

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 DairyNF™ 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.

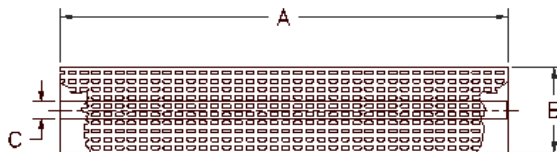
Products & Guidelines:

Sizes	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		
DAIRYNF3838-30	0.030 (0.076)	80 (7.4)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.8)	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 (6.8)	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 (6.8)	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 (6.8)	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)

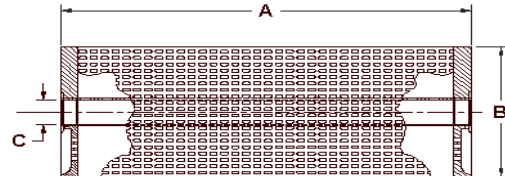
Type	Configuration:	Sanitary (Full-Fit)
	Outerwrap:	Polypropylene net wrap
	Membrane Polymer:	Composite Polyamide
	Molecular Weight Cut-off	150-250 daltons

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 (ambient temperature):	1.8 – 11.0
	Cleaning pH Range (max temp 122°F/50 °C):	1.8 – 10.5
	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, 8038 Style



8040 Style with ATDs

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.