

LG BW 400 ES L

Energy-Saving BWRO membrane equipped with fouling tolerant low dP spacer technology

LOWER

- Differential Pressure
- Fouling Rate
- Total Cost of Plant Ownership



LG BW 400 ES L — LG Chem's latest brackish water reverse osmosis (RO) membrane element uses the proven energy-saving ES membrane and incorporates a unique feed spacer technology for reducing differential pressure.

The result? Lower fouling, cleaning frequency, chemical use, and energy consumption for improved plant efficiency and uptime.

Novel Low dP Feed Spacer



Streamlined water flow for
minimized pressure losses

Enhanced Fouling Resistance



Reduced CIP's with
consistent high performance

Optimized Cost-Performance



Lower plant downtime for
CAPEX & OPEX savings



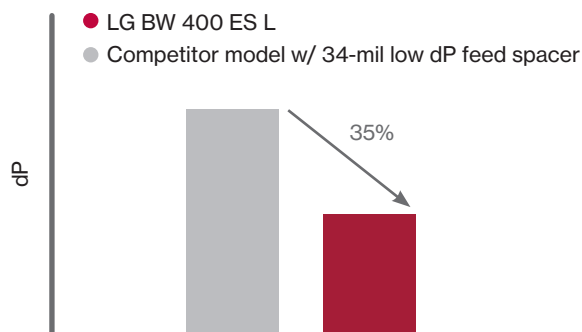
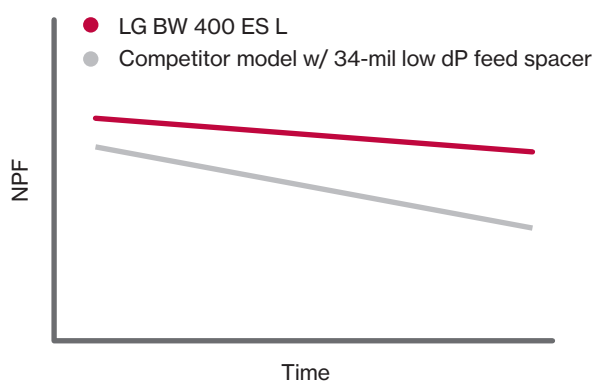
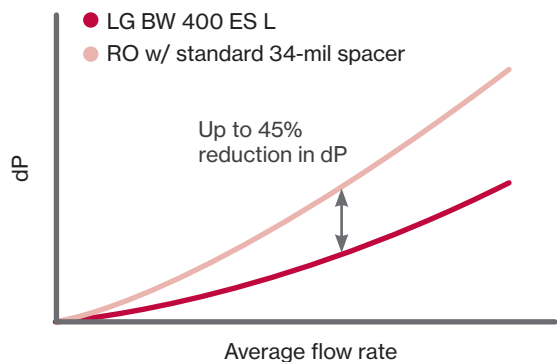
RO Performance

**10,500 GPD (39.7 m³/d) permeate flow rate and
99.6% stabilized NaCl rejection**

2,000 ppm NaCl, 150 psi (10.3 bar) feed pressure, 400 ft² membrane area

LG Chem's exclusive Thin-film Nanocomposite (TFN) technology is incorporated in all LG NanoH2O™ RO membranes for outstanding performance

Key Benefits



The L Spacer combined with LG Chem's Energy-Saving ES membrane delivers the following key benefits

Up to 45% reduction in differential pressure (dP) at typical flow rates

Improved fouling resistance results in a 50% lower NPF* decrease rate minimizing cleaning frequencies, chemical use, and plant downtime

*NPF = Normalized Permeate Flow

Up to 35% lower pressure loss provides energy savings

LG BW 400 ES L is ideal for treating feed water with low to medium salinity and fouling potential. Example applications include:

Municipal Wastewater Reuse
Industrial Wastewater Reuse
Municipal Potable Water

Industrial Process Water:

- Deionized Water
- Boiler Feed Water
- Ultra Pure Water

[Click to download product datasheet](#)



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