

FFM-U4040GBL-2K

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: | 2000 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.