

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*)	
Model	Average permeate flow gpd (m3/day) ¹	MWCO (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

¹Flux 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

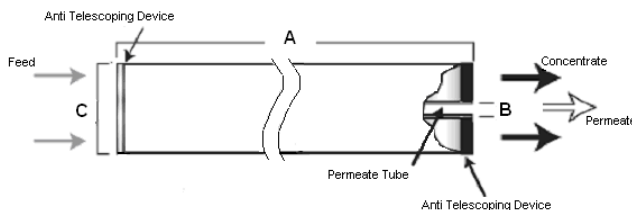


Figure 1: Element Dimensions Diagram – Female

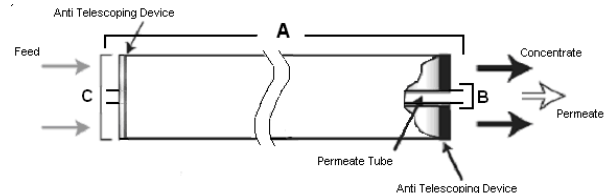


Figure 2: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

Model ²	Dimensions, inches (cm)			Boxed Weight lbs (kg)
	A	B ¹	C ²	
GK2540F30	40.0 (101.6)	0.75 (1.90) OD	2.4 (6.1)	4 (1.8)
GK2540F50	40.0 (101.6)	0.75 (1.90) OD	2.4 (6.1)	4 (1.8)
GK4040F30	40.0 (101.6)	0.75 (1.90) OD	3.9 (9.9)	9 (4.1)
GK4040F50	40.0 (101.6)	0.75 (1.90) OD	3.9 (9.9)	9 (4.1)
GK8040C50	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)
GK8040F30	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)
GK8040F50	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)

¹Internal diameter unless specified OD (outside diameter).

²These elements are dried then bagged before shipping.

³The element diameter (dimension C) is designed for optimum performance in SUEZ 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): 1.0-11.5
Maximum Pressure Drop	Over an element: 15psi (103kPa) Per housing: 60psi (414kPa)
Chlorine Tolerance	1,000 ppm days

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