

## GH series

### industrial ultrafiltration elements – TFM\* 2,500 MWCO

The G-Series family of proprietary thin-film ultrafiltration membrane elements is characterized by a molecular weight cutoff of 2,500 on polyethylene glycol and a smooth, fouling resistant membrane surface.

GH Elements are used for surface water pretreatment, color/TOC reduction, and chemical purification.

**Table 1: Element Specification**

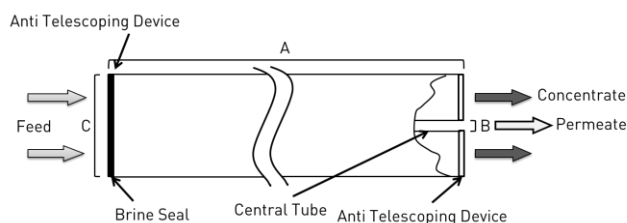
| Membrane | G-Series, Thin-Film Membrane (TFM*) |
|----------|-------------------------------------|
|----------|-------------------------------------|

| Model     | Average permeate flow<br>gpd (m <sup>3</sup> /day) <sup>(1)</sup> | MWCO (Dalton) |
|-----------|-------------------------------------------------------------------|---------------|
| GH2540C50 | 370 (1.4)                                                         | 2,500         |
| GH2540F30 | 530 (2.0)                                                         | 2,500         |
| GH4040F30 | 1,900 (7.2)                                                       | 2,500         |
| GH4040F50 | 1,300 (5.0)                                                       | 2,500         |
| GH8040C30 | 7,000 (26.5)                                                      | 2,500         |
| GH8040C50 | 5,100 (19.3)                                                      | 2,500         |
| GH8040F30 | 7,400 (28.0)                                                      | 2,500         |
| GH8040F50 | 5,500 (20.8)                                                      | 2,500         |

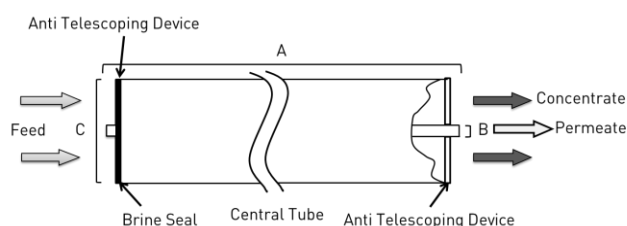
<sup>(1)</sup> Flux specifications are based on fouling free water at 160psi operating pressure (1,103 kPa), and 10% recovery. Individual element flux may vary  $\pm$  25%.

| Model     | Spacer<br>mil (mm) | Active area<br>ft <sup>2</sup> (m <sup>2</sup> ) | Outer wrap | Part<br>number |
|-----------|--------------------|--------------------------------------------------|------------|----------------|
| GH2540C50 | 50 (1.27)          | 18 (1.7)                                         | Cage       | 1207101        |
| GH2540F30 | 30 (0.76)          | 28 (2.6)                                         | Fiberglass | 1207102        |
| GH4040F30 | 30 (0.76)          | 85 (7.9)                                         | Fiberglass | 3050061        |
| GH4040F50 | 50 (1.27)          | 66 (6.1)                                         | Fiberglass | 3050060        |
| GH8040C30 | 30 (0.76)          | 374 (34.7)                                       | Cage       | 1207118        |
| GH8040C50 | 50 (1.27)          | 300 (27.9)                                       | Cage       | 1207119        |
| GH8040F30 | 30 (0.76)          | 364 (33.8)                                       | Fiberglass | 1207120        |
| GH8040F50 | 50 (1.27)          | 284 (26.4)                                       | Fiberglass | 1207121        |

## Water Technologies & Solutions fact sheet



**Figure 1: Element Dimensions Diagram – Female**



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

**Table 2: Dimensions and Weight**

| Model     | Type   | Dimensions, inches (cm) |                 |               | Boxed Weight<br>lbs (kg) |
|-----------|--------|-------------------------|-----------------|---------------|--------------------------|
|           |        | A                       | B               | C             |                          |
| GH2540F** | Male   | 40.0<br>(101.6)         | 0.75<br>1.90    | 2.4<br>(6.1)  | 4<br>(1.8)               |
| GH2540C** | Male   | 40.0<br>(101.6)         | 0.75<br>1.90    | 2.4<br>(6.1)  | 4<br>(1.8)               |
| GH4040F** | Male   | 40.0<br>(101.6)         | 0.75<br>(1.90)  | 3.9<br>(9.9)  | 9<br>(4.1)               |
| GH8040F** | Female | 40.0<br>(101.6)         | 1.125<br>(2.86) | 7.9<br>(20.1) | 29<br>(13.2)             |
| GH8040C** | Female | 40.0<br>(101.6)         | 1.125<br>(2.86) | 7.9<br>(20.1) | 29<br>(13.2)             |

**Table 3: Operating and CIP parameters**

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

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