

SWRO HR Series

Seawater RO High Rejection Elements

The SWRO HR series family of proprietary thin film reverse osmosis membrane elements are characterized by excellent sodium chloride rejection. SWRO HR high rejection seawater elements are selected when extremely high quality permeate is demanded from seawater that is relatively high in TDS.

These elements provide excellent rejection characteristics when operated at pressures exceeding 800psi (5,516kPa) and elevated seawater temperature conditions.

Table 1: Element Specification

Membrane	Thin-film membrane (TFM*)
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Model	Average permeate flow gpd (m3/day) ^{1,2}	Average NaCl rejection ^{1,2}	Minimum NaCl rejection ^{1,2}
SWRO-370-HR-WT	6,000 (22.7)	99.75%	99.3%
SWRO-400-HR-WT	6,500 (24.6)	99.75%	99.3%

¹ Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.

² Testing conditions: 32,000mg/l NaCl solution at 800psi (5,516kPa) operating pressure, 77°F (25°C), pH7.5 and 7% recovery.

Model	Active area ft ² (m ²)	Outer wrap	Part number
SWRO-370-HR-WT	370 (34.4)	Fiberglass	3021564
SWRO-400-HR-WT	400 (37.2)	Fiberglass	3021565

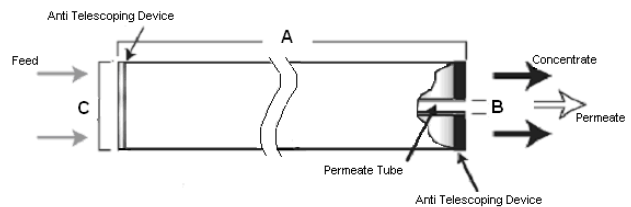


Figure 1: Element Dimensions Diagram

Table 2: Dimensions and Weight

Model ¹	Dimensions, inches (cm)			Boxed Weight lbs (kg)
	A	B ²	C	
SWRO-HR-WT	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)

¹ These elements are bagged wet (WT) before shipping.

² Internal diameter.

Table 3: Operating and CIP parameters

Typical Operating Pressure	800psi (5,516kPa)
Typical Operating Flux	7-11GFD (12-19LMH)
Maximum Operating Pressure	1,200psi (8,274kPa)
Maximum Temperature	Continuous Operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
pH Range	Optimum rejection pH: 7.0-7.5, Continuous operation: 4.0 - 11.0 Clean-In-Place (CIP): 2.0 - 11.5
Maximum Pressure Drop	Over an element: 12psi (83kPa) Per housing: 50psi (345kPa)
Chlorine Tolerance	1,000+ ppm-hours, dechlorination recommended
Feedwater	NTU < 1 SDI < 5

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