

Nano:H₂O™



Product Data Sheet

LG BW 440 R Dura

Highly durable brackish water RO membrane with superior salt rejection

Key Features

- Enhanced chemical durability for wide cleaning pH range (1–13)
- Superior salt rejection

Main Benefits

- High permeate water quality
- Effective cleaning performance
- Stable performance recovery after cleanings

Ideal Applications

- Industrial process water
- Municipal drinking water

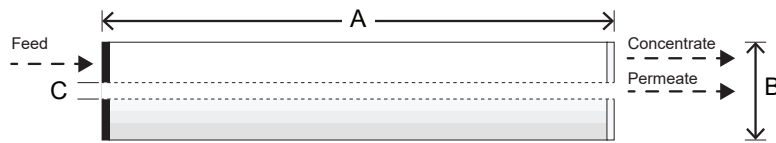
Performance Specifications

Specification	Unit	Test Condition A	Test Condition B
Permeate Flow Rate	GPD (m ³ /d)	12,100 (45.8)	12,650 (47.9)
Stabilized Salt Rejection	%	99.7	99.74
Minimum Salt Rejection	%	99.6	99.65
Active Membrane Area	ft ² (m ²)	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 +20/-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)	

All dimensional information is indicative and for reference only. Please contact LG Water Solutions for detailed technical specifications.

Operating Specifications

Specification	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 (m ³ /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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