

Water Technologies & Solutions fact sheet

GE series

industrial ultrafiltration elements – TFM* 1,000 MWCO

The G-Series family of proprietary thin-film ultrafiltration membrane elements is characterized by a molecular weight cutoff of 1,000 on polyethylene glycol and a smooth, fouling resistant membrane surface.

GE elements are used for surface water pretreatment, color/TOC reduction, and chemical purification.

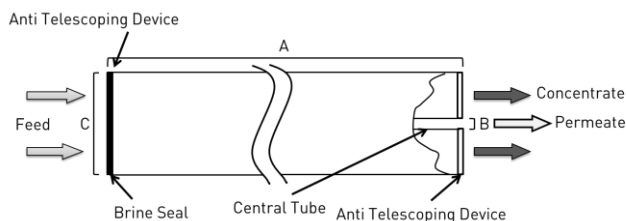
Table 1: Element Specification

Membrane	G-Series, Thin-Film Membrane (TFM*)
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Model	Average permeate flow gpd (m ³ /day) ⁽¹⁾	MWCO (Dalton)
GE2540F30	740 (2.8)	1,000
GE2540F50	500 (1.9)	1,000
GE4040C50	2,000 (7.6)	1,000
GE4040F30	2,600 (9.8)	1,000
GE8040F30	10,000 (37.8)	1,000
GE8040F50	7,300 (27.6)	1,000

⁽¹⁾ Flux specifications are based on fouling free water at 410 psi operating pressure (2,827kPa), 77°F (25°C), and 10% recovery. Individual element flux may vary ± 25%.

Model	Spacer mil (mm)	Active area ft ² (m ²)	Outer wrap	Part number
GE2540F30	30 (0.76)	28 (2.6)	Fiberglass	1207086
GE2540F50	50 (1.27)	22 (2.0)	Fiberglass	1207087
GE4040C50	50 (1.27)	67 (6.2)	Cage	1207091
GE4040F30	30 (0.76)	85 (7.9)	Fiberglass	3050063
GE8040F30	30 (0.76)	364 (33.8)	Fiberglass	1207098
GE8040F50	50 (1.27)	284 (26.4)	Fiberglass	1207096



Note: 4040C elements do not feature brine seal

Figure 1: Element Dimensions Diagram – Female

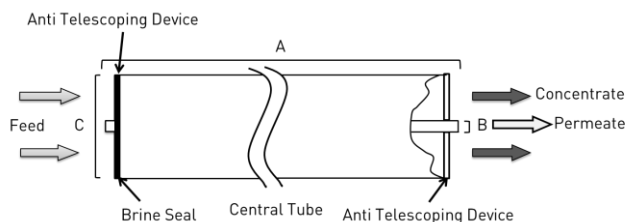


Figure 2: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
GE2540F**	Male	40.0 (101.6)	0.75 1.90	2.4 (6.1)	4 (1.8)
GE4040C**	Female	40.0 (101.6) ⁽¹⁾	0.625 (1.59)	3.9 (9.9)	9 (4.1)
GE4040F**	Male	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	9 (4.1)
GE8040F**	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)

⁽¹⁾ Includes interconnector, refer to Technical Bulletin TB1206.

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Table 3: Operating and CIP parameters

Typical Operating Flux	5-20 GFD (8-34 LMH)
Maximum Operating Pressure	400 psi (2,760 kPa)
Maximum Temperature	Continuous Operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
pH Range	Continuous Operation: 2.0-10.0 Clean-In-Place (CIP): 1.0-13.0 (1)
Maximum Pressure Drop	Over an element: 15 psi (103 kPa) Per housing: 60 psi (414 kPa)
Chlorine Tolerance	20-50 ppm days

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.

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