GE Power & Water
Water & Process Technologies

Fact Sheet

DESAL®
MEMBRANE PRODUCTS

GM Series

Industrial Ultrafiltration Elements – TFM* 8,000 MWCO

The G-Series family of proprietary thin-film ultrafiltration membrane elements is characterized by a molecular weight cut-off of 8,000 on polyethylene glycol and a smooth, fouling resistant membrane surface.

GM Elements are used for RO pretreatment, color/TOC reduction, and colloidal iron and silica removal.

Table 1: Element Specification

Membrane	G-Series, thin-film membrane (TFM*)

Model	Average permeate flow gpd (m^3/day) [1]	MWCO (Dalton)
GM2540F1072	600 (2.3)	8,000
GM2540F1073	340 (1.3)	8,000
GM4040F1020, Stinger	1,800 (6.9)	8,000
GM4040F1021, Stinger	1,300 (4.9)	8,000
GM8040F1001	7,400 (28.0)	8,000
GM8040F1004	7,400 (28.0)	8,000
GM8040F1002	5,200 (19.7)	8,000

[1] Flux specifications are based on fouling free water at 50psi operating pressure (345 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 nNumber
GM2540F1072	30 (0.76)	27 (2.5)	Fiberglass	1207164
GM2540F1073	50 (1.27)	17 (1.6)	Fiberglass	1207165
GM4040F1020, Stinger	30 (0.76)	91 (8.5)	Fiberglass	3050006
GM4040F1021, Stinger	50 (1.27)	64 (6.0)	Fiberglass	3050005
GM8040F1001	30 (0.76)	370 (34.4)	Fiberglass	1207198
GM8040F1004	30 (0.76)	370 (34.4)	Fiberglass	1207201
GM8040F1002	50 (1.27)	260 (24.2)	Fiberglass	1207199

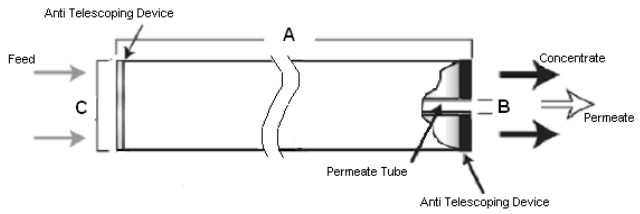

Figure 1: Element Dimensions Diagram - Female

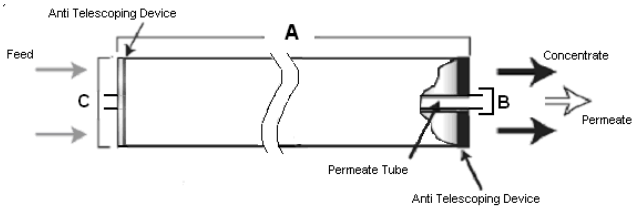

Figure 2: Element Dimensions Diagram – Male, Stinger

Table 2: Dimensions and Weight

Model[2]	Dimensions, inches (cm)			Boxed
	A	B[1]	C[3]	Weight lbs (kg)
GM2540F	40.0 (101.6)	0.75 (1.9) OD	2.4 (6.1)	4 (1.8)
GM4040F, Stinger	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	9 (4.1)
GM8040F	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)

[1]Internal diameter unless specified OD (outside diameter).
[2]These elements are dried then bagged before shipping.
[3] 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	200psi (1,379kPa)
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): 1.0-11.5
Maximum Pressure Drop	Over an element: 15psi (103kPa) Per housing: 60psi (414kPa)
Chlorine Tolerance	1,000 ppm days

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