



**Brackish Water
Reverse Osmosis (RO) Membranes**

LG BW 440 ES
Energy Saving

Overview

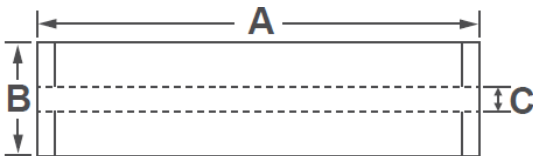
LG Chem's NanoH₂O™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. Incorporating innovative Thin Film Nanocomposite (TFN) technology, all LG BWRO membranes provide superior performance along with intrinsic anti-fouling property and are suitable for applications where consistent and reliable performance is a must.

LG BW ES membranes offer high permeability at low feed pressure, significantly reducing operating costs: suitable for low to medium salinity brackish water 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 |
|---|---|------------------------------|---------------------------|------------------|
| 440 (41) | 11,550 (43.7) | 99.6 | 99.5 | 28 |

Test Conditions : 2,000 ppm NaCl at 25°C (77°F), 150 psi (10.3 bar), pH 7, Recovery 15%.
Permeate flows for individual elements may vary +/-15%.



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

All dimensional information is indicative and for reference purpose only. Please contact LG Chem for detailed technical specification.

Operating Specifications

| | |
|---|-------------------------------|
| 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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