Product Fact Sheet

MaxRO

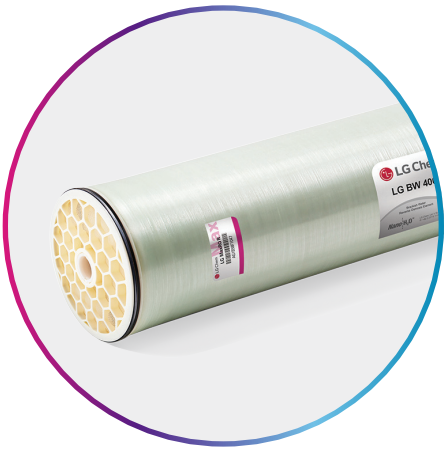
Maximized Performance for the Most Challenging Applications

# LG MaxRO R

MaxRO is a suite of membrane products engineered with the quintessence of LG Chem's best RO membrane and innovative module fabrication technologies.

LG MaxRO R is the highest rejection BWRO membrane integrated with an innovative 36 mil ultra-low dP (ULD) feed spacer designed to optimize the flow regime on the membrane surface. The results are superior water quality with significantly reduced differential pressure and membrane fouling potential.

LG MaxRO R is for the most challenging membrane applications requiring high salt rejection, robust durability, and excellent fouling resistance. The benefits include a marked decrease in cleaning frequency, chemical usage, membrane replacements, and overall plant operational costs. **Maximize Plant Uptime with LG MaxRO R.**



## Core Features

Membrane
**Highest rejection BWRO**

Feed spacer
**36 mil ultra-low dP (ULD)**

Performance Specifications

Permeate flow rate
**11,500 GPD (43.5 m³/d)**

Stabilized salt rejection
**99.8%**

Active membrane area
**400 ft² (37 m²)**

Performance specifications based on the following test conditions:
2,000 ppm NaCl, 225 psi (15.5 bar) feed pressure, 15% recovery, pH 7

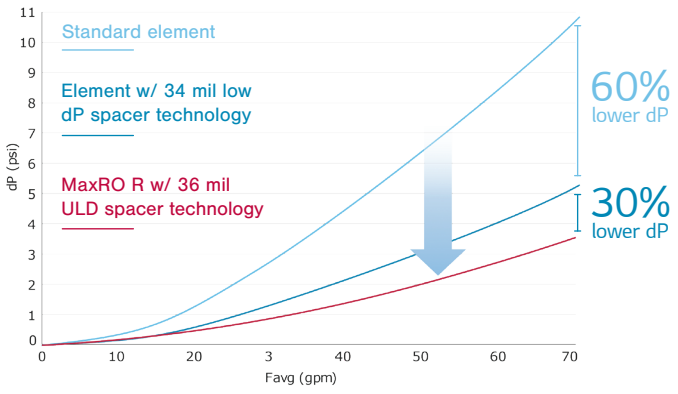
Click to download the product datasheet for MaxRO R

## Innovative 36 mil ULD Spacer Technology

Thickness of feed spacer ▲ INCREASED + Structure of feed spacer ▲ IMPROVED + Thickness of strand ▲ OPTIMIZED

**LG MaxRO R incorporates the industry's first 36 mil ultra-low dP spacer technology**. The enhancements to the feed spacer optimize membrane surface hydraulics, resulting in **significantly lower pressure drop** (as shown in Graph A) and **excellent anti-fouling properties.**

Graph A: Differential Pressure Comparison Test

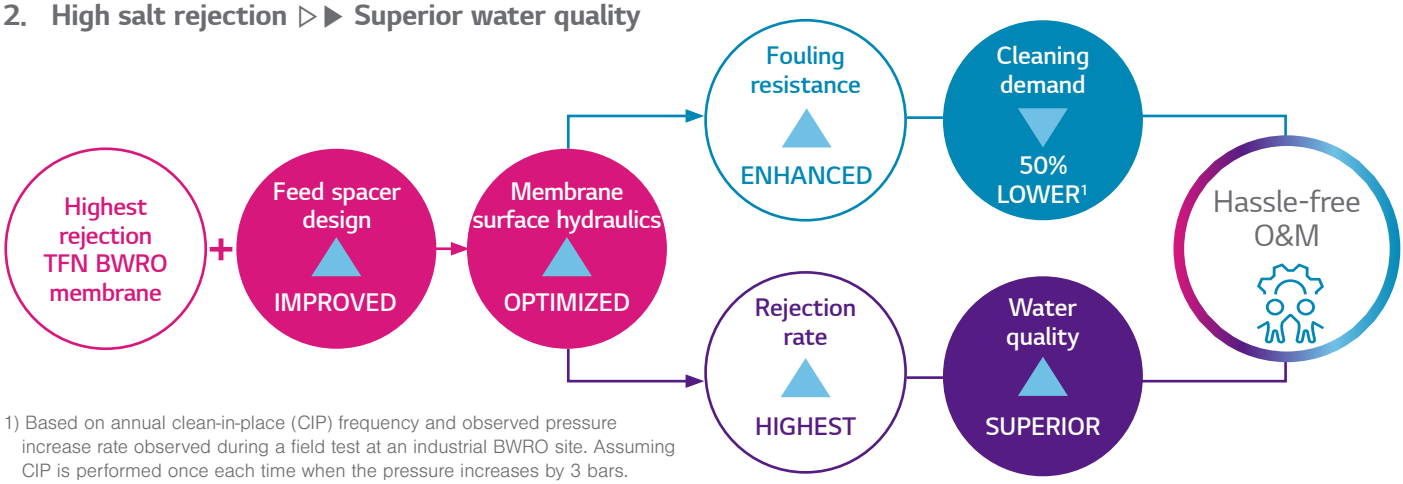



NanoH₂O™

## Value Proposition of LG MaxRO R

LG Nano$H_2O$™ brackish water RO membranes, incorporating the innovative ultra-low dP spacer technology, optimize membrane surface hydraulics, resulting in:

1. **Enhanced fouling resistance ▷▶ Lower cleaning demand**
2. **High salt rejection ▷▶ Superior water quality**




1) Based on annual clean-in-place (CIP) frequency and observed pressure increase rate observed during a field test at an industrial BWRO site. Assuming CIP is performed once each time when the pressure increases by 3 bars.

## What is MaxRO?

MaxRO is a suite of membrane products engineered with the quintessence of LG Chem's best RO membrane and innovative module fabrication technologies

Best RO Membrane Technology + Innovative Module Fabrication Technology = MaxRO

Maximized Performance for the Most Challenging Applications

**Maximize Plant Uptime**

Discover the full-line of high-performance RO membrane technologies by LG Water Solutions that reduce the total cost of plant ownership and maximizes plant uptime.

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Nano$H_2O$™