



FFM-U4040GBL-4K

FFM Alkaline-Resistant Ultrafiltration Membranes engineered for high-pH processing in dairy CIP systems, soy protein extraction, enzymatic biocatalysis, and wastewater valorization. Applied with pH 8-14 stability, 2,000+ NaOH cycles, high protein transmission, and irreversible fouling resistance-ensuring extended membrane life in aggressive chemical environments.

Performance Parameters

Membrane Material:	Special Composite Materials
Structure:	Sanitary Spiral-Wound Mesh Design
Effective Retention Accuracy:	4000 Dalton
Flow Channel Range:	31/46/62/80 mil
Mesh Support:	Fixed and Adjustable

Product Specifications



Dimensions-inches(mm)		
L	L1	L2
40.0(1016)	0.75(19.0)	3.9(99)

Active Membrane Area-ft ² (m ²)			
31 mil	46 mil	62 mil	80 mil
90(8.3)	75(6.9)	55(5.1)	45(4.2)

Operation Parameters

Recommended Operating Temperature:	41-131°F (5-55°C)
Maximum Operating Pressure:	435 psi (3.0 Mpa)
Recommended Operating Pressure:	140-360psi (1.0-2.5 Mpa)
Cleaning Operating Temperature:	104-122°F (40-50°C)
pH Range,Continuous Operation:	8.0-14.0(25°C)
Design Pressure Drop per Membrane Element:	
Flow Channel 31 mil:	12-15psi (0.08-0.1 Mpa)
Flow Channel 46 mil:	15-20psi (0.1-0.14 Mpa)
Other Channels:	15-25psi (0.1-0.17 Mpa)

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