# GE Series

*FACT SHEET*

## 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.

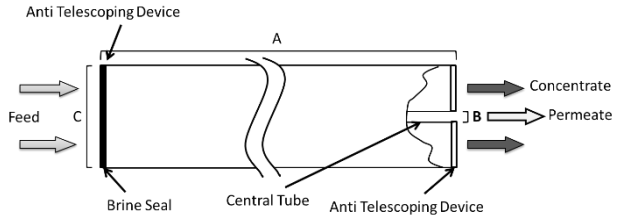
**Table 1: Element Specification**

| | |
|---|---|
| **Membrane** | G-Series, Thin-Film Membrane (TFM) |

| 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**

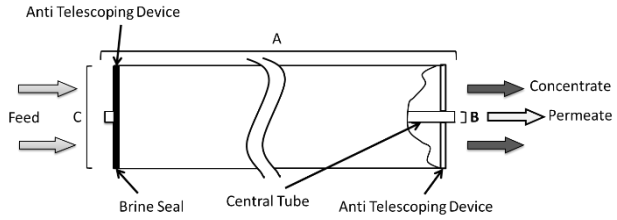



**Figure 2: Element Dimensions Diagram – Male**

**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)<br>Clean-In-Place (CIP): 122°F (50°C) |
| **pH Range** | Continuous Operation: 2.0-10.0<br>Clean-In-Place (CIP): 1.0-13.0 (1) |
| **Maximum Pressure Drop** | Over an element: 15 psi (103 kPa)<br>Per housing: 60 psi (414 kPa) |
| **Chlorine Tolerance** | 20-50 ppm days |

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.

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