

# GK Series

## FACT SHEET

### Industrial Ultrafiltration Elements – TFM\* 3,500 MWCO

The G-Series family of proprietary thin-film ultrafiltration membrane elements is characterized by a molecular weight cutoff of 3,500 on polyethylene glycol and a smooth, fouling resistant membrane surface.

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

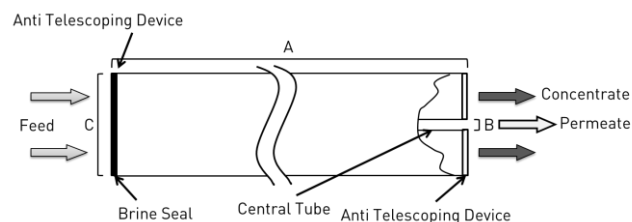
**Table 1: Element Specification**

Membrane	G-Series, Thin-Film Membrane (TFM)
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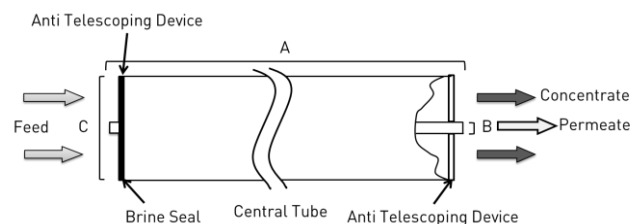
Model	Average permeate flow gpd (m <sup>3</sup> /day) <sup>(1)</sup>	MWCO (Dalton)
GK2540F30	420 (1.6)	3,500
GK2540F50	270 (1.0)	3,500
GK4040C50	1,020 (3.9)	3,500
GK4040F30	1,600 (6.0)	3,500
GK4040F50	1,000 (3.8)	3,500
GK8040C50	4,100 (15.5)	3,500
GK8040F30	5,900 (22.3)	3,500
GK8040F50	4,000 (15.1)	3,500

<sup>(1)</sup> Flux specifications are based on fouling free water at 85psi operating pressure (586 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
GK2540F30	30 (0.76)	28 (2.6)	Fiberglass	1207129
GK2540F50	50 (1.27)	22 (2.0)	Fiberglass	1207130
GK4040C50	50 (1.27)	67 (6.2)	Cage	1207142
GK4040F30	30 (0.76)	85 (7.9)	Fiberglass	3050009
GK4040F50	50 (1.27)	66 (6.1)	Fiberglass	3050008
GK8040C50	50 (1.27)	300 (27.9)	Cage	1207151
GK8040F30	30 (0.76)	364 (33.8)	Fiberglass	1207152
GK8040F50	50 (1.27)	284 (26.4)	Fiberglass	1207153



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



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

**Table 2: Dimensions and Weight**

Model	Type	Dimensions, inches (cm)			Boxed
		A	B	C	Weight lbs (kg)
GK2540F**	Male	40.0 (101.6)	0.75 1.90	2.4 (6.1)	4 (1.8)
GK4040C**	Female	40 (101.6)	0.625 (1.59)	3.9 (9.9)	9 (4.1)
GK4040F**	Male	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	9 (4.1)
GK8040F**	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)
GK8040C**	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (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) Clean-In-Place (CIP): 122°F (50°C)
<b>pH Range</b>	Continuous Operation: 2.0-10.0 Clean-In-Place (CIP): 1.0-13.0 (1)
<b>Maximum Pressure Drop</b>	Over an element: 15 psi (103 kPa) Per housing: 60 psi (414 kPa)
<b>Chlorine Tolerance</b>	20-50 ppm days

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.