

Nelsen Commercial NRO 440 Series Systems

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, and are delivered with individual quality assurance reports to show actual performance data on outputs and rejections.

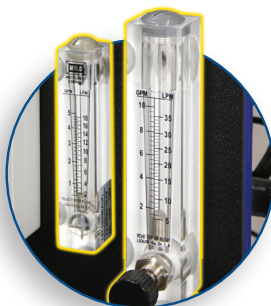
The **NRO 440 Series** is designed for Commercial or Light Industrial applications requiring flow rates of 0.17-6.9 gallons per minute (GPM). The **NRO 440 Series** features the durability of a powder coated steel frame, a complete performance monitoring package, and simple system integration.



Easy Motor Mount Bracket



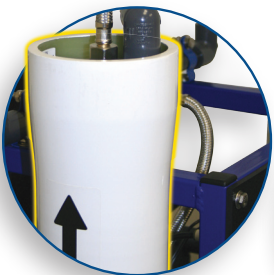
Stainless Steel Multi Stage Booster Pumps



Permeate & Concentrate Flow Meters



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



Gloss 300 psi FRP Housings, Stainless Available at No Additional Cost



Liquid Filled Panel Mounted Concentrate Pressure Gauge



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
- **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 And 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-1440-1600	NRO-2440-3200	NRO-3440-4800	NRO-4440-6400	NRO-5440-8000	NRO-6440-10000
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 110/220	19.2/9.6	19.2/9.6	24/12	24/12	*/15	*/15
FLA 60HZ 3Ø 230/460	**	**	**	**	**	**
Circuit Size	25/15A	25/15A	30/15A	30/15A	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"
Unit Dims (DxWxH)	27¼"x25"x54¾"	27¼"x25"x54¾"	27¼"x25"x54¾"	27¼"x25"x54¾"	32½"x25"x56½"	32½"x25"x56½"
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.

* - 110 Volt Not Available ** - Consult Factory *** 77° at a minimum pressure of 20PSI