

DairyNF®

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.

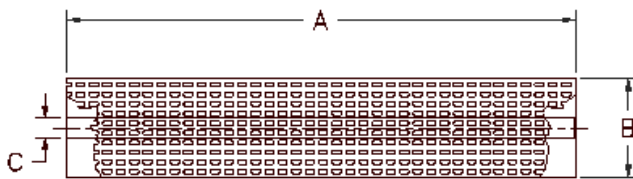
All DairyNF products are USDA accepted. Components conform to FDA regulation CFR Title 21 Part 177, USDA 3-A sanitary standard 45-03, EC Reg. No. 1935/2004, and EU Reg. No. 10/2011. Kosher certified. Halal certified.

General Product Description

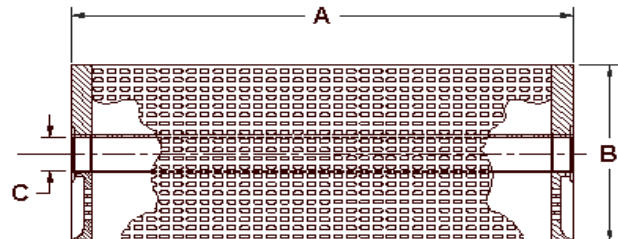
Configuration: Sanitary (Full-Fit) Spiral Wound
 Membrane Polymer: Composite Polyamide
 Molecular Weight Cut-off: 150 – 250 daltons

Packaging: Elements are enclosed in a sealed polyethylene bag and then packaged in a cardboard box. 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 ² (m ²)	Dimensions, inches. (cm)			Max. Feed Flow, GPM (m ³ /hr)	Max. Pressure Drop per Element, psi (MPa)
			A	B	C		
DairyNF 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)
DairyNF 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)
DairyNF 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)
DairyNF 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)
DairyNF 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)
DairyNF 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)
DairyNF 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)
DairyNF 8040-46	0.046 (0.117)	300 (28)	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[^]

Maximum Applied Pressure (DairyRO):	600 psig (4.1 MPa)
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 (0.41 MPa)

[^] 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.

To properly condition the membrane, a RO water flush and caustic clean in place must be performed prior to first use of new elements. Refer to TSB 218

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