-6.9 gallons per minute (GPM). The **NRO 440 Series** features the durability of a powder coated steel frame, an optional complete performance monitoring package, and simple system integration.



Easy Motor Mount Bracket



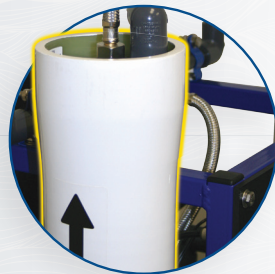
Stainless Steel Multi Stage Booster Pumps



Permeate & Concentrate Flow Meters



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



Gloss 300 psi FRP Membrane Housings, Stainless Steel Also Available



Liquid Filled Panel Mounted Concentrate Pressure Gauge



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
- **True Union Couplings** on inlet & outlet of motor
No plumbing disassembly required for change out
- **Stainless Braided Hoses** for protection against corrosion, leaks & fraying
- **Replaceable Schedule 80 PVC** 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 Gloss 300 psi FRP Housings** - *stainless housings available at no additional cost*
- **Integrated Recycle Valve**
- **Low Pressure Mechanical Switch** w/time delay snubber valve
- **Permeate & Concentrate Flow Meters**
- **Liquid Filled Gauges** for accurate & steady pressure readings
- **Panel Mounted Concentrate Pressure Gauge**
- **Stainless Steel High Pressure Centrifugal Pump** for lasting performance
- **Pump Throttle Valve** & pipe mounted discharge pressure gauge
- **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)
- **Upgrade Control Box** for interval fast flush
- **Upgrade Control Box** for 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**



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:	NRO-F-1440F-1600-3	NRO-F-2440F-3200-3	NRO-F-3440F-4800-3	NRO-F-4440F-6400-3	NRO-F-5440F-8000-2	NRO-F-6440F-10000-2
Production GPD****	1600	3200	4800	6400	8000	10,000
Membrane	4 X 40 (1)	4 X 40 (2)	4 X 40 (3)	4 X 40 (4)	4 X 40 (5)	4 X 40 (6)
Permeate GPM	1.11	2.2	3.3	4.5	5.7	6.9
Feed GPM*	6.0	7.0	8.0	9.0	10.0	11.0
% Recovery w/Recycle	19%-30%	50%-75%	50%-75%	50%-75%	50%-75%	50%-75%
Pump	1 HP	1 HP	1.5 HP	1.5 HP	3 HP	3 HP
FLA 60HZ 1Ø 220	19.2/9.6	19.2/9.6	*/12	*/12	*/15	*/15
Circuit Size	20/15A	20/15A	15A	15A	20A	20A
Inlet	3/4"	3/4"	3/4"	3/4"	1" Big Blue®	1" Big Blue®
Permeate	1/2"	1/2"	1/2"	1/2"	1"	1"
Concentrate	1/2"	1/2"	1/2"	1/2"	1"	1"
Shipping Dims	34"x34½"x58½"	34"x34½"x58½"	34"x34½"x58½"	34"x34½"x58½"	34"x34½"x58½"	34"x34½"x58½"
Weight - Pounds	124 lbs.	149 lbs.	158 lbs.	169 lbs.	211 lbs.	224 lbs.
Max Operating Pressure	160 psi	160 psi	160 psi	160 psi	160 psi	160 psi