FFM-N4040GBA-800

FFM Acid-Resistant Nanofiltration Membranes selective separation for acid whey demineralization, citrus juice decolorization, antibiotic polishing, and nickel/cobalt recovery. Features with pH 0-12 stability, 1,200+ acid cycles, >90% divalent ion rejection retention, and minimal MWCO drift-ensuring compliance and yield in aggressive acidic processes.

Performance Parameters

Membrane Material:	Special Composite Materials
Structure:	Sanitary Spiral-Wound Mesh Design
Effective Retention Accuracy:	800 Dalton
Permeate Tube:	CPVC
Standard Treatment Solution:	10% HCL/10% H_2SO_4/15% H_3PO_4/2% HNO_3

Item	31 mil	46 mil
Maximum Salt rejection ($MgSO_4$)	97.0%	97.0%
Minimum Salt rejection ($MgSO_4$)	95.0%	95.0%
Standard Permeate Flow	2240 gpd (8.5 m^3/d)	1530 gpd (5.8 m^3/d)

Test conditions: 2000 mg/L $MgSO_4$ Solution
86 F(30 ℃) Operating Temperature
145 psi (1.0 Mpa) Applied Pressure
15% Permeate Recovery

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

Product Specifications

Dimensions-inches(mm)		
L	L1	L2
40.0(1016)	0.75(19.0)	3.9(99.0)

Active Membrane Area-ft^2(m^2)	
31 mil	46 mil
60.3(5.6)	43.1(4.0)

Operation Parameters

Maximum Operating Temperature:	122 °F (50 °C)
Recommended Operating Pressure:	220-510psi (1.5-3.5 Mpa)
pH Range,Continuous Operation:	0.0-12.0(25°C)
pH Range, Ceb:	0.0-12.0(25°C)
Design Pressure Drop per Membrane Element:	10 psi (0.07 Mpa)
Design Pressure Drop per Membrane Housing (5 Elements in Series):	60 psi (0.42 Mpa)

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