

# DairyRO

High Rejection RO composite sanitary membranes designed specifically for dairy process applications including; whey concentration, whey UF permeate concentration, skim milk concentration, and RO permeate polishing.

All DairyRO products are USDA accepted. Components conform to FDA regulation CFR Title 21, "3A Sanitary Standards for Crossflow Membrane Modules, Number 45-02", EC Reg. No. 1935/2004, and EU Reg. No. 10/2011.

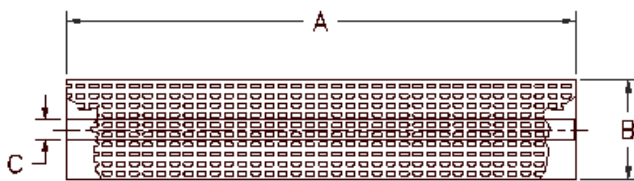
## General Product Description

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

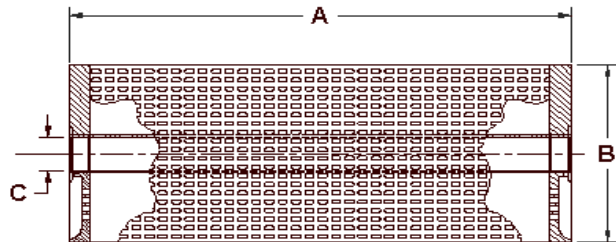
Packaging: Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box. 8040 styles include interconnector assembly, anti-telescoping devices (ATDs), and brine seals.

Model	Feed Spacer, inches (cm)	Area, ft <sup>2</sup> (m <sup>2</sup> )	Dimensions, inches. (cm)			Max. Feed Flow, GPM (m <sup>3</sup> /hr)	Max. Pressure Drop per Element, psi (bar)
			A	B	C		
DairyRO 3838-30	0.030 (0.076)	80 (7.4)	38.0 (96.5)	3.78 (9.6)	0.83 (2.11)	30 (6.8)	15 (1.0)
DairyRO 3838-46	0.046 (0.117)	63 (5.9)	38.0 (96.5)	3.78 (9.6)	0.83 (2.11)	30 (6.8)	15 (1.0)
DairyRO 3840-30	0.030 (0.076)	80 (7.4)	38.75 (98.4)	3.78 (9.6)	0.83 (2.11)	30 (6.8)	15 (1.0)
DairyRO 3840-46	0.046 (0.117)	63 (5.9)	38.75 (98.4)	3.78 (9.6)	0.83 (2.11)	30 (6.8)	15 (1.0)
DairyRO 6338-30	0.030 (0.076)	240 (22)	38.0 (96.5)	6.36 (16.2)	1.138 (2.89)	70 (15.9)	15 (1.0)
DairyRO 8038-30	0.030 (0.076)	385 (36)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DairyRO 8038-46	0.046 (0.117)	300 (28)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DairyRO 8040-30	0.030 (0.076)	385 (36)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
HYDRAPolish 8*	0.030 (0.076)	350 (33)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)

\* HYDRAPolish 8 provided with one interconnector assembly, two (ATDs), and one brine seal



3838, 3840, 8038 Style



8040 Style with ATDs

## Product Use and Restrictions<sup>^</sup>

Maximum Applied Pressure (DairyRO):	800 psig (55.0 bar)
Maximum Applied Pressure (HYDRAPolish 8):	1200 psig (82.7 bar)
Maximum Chlorine Concentration:	< 0.1 PPM
Maximum Operating Temperature:	122 °F (50 °C)
Operating pH Range:	2.0 – 11.0 <sup>^</sup>
Cleaning pH Range (ambient temperature):	1.5 – 11.5
Cleaning pH Range (max temp 122°F/50 °C):	1.8 – 11.0
Maximum Pressure Drop for a vessel	60 psi (4 bar)

<sup>^</sup> The limitations shown here are for general use. For specified projects, operation at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Bulletins for more details.

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### Hydranautics Corporate office

401 Jones Road, Oceanside, CA 92058, USA Toll Free: +1-800-CPA-PURE Tel: +1-760-901-2500 Fax: +1-760-901-2578  
 Web: www.membranes.com Email: hy-info@nitto.com