

BURTON

Burton LP 4040

LP Brackish Water Desalination
4 inches* RO Membrane Element

LP brackish water membrane elements adopt the most advanced polyamide sheets for the treatment of desalination brackish water with TDS less than 5000mg/L whose source is surface water, ground water or others.

- High salt rejection rate and higher flow
- Reduces energy consumption
- Saves investment by reducing the need for high end pump, pressure vessel & pipeline
- Lesser maintenance expense of resin, EDI and other devices
- High stability and optimization structure facilitating cleaning
- Advanced technology: "Non-Integer" & "Arithmetical spiral" for consistent quality
- Imported raw materials from USA and Japan
- Strict quality standards through rigorous testing to insure rejection & water flow

*Diameter 4" & length 40"

Membrane Element

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Performance:

Permeate Flow:	2,500 gpd (9.5M ³ /d)
Salt Rejection:	
Minimum:	99.5 %

Type:

Configuration:	Spiral Wound
Membrane Polymer:	Composite Polyamide
Nominal Membrane Area:	78 Sqft

Application Data*

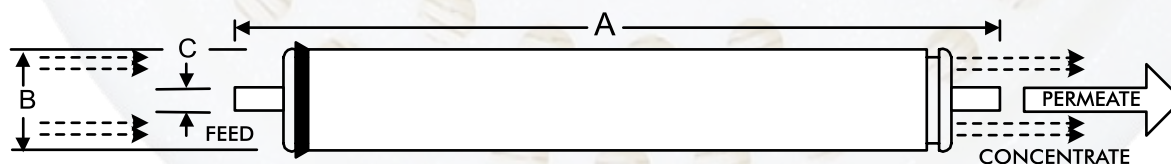
Maximum Applied Pressure:	600 psig (4.16 MPa)
Maximum Chlorine Concentration:	< 0.1 PPM
Maximum Operating Temperature:	113 °F (45 °C)
Feedwater pH Range:	3.0 - 10.0
Maximum Feedwater Turbidity:	1.0 NTU
Maximum Feedwater SDI (15 mins):	5.0
Maximum Feed Flow:	14 GPM (3.2 m ³ /h)
Minimum Ratio of Concentrate to Permeate Flow for any Element:	5:1
Maximum Pressure Drop for Each Element:	15 psi

* The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

Test Conditions

The stated performance is initial (data taken after 30 minutes of operation), based on the following conditions:

2000 PPM NaCl solution
 150 psi (1.5 MPa) Applied Pressure
 77 °F (25 °C) Operating Temperature
 15% Permeate Recovery
 6.5 - 7.0 pH Range



A, inches (mm)	B, inches (mm)	C, inches (mm)	Weight, lbs. (kg)
40.00 (1016)	3.95 (100.3)	0.75 (19.1)	8 (3.6)

Core tube extension = 1.05" (26.7 mm)

Note: Permeate flow for individual elements may vary + or - 15%. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution and 10% propylene glycol, and then packaged in a cardboard box.

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