

FFM4021ELP

FFM's extremely low pressure reverse osmosis (RO) membrane is one of the membrane elements with the lowest operating pressure among existing reverse osmosis products, with a conventional operating pressure of only 0.5-1.2 MPa. This series of membranes is mainly suitable for municipal tap water, groundwater, and surface water with salt concentrations within 1000 ppm, and is widely used in the preparation of purified water. It has lower operating pressure and reduced energy consumption, which can significantly improve operational economic efficiency.

Performance Parameters

Permeate Flow:	800 gpd(3.04m ³ /d)
Salt rejection:	99.0%
Test conditions:	500 mg/L NaCl solution 77 F(25°C) Operating Temperature 100 psi (0.69Mpa) 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)	1.04(26.5)	0.75(19.1)	3.9(99)

Item	Specification
Configuration	Spiral Wound
Membrane Polymer	Composite Polyamide
Membrane Active Area	36ft ² (3.34m 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.