

DairyRO-HF

Hydranautics' new DairyRO-HF offers up to 30% higher flow at the same conditions as standard RO elements. These high rejection RO composite sanitary membranes are 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.

Products & Guidelines:

Model	Feed Spacer, inches (cm)	Area, ft2 (m2)	Dimensions, inches. (cm)			Max. Feed Flow, GPM (m3/hr)	Max. Pressure Drop per Element, psi (bar)
			A	B	C		
DairyRO 3838-30HF	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 3838-46HF	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 3840-30HF	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 7838-30HF	0.030 (0.076)	365 (34)	38.0 (96.5)	7.68 (19.5)	1.125 (2.86)	80 (18.2)	13 (0.9)
DairyRO 7838-46HF	0.046 (0.117)	285 (26)	38.0 (96.5)	7.68 (19.5)	1.125 (2.86)	80 (18.2)	13 (0.9)
DairyRO 8038-30HF	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 8038-46HF	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 8040-30HF	0.030 (0.076)	385 (36)	40.0 (102.0)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)

Type

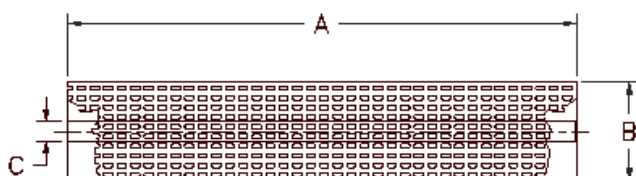
Configuration:
Membrane Polymer:

Sanitary (Full-Fit) Spiral Wound
Composite Polyamide

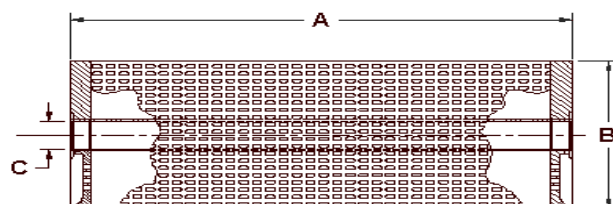
Application Data

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 (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)

The limitations shown are for general use. Operating at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Bulletin 207 for more detail on operation limits, cleaning pH, and cleaning temperatures.



3838, 3840, 7838, 8038 Style



8040 Style with ATDs

Notice: 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, ATDs and brine seals. 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.

7/20/2021