

RO-4040 RO MEMBRANES

Model: LX-381RO4040



SYSTEM DESCRIPTION

ANGEL RO 4040 commercial reverse osmosis membrane offers economical choice for absolute-rated efficiency, high flow rate capability and long service life. The membrane is suitable for water purification applications of water sources with salt concentration lower than 2000 ppm, such as surface water, underground water, tap water and municipal water.

ANGEL RO 4040 ultra low pressure RO membrane delivers high permeate flows and salt rejection at lower raw water pressures, compared to regular low-pressure membrane elements. The high salt rejection and low working pressure result in up to 30% lower energy consumption compared to standard elements.

BENEFITS

- ▲ Ultra-low pressure operation reduces energy costs.
 - Operates at 150 psi, saving up to 30% on energy and system infrastructure costs.
- ▲ High salt rejection ensures high-purity filtrate (up to 99.5%)
- ▲ Standard 4" x 40" size for easy retrofit compatibility, fits all standard 4040 membrane
- ▲ Large active membrane area yields high flow rate
- ▲ Wide feed spacer minimizes fouling (28-mil)
- ▲ High surface area yields high flow rate, low differential pressure

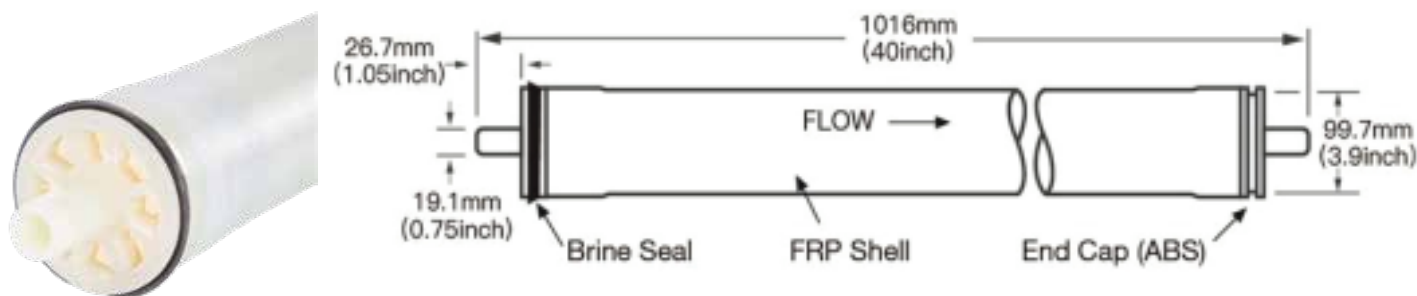
APPLICATIONS

- ▲ Reverse Osmosis Pre-filtration
- ▲ Chemical industry
- ▲ Boiler and cooling towers make-up water
- ▲ Spot free rinse for window cleaning and solar panel cleaning
- ▲ Drinking water
- ▲ Aquarium water treatment
- ▲ Softened water for homes, hotels, commercial laundries and car wash
- ▲ Pure water for pharmaceuticals, laboratories, Hemodialysis and electronics

RO-4040 RO MEMBRANES

Commercial 4 inch x 40 inch Low Pressure Reverse Osmosis Membrane

DIMENSIONS



PERFORMANCE & SPECIFICATIONS

Model	Stable Rejection Rate (%)	Permeate Flow GPD (m ³ /day)	Active Membrane Area ft ² (m ²)	Feed Spacer Thickness mil
RO-4040	99.5	2600(9.8)	100(9.3)	28

Operating pressure	150 psi (1.03 MPa)
1500 mg/L NaCl solution	
Temperature	77°F (25°C)
pH	7.0 ± 0.5
Recovery rate	15%
Minimum salt rejection	99%

Membrane Area	100 ft ² (9.3m ²)
Feed Spacer Thickness	28 (mil)
Diameter / Length	4 inch / 40 inch

OPERATING CONDITIONS & LIMITS

Maximum operating pressure psi (MPa)	600 (4.14)
Maximum feedwater temperature °F (°C)	113 (45)
Maximum inlet flow rate GPH (m ³ /h)	951 (3.6)
Maximum concentration of free chlorine mg/L	0.1
Maximum pressure drop per element psi (MPa)	15 (0.1)
Allowed pH range for feedwater in operation	3-10
Allowed pH range for chemical cleaning	2-12
Maximum feedwater flow SDI	≤5

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