# GK Series

*FACT SHEET*

WATER TECHNOLOGIES

VEOLIA

## Industrial Ultrafiltration Spiral Wound Membranes




The GK Series ultrafiltration (UF) spiral wound membranes are characterized by a molecular weight cutoff (MWCO) of 3,500 on polyethylene glycol (PEG) and a smooth, fouling resistant membrane surface.

GK spiral wound membranes are used for surface water pretreatment, color, or total organic carbon (TOC) reduction, and chemical purification.

**Table 1: Specifications**

| | |
|---|---|
| **Membrane type** | G Series, Thin-Film Membrane (TFM) |

| Model | Average Permeate Flow – gpd ($m^3$/day) (1) | 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 |
| GK8040C30 | 6,000 (22.7) | 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 85 psi operating pressure (586 kPa), 77°F (25°C), and 10% recovery. Individual Spiral wound membrane flux may vary ± 25%.

## Typical Applications

- Used in surface water pretreatment, color/TOC reduction, and chemical purification.
- Particularly good adoption in the textile and dye industries.

**Table 2: Properties**

| Model | Active Area $ft^2$ ($m^2$) | Outer Wrap | Feed Spacer mil (mm) | Part Number |
|---|---|---|---|---|
| GK2540F30 | 28 (2.6) | Fiberglass | 30 (0.76) | 1207129 |
| GK2540F50 | 22 (2.0) | Fiberglass | 50 (1.27) | 1207130 |
| GK4040C50 | 67 (6.2) | Cage | 50 (1.27) | 1207142 |
| GK4040F30 | 85 (7.9) | Fiberglass | 30 (0.76) | 3050009 |
| GK4040F50 | 66 (6.1) | Fiberglass | 50 (1.27) | 3050008 |
| GK8040C30 | 374 (34.7) | Cage | 30 (0.76) | 3165917 |
| GK8040C50 | 300 (27.9) | Cage | 50 (1.27) | 1207151 |
| GK8040F30 | 364 (33.8) | Fiberglass | 30 (0.76) | 1207152 |
| GK8040F50 | 284 (26.4) | Fiberglass | 50 (1.27) | 1207153 |

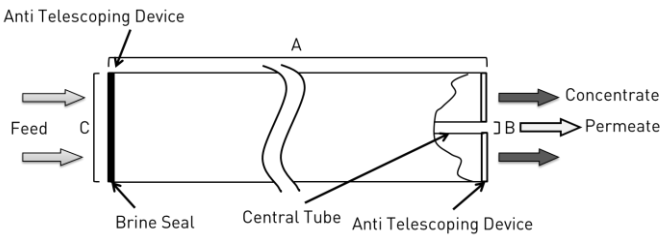


**Figure 1: Dimensions Diagram – Female**

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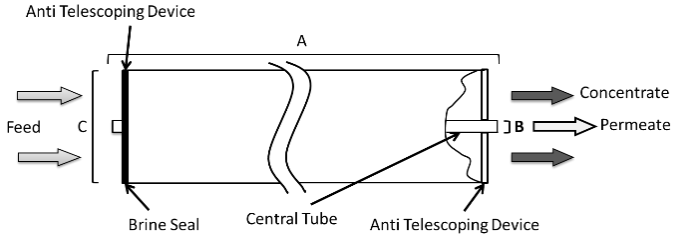


**Figure 2: Dimensions Diagram – Male**

**Table 3: Dimensions & 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) |
| GK4040C** | Female | 40.0 (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 4: Operating and CIP Parameters (2)**

| | |
|---|---|
| **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)<br>Clean-In-Place (CIP): 122°F (50°C) |
| **pH Range** | Continuous Operation: 2.0-10.0<br>Clean-In-Place (CIP): 1.0-13.0 (3) |
| **Maximum Pressure Drop** | Over an element: 15 psi (103 kPa)<br>Per housing: 60 psi (414 kPa) |
| **Chlorine Tolerance** | 20-50 ppm days |

(2) Spiral wound membrane properties and parameters are indicative numbers. Specific values by spiral wound membrane may vary within normal manufacturing tolerances.

(3) Refer to Cleaning Guidelines Technical Bulletin TB1194.

# Contact Information

To learn more, contact your Veolia representative, or visit our website.

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