LG Water Solutions

LG Chem

Nano H2O™

Product Data Sheet

LG BW 4040 ES

Energy-saving brackish water RO membrane for commercial applications

Features

- High permeate flow rate and salt rejection at low feed pressures
- Good durability

Benefits

- Low energy consumption
- High permeate water quality

Ideal Applications

- Light industrial process water
- Commercial applications

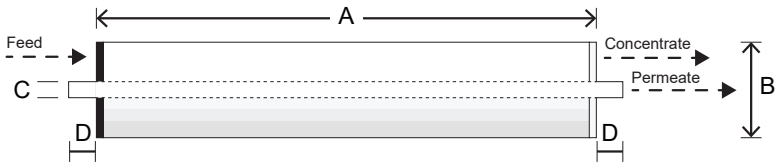
Performance Specifications

Item	Unit	Value
Permeate Flow Rate	GPD (m³/day)	2,500 (9.5)
Stabilized Salt Rejection	%	99.5
Minimum Salt Rejection	%	99.2
Active Membrane Area	ft² (m²)	85 (7.9)
Feed Spacer Thickness	mil	28

The specifications outlined above are normalized performances based on the following test conditions:

- **Test Conditions:** 2,000 ppm NaCl, 150 psi (10.3 bar), 25°C (77°F), pH 7, Recovery 15%
- Permeate flow rates for individual elements may vary by ±20%

Dimensions and Weight



Dimensions: mm (in)				Wet Weight: kg (lbs)
A	B	C	D	
Element Length	Element O.D.	Core Tube I.D.	Core Tube Ext.	3.6 (8.0)
1,016 (40)	100 (3.9)	19 (0.75)	29 (1.1)	

Operating Specifications

Item	Unit	Value
Maximum Applied Pressure	psi (bar)	600 (41.3)
Maximum Chlorine Concentration	ppm	< 0.1
Maximum Operating Temperature	°C (°F)	45 (113)
pH Range, Continuous Operation		2–11
pH Range, Cleaning		2–12
Maximum Feed Water Turbidity	NTU	1.0
Maximum Feed Water SDI_{15}		5.0
Maximum Feed Flow	gpm (m³/h)	16 (3.6)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)

NSF

This product is certified to NSF/ANSI/CAN Standard 61 for drinking water systems

Please visit our website for regional contact information
www.lgwatersolutions.com