

# HRO 3 2000 Series Reverse Osmosis System



## **HRO 3-2000 S/G Series** Reverse Osmosis System

- Fully Equipped and Customizable
- Higher Recovery Rates
- Lower Energy Consumption
- High Flow Low-Energy Membranes
- Lower Maintenance
- Compact Space Saving Design
- Individually Wet Tested and Sanitized
- 1-Year Limited Warranty
- Made in the U.S.A.

**HRO 3-2000 S/G Reverse Osmosis Systems** feature an excellent pretreatment design, high quality components and offer high performance. HRO 3 systems are designed for higher recovery rates and minimum energy consumption.

Experience greater savings with lower maintenance and operation costs when you install a HRO 3 Reverse Osmosis System.



*The Ultra Water Treatment Solution*

# HRO 3-2000 Reverse Osmosis System

## Standard Features:

- **Membrane:** Three 2.5" x 40" TFC Extra Low Energy Membranes – For maximum rejection of impurities and high flow. (PN: 107613)
- **Membrane Housing:** Three 2.5" x 40" Membrane Housings – Feature a patented design and require no tools when servicing.
- **Pump:** One 5.3 GPM NSF Approved Brass Rotary Vane Pump – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 3/4 HP Motor 110 or 220 Volt 50 or 60 Hertz CSA and RU (UL recognized).
- **Frame:** One Aluminum White Powder Coated Frame – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" 5 Micron Polypropylene Filter – Removes sediments and protects the system. (PN: 107569)
- **Carbon Block:** One 4.5" x 20" 10 Micron Carbon Block – Removes Chlorine, odors, and taste. (PN:107440)
- **Filter Housing:** Two 4.5" x 20" Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 PSI Bottom Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One Low Pressure Switch – Safety device which protects the pump from running dry when there is insufficient feed water pressure.
- **Feed Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz UL Approved – Assists with the on/off functionality of the system.
- **Product Flow Meter:** 0-2 GPM Flow Meter – For monitoring the system's product flow.
- **Concentrate Flow Meter:** 0-5 GPM Flow Meter – For monitoring the system's concentrate flow.
- **Concentrate Valve:** One 1/4" Stainless Steel Needle Valve – Regulates the system's recovery (product to waste ratio).
- **Concentrate Recirculation:** One 1/4" Stainless Steel Needle Valve with 0-2 GPM Flow Meter – For optimum system recovery and performance.
- **Product Water Quality Meter:** Panel Mount TDS Meter (G SERIES ONLY) For monitoring the system's product water quality
- **Switch:** One Manual On and Off Switch
- **Easy Maintenance & Operation:** HRO 3 reverse osmosis systems feature a compact design, are pre-plumbed, pre-wired, and have all their components strategically located for easy access and inspection.

## System Specifications:

Model	HRO 3-2000 S Series	Part#	107038
	HRO 3-2000 G Series	Part#	107039
Gallons Per Day	2000 @ 77°F*	Dimensions (Approx)	19"x23"x46"
	1625 @ 55°F*	Weight (Approx)	115 lbs.
Elements (Qty)	3	Motor HP	3/4
Element Size (in)	HF4-2540	Hertz	50 or 60
Feed Connection	1"	Voltage	110 or 220
Product Connection	3/8"	Recovery	50*
Waste Connection	3/8"		

\* Gallons per day and recovery are dependent upon the feed water chemistry. Specifically, but not limited to, temperature and total dissolved solids (TDS). A complete raw water analysis may be required to determine actual performance.

## Systems Operating Specifications:

Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	3.5	Maximum Hardness	<1 gpg
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl%	Rejection 98.5%	Maximum Feed (GPM)	10
pH Range	3-11	Maximum Temperature	105°F
		Operation	Atmospheric Tank or Direct Feed
		Note:	Optional level controls or pressure switch required

The logo for Hellenbrand, featuring a stylized blue wave above the brand name "Hellenbrand" in a bold, black, sans-serif font. A registered trademark symbol (®) is located at the top right of the word.

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