

# DairyUF<sup>®</sup> 5K

High flux, high protein rejection 5,000 Dalton polyethersulfone ultrafiltration membranes designed specifically for the dairy, food and beverage markets. Applications include but are not limited to: whey protein concentration, enzyme purification, removal of hazes in beverages and more.

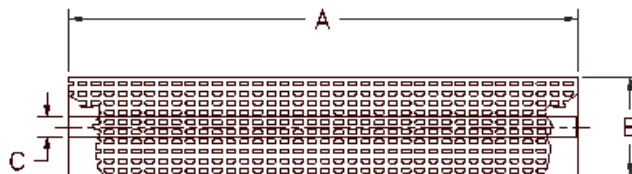
All DairyUF<sup>®</sup> products are USDA accepted. Components conform to FDA regulation CFR Title 21, "3A Sanitary Standards for Crossflow Membrane Modules, Number 45-02", EC Reg. No. 1935/2004, and EU Reg. No. 10/2011.

## General Product Description

Configuration: Sanitary (Full-Fit) Spiral Wound  
 Membrane Polymer: Polypropylene-backed Polyethersulfone

Packaging: Elements are enclosed in a sealed polyethylene bag containing sodium bisulfite solution, and then packaged in a cardboard box.

Model	Feed Spacer, inches (cm)	Area, ft <sup>2</sup> (m <sup>2</sup> )	Dimensions, inches (cm)			Feed Flow, gpm (m <sup>3</sup> /hr)	Max. Pressure Drop per Element, psi (bar)
			A	B	C		
DairyUF 5K 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 (1.0)
DairyUF 5K 3838-46	0.046 (0.117)	60 (5.6)	38.0 (96.5)	3.78 (9.6)	0.83 (2.11)	30 (6.8)	15 (1.0)
DairyUF 5K 3838-65	0.065 (0.165)	50 (4.6)	38.0 (96.5)	3.78 (9.6)	0.83 (2.11)	30 (6.8)	15 (1.0)
DairyUF 5K 4336-30	0.030 (0.076)	90 (8.4)	35.5 (90.2)	4.28 (10.9)	0.83 (2.11)	35 (7.9)	15 (1.0)
DairyUF 5K 4336-46	0.046 (0.117)	70 (6.5)	35.5 (90.2)	4.28 (10.9)	0.83 (2.11)	35 (7.9)	15 (1.0)
DairyUF 5K 6338-30	0.030 (0.076)	215 (20)	38.0 (96.5)	6.36 (16.2)	1.138 (2.89)	70 (15.8)	15 (1.0)
DairyUF 5K 6338-46	0.046 (0.117)	170 (16)	38.0 (96.5)	6.36 (16.2)	1.138 (2.89)	70 (15.8)	15 (1.0)
DairyUF 5K 6338-65	0.065 (0.165)	140 (13)	38.0 (96.5)	6.36 (16.2)	1.138 (2.89)	70 (15.8)	15 (1.0)
DairyUF 5K 8038-30	0.030 (0.076)	360 (33)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DairyUF 5K 8038-46	0.046 (0.117)	280 (26)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
DairyUF 5K 8038-65	0.065 (0.165)	225 (21)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)



## Product Use and Restrictions<sup>^</sup>

Maximum Applied Pressure:	150 psig (10 bar)
Maximum Chlorine Concentration:	200 ppm @ pH > 10.5
Maximum Operating Temperature:	131 °F (55 °C)
Operating pH Range:	2.0 – 10.0 <sup>^</sup>
Cleaning pH Range (max. temp 122°F/50 °C):	2.0 – 11.5
Maximum Pressure Drop for a Vessel	60 psi (4 bar)

<sup>^</sup> 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.

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