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

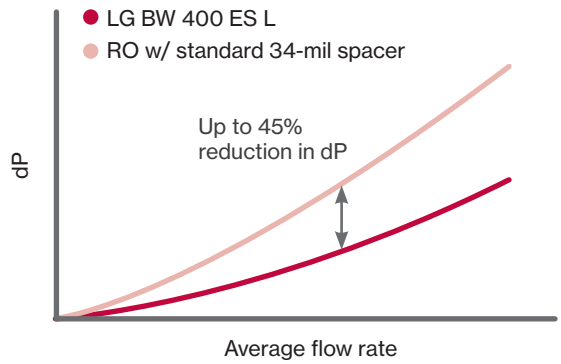
10,500 GPD (39.7 m³/d) permeate flow rate and 99.6% stabilized NaCl rejection

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

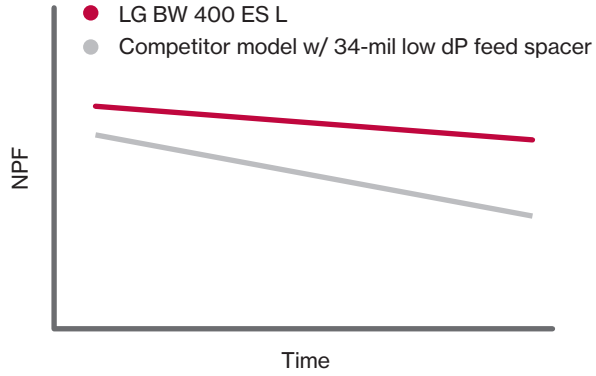
LG Chem's exclusive Thin-film Nanocomposite (TFN) technology is incorporated in all LG NanoH2O™ RO membranes for outstanding performance

Key Benefits

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

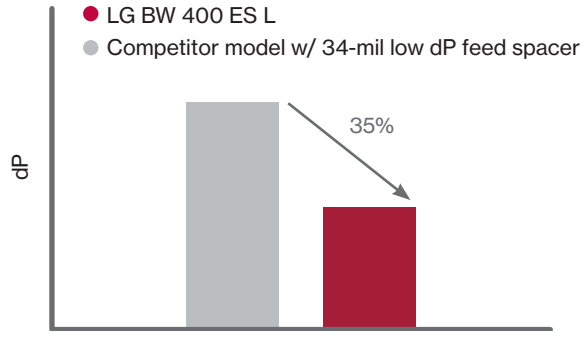


Up to 45% reduction in differential pressure (dP) at typical flow rates



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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