

QUALSEP™ DairyUF



High Flux, High Protein Rejection 10K PES Ultrafiltration Membranes

Hydranautics' membrane technology experience and innovation are at the core of every QUALSEP DairyUF membrane. Specifically designed for whey protein concentration, DairyUF membranes deliver exceptional performance and value.

DairyUF 10K is ideal for:

- Fractionating, purifying and dewatering milk and cheese whey
- Whey protein concentration before evaporating and spray-drying
- Minimizing waste disposal costs

All QUALSEP membranes are manufactured using highly controlled, ISO 9001-compliant processes, ensuring the highest quality and most consistent, reliable performance available. Experience a new level of product confidence, cost savings and technology excellence with QUALSEP.

- Ultra-high flux UF membranes provide maximum protein yields with the lowest energy costs
- Meets FDA, Title 21 Regulations and 3A Sanitary Standards for Crossflow Membrane Modules
- USDA Accepted – all sizes
- All membranes individually tested to ensure reliable field performance



HYDRANAUTICS

A Nitto Denko Company
www.membranes.com

Type

ConfigurationSanitary (Full-Fit) Spiral Wound
 Membrane PolymerPolyethersulfone

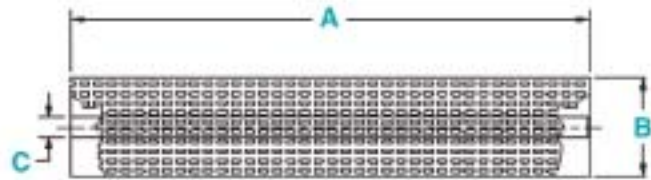
Application Data

Maximum Applied Pressure, psig (bar) 150 (10)
 Maximum Chlorine Concentration, PPM 200
 Maximum Operating Temperature, °F (°C)122° (50°)
 Operating pH Range2.0 - 11.0
 Cleaning pH Range2.0 - 11.5
 Maximum Pressure Drop for a Vessel, psig (bar)60 (4)



Nominal Element Performance

Element Type	Maximum Feed Flow GPM (m³/hr)	Maximum Pressure Drop per Element, psig (bar)
Dairy10K 383830	.30 (6.8)	.15 (1.0)
Dairy10K 383846	.30 (6.8)	.15 (1.0)
Dairy10K 433630	.35 (7.9)	.15 (1.0)
Dairy10K 433646	.35 (7.9)	.15 (1.0)
Dairy10K 433830	.35 (7.9)	.15 (1.0)
Dairy10K 433846	.35 (7.9)	.15 (1.0)
Dairy10K 633830	.70 (15.8)	.15 (1.0)
Dairy10K 633846	.70 (15.8)	.15 (1.0)
Dairy10K 803830	.80 (18.2)	.13 (0.9)
Dairy10K 803846	.80 (18.2)	.13 (0.9)



Model	Feed Spacer inches (cm)	Area ft² (m²)	A inches (cm)	B inches (cm)	C inches (cm)
Dairy10K 383830	.030 (0.076)	.80 (7.4)	38.0 (96.5)	3.78 (9.6)	0.83 (2.11)
Dairy10K 383846	.046 (0.117)	.60 (5.6)	38.0 (96.5)	3.78 (9.6)	0.83 (2.11)
Dairy10K 433630	.030 (0.076)	.90 (8.4)	35.5 (90.2)	4.28 (10.9)	0.83 (2.11)
Dairy10K 433646	.046 (0.117)	.75 (6.9)	35.5 (90.2)	4.28 (10.9)	0.83 (2.11)
Dairy10K 433830	.030 (0.076)	.95 (8.8)	38.0 (96.5)	4.28 (10.9)	0.83 (2.11)
Dairy10K 433846	.046 (0.117)	.80(7.4)	38.0 (96.5)	4.28 (10.9)	0.83 (2.11)
Dairy10K 633830	.030 (0.076)	.225 (20.8)	38.0 (96.5)	6.28 (16.0)	1.138 (2.89)
Dairy10K 633846	.046 (0.117)	.170 (15.7)	38.0 (96.5)	6.28 (16.0)	1.138 (2.89)
Dairy10K 803830	.030 (0.076)	.360 (33.0)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)
Dairy10K 803846	.046 (0.117)	.280 (26.0)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)



Hydranautics Corporate: 401 Jones Road, Oceanside, CA 92054

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Elements are vacuum sealed in a polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box. 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.