



# Whole House RO Spec Sheet

## HRO 4-2000 Product Specifications

Design	
Configuration	Single Pass
Feed Water Source	TDS<2,000
System Recovery	50% - 75%
Rejection and Flow Rates	
Nominal Salt Rejection	99%
Permeate Flow Rate	1.39 gpm
Concentrate Flow Rate (min.)	3.00 gpm
Concentrate Recycle Flow Rate	Up to 5.00 gpm
Connections	
Feed Connection	¾" FNPT
Permeate Connection	½" MNPT
Concentrate Connection	½" MNPT
Membranes	
Membranes Per Vessel	1
Membrane Quantity	1
Membrane Size	4040
Vessels	
Vessel Array	1
Vessel Quantity	1
Pumps	
Pump Type	Multi-Stage
Motor HP	½ HP
RPM @ 60 HZ	3450

Electrical	
Standard Voltage	110V 1PH 60Hz
Controller	C - 23
System Dimensions	
Approx. Dimensions (RO Only)	18"L x 18"W x 45"H
Approx. Weight (RO Only)	110 lbs.
Approx. Footprint (WHRO Pkg)	24 sq.ft.
Options	
Tank Size Options	65-1000+ gal.
Pump Options	10-100+ gpm
Chemical Usage	
pH Correction	See Below
Anti-Scalant	See Below
Pretreatment Options	
Iron Filtration	
Softeners	
Carbon Filtration	
Anti-Scalant Feed	
Sediment Filtration	

### Average Chemical Usage:

pH Correction: Based on a family of 4 with average usage. The 5 gallon container can last up to 6 months.

Anti-Scalant = 1 gallon container. Treats 1,000,000 gallons of feed water to the RO system. If operating RO at 50% recovery, that means it will last for 500,000 gallons of water to the house.

**Warranty Evaluation Test Conditions:** Permeate flow rates and salt rejection based on the following test conditions - 550 ppm, filtered and dechlorinated municipal tap water, 77°F, 15% recovery, 7.0pH and the specified operating pressure for membrane element type. Data taken after 60 mins of operation.

## Operating Limits

Design Temperature	77°F	Max. Turbidity NTU <sup>^</sup>	1
Max. Feed Temperature	85°F	Max. Free Chlorine ppm	0
Min. Feed Temperature	40°F	Max. TDS ppm	2,000
Max. Ambient Temperature	120°F	Max. Hardness GPG <sup>^^</sup>	0
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	200	Min. pH (Cleaning 30 Min.)	2
Max. SDI Rating	<3		

Test Parameters: Static pressure test for 5 minutes.

<sup>^</sup> Appropriate filtration must be installed in order to prevent premature membrane fouling.

<sup>^^</sup> Scale prevention measures must be taken to prolong membrane life.



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