

FFM-R4040GBT

FFM Heat-Sanitizable RO Membranes thermal-stable separation for dairy (whey/lactose concentration), pharmaceuticals (WFI production), beverage alcohol, and plant-based proteins. Applied with 85°C sanitization tolerance, >99.5% salt rejection, chlorine resistance, and low-energy operation—ensuring validated microbial safety in hygienic processes.

Performance Parameters

Membrane Material:	PA Composite
Structure:	Spiral-Wound
Active Membrane Area:	72 ft ² (6.7 m ²)
Standard Permeate Flow:	1630 gpd (6.2 m ³ /d)
Stable Salt rejection:	99.5%
Minimum Salt rejection:	99.3%
Test conditions:	2000 mg/L NaCL Solution
	77 F(25°C) Operating Temperature
	153 psi (1.05 Mpa) Applied Pressure
	15% Permeate Recovery
	8.0 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)	3.9(99.0)

Operation Parameters

Maximum Operating Temperature:	113 °F (45 °C)
Maximum Thermal Disinfection Operating Temperature:	185 °F (85 °C) @ 25.3 psi(0.175 Mpa)
Maximum Operating Pressure:	600 psi (4.1 Mpa)
Maximum Pressure Drop:	15 psi (0.1 Mpa)
Cleaning Operating Temperature:	95-122°F (35-50°C)
pH Range,Continuous Operation:	2.0-11.0(25°C)
pH Range, Ceb(30 min):	1.0-12.0(25°C)

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