NITTO DENKO

HYDRANAUTICS
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A Nitto Denko Company

*San*RO-HS

SanRO-HS Heat Sanitizable, High Rejection RO Composite Membrane Elements are designed specifically for High Performance in USP and other high purity water systems. Elements with Sanitary, Full-fit outer-wraps eliminate “dead flow” areas for maximum bacteria control. SanRO-HS components conform to FDA regulation CFR Title 21.

Products:

Membrane Type	Description	Element Performance* Permeate Flow and Rejection			System Performance**	
		GPD (m^3/day)		% Rej	Applied Pressure psig (MPa)	Permeate TDS, PPM
		8040	4040			
SanRO-HS	Heat Sanitizable, High Rejection Composite	8800 (33.3)	2200 (8.4)	99.7	180 (1.24)	6.6
SanRO-HS2	Heat Sanitizable, High Flux, High Rejection Composite	14,000 (53)	3000 (11.4)	99.6	129 (0.89)	12.5

*** Element Performance is at 225 psig (1.55 MPa), 1500 mg/L NaCl, 15% Recovery, 77°F (25 °C).**

**** Applied Pressure and Permeate TDS are projected values for a 2:2:1 array system operating at 15 GFD (26 LMH) average flux with 500 mg/L TDS feed (NaCl), 80% Recovery, pH 7, 77°F (25 °C).**

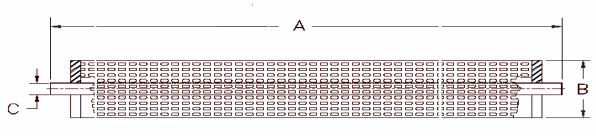
Type

Configuration:	Sanitary (Full-Fit) Spiral Wound
Membrane Polymer:	Composite Polyamide

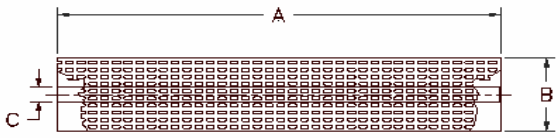
Application Data*

Maximum Applied Pressure, psig (MPa)	600 (4.14)
Maximum Chlorine Concentration, PPM	< 0.1
Maximum Operating Temperature, °F (°C)	113 (45)
Sanitizing Temperature/Pressure Max., °F/psig (°C/MPa)	185/25 (85/0.17)
Operating pH Range:	3.0 - 10.0
Cleaning pH Range:	2.0 - 11.0
Maximum Pressure Drop for a vessel, psig (MPa)	60 (0.41)

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



4040



8040

Size	A in (cm)	B in (cm)	C in (cm)	Area ft^2 (m^2)
4040	**40.0 (102)**	**3.98 (10.1)**	**0.750 (1.9) O.D.**	**90 (8.3)**
8040	**40.0 (102)**	**7.90 (20.1)**	**1.125 (2.9) I.D.**	**380 (35.2)**

Notice: Elements are vacuum-sealed in a polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box. All SanROHS elements are heat set at the factory with a one hour vacuum rinse at 85 C. Hydranautics believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of Hydranautics' products for the user's specific end uses. 9/10/10

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