

DairyRO® Series

High Performance Dairy Process Membranes

Hydranautics' 40+ years of reverse osmosis membrane manufacturing experience is incorporated into every DairyRO® membrane and element. All DairyRO® elements are automation-rolled for straight and minimally sized glue lines, maximum membrane area, and the highest possible glue line adhesion.

DairyRO® composite polyamide reverse osmosis elements are of the net-wrapped, full-fit design, intended for daily CIP in the dairy environment. All membranes and elements are manufactured using highly controlled, ISO 9001-compliant processes, ensuring the highest quality and most consistent, reliable performance available. Hydranautics has set a new industry-standard for the rolling of full-fit membrane modules: Hand-rolling of elements has been eliminated by the use of proprietary, robot-based automatic rolling machines, specifically designed by Hydranautics for fabricating membrane modules of the highest quality. The result is a higher level of filtration and separations performance for our customers.

Key Features:

- All elements are automatically rolled on a proprietary, robotized machine
- Elements meet FDA regulations CFR Title 21 and 3A Sanitary Standards for Crossflow Membrane Modules, Number 45-01, Section C
- USDA-accepted – sizes 3838, 3840, 6338, 8038 and 8040
- 100% testing of membrane rolls with 1500 ppm NaCl for flux and rejection compliance
- 100% testing of elements for rejection and flow compliance

Benefits from Auto-Rolling:

- Superior glue-line adhesion and strength
- Tighter rolling and caging
- Greater flow rates due to maximum effective membrane area
- Greater structural reliability

Applications:

- Pre-concentrating milk or whey for reducing product transport costs
- Lactose production
- Sweet/acid whey concentration
- Concentration of UF permeate
- Milk and juice concentrations



Type:

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

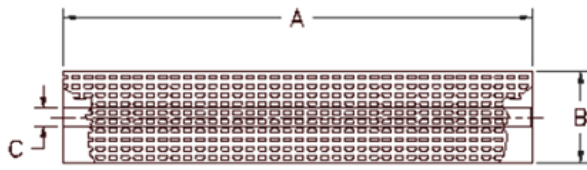
Application Data:

Maximum Applied Pressure	800 psig (55.0 bar)
Maximum Chlorine Concentration	< 0.1 PPM
Maximum Operating Temperature	122°F (50°C)
Operating pH Range	2.0 - 11.0
Cleaning pH Range	1.0 - 11.0
Maximum Pressure Drop for a vessel	60 psi (4.1 bar)

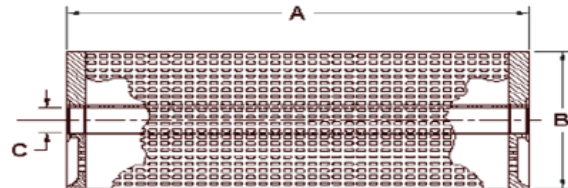
Product and Guidelines:

Model	Feed Spacer inches (cm)	Area ft ² (m ²)	Dimensions, inches (cm)			Max. Feed Flow, GPM (m ³ /hr)	Max. Pressure Drop per Element, psi (bar)
			A	B	C		
DairyRO® 383830	0.030 (0.076)	80 (7.4)	38.00 (96.5)	3.78 (9.6)	0.83 (2.11)	30 (6.9)	15 (1.0)
DairyRO® 383846	0.046 (0.117)	60 (5.6)	38.00 (96.5)	3.78 (9.6)	0.83 (2.11)	30 (6.9)	15 (1.0)
DairyRO® 383865	0.065 (0.165)	50 (4.5)	38.00 (96.5)	3.78 (9.6)	0.83 (2.11)	30 (6.9)	15 (1.0)
DairyRO® 384030	0.030 (0.076)	80 (7.4)	38.75 (98.4)	3.78 (9.6)	0.83 (2.11)	30 (6.9)	15 (1.0)
DairyRO® 384046	0.046 (0.117)	60 (5.6)	38.75 (98.4)	3.78 (9.6)	0.83 (2.11)	30 (6.9)	15 (1.0)
DairyRO® 384065	0.065 (0.165)	50 (4.5)	38.75 (98.4)	3.78 (9.6)	0.83 (2.11)	30 (6.9)	15 (1.0)
DairyRO® 633830	0.030 (0.076)	200 (19)	38.00 (96.5)	6.36 (16.2)	1.138 (2.89)	70(15.8)	15 (1.0)
DairyRO® 633846	0.046 (0.117)	150 (14)	38.00 (96.5)	6.36 (16.2)	1.138 (2.89)	70(15.8)	15 (1.0)
DairyRO® 803830	0.030 (0.076)	360 (33)	38.00 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DairyRO® 803846	0.046 (0.117)	280 (26)	38.00 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DairyRO® 803865	0.065 (0.165)	215 (20)	38.00 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
Hydrapolish 8*	0.030 (0.076)	360 (33)	40.00 (106)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)

*Hydrapolish 8 provided with one interconnector assembly, two anti-telescoping devices and one brine seal



3838, 3840, 8038 Style



8040 Style with ATDs

Nomenclature = DairyRO + Size + Feed Spacer

Solutions You Need.

Technologies You Trust!

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