

## FFM-R2521GBT

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:	14 ft <sup>2</sup> (1.3 m <sup>2</sup> )
Standard Permeate Flow:	250 gpd (0.95 m <sup>3</sup> /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
21.0(533)	0.75(19.0)	2.4(61.0)

### 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.