LG Chem

LG Water Solutions

# Data Sheet

**Brackish Water**
**Reverse Osmosis (RO) Membranes**

## LG BW 400 R G2

Superior rejection, flow and durability

## Overview

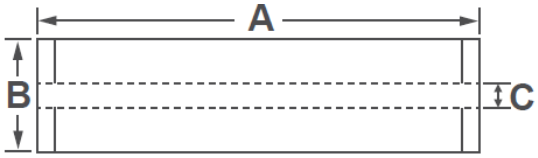
LG Chem's Nano$H_2O$™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. LG BWRO membranes, all incorporated with innovative Thin Film Nanocomposite (TFN) technology, are offered in industry standard configurations and can easily fit into existing and new RO plants.

LG BW R G2 membranes offer a combination of superior rejection, flow and durability and reduce total cost of ownership: optimal for high salinity brackish water and wastewater reuse applications.

## Product Specifications

| Active Membrane Area, ft² (m²) | Permeate flow rate, GPD (m³/d) | Stabilized Salt Rejection, % | Minimum Salt Rejection, % | Feed Spacer, mil |
|---|---|---|---|---|
| 400 (37) | 11,500 (43.7) | 99.78 | 99.65 | 34 |

Test Conditions : 2,000 ppm NaCl at 25°C (77°F), 225 psi (15.5 bar), pH 7, Recovery 15%. Permeate flows for individual elements may vary +/-15%.




| A, mm (in.) | B, mm (in.) | C, mm (in.) | Weight, kg (lbs.) |
|---|---|---|---|
| 1,016 (40) | 200 (7.9) | 28.6 (1.125) | 16 (35) |

## Operating Specifications

| | |
|---|---|
| **Max. Applied pressure** | 600 psi (41 bar) |
| **Max. Chlorine concentration** | < 0.1 ppm |
| **Max. Operating temperature** | 45°C (113°F) |
| **pH Range, Continuous (Cleaning)** | 2-11 (1-13) |
| **Max. Feedwater turbidity** | 1.0 NTU |
| **Max. Feedwater SDI (15 mins)** | 5.0 |
| **Max. Feed flow** | 75 gpm (17 $m^3$/h) |
| **Max. Pressure drop (ΔP) for each element** | 15 psi (1.0 bar) |



(02.21)



Nano$H_2O$™