

# 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.

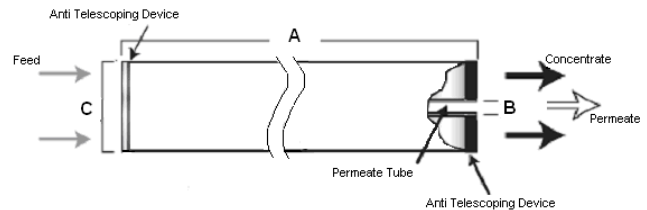
**Table 1: Element Specification**

Membrane	G-series, thin-film membrane (TFM*)
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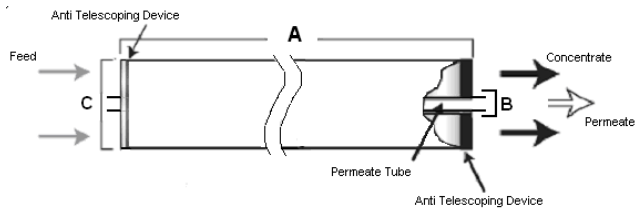
Model	Average permeate flow gpd (m <sup>3</sup> /day) <sup>1</sup>	MWCO (Dalton)
GH2540C1077	370 (1.4)	2,500
GH2540F1072	530 (2.0)	2,500
GH4040C1027	1,900 (7.2)	2,500
GH4040F1020, Stinger	1,900 (7.2)	2,500
GH4040F1021, Stinger	1,300 (5.0)	2,500
GH8040C1566	7,000 (26.5)	2,500
GH8040F1001	7,400 (28.0)	2,500
GH8040F1002	5,500 (20.8)	2,500

<sup>1</sup>Flux specifications are based on fouling free water at 160psi operating pressure (1,103 kPa), 77°F (25°C), and 10% recovery. Individual element flux may vary ± 25%.

Model	Spacer mil (mm)	Active area ft <sup>2</sup> (m <sup>2</sup> )	Outer wrap	Part number
GH2540C1077	50 (1.27)	19 (1.7)	Cage	1207101
GH2540F1072	30 (0.76)	27 (2.5)	Fiberglass	1207102
GH4040C1027	30 (0.76)	97 (9.0)	Cage	1207110
GH4040F1020, Stinger	30 (0.76)	97 (9.0)	Fiberglass	3050061
GH4040F1021, Stinger	50 (1.27)	67 (6.2)	Fiberglass	3050060
GH8040C1566	30 (0.76)	350 (32.5)	Cage	1207118
GH8040F1001	30 (0.76)	370 (34.4)	Fiberglass	1207120
GH8040F1002	50 (1.27)	272 (25.3)	Fiberglass	1207121



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



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

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**Table 2: Dimensions and Weight**

Model <sup>2</sup>	Dimensions, inches (cm)			Boxed
	A	B <sup>1</sup>	C <sup>3</sup>	Weight lbs (kg)
GH2540C1077	40.0 (101.6)	0.75 (1.9) OD	2.4 (6.1)	4 (1.8)
GH2540F1072	40.0 (101.6)	0.75 (1.9) OD	2.4 (6.1)	4 (1.8)
GH4040C1027	40.0 (101.6)	0.625 (1.59)	3.9 (9.9)	9 (4.1)
GH4040F1020, Stinger	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	9 (4.1)
GH4040F1021, Stinger	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	9 (4.1)
GH8040C1566	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)
GH8040F1001	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)
GH8040F1002	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)

<sup>1</sup>Internal diameter unless specified OD (outside diameter).

<sup>2</sup>These elements are dried then bagged before shipping.

<sup>3</sup>The element diameter (dimension C) is designed for optimum performance in GE pressure vessels. Others pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity.

**Table 3: Operating and CIP parameters**

Typical Operating Flux	5-20 GFD (8-34 LMH)
Maximum Operating Pressure	400psi (2,760kPa)
Maximum Temperature	Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
pH Range	Continuous operation: 2-10 Clean-In-Place (CIP): 1-11.5
Maximum Pressure Drop	Over an element: 15psi (103kPa) Per housing: 60psi (414kPa)
Chlorine Tolerance	20-50 ppm days