

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.

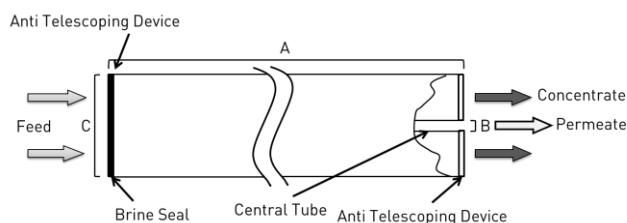
Table 1: Element Specification

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

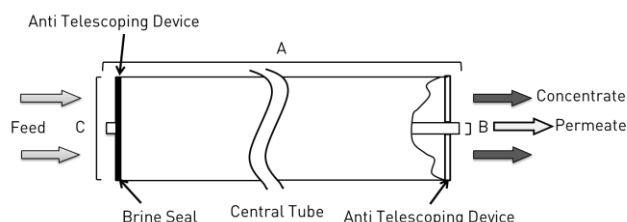


Figure 2: Element Dimensions Diagram – Male

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.

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.

The logo for LENNTECH, featuring the word "LENNTECH" in a stylized, blue, sans-serif font. The letters are bold and modern, with a slight italicized feel.

info@lennotech.com Tel. +31-152-610-900
www.lennotech.com Fax. +31-152-616-289