



LG Water Solutions

## 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 Nano composite (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 AFR G2

Anti-Fouling, High Rejection, High Flow, High Durability

#### LG BW AFR

Anti-Fouling, High Rejection

#### LG BW R G2

Superior Rejection, High Flow, High Durability

#### LG BW ES

Energy Saving

#### LG BW R Dura

High Rejection, High Durability

#### LG BW UES

Ultra Low Energy

#### LG BW R

High Rejection

### 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 Standard	LG BW 440 R G2	440	12,650	99.78	99.65	28	225 (15.5)
	LG BW 440 R Dura	440	11,550	99.70	99.60	28	
	LG BW 440 R	440	11,550	99.60	99.50	28	
	LG BW 400 R	400	10,500	99.60	99.50	34	
High Rejection Anti-fouling	LG BW 400 R G2	400	11,500	99.78	99.65	34, low dP	
	LG BW 400 AFR G2	400	11,500	99.70	99.60	34, low dP	
	LG BW 400 R Dura	400	10,500	99.70	99.60	34, low dP	
	LG BW 400 AFR	400	10,500	99.60	99.50	34	
Low Pressure Standard	LG BW 440 ES	440	11,550	99.60	99.50	28	150 (10.3)
	LG BW 400 ES	400	10,500	99.60	99.50	34	
Ultra Low Pressure	LG BW 440 UES	440	12,650	99.00	98.00	28	125 (8.6)
	LG BW 400 UES	400	11,500	99.00	98.00	34	

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 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 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

\*Dry type