



Product Data Sheet-Reverse Osmosis Membranes

Core Filtration, Clear Solutions

FFM2521HR

FFM's high-rejection RO membrane series is engineered specifically for brackish and saline water desalination, offering low operating pressure, exceptional salt rejection (>99.6%), strong fouling resistance, and stable performance. Ideal for waters with salinity below 5,000 ppm—including well and surface water—these membranes serve drinking water systems, ion exchange pre-treatment, and industrial applications such as power plant boiler feedwater, high-salinity wastewater treatment, and beverage production.

Performance Parameters

Permeate Flow:	350 gpd(1.32m ³ /d)
Salt rejection:	99.6%
Test conditions:	2000 mg/L NaCl solution
	77 F(25°C) Operating Temperature
	225 psi (1.55Mpa) Applied Pressure
	8% Permeate Recovery
	6.5-7.0 pH Range

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

Product Specifications

Dimensions-inches(mm)			
L	L1	L2	L3
21.0(533)	1.12(28.5)	0.75(19.1)	2.4(61)

Item	Specification
Configuration	Spiral Wound
Membrane Polymer	Composite Polyamide
Membrane Active Area	14ft ² (1.3m ²)



*Post-update performance may vary within specified design limits, with ±3% membrane area tolerance.

Operation Parameters

Maximum Operating Temperature:	113°F (45°C)
Maximum Operating Pressure:	600 psi (4.1 Mpa)
Maximum Pressure Drop Per Element:	15psi (0.1 Mpa)
Maximum Pressure Drop Per Vessel:	50psi (0.35 Mpa)
pH Range,Continuous Operation:	2-11
pH Range, Short Term Cleaning (30min):	1-13
Maximum Feed Water SD(15mins):	5
Maximum Chlorine Concentration:	< 0.1mg/L

*The limitations shown here are for general use. For specialized applications or customized solutions, please contact FFM Inc. directly.