

# Neo-Pure® RO-4300RX

## High Efficiency Reverse Osmosis

## Drinking Water System



Because the performance of an R.O. Membrane is highly dependent upon pressure, temperature, pH and TDS, the following should be used for comparison purposes only.

QUALIFIED PERFORMANCE		
Performance	U.S.	Metric
Membrane Production <sup>1</sup>	41-53 gpd	155-201 lpd
Membrane TDS Reduction <sup>1</sup>	96% Minimum	96% Minimum
System Production <sup>2</sup>	14 gpd	53 lpd
Recovery Rating <sup>2</sup>	38%	38%
Efficiency Rating <sup>2</sup>	22%	22%
TDS Reduction <sup>2</sup>	90%+ Typical	90%+ Typical
Drain (Reject Water) Flow	3–5 x product Flow	Metric
Empty Storage Tank Precharge	5–7 psig Air	35–48 kPa Air
Performance	1.8 Gallons	6.8 Liters

1 Industry standards measure R.O. Membranes performance with no back pressure on the product water, at 65 psig (448kPa) and 77°F (25°C). Further conditions on the above are 250 ppm TDS. Production rate and TDS reduction figures are for a new Membrane that has been rinsed for 24 hours. The production rate of a new Membrane can decrease by 10% per year or more, depending upon the scaling and fouling tendencies of the Feed Water.

2 Measured at 50 psig, 77°±2° F, 750±40 mg/l TDS per section 6 of NSF/ANSI Standard 58. Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed. Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage. This reverse osmosis system contains a replaceable component critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.

RECOMMENDED OPERATING LIMITS FOR FEED WATER	
Specifications	RO-4300RX Membrane
Water Pressure	40–100 psig (280–690 kPa)
TDS	2000 ppm (also mg/l) max.
Temperature	40–100 °F (4–38 °C)
pH	4–11 (Optimum Rejection At pH 7.0 - 7.5)
Hardness	Less Than 10 gpg (170 mg/l) Or Soften
Iron	Less Than 0.1 ppm (Also mg/l)
Manganese	Less Than 0.05 ppm (Also mg/l)
Hydrogen Sulfide	None
Chlorine	See Note
Bacteria	Must Be Potable**

NOTE: If Chlorine will damage a T.F.C. Membrane. The Sediment/Carbon Pre-Filter has been designed to reduce chlorine from the incoming water. Change filter every 6 months, more often if the water contains more than 1 ppm chlorine.

\*\*DO NOT USE WITH WATER THAT IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY, WITHOUT ADEQUATE DISINFECTION BEFORE OR AFTER THE SYSTEM.

## MAJOR SYSTEM COMPONENTS

The following components comprise the R.O. Drinking Water System.

- An R.O. Manifold assembly.
- Housings and Housing O-rings.
- A Drinking Water Holding Tank.
- A Dispensing Faucet.
- A Feed Water Adapter Valve.
- A Drain Clamp.
- Plastic Tubing and tube connectors.
- A Reverse Osmosis Membrane sealed in a plastic bag.
- A Sediment/Carbon Pre-Filter, shrink wrapped.
- An Activated Carbon Post-Filter, shrink wrapped.
- R.O. System Cover with or without optional Water Quality Monitor.
- Other items necessary for installation but not included with basic installation kit, may include wood screws or machine screws and nuts for mounting the manifold, or concrete anchors for hanging on basement wall. Additional tubing or tube connectors. Plastic wire ties for organizing tubing.

## TOOLS RECOMMENDED FOR INSTALLATION

The following tools will cover most of the installation sites encountered:

### Mounting Faucet:

1. 3/8" variable speed electric drill.
2. 1¼" porcelain hole cutter kit.
3. 1¼" Greenlee hole punch and 1/8" and ½" metal drill bits for pilot hole.
4. Center punch and hammer.
5. 1¼" wood bit.
6. Safety glasses.
7. Basin wrench or 10" pipe wrench.
8. Wide masking tape or duct tape.

### Assembling R.O. System:

9. Phillips head and flat blade screwdrivers.
10. ½", 9/16" and 5/8" open end wrenches.
11. Teflon tape.
12. Plastic tubing cutter.
13. Extra plastic tubing.
14. Low range air pressure gauge.
15. Bicycle hand air pump.
16. Paper towels, wisk broom and assorted clean up materials.

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