AG Series

FACT SHEET

Standard brackish water reverse osmosis spiral wound membranes

The AG Series standard brackish water reverse osmosis (RO) spiral wound membranes are characterized by high sodium chloride rejection. AG Series spiral wound membranes are selected when high rejection and operating pressures as low as 200 psi (1,379 kPa) are desired. The AG Series is considered a standard in the industry.

Table 1:Specification

Membrane	Thin-film membrane (TFM)

Model	Average Permeate Flow gpd (m^3/day) (1,3)	Average NaCl Rejection (2,3)	Minimum NaCl Rejection (2,3)
AG2540TM	750 (2.8)	99.65%	99.4%
AG4025T	1,600 (6.1)	99.65%	99.4%
AG4040FM	2,400 (9.1)	99.65%	99.4%
AG4040TM	2,400 (9.1)	99.65%	99.4%
AG8040F	10,000 (37.9)	99.65%	99.4%
AG8040F-400	11,000 (41.6)	99.65%	99.4%
AG8040F-440	12,000 (45.4)	99.65%	99.4%

(1) Individual flow rate may vary ±20%.

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

(3) Testing conditions: 2,000 ppm NaCl solution at 225 psi (1,551 kPa) operating pressure, 77°F (25°C), pH 7.5 and 15% recovery.

Table 2:Properties (4)

Model	Active Area ft^2 (m^2)	Outer Wrap	Feed Spacer mil (mm)	Part Number
AG2540TM	27 (2.5)	Tape	30 (0.76)	1206729
AG4025T	60 (5.6)	Tape	30 (0.76)	1206754
AG4040FM	85 (7.9)	Fiberglass	34 (0.86)	3032513
AG4040TM	85 (7.9)	Tape	34 (0.86)	3032514
AG8040F	365 (33.9)	Fiberglass	34 (0.86)	3032515
AG8040F-400	400 (37.2)	Fiberglass	34 (0.86)	3032518
AG8040F-440	440 (40.9)	Fiberglass	28 (0.71)	3194307

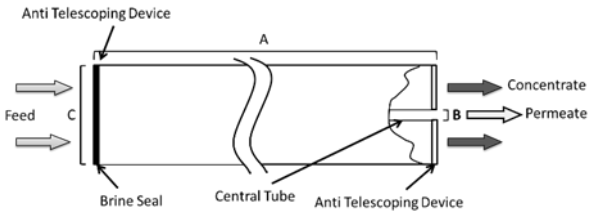

Figure 1:Dimensions Diagram for AG Series Models with 8040 or 4025 Designation

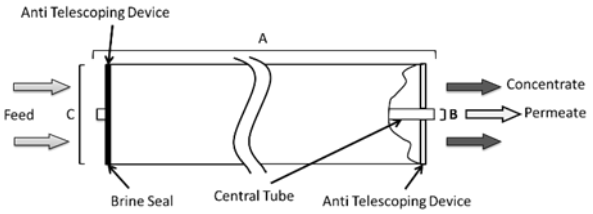

Figure 2:Dimensions Diagram for AG Series Models with 4040 or 2540 Designation

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Table 3: Dimensions and Weight [4]

Model	Figure	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
AG2540TM	2	40.0 (101.6)	0.75 (1.90)	2.4 (6.1)	7 (3)
AG4025T	1	25.0 (63.5)	0.625 (1.59)	3.9 (9.9)	7 (3)
AG4040FM	2	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	11 (5)
AG4040TM	2	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	11 (5)
AG8040F	1	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)
AG8040F-400	1	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)
AG8040F-440	1	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)

Table 4: Operating and CIP Parameters [4]

Typical Operating Pressure	200 psi (1,379 kPa)
Typical Operating Flux	10-20 GFD (15-35 LMH)
Maximum Operating Pressure	Tape: 450 psi (3,103 kPa) Other outerwrap: 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): 1.0-13.0 [5]
Maximum Pressure Drop	Tape: 7 psi (48 kPa) over an element, 25 psi (172 kPa) over the vessel FRP: 15 psi (103 kPa) over the element, 60 psi (413 kPa) over the vessel
Chlorine Tolerance	1,000+ ppm x hours, dechlorination recommended [6]
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) Refer to Technical Bulletin TB1194 "Operating Guidelines - Cleaning Spiral Wound Membranes". Veolia recommends the use of Veolia-labeled chemical products for the operation of systems that use Veolia spiral wound membranes. These chemical products (such as antiscalants and membrane cleaners) have been specifically developed to be used with Veolia spiral wound membrane technologies and are approved by Veolia technical services.

(6) Under certain conditions, the presence of free chlorine and other oxidants can lead to premature membrane failure. Since oxidative damage is not covered under warranty, we recommend removing residual free chlorine through pretreatment before membrane exposure.

Contact Information

To learn more, contact your Veolia representative, or visit our website.

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