

Reverse Osmosis Membranes (8" Membranes)



Description

Aventura is an authorized seller of a range of 8" reverse osmosis membranes offered by Hydranautics (Nitto Denko), a global leader in membrane technology. These membrane elements set a new standard for high performance with high rejection and lower fouling, used extensively in municipal and industrial water and wastewater treatment.

Features

- ▶ Up to 99.8% nominal salt rejection
- ▶ High TOC, silica and hardness rejection
- ▶ Low biological and colloidal fouling
- ▶ High permeate flow
- ▶ Low operating pressure
- ▶ Low energy consumption
- ▶ Lower cleaning frequency and costs
- ▶ LD technology involves innovative brine spacer design

Applications

- ▶ Desalting of well waters for municipal drinking water supplies
- ▶ Production of boiler make-up water for power plants
- ▶ Municipal wastewater plants
- ▶ Industrial surface and wastewaters
- ▶ Seawater desalting

Technical Specifications

Model		Units	ESPA2 - LD	ESPA2 - MAX	CPA2	CPA3	CPA5 - LD	LFC3 - LD	SWC5 - LD
Specification	Permeate Flow	gpd (m ³ /d)	10000 (37.9)	12000 (45.4)	10000 (37.9)	11000 (41.6)	11000 (41.6)	11000 (41.6)	9000 (34.1)
	Salt Rejection	%	99.6 (99.5% Minimum)	99.6 (99.5% Minimum)	99.7 (99.5% Minimum)	99.7 (99.6% Minimum)	99.7 (99.6% Minimum)	99.7 (99.5% Minimum)	99.8 (99.7% Minimum)
Type	Configuration		Low Fouling Spiral Wound	Spiral Wound	Spiral Wound	Spiral Wound	Low Fouling Spiral Wound	Low Fouling Spiral Wound	Low Fouling Spiral Wound
	Membrane Material		Composite Polyamide	Composite Polyamide	Composite Polyamide	Composite Polyamide	Composite Polyamide	Composite Polyamide Neutrally Charged	Composite Polyamide
	Membrane Area	m ²	400 (37.1)	440 (40.8)	365 (33.9)	400 (37.1)	400 (37.1)	400 (37.1)	400 (37.1)
Application Limits	Maximum Applied Pressure	psig (MPa)	600 (4.16)	600 (4.16)	600 (4.16)	600 (4.16)	600 (4.16)	600 (4.16)	1200 (8.27)
	Maximum Chlorine Concentration	ppm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Maximum Operating Temperature	°F (°C)	113 (45)	113 (45)	113 (45)	113 (45)	113 (45)	113 (45)	113 (45)
	pH range, continuous cleaning		2 to 11	2 to 10.6	2 to 10	2 to 10.8	2 to 11	2 to 10	2 to 11
	Maximum Feedwater Turbidity	NTU	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Maximum feedwater SDI (15 mins)		5.0	5.0	5.0	5.0	5.0	5.0	5.0
	Maximum Feed Flow	gpm (m ³ /h)	75 (17)	75 (17)	75 (17)	75 (17)	75 (17)	75 (17)	75 (17)
Maximum Pressure Drop for each element	psi	10	10	10	10	10	10	10	

* The limitations shown here are for general use. Operating at more conservative values for specific projects may ensure the best performance and longest life of the membrane.

Test Conditions

The stated performance is for the initial data taken after 30 minutes of operation, based on the following test conditions:

- ▶ 1500 ppm NaCl solution (32000 ppm for SWC membrane)
- ▶ Applied pressure of 225 psi (1.55 MPa) for CPA and LFC, 150 psi (1.05 MPa) for ESPA and 800 psi (5.5 MPa) for SWC membranes
- ▶ 77 °F (25°C) Operating Temperature
- ▶ 15% Permeate Recovery (10% for SWC membranes)
- ▶ 6.5 - 7.0 pH range

Note

Permeate flow for individual elements may vary +25% or - 25%. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulphate solution and 10% propylene glycol, and then packaged in a cardboard box.

Disclaimer:

We believe the information provided here to be accurate. The information and data are offered in good faith, but without any guarantee as the conditions and methods of use of our products are beyond our control. The customer is fully responsible for the effects of incompatible chemicals or elements. The presence of free chlorine and other oxidizing agents will cause membrane failures and such damage is not covered under warranty. It is the customer's responsibility to determine the appropriateness of our products for their specific end uses.

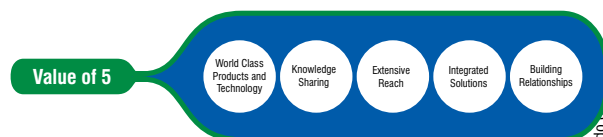
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