GH Series

FACT SHEET

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 gpd (m^3/day)(1)	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

(1) Flux specifications are based on fouling free water at 160psi operating pressure (1,103 kPa) and 10% recovery. Individual element flux may vary ± 25%.

Model	Spacer mil (mm)	Active area ft^2 (m^2)	Outer wrap	Part 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

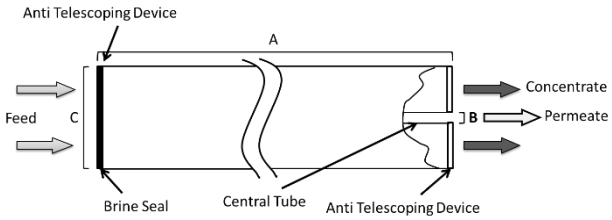

Figure 1: Element Dimensions Diagram – Female

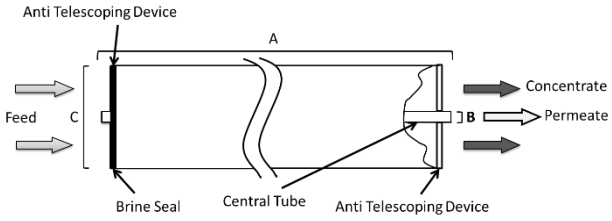

Figure 2: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

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

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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