

# AG 2PASS Series



## 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 psi (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 fouling potential on the second pass at start-up thus avoiding any loss of production.

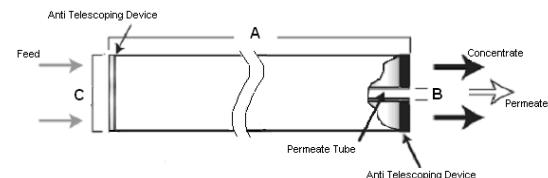
**Table 1: Element Specification**

Membrane	A-Series, Thin-Film Membrane (TFM*)
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Model	Average permeate flow gpd (m <sup>3</sup> /day) <sup>1,2</sup>	Average NaCl rejection <sup>1,2</sup>	Minimum NaCl rejection <sup>1,2</sup>
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%

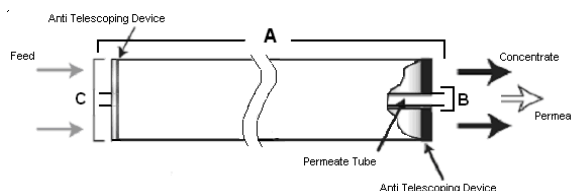
<sup>1</sup> Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.  
<sup>2</sup> Testing conditions: 2,000 ppm NaCl solution at 225 psi (1,551 kPa) operating pressure, 77 °F, pH 7.5 and 15% recovery.

Model	Active area ft <sup>2</sup> (m <sup>2</sup> )	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**

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**Figure 2: Element Dimensions Diagram - Male**

**Table 2: Dimensions and Weight**

Model <sup>1</sup>	Dimensions, inches (cm)			Boxed Weight lbs (kg)
	A	B <sup>2</sup>	C <sup>3</sup>	
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)

<sup>1</sup>These elements are bagged dried before shipping.  
<sup>2</sup>Internal diameter unless specified OD (outside diameter).  
<sup>3</sup>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 psi (1,379 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: 4.0-11 Clean-In-Place (CIP): 2.0-11.5
Maximum Pressure Drop	Over an element: 12 psi (83 kPa) Per housing: 50 psi (345 kPa)
Chlorine Tolerance	1,000+ ppm-hours, dechlorination recommended
Feedwater	NTU < 1 SDI < 5

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