

Nano:H<sub>2</sub>O™



### Key Features

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

### Main Benefits

- Low energy consumption
- High permeate water quality
- Well-proven and long-lasting reliability

### Ideal Applications

- Industrial process water
- Municipal drinking water
- 2nd pass SWRO

## Product Data Sheet

# LG BW 440 ES

Energy-saving brackish water RO membrane with proven, long-lasting reliability

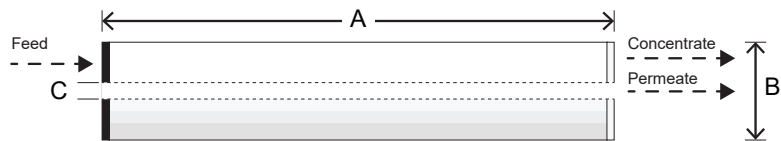
### Performance Specifications

Specification	Unit	Test Condition A	Test Condition B
Permeate Flow Rate	GPD (m <sup>3</sup> /d)	11,550 (43.7)	12,280 (46.5)
Stabilized Salt Rejection	%	99.6	99.66
Minimum Salt Rejection	%	99.5	99.56
Active Membrane Area	ft <sup>2</sup> (m <sup>2</sup> )	440 (41)	
Feed Spacer Thickness	mil	28	

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

- **Test Condition A:** 2,000 ppm NaCl, 150 psi (10.3 bar), 25°C (77°F), pH 7, Recovery 15%
- **Test Condition B (referential only):** 1,500 ppm NaCl, 150 psi (10.3 bar), 25°C (77°F), pH 7, Recovery 15%
- Permeate flow rates for individual elements may vary by ±15%

### Dimensions and Weight



Dimensions: mm (in)			Wet Weight: kg (lbs)
A	B	C	
Element Length	Element O.D.	Core Tube I.D.	16 (35)
1,016 (40)	200 (7.9)	28.6 (1.125)	

### 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 <sub>15</sub>		5.0
Maximum Feed Flow	gpm (m <sup>3</sup> /h)	75 (17)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)



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



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