

HRO 3.5 Series Reverse Osmosis Systems

HRO 3.5-Series Reverse Osmosis Systems are manufactured for light commercial applications and feature a compact wall mount space-saving design. The HRO 3.5-Series come pre-assembled and ready for immediate on-line service with minimal set up and simple utility connections.

HRO 3.5-Series Reverse Osmosis Systems have been engineered for capacities of 200 and 300 gallons per day and feature a single pump design for enhanced performance.

Features

- 5 Micron Sediment Pre-Filter
- 10 Micron Carbon Block Pre-Filter and Post-Filter
- Pentek® 10" Filter Housings
- HF4 Extra Low Energy Membrane
- Fiberglass Membrane Housing
- 0 – 300 psi Glycerin-Filled Pump Pressure Gauge
- 0 – 100 psi Glycerin-Filled Pre-Filter Pressure Gauge
- 0 – 100 psi Glycerin-Filled Permeate Pressure Gauge
- John Guest® Push/Pull Fittings with Locking Safety Clips
- Aquatec® High Flow Booster Pump
- Aquatec® Tank Pressure Switch
- Aquatec® Feed Solenoid Valve
- Aquatec® Auto Flush Timer Valve

Options and Upgrades

- 10" and 20" Floor Stands
- Product Water Storage Tanks
- HF5 Ultra Low Energy Membrane (For Cold Water Applications)
- Stainless Steel Membrane Housing
- HM Digital® DM-2 TDS Meter
- Pentek® 20" Filter Housings



HRO 3.5-300
Wall Mount
Reverse Osmosis System



HRO 3.5-300
Reverse Osmosis System
with Optional 20" Stand
and 20" Filter Housings

Engineered Water Treatment Solutions



HRO 3.5 Series Reverse Osmosis Systems

| PRODUCT SPECIFICATIONS | | |
|---------------------------------|----------------------------------|----------------------------------|
| | HRO 3.5-200 | HRO 3.5-300 |
| Design | | |
| Configuration | Single Pass | Single Pass |
| Feed Water Source (ppm) | TDS <1000 | TDS <1000 |
| Standard Recovery* | 40% | 50% |
| Rejection and Flow Rates | | |
| Nominal Salt Rejection | 98.5% | 98.5% |
| Permeate Flow* (gpm / lpm) | 0.14 / 0.53 | 0.21 / 0.79 |
| Concentrate Flow (gpm / lpm) | 0.21 / 0.79 | 0.21 / 0.79 |
| Connections | | |
| Feed (in) | 3/8 Tube | 3/8 Tube |
| Permeate (in) | 3/8 Tube | 3/8 Tube |
| Concentrate (in) | 3/8 Tube | 3/8 Tube |
| Membranes | | |
| Membrane Per Vessel | 1 | 1 |
| Membrane Quantity | 1 | 1 |
| Membrane Size | 2514 | 2521 |
| Vessels | | |
| Vessel Array | 1 | 1 |
| Vessel Quantity | 1 | 1 |
| Pumps | | |
| Pump Type | Aquatec 8800 | Aquatec 5800 |
| Electrical | | |
| Standard Voltage | 110V, 60Hz, 1Ph, 1.0A | 110V, 60Hz, 1Ph 1.0A |
| Voltage Options | 220V, 50Hz, 1Ph, 0.5A | 220V, 50Hz, 1Ph, 0.5A |
| System Dimensions | | |
| L x W x H (in / cm) | 9 x 20 x 19 / 22.9 x 50.8 x 48.3 | 9 x 27 x 19 / 22.9 x 68.6 x 48.3 |
| Weight (lb / kg) | 42 / 19.1 | 50 / 22.7 |

* Product flow and recovery rates are based on feedwater conditions of 550 TDS at 77°F at 100 psi. Treatment ability of the RO system is dependent on feedwater quality. Higher TDS and/or lower temperatures will reduce product flow. Performance projections should be run for each installation.

Operating Limits

| | | | |
|-----------------------------|-------|----------------------------|-------|
| Design Temperature | 77°F | Max. Turbidity NTU ^ | 1 |
| Max. Feed Temperature | 85°F | Max. Free Chlorine ppm | 0 |
| Min. Feed Temperature | 40°F | Max. TDS ppm | 1,000 |
| Max. Ambient Temperature | 120°F | Max. Hardness GPG ^^ | 1 |
| Min. Ambient Temperature | 40°F | Max. pH (Continuous) | 11 |
| Max. Feed Pressure psi | 85 | Min. pH (Continuous) | 3 |
| Min. Feed Pressure psi | 45 | Max. pH (Cleaning 30 Min.) | 12 |
| Max. Operating Pressure psi | 120 | Min. pH (Cleaning 30 Min.) | 2 |
| Max. SDI Rating | <3 | | |

Test Parameters: Static pressure tested.

^Appropriate filtration must be installed in order to prevent premature membrane fouling.

^^Scale prevention measures must be taken to prolong membrane life.



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