

LG Membranes

by  Pollet Water Group



PROVEN QUALITY

Based on years of experience and knowledge of the water treatment industry, Pollet Water Group complements its range of membranes with the NanoH2O™ line reverse osmosis membranes from LG Chem. Thin-film membranes are widely used in water treatment processes as a means of removing contaminants and purifying water from a broad range of sources. LG Chem develops and manufactures reverse osmosis (RO) membranes that are used in various applications ranging from seawater desalination to waste water reuse.

Brackish Water

OVERVIEW

LG BW AFR G2

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

LG BW R G2

Superior Rejection, High Flow, High Durability

LG BW R DURA

High Rejection, High Durability

LG BW R

High Rejection

LG BW AFR

Anti-Fouling, High Rejection

LG BW ES

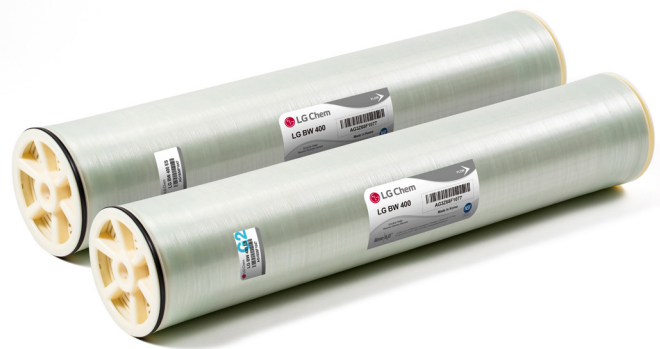
Energy Saving

LG BW UES

Ultra Low Energy

SPECIFICATIONS

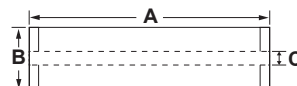
Max. Applied pressure	41 bar
Max. Chlorine concentration	< 0.1 ppm
Max. Operating temperature	45°C
pH Range, Continuous (Cleaning)	2-11 (2-13)
Max. Feedwater turbidity	1.0 NTU
Max. Feedwater SDI (15 mins)	5
Max. Feed flow (8-inch)	17m ³ /h
Max. Feed flow (4-inch)	3.6m ³ /h
Max. Pressure drop (ΔP) for each element	1.0 bar



DIMENSIONS

LG BW 400/440

8 INCH

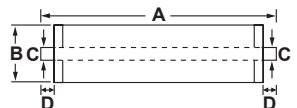


A	B (O.D.)	C (I.D.)
1016 mm	200 mm	28,6 mm

WEIGHT: 16 kg

LG BW 4040/2521/2540

4 INCH



	A	B (O.D.)	C (I.D.)	D
LG BW 4040	1016 mm	100 mm	19 mm	29 mm
LG BW 2521	533mm	60mm	19mm	32mm
LG BW 2540	1016mm	60mm	19mm	32mm

WEIGHT: 4 kg

LG Chem's NanoH₂O™ 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 BWRO MEMBRANES

Type	Part Code	Membrane	Permeate Flow Rate, m3/d	Stabilized Salt Rejection, %	Minimum Salt Rejection, %	Feed Spacer, mil	Test Pressure, bar
High Rejection Standard	1121030017	LG BW 440 R G2	47.9	99.78	99.65	28	15.5
	1121030022	LG BW 440 R Dura	43.7	99.70	99.60	28	
	1121030003	LG BW 440 R	43.7	99.60	99.50	28	
	1121030002	LG BW 400 R	39.8	99.60	99.50	34	
High Rejection Anti-fouling	1121030018	LG BW 400 R G2	43.5	99.78	99.65	34	
	1121030021	LG BW 400 AFR G2	43.5	99.70	99.60	34	
	1121030019	LG BW 400 R Dura	39.8	99.70	99.60	34	
	1121030006	LG BW 400 AFR	39.8	99.60	99.50	34	
Low Pressure Standard	1121030005	LG BW 440 ES	43.7	99.60	99.50	28	10.3
	1121030004	LG BW 400 ES	39.8	99.60	99.50	34	
Ultra Low Pressure	1121030015	LG BW 440 UES	47.9	99.00	98.00	28	8.6
	1121030014	LG BW 400 UES	43.5	99.00	98.00	34	

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

LIGHT COMMERCIAL LG BWRO MEMBRANES

Type	Part Code	Membrane	Permeate Flow Rate, m3/d	Stabilized Salt Rejection, %	Minimum Salt Rejection, %	Feed Spacer, mil	Test Pressure, bar
High Rejection ¹	1121020001	LG BW 4040 R	9.5	99.60	99.30	28	15.5
	1121020010	LG BW 4021 R	3.8	99.60	99.30	28	
Low Pressure ¹	1121020002	LG BW 4040 ES	9.5	99.50	99.20	28	10.3
	1121020008	LG BW 4021 ES	3.8	99.50	99.20	28	
	1121010001	LG BW 2521 ES	1.3	99.50	99.20	28	
Ultra Low Pressure ²	1121020005	LG CW 4040 SF*	11.0	99.00	98.0	28	6.9
	1121020003	LG BW 4040 UES	10.2	99.00	98.0	28	
	1121020009	LG BW 4021 UES	3.8	99.00	98.0	28	
	1121010003	LG BW 2540 UES	2.8	99.00	98.0	28	

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

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

*Dry type



Seawater

OVERVIEW

LG SW SR G2 AND GR G2

The next generation membranes with industry-leading salt rejection

LG SW SR, GR AND R

High Rejection Membranes

Well suited for high feed TDS and high permeate quality requirements

LG SW ES

Energy-Saving Membranes

Well suited for low feed TDS and low temperature seawater applications



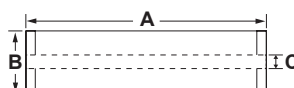
SPECIFICATIONS

Max. Applied pressure	82.7 bar
Max. Chlorine concentration	< 0.1 ppm
Max. Operating temperature	45°C
pH Range, Continuous (Cleaning)	2-11 (2-13)
Max. Feedwater turbidity	1.0 NTU
Max. Feedwater SDI (15 mins)	5
Max. Feed flow (8-inch)	17m ³ /h
Min. Ratio of concentrate to permeate flow for any element	5:1
Max. Pressure drop (ΔP) for each element	1.0 bar
Boron Rejection	93% (except for ES: 89%)

DIMENSIONS

LG SW 400/440

8 INCH

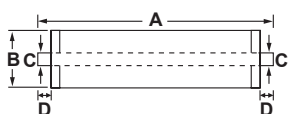


A	B (O.D.)	C (I.D.)
1016 mm	200 mm	28,6 mm

WEIGHT: 16 kg

LG SW 4040

4 INCH



	A	B (O.D.)	C (I.D.)	D
LG SW 4040	1016 mm	100 mm	19 mm	29 mm

WEIGHT: 4 kg

Join our mission.

Make water count.

LG Chem's NanoH2O™ seawater RO membranes, incorporated with innovative Thin Film Nanocomposite (TFN) technology, reduce the cost of desalination while delivering superior water quality. Our seawater RO membranes provide industry leading salt rejection and produce 20% more flow than membranes manufactured with conventional technologies.

LG SW G2 MEMBRANES

Part Code	Membrane	Permeate Flow Rate, m3/d	Stabilized Salt Rejection, %	Minimum Salt Rejection, %	Feed Spacer, mil
TBD	LG SW 400 SR G2	22.7	99.89	99.75	28 or 34
TBD	LG SW 440 SR G2	25.0	99.89	99.75	28
TBD	LG SW 400 GR G2	28.4	99.89	99.75	28 or 34
TBD	LG SW 440 GR G2	31.2	99.89	99.75	28

Test Conditions: 32,000 ppm NaCl, 5 ppm boron at 25°C (77°F), 55 bar (800 psi), pH 8, Recovery 8%.
 LG SW G2 membranes are not available from stock - minimum order quantity 100pcs

LG SWRO MEMBRANES

Part Code	Membrane	Permeate Flow Rate, m3/d	Stabilized Salt Rejection, %	Minimum Salt Rejection, %	Feed Spacer, mil
1121030007	LG SW 400 SR	22.7	99.85	99.7	28 or 34
1121030008	LG SW 440 SR	25.0	99.85	99.7	28
1121030009	LG SW 400 GR	28.4	99.85	99.7	28 or 34
1121030010	LG SW 440 GR	31.2	99.85	99.7	28
1121030011	LG SW 400 R	34.1	99.85	99.7	28 or 34
1121030001	LG SW 440 R	37.5	99.85	99.7	28
1121030012	LG SW 400 ES	51.9	99.80	99.6	34
1121030013	LG SW 440 ES	57.0	99.80	99.6	28
1121030023	LG SW 4040 R	7.4	99.70	99.50	28

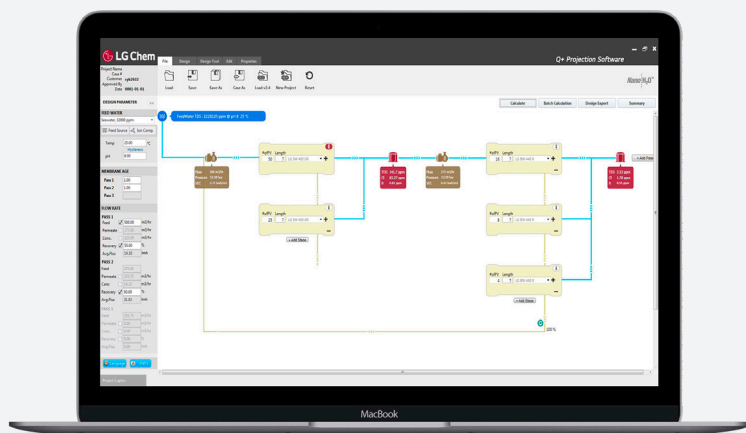
Test Conditions: 32,000 ppm NaCl, 5 ppm boron at 25°C (77°F), 55 bar (800 psi), pH 8, Recovery 8%.



LG

LG BW

Brackish Water
Reverse Osmosis



LG Q+ & QSEE SOFTWARE

Design your RO and model the performance specific for your feed water quality with the Q+ design and projection software.

QSee Normalization Software is a web-based tool for normalization & visualization of operating data.

WHY LG MEMBRANES?

- ✓ All membranes are incorporated with innovative Thin Film Nanocomposite (TFN) technology, reducing the cost of desalination while delivering superior water quality
- ✓ LG membranes have proven their quality, the brand has a good reputation
- ✓ LG offers a complete seawater & brackish water range
- ✓ Q+ Intuitively designed projection software

INTERESTED IN LG MEMBRANES?

Contact your local Pollet Water Group company, find your company on:
www.polletwatergroup.com

