

DairyNF™ Series

Highly selective nanofiltration composite sanitary membranes designed specifically for separation of divalent anions and / or organic molecules greater than 200 Daltons from monovalent salts and lower molecular weight organics. Applications include: whey and milk concentration, de-salting (mineralizing) of whey and other streams, DP1 / DP2 sugar fractionation, and BOD / COD reduction applications where low pressure operation and high salt passage is desired.

All products are USDA-accepted. Components conform to FDA regulation CFR Title 21 and "3A Sanitary Standards for Cross flow Membrane Modules, Number 45-01, Section C".

Products & Guidelines:

Sizes	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		
DAIRYNF3838-30	0.030 (0.076)	80 (7.4)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.9)	15 (1.0)
DAIRYNF3838-46	0.046 (0.117)	60 (5.6)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.9)	15 (1.0)
DAIRYNF3840-30	0.030 (0.076)	80 (7.4)	38.75 (98.4)	3.78 (9.60)	0.83 (2.11)	30 (6.9)	15 (1.0)
DAIRYNF3840-46	0.046 (0.117)	60 (5.6)	38.75 (98.4)	3.78 (9.60)	0.83 (2.11)	30 (6.9)	15 (1.0)
DAIRYNF8038-30	0.030 (0.076)	360 (33)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DAIRYNF8038-46	0.046 (0.117)	280 (26)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DAIRYNF8040-30	0.030 (0.076)	360 (33)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DAIRYNF8040-46	0.046 (0.117)	280 (26)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)

Type

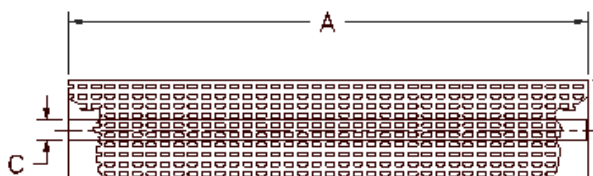
Configuration:
Outerwrap:
Membrane Polymer:
Molecular Weight Cut-off

Sanitary (Full-Fit)
Polypropylene net wrap
Composite Polyamide
150-250 daltons

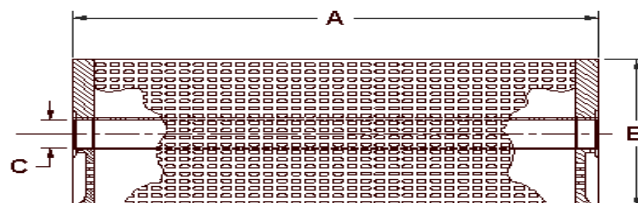
Application Data

Maximum Applied Pressure: 600 psig (41 bar)
Maximum Chlorine Concentration: < 0.1 ppm
Maximum Operating Temperature: 122°F (50 °C)
Operating pH Range: 3.0 – 9.0
Cleaning pH Range: 1.0 – 11.5
Maximum Pressure Drop for a vessel 60 psi (4 bar)

3838, 8038 Style



8040 Style with ATDs



Nomenclature = DAIRYNF + Size + Feed Spacer

Notice: Elements are vacuum-sealed in a polyethylene bag and then packaged in a reinforced 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.

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LENNTECH

info@lennotech.com Tel. +31-152-610-900

www.lennotech.com Fax. +31-152-616-289