

# 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.

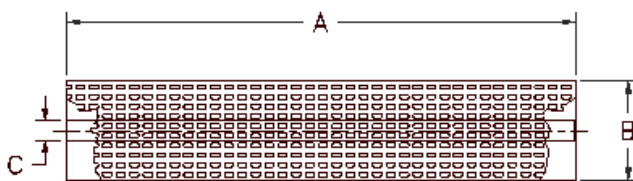
All DairyRO products are USDA accepted. Components conform to FDA regulation CFR Title 21 Part 177, USDA 3-A sanitary standard 45-03, EC Reg. No. 1935/2004, and EU Reg. No. 10/2011. Kosher certified. Halal certified.

## General Product Description

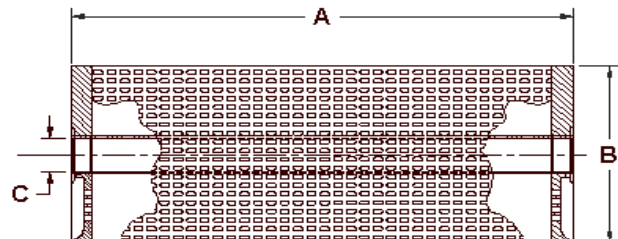
Configuration: Sanitary (Full-Fit) Spiral Wound  
 Membrane Polymer: Composite Polyamide

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. HYDRAPolish 8 and 8040 styles include interconnector assembly, anti-telescoping devices (ATDs), and brine seals. For Halal applications do not use the brine seal.

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 (MPa)
			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 (0.10)
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 (0.10)
DairyRO 3838-65	0.065 (0.165)	50 (4.6)	38.0 (96.5)	3.78 (9.6)	0.83 (2.11)	30 (6.8)	15 (0.10)
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 (0.10)
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 (0.10)
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 (0.09)
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 (0.09)
DairyRO 8038-65	0.065 (0.165)	230 (21)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.09)
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 (0.09)
HYDRAPolish 8	0.030 (0.076)	360 (33)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.09)



3838, 3840, 8038 Style



8040 Style with ATDs

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

Maximum Applied Pressure (DairyRO):	800 psig (5.5 MPa)
Maximum Applied Pressure (HYDRAPolish 8):	1200 psig (8.3 MPa)
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 (0.41 MPa)

<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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4/4/20

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