BRANEX HRFR series – High Rejection & Fouling Resistance Water RO Membranes

Product description:

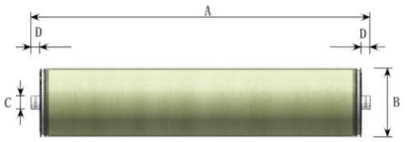
BRANEX HRFR membranes stand as the pinnacle of high-rejection technology, delivering an exceptional and consistent desalination rate of 99.7%. In most industrial water treatment applications, a single-stage RO system equipped with HRFR elements can meet even the most stringent effluent water quality requirements. Boasting an active area of 400 square feet, these elements maximize productivity while enabling precise system design and predictable flux behavior. The HRFR series delivers superior water purification performance at a competitive cost point.

Product Highlights:

* Exceptional 99.7% rejection rate ensures superior water quality
* Single-pass purification capability for most industrial applications
* 400 ft2 active area maximizes system productivity
* A highly cost-effective solution for demanding water treatment applications

Product Dimensions:

Membrane Code	*Dim. A*		*Dim. B*		*Dim. C*		*Dim. D*	
	mm	*inch*	*mm*	*inch*	*mm*	*inch*	*mm*	*inch*
BRANEX-HRFR/34-8x40-400	1016	40	201	7.9	29	1.125		
BRANEX-HRFR-8x40-82	963	37.9	99	3.9	19	0.75	26.7	1.05



Product Specifications:

Membrane Code	Effective Area		Permeate flowrate		Min Rejection (%)	Stable Rejection (%)	Material
	(m2)	(ft2)	(m3/d)	(gpd)			
BRANEX-HRFR/34-8x40-400	37.2	400	43	11350	99.40	99.70	
BRANEX-HRFR-8x40-82	7.6	82	8.6	2250	99.30	99.70	

Note: Flux and rejection rate is based on the following standard test conditions: 1.55 MPa (225 psi) feedwater pressure, 25°C (77°F), 2,000 ppm NaCl solution, pH 8, 15% recovery.

Operation & Cleaning Limits:

* Maximum Operating Pressure: 41 bar (600 psi)
* Maximum Operating Temperature: 45°C (113°F)
* Maximum Element Pressure Drop: 1.0 bar (15psi)
* pH Range Continuous Operation: 2-11
* pH Range Short-Term (Cleaning): 1-13
* Maximum Feed SDI (SDI_{15}): 5.0
* Free Chlorine Tolerance: < 0.1 ppm

Notes:

* Permeate flow for individual elements may vary ±15 percent from the value specifed.
* Active membrane area guaranteed ±4%.
* Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.