

## FFM-N2540GB-300

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:	300 Dalton	
Mesh Support:	Fixed and Adjustable	

Item	31 mil	46 mil
Salt rejection (MgSO <sub>4</sub> )	99.0%	99.0%
Maximum Permeate Flow	900 gpd (3.4 m <sup>3</sup> /d)	700 gpd (2.6 m <sup>3</sup> /d)
Standard Permeate Flow	700 gpd (2.6 m <sup>3</sup> /d)	500 gpd (1.9 m <sup>3</sup> /d)
Minimum Permeate Flow	500 gpd (1.9 m <sup>3</sup> /d)	300 gpd (1.1 m <sup>3</sup> /d)

Test conditions:	5000 mg/L MgSO <sub>4</sub> 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
40.0(1016)	0.75(19.0)	2.4(61.0)

Active Membrane Area-ft <sup>2</sup> (m <sup>2</sup> )		
28 mil	31 mil	46 mil
/	34(3.1)	23(2.1)

### 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.