

# BURTON

## Burton BW 4040

**BW Brackish Water Desalination**  
4 inches\* RO Membrane Element

BW brackish water membrane elements adopt the most advanced polyamide sheets for the treatment of desalination brackish water with TDS less than 8000mg/L whose source is surface water, ground water or others.

- High performance in wiping off  $\text{SiO}_2$
- Reduces energy consumption
- 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

**Burton BW 4040**

### Performance:

Permeate Flow:	2,500 gpd (9.5 m <sup>3</sup> /d)
Salt Rejection:	
Minimum:	99.5 %

### Type:

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

### Application Data\*

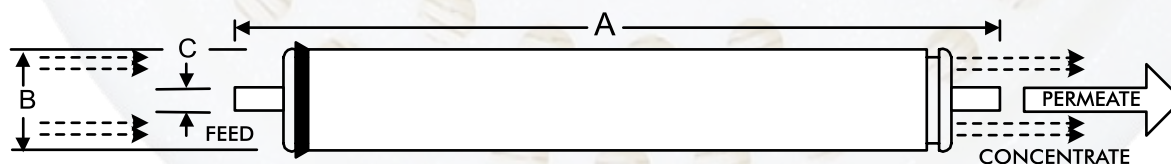
Maximum Applied Pressure:	600 psig (4.16 MPa)
Maximum Chlorine Concentration:	< 0.1 PPM
Maximum Operating Temperature:	113 °F (45 °C)
Feedwater pH Range:	3.0 - 10.0
Maximum Feedwater Turbidity:	1.0 NTU
Maximum Feedwater SDI (15 mins):	5.0
Maximum Feed Flow:	14 GPM (3.2 m <sup>3</sup> /h)
Minimum Ratio 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  
225 psi (1.55 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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