GE
Water & Process Technologies

Fact Sheet

AG 2PASS Series

DESAL®
MEMBRANE PRODUCTS

Standard Brackish Water Elements for 2 Pass RO Systems

The A-Series, family of proprietary thin-film reverse osmosis membrane elements are characterized by high flux and high sodium chloride rejection. AG Standard Brackish Water Elements are selected when high rejection and operating pressures as low as 200 psig (1,379 kPa) are desired. These elements allow moderate energy savings, and are considered a standard in the industry.

The AG 2PASS Series has been specifically designed for 2-pass systems. These elements are made of pre-rinsed components avoiding any scaling potential on the second pass at start-up thus avoiding any loss of production.

Table 1: Element Specification

Membrane	A-Series, Thin-Film Membrane (TFM*)

Model	Flow average gpd (m3/day)	Salt rejection average (NaCl)[1,2]	Salt rejection minimum (NaCl)[1,2]
AG4040FM 2PASS	2,200 (85)	99.5%	99.0%
AG8040F 2PASS	9,200 (34.8)	99.5%	99.0%
AG8040F 400 2PASS	10,500 (39.8)	99.5%	99.0%

[1] Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.
[2] Testing conditions: 2,000 ppm NaCl solution at 225 psig (1,551 kPa) operating pressure, 77 °F, pH 7.5 and 15% recovery.

Model	Active Area ft² (m²)	Outer wrap	Part Number
AG4040FM 2PASS	85 (7.9)	Fiberglass	1264262
AG8040F 2PASS	350 (32.5)	Fiberglass	1264190
AG8040F 400 2PASS	400 (37.2)	Fiberglass	1264191

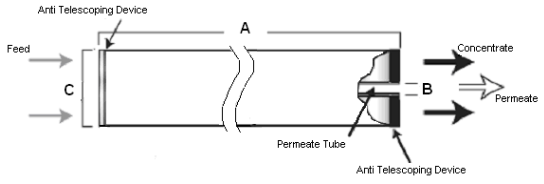

Figure 1: Element Dimensions Diagram - Female

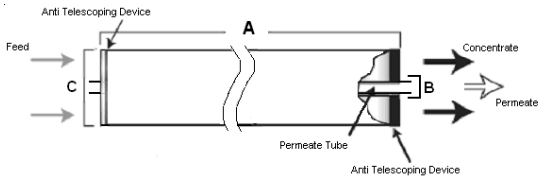

Figure 2: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

Model[1]	Dimensions, inches (cm)			Boxed
	A	B[2]	C[3]	Weight lbs (kg)
AG4040FM 2PASS	40.0 (101.6)	0.75 (1.90) OD	3.9 (9.9)	8 (3.5)
AG8040F 2PASS	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	32 (14.5)
AG8040F 400 2PASS	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	32 (14.5)

[1]These elements are shipped dry.
[2]Internal diameter unless specified OD (outside diameter).
[3]The element diameter (dimension C) is designed for optimum performance in GE Water & Process Technologies pressure vessels. Other pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity.

Table 3: Operating and CIP parameters

Typical Operating Pressure	200 psig (1,379 kPa)
Typical Operating Flux	10-20 GFD (15-35 LMH)
Maximum Pressure	600 psig (4,137 kPa)
Maximum Temperature	Operating: 122°F (50°C) Cleaning: 122°F (50°C)
Recommended pH	Optimum rejection pH: 7.0-7.5, Operating Range pH: 4.0-11, Cleaning Range pH: 2.0-11.5
Recommended Pressure Drop	Over an element: 12 psig (83 kPa) Per housing: 50 psig (345 kPa)
Chlorine Tolerance	1,000+ ppm-hours, dechlorination recommended
Feedwater	NTU < 1 SDI < 5

Find a contact near you by visiting ge.com/water or e-mailing custhelp@ge.com.

Global Headquarters
Trevose, PA
+1-215-355-3300

Americas
Watertown, MA
+1-617-926-2500

Europe/Middle East/Africa
Heverlee, Belgium
+32-16-40-20-00

Asia/Pacific
Shanghai, China
+86 (0) 411-8366-6489