



Product Data Sheet-Reverse Osmosis Membranes

Core Filtration, Clear Solutions

FFM4040LP

FFM's low-pressure RO membrane delivers 99.6% desalination efficiency at just 0.8-1.2 Mpa operating pressure — approximately two-thirds that of conventional membranes. Ideal for municipal tap water, groundwater, and surface water with low-to-medium salinity, it significantly reduces equipment and operational costs. This membrane is widely deployed in water purification facilities and across food and beverage, dairy, electronics, pharmaceutical, and other light industrial sectors.

Performance Parameters

Permeate Flow:	2100 gpd(7.9m ³ /d)
Salt rejection:	99.6%
Test conditions:	1500 mg/L NaCl solution
	77 F(25°C) Operating Temperature
	150 psi (1.03Mpa) Applied Pressure
	15% 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
40.0(1016)	1.04(26.5)	0.75(19.1)	3.9(99)

Item	Specification
Configuration	Spiral Wound
Membrane Polymer	Composite Polyamide
Membrane Active Area	85ft ² (7.9m 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.