

Nano:H₂O™



Key Features

- Highest salt rejection
- Optimized membrane surface hydraulics
- Reduced differential pressure
- Excellent fouling resistance
- Excellent durability

Main Benefits

- Best permeate water quality
- Reduced cleaning frequency, chemical use, and membrane replacements
- Stable performance recovery after cleanings
- Reduced energy consumption and total cost of plant ownership

Ideal Applications

- Industrial process water
- Municipal drinking water
- Water reuse

Product Data Sheet

LG BW 400 R G2

Highest rejection brackish water RO membrane with a 34 mil low dP feed spacer technology

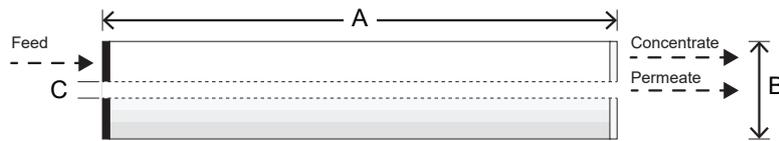
Performance Specifications

| Specification | Unit | Test Condition A | Test Condition B |
|-----------------------------|-----------------------------------|------------------|------------------|
| Permeate Flow Rate | GPD (m ³ /d) | 11,500 (43.5) | 12,000 (45.4) |
| Stabilized Salt Rejection | % | 99.8 | 99.82 |
| Minimum Salt Rejection | % | 99.65 | 99.69 |
| Active Membrane Area | ft ² (m ²) | 400 (37) | |
| Feed Spacer Thickness, Type | mil | 34, low dP | |

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) | |

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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D-BW400RG2-EN-123124

The Membrane Elements performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry accepted good practices and Seller's written instructions provided in the Seller's Technical Manual, which consists of LG Chem, Ltd Technical Service Bulletins ("TSB") and Technical Applications Bulletins ("TAB") and may be viewed and downloaded at www.lgwatersolutions.com. The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. LG Chem assumes no liability for results obtained or damages incurred through the application of the information contained

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