AG LE H Series

FACT SHEET

High Performance, Low Energy, High Rejection Brackish Water Reverse Osmosis (RO) Spiral Wound Membranes

The AG LE H Series reverse osmosis (RO) spiral wound membranes are designed to perform in brackish water applications where the customer and application seek to balance low energy and high rejection requirements. AG LE H Series spiral wound membranes optimize Veolia chemistry and manufacturing advancements to deliver differentiated performance over the life of the spiral wound membrane. In contrast to ultra-low energy AK H Series, the AG LE H Series spiral wound membranes are often used with the need to control flux due to increased risk of fouling such as when a surface water source is used.

All AG LE H Series spiral wound membranes have NSF/ANSI/CAN 61 certification and halal certification.

Table 1: Specification

Membrane	Thin-film membrane (TFM), polyamide

Model	Average Permeate Flow gpd (m^3/day) (1,3)	Average NaCl Rejection (2,3)	Minimum NaCl Rejection (2,3)
AG-90 LE H	1,950 (7.4)	99.65%	99.2%
AG-400 LE H	10,000 (37.9)	99.65%	99.2%
AG-440 LE H	11,000 (41.6)	99.65%	99.2%

(1) Individual flow rate may vary with a minimum of 8,000 gpd (30.3 m^3/day) for the AG-400 LE H and 8,800 gpd (33.3 m^3/day) for the AG-440 LE H.

(2) Stabilized salt rejection after 24 hours of operation.

(3) Testing conditions: 2,000 ppm NaCl solution at 150 psi (1,034 kPa) operating pressure, 77°F (25°C), pH 7 and 15% recovery.

Table 2: Properties (4)

Model	Active Area ft^2 (m^2)	Outer Wrap	Feed Spacer mil(mm)	Part Number
AG-90 LE H	90 (8.3)	Fiberglass	34 (0.86)	3229185
AG-400 LE H	400 (37.2)	Fiberglass	34 (0.86)	3187569
AG-440 LE H	440 (40.9)	Fiberglass	28 (0.71)	3187650

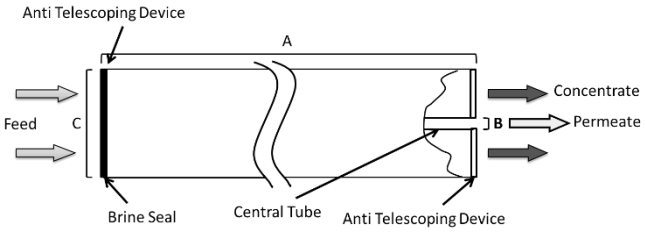

Figure 1: Dimensions Diagram - 8 inch diameter

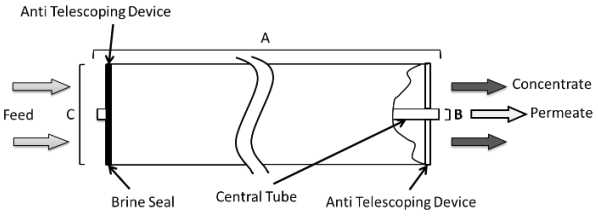

Figure 2: Dimensions Diagram – 4 inch diameter

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Table 3: Dimensions and Weights (4)

Model	Figure	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
AG-90 LE H	2	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	9 (4)
AG-400 LE H	1	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	40 (18)
AG-440 LE H	1	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	42 (19)

Table 4: Operating and CIP Parameters (4)

Typical Operating Pressure	150 psi (1,034 kPa)
Typical Operating Flux	10-20 GFD (15-35 LMH)
Maximum Operating Pressure	600 psi (4,137 kPa)
Maximum Temperature	Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
pH Range	Optimum rejection: 7.0-7.5 Continuous operation: 2.0-11.0 Clean-In-Place (CIP): 1.0-12.0 (5)
Maximum Pressure Drop	Over an element: 15 psi (103 kPa) Per housing: 50 psi (345 kPa)
Chlorine Tolerance	1,000+ ppm-hours, dechlorination recommended
Feedwater	NTU < 1 SDI_{15} < 5

(4) Spiral wound membrane properties and parameters are indicative numbers. Specific values by spiral wound membrane may vary within normal manufacturing tolerances.

(5) Please refer to Cleaning Guidelines Technical Bulletin TB1194.

Additional Information

Each AG LE H Series model is preserved in a 1% weight sodium bisulfite solution, and vacuum packed in oxygen barrier bags.

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