

Data Sheet



**Brackish Water
Reverse Osmosis (RO) Membranes
LG BW 400 AFR**



Overview

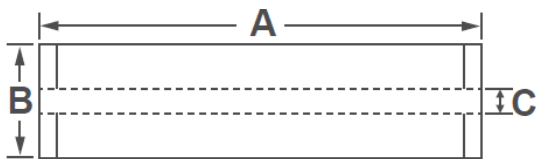
LG Chem's NanoH₂O™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. LG BWRO membranes, all incorporated with innovative Thin Film Nanocomposite (TFN) technology, are offered in industry standard configurations and can easily fit into existing and new RO plants.

LG BW AFR (Anti Fouling/High Rejection) membranes offer a combination of high rejection, reliability, and durability with improved fouling resistance; suitable for challenging brackish water and water reuse applications.

Product Specifications

| Active Membrane Area, ft ² (m ²) | Permeate flow rate, GPD (m ³ /d) | Stabilized Salt Rejection, % | Minimum Salt Rejection, % | Feed Spacer, mil |
|---|---|------------------------------|---------------------------|------------------|
| 400 (37) | 10,500 (39.7) | 99.6 | 99.5 | 34 |

Test Conditions : 2,000 ppm NaCl at 25°C (77°F), 225 psi (15.5 bar), pH 7, Recovery 15%.
Permeate flows for individual elements may vary +/-15%.



| A mm (in.) | B [O.D.] mm (in.) | C [I.D.] mm (in.) | Weight kg (lbs.) |
|------------|-------------------|-------------------|------------------|
| 1,016 (40) | 200 (7.9) | 28.6 (1.125) | 16 (35) |

Operating Specifications

For more information and operating guidelines, visit www.lgwatersolutions.com

| | |
|---|-------------------------------|
| Max. Applied pressure | 600 psi (41 bar) |
| Max. Chlorine concentration | < 0.1 ppm |
| Max. Operating temperature | 45°C (113°F) |
| pH Range, Continuous (Cleaning) | 2-11 (2-12) |
| Max. Feedwater turbidity | 1.0 NTU |
| Max. Feedwater SDI (15 mins) | 5.0 |
| Max. Feed flow | 75 gpm (17 m ³ /h) |
| Max. Pressure drop (ΔP) for each element | 15 psi (1.0 bar) |

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