

FFM-N8038-200

FFM Nanofiltration Membranes precision ion separation for dairy demineralization (lactose/whey processing) and beverage polishing. With multiple feed channels, high divalent ion rejection, low-energy operation, and scaling resistance-ensuring sustainable performance in heat-sensitive food applications.

Performance Parameters

Membrane Material:	PES
Structure:	Sanitary Spiral-Wound Mesh Design
Effective Retention Accuracy:	200 Dalton
Mesh Support:	Fixed and Adjustable

Item	31 mil	46 mil
Salt rejection (MgSO ₄)	99.0%	99.0%
Maximum Permeate Flow	5600 gpd (21.2 m ³ /d)	4400 gpd (16.7 m ³ /d)
Standard Permeate Flow	4450 gpd (16.8 m ³ /d)	3500 gpd (13.2 m ³ /d)
Minimum Permeate Flow	3300 gpd (12.5 m ³ /d)	2740 gpd (10.4 m ³ /d)

Test conditions:	5000 mg/L MgSO ₄ Solution
	77 F(25°C) Operating Temperature
	95 psi (0.655Mpa) Applied Pressure
	15% Permeate Recovery
	7.5 pH Range

*Single-element water outlet tolerance: ±20% (standard conditions).

Product Specifications



Dimensions-inches(mm)		
L	L1	L2
38.0(965)	1.1(28.6)	7.9(201)

Active Membrane Area-ft ² (m ²)		
28 mil	31 mil	46 mil
/	371(34.5)	291(27.0)

Operation Parameters

Recommended Operating Temperature:	41-122°F (5-50°C)
Maximum Operating Pressure:	650 psi (4.48 Mpa)
Recommended Operating Pressure:	200-450psi (1.38-3.10 Mpa)
Cleaning Operating Temperature:	95-122°F (35-50°C)
pH Range,Continuous Operation:	4.0-10.0(25°C)
pH Range, Ceb:	1.8-11.0(25°C)
Design Pressure Drop per Membrane Element:	6-10 psi (0.04-0.07 Mpa)
Design Pressure Drop per Membrane Housing (5 Elements in Series):	6-10 psi (0.04-0.07 Mpa)

*For specialized applications or customized solutions, please contact FFM Inc. directly.