

GK series

industrial ultrafiltration elements – TFM* 3,500 MWC0

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 ³ /day) ⁽¹⁾	MWC0 (Dalton)
GK2540F30	420 (1.6)	3,500
GK2540F50	270 (1.0)	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

(1) 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 ² (m ²)	Outer wrap	Part number
GK2540F30	30 (0.76)	28 (2.6)	Fiberglass	1207129
GK2540F50	50 (1.27)	22 (2.0)	Fiberglass	1207130
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

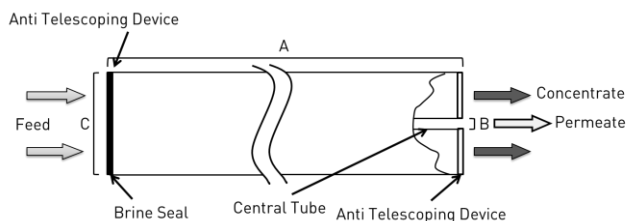


Figure 1: Element Dimensions Diagram – Female

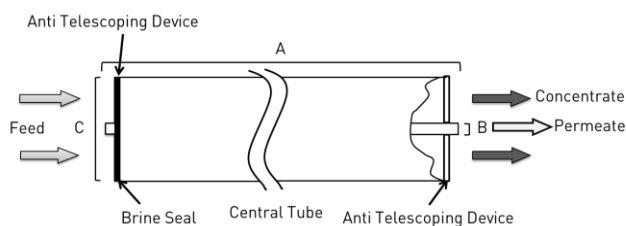


Figure 2: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
GK2540F**	Male	40.0 (101.6)	0.75 1.90	2.4 (6.1)	4 (1.8)
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)

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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.