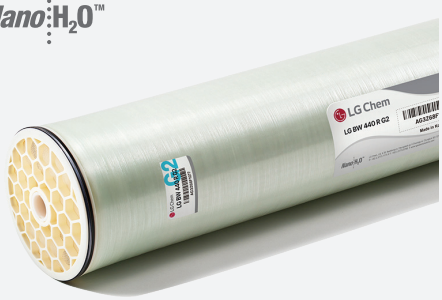
Nano H2O™



Product Data Sheet

LG BW 440 R G2

Highest rejection brackish water RO membrane

Key Features

- Highest salt rejection
- Excellent durability

Main Benefits

- Best permeate water quality
- Stable performance recovery after cleanings

Ideal Applications

- Industrial process water
- Municipal drinking water

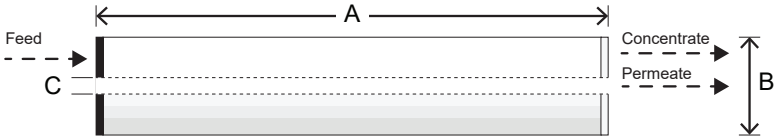
Performance Specifications

Specification	Unit	Test Condition A	Test Condition B
Permeate Flow Rate	GPD (m³/d)	12,650 (47.9)	13,200 (50.0)
Stabilized Salt Rejection	%	99.8	99.82
Minimum Salt Rejection	%	99.65	99.69
Active Membrane Area	ft² (m²)	440 (41)	
Feed Spacer Thickness	mil	28	

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

- **Test Condition A:** 2,000 ppm NaCl, 225 psi (15.5 bar), 25°C (77°F), pH 7, Recovery 15%
- **Test Condition B (referential only):** 1,500 ppm NaCl, 225 psi (15.5 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		1–13
Maximum Feed Water Turbidity	NTU	1.0
Maximum Feed Water SDI_{15}		5.0
Maximum Feed Flow	gpm (m³/h)	75 (17)
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