

# NRO

Light Commercial RO Systems

## System Features Include

- High Flow TFC Low Pressure Membranes
- White Powder-Coated Steel Frame - Can be floor or wall mounted
- 2.5" x 20" 5-Micron Sediment Pre-Filter
- MatriX 2.5" x 20" CTO Carbon Block Filters - for Chlorine, Taste, Odor, & Chloramine Reduction
- 12" In-Line GAC Post Filter
- Automatic Shut-Off Valve
- John Guest Push-fit Tube Fittings w/Locking Clips
- John Guest Color-coded (LLDPE) Linear Low-Density Polyethylene Tubing
- Pentair Filter Housings w/Pressure Release Valves
- Aquatec High-Flow Booster Pumps - diaphragm (membrane) pumps - Standard on 500 & 750 models, available on 200 & 350 where line pressure is not sufficient.
- Lightweight Compact Design
- 5 Stage Contaminate Removal
- Easy Access Filters for Quick Change Outs

The **NRO LC-Series** is designed to deliver quality and performance without compromise. This series includes all the essential components necessary to produce quality RO Water in a trouble-free and cost-effective package. The Light Commercial Reverse Osmosis System, an efficient and reliable solution designed to meet the water purification needs of small to medium-sized applications.

This system utilizes membrane technology to effectively remove up to 99% of contaminants, including dissolved solids, chlorine, and harmful

bacteria, ensuring crystal-clear, high-quality water. With a robust yet compact design, it seamlessly integrates into a variety of commercial settings, from restaurants and cafes to offices and laboratories. The system features low maintenance requirements, and energy-efficient operation, making it a cost-effective choice for businesses seeking sustainable and dependable water filtration. Experience the perfect blend of performance and convenience with our Light Commercial Reverse Osmosis System.



**NRO-LC200**

200 GPD Line Pressure System



**NRO-LC350**

350 GPD Line Pressure System



**NRO-LC500**

500 GPD Booster Pump System



**NRO-LC750**

750 GPD Booster Pump System



# LC-SERIES SYSTEM SPECIFICATIONS

200-750 Gallons per Day

MODEL	NRO-TLC-200	NRO-TLC-350	NRO-TLC-500	NRO-TLC-750
Production*	200 GPD	350 GPD	500 GPD	750 GPD
Configuration	SINGLE PASS			
Feedwater Source (ppm)**	TDS <1000			
Standard Recovery Rate %	25	50	50	50
<b>FLOW RATES (GPM)</b>				
Permeate	0.13	0.25	0.35	0.53
Concentrate	0.41	0.2	0.35	0.53
Maximum Feed Flow	8	8	8	8
<b>CONNECTIONS (INCHES)</b>				
Feed	3/8" Quick Connect			
Permeate	3/8" Quick Connect			
Concentrate	1/4" Quick Connect			
<b>MEMBRANES</b>				
Membrane Quantity	2	1	1	2
Membrane Size	1.8 x 12	3 x 12	3 x 12	3 x 12
Nominal TDS Rejection %	98	98	98	98
<b>VESSELS</b>				
Vessel Array	1:1	1	1	1:1
Vessel Quantity	2	1	1	2
<b>SYSTEM DIMENSIONS</b>				
L x W x H (inches)	18 x 13 x 35		18 x 13 x 38	
Weight (lbs)	29		32	
<b>OPERATING LIMITS</b>				
Maximum Feed Temp (F)	85			
Minimum Feed Temp (F)	40			
Maximum Feed Pressure (psi)	85			
Minimum Feed Pressure (psi)	40			
Booster Pump	Aquatec 5300			
System Electrical	6.7a, 100-240 VAC in, 24 VDC out			

Recommended Feed Water Quality	
Hardness	<1 grain
Free Chlorine	0 ppm
T.D.S.*	<1000 ppm
Turbidity SDI	<5
Ph	3-11
Iron	<0.01 ppm
Silica	<1 ppm
Hydrogen Sulfide	0 ppm
Manganese	<0.05 ppm
Organics	<1 ppm
Flowing Pressure	35 - 60 psi
Temperature	40°F - 80°F
	8°C - 27°C

\*If TDS exceeds 2000 ppm, consult factory.

\* The stated product performance is based on data taken after 30 minutes of operation at the following test conditions: 250 mg/L NaCl solution at 60 psig ( .41 MPa) applied pressure, 15% recovery, 77° F (25° C), pH 6.5-7.0

\*\* Temperature and Feedwater quality, such as high TDS levels will significantly affect the systems production capabilities and performance.



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