

# Superior Quality Leads to Repeat Customers



## Brackish Water Reverse Osmosis (RO) Membranes



### Overview

LG Chem's NanoH<sub>2</sub>O™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. Incorporating innovative Thin Film Nanocomposite (TFN) technology, all LG BWRO membranes provide superior performance along with intrinsic anti-fouling property and are suitable for applications where consistent and reliable performance is a must.



#### LG BW R G2

Superior Rejection, High Flow, High Durability

#### LG BW AFR

Anti-Fouling, High Rejection

#### LG BW R Dura

High Rejection, High Durability

#### LG BW ES

Energy Saving

#### LG BW R

High Rejection

#### LG BW UES

Ultra Low Energy

## LG BWRO Membranes

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, %	Feed Spacer, mil	Test Pressure, psi (bar)
High Rejection	LG BW 400 R G2	400 (37)	11,500 (43.7)	99.78	99.65	34, low dP	225 (15.5)
	LG BW 440 R G2	440 (41)	12,650 (47.9)	99.78	99.65	28	
	LG BW 400 R Dura	400 (37)	10,500 (39.7)	99.7	99.6	34, low dP	
	LG BW 440 R Dura	440 (41)	11,550 (43.7)	99.7	99.6	28	
	LG BW 400 R	400 (37)	10,500 (39.7)	99.6	99.5	34	
	LG BW 440 R	440 (41)	11,550 (43.7)	99.6	99.5	28	
	LG BW 400 AFR	400 (37)	10,500 (39.7)	99.6	99.5	34	
Low Pressure	LG BW 400 ES	400 (37)	10,500 (39.70)	99.6	99.5	34	150 (10.3)
	LG BW 440 ES	440 (41)	11,550 (43.70)	99.6	99.5	28	
Ultra Low Pressure	LG BW 400 UES	400 (37)	11,500 (43.5)	99.0	98.0	34	125 (8.6)
	LG BW 440 UES	440 (41)	12,650 (47.7)	99.0	98.0	28	

Test Conditions : 2,000 ppm NaCl at 25°C (77°F), pH 7, Recovery 15%

## Light Commercial RO Membranes

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, %	Feed Spacer, mil	Recovery, %	Test Pressure, psi (bar)
High Rejection <sup>1</sup>	LG BW 4040 R	85 (7.9)	2,500 (9.5)	99.6	99.3	28	15	225 (15.5)
	LG BW 4040 AFR	75 (7.0)	2,300 (8.7)	99.6	99.3	34	15	
	LG BW 4021 R	34 (3.2)	1,000 (3.8)	99.6	99.3	28	8	
	LG BW 2540 R*	26 (2.5)	750 (2.8)	99.6	99.3	22	15	
	LG BW 2521 R	9 (0.9)	345 (1.3)	99.6	99.3	28	8	
Low Pressure <sup>1</sup>	LG BW 4040 ES	85 (7.9)	2,500 (9.5)	99.5	99.2	28	15	150 (10.3)
	LG BW 4021 ES	34 (3.2)	1,000 (3.8)	99.5	99.2	28	8	
	LG BW 2540 ES*	26 (2.5)	750 (2.8)	99.5	99.2	22	15	
	LG BW 2521 ES	9 (0.9)	345 (1.3)	99.5	99.2	28	8	
Ultra Low Pressure <sup>2</sup>	LG CW 4040 SF**	85 (7.9)	2,900 (11.0)	99.0	98.0	28	15	100 (6.9)
	LG BW 4040 UES	85 (7.9)	2,700 (10.2)	99.0	98.0	28	15	
	LG BW 4021 UES	34 (3.2)	1,000 (3.8)	99.0	98.0	28	8	
	LG BW 2540 UES	21 (2.0)	750 (2.8)	99.0	98.0	28	15	
	LG BW 2521 UES	9 (0.9)	345 (1.3)	99.0	98.0	28	8	

Test conditions<sup>1</sup>: 2,000 ppm NaCl at 25°C (77°F), pH 7

Test conditions<sup>2</sup>: 500 ppm NaCl at 25°C (77°F), pH 7

\*The product is under development, and all figures stated in this table are subject to change.

\*\*Dry type