

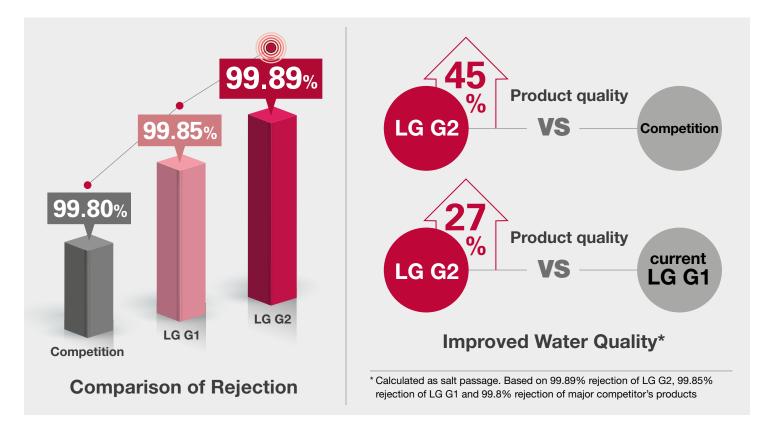
# Changing the Economics of Desalination AGAIN



LG Chem, the supplier of the full line of NanoH<sub>2</sub>O<sup>™</sup> reverse osmosis (RO) membranes, proudly introduces LG SW G2, the next generation SWRO membranes. Boasting 99.89% rejection, further improvement from the current LG SWRO membranes' 99.85% rejection, LG SW G2 membranes can significantly reduce the cost of desalination. LG SW G2 membranes went through extensive field verification tests and showed superior performance.

### **Record-Breaking 99.89% Rejection**

With enhanced Thin Film Nanocomposite (TFN) technology, the next generation LG SW G2 membranes have achieved record-breaking 99.89% rejection, improving the product quality up to 45% compared with the conventional technology.



Nano:H2U



### LG SW G2 Benefits

- With industry's highest 99.89% rejection, LG SW G2 membranes can provide
  - Improved permeate quality without increasing operating pressure
  - Reduced energy cost without sacrificing the permeate quality
  - Reduced capital and operation costs for multi-pass SWRO systems

#### LG SW G2 8-inch product specification

Product	Active Membrane Area, ft <sup>2</sup> (m <sup>2</sup> )	Permeate Flow Rate, GPD (m <sup>3</sup> /d)	Stabilized Salt Rejection, %	Minimum Salt Rejection, %	Boron Rejection, %	Feed Spacer, mil
LG SW 400 SR G2	400 (37)	6,000 (22.7)	99.89	99.75	93	28 or 34
LG SW 440 SR G2	440 (41)	6,600 (25.0)	99.89	99.75	93	28
LG SW 400 GR G2	400 (37)	7,500 (28.4)	99.89	99.75	93	28 or 34
LG SW 440 GR G2	440 (41)	8,250 (31.2)	99.89	99.75	93	28

Test Conditions: 32,000 ppm NaCl, 5 ppm boron at 25°C (77°F), 800 psi (55 bar), pH 8, Recovery 8%. Permeate flows for individual elements may vary +/-15%.

## Changing the Economics of Desalination

Based on the desktop simulation study to compare LG SW G2 vs competition:

