

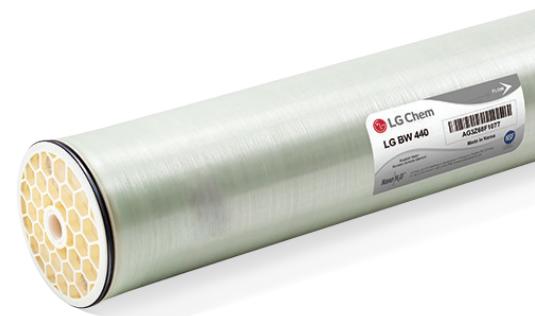
LG BW 440 ES L

Excellent Anti-Fouling Properties with Low Energy Consumption

LG BW 440 ES L is engineered with an advanced feed spacer technology designed to optimize the flow regime on the membrane surface. The innovative technology combined with the well-proven LG BW ES membrane results in lower differential pressure and enhanced fouling tolerance. LG BW 440 ES L lead to a marked decrease in cleaning frequency, chemical usage, and energy consumption, and thus reduces your plant's overall operational costs. Maximize Plant Uptime with LG BW 440 ES L.

LG BW 440 ES L is an ideal solution for industrial process water and wastewater reuse systems seeking OPEX savings without compromising productivity. Moreover, the RO element is highly suited for second-pass SWRO systems, lowering the cost of desalination.

Product Specifications	
Permeate flow rate	11,550 GPD (43.7 m ³ /d)
Stabilized NaCl rejection	99.6%
Active membrane area	440 ft ² (41 m ²)

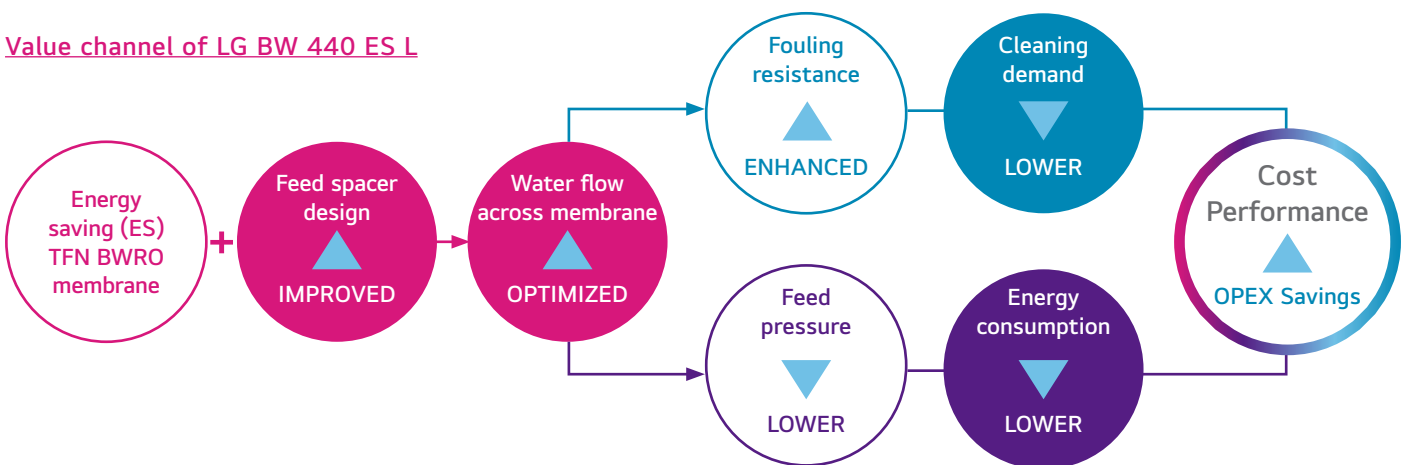


Test conditions: 2,000 ppm NaCl, 150 psi (10.3 bar) feed pressure, 15% recovery, pH 7

LG NanoH₂O™ brackish water RO membranes, integrating the advanced low dP feed spacer, optimize water flow and turbulence across the membrane, resulting in:

- Enhanced fouling resistance ▶▶ Lower cleaning demand
- Lower feed pressure ▶▶ Reduced energy consumption

Value channel of LG BW 440 ES L



*The following LG NanoH₂O™ brackish water RO membrane models integrate LG Chem's proprietary Low dP Feed Spacer: **BW 440 ES L, BW 400 ES L, BW 400 R G2, BW 400 R Dura, BW 400 AFR G2**

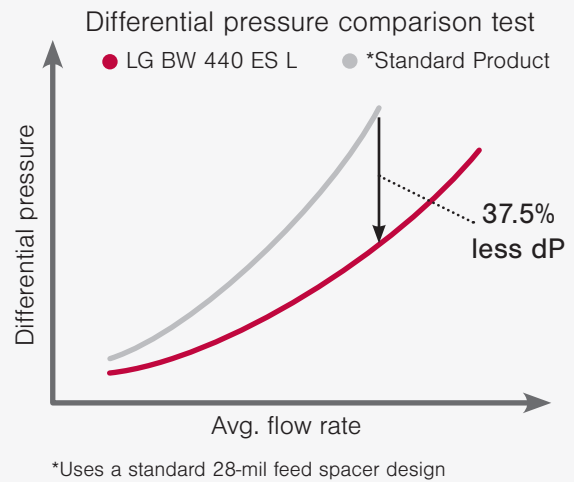
Advantages of LG BW 440 ES L

Low differential pressures (LDP) vs. Standard 28-mil feed spacer comparison

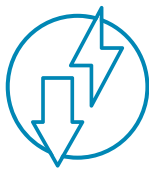


LG BW 440 ES L reduces differential pressure by 30–40% resulting in:

- Fewer cleanings ▶▶ less chemical use, labour, and plant downtime
- Lower feed pressure ▶▶ reduced energy consumption and CO₂ emissions
- Extended membrane lifespan ▶▶ fewer membrane replacements, and associated labour and plant downtime



Key Advantages of LG BW 440 ES L



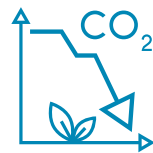
Low differential pressure for low energy consumption

Lower feed pressure and specific energy consumption



Reduced operating expenditure for plant operators

Fewer cleaning frequencies for lower RO system maintenance costs and obligations



Advancing sustainability through improved RO efficiency

Reduced CO₂ emissions, consumable usage, and waste products

LG BW 440 ES L is ideal for the following applications:

Industrial process water, Wastewater reuse, and Second-pass SWRO

[Click to download product datasheet](#)

www.lgwatersolutions.com

Please visit our website for regional contact information or email us at waterinfo@lgchem.com

LinkedIn YouTube

The information 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 herein. Customer is responsible for determining whether the products and information presented are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice. NanoH₂O is the Trademark of LG Chem. All rights reserved. © LG Chem, Ltd.

Nano:H₂O™