FiberFlo® EN Endotoxin Removal Filters

100% Endotoxin Removal*

- Removes endotoxin/pyrogen
- Dead end filtration - No waste stream from tangential flow
- Higher flow rates at lower pressure drops
- Autoclavable (121°C) and steam sterilizable
- Extended life—cleanable, sanitizable
- In-situ integrity testable
- Naturally hydrophilic membranes
- Biocompatible for medical application
- Fits inside standard cartridge filter housings

Consistent and Verifiable Pyrogen Removal

Endotoxin/Pyrogen Removal
The unique membrane property of FiberFlo EN cartridge and capsule filters provides consistent and verifiable pyrogen removal. The high level of endotoxin removal makes these filters ideal for a variety of applications requiring the removal of endotoxins for assured fluid purity.

*The FiberFlo filters have been validated to remove 100% of endotoxin at challenge rates up to 5 EU/ml with test sensitivity to 0.06 EU/ml. These levels of endotoxin are commonly found in water systems and process fluid streams, regardless of the diligence of the contamination control personnel.

Easy to Install and Maintain
Unlike most tangential flow devices, FiberFlo EN Hollow Fiber cartridge filters can be steam sterilized in-line or autoclaved off-line. FiberFlo EN cartridge filters are available in four lengths and a variety of end cap styles to fit a variety of standard filter housings in process applications. FiberFlo EN capsule filters come in a variety of sizes and have a variety of end connections (Sanitary, Hose Barb and NPT) for easy installation in your equipment.

Quality Assured
All FiberFlo cartridge and capsule filters are manufactured to meet medical device quality standards with adherence to QSR manufacturing guidelines. These filters exceed the requirements of USP Class VI Plastics Testing and meet USP XXIII standards for purified water extractables. FiberFlo EN cartridge filters are integrity testable by diffusion flow method.
Pressure Drop and Flow Rates

FiberFlo EN Cartridge Filters

Typical Flow Rates

Pressure Drop - Bar

Flow - lpm

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5

Technical Data

FiberFlo Cartridge Filter Specifications

Membrane Polyphen® Polysulfone

Maximum Differential Pressure 2 Bar (30 PSI)

Membrane Surface Area (Per 10\(^\circ\) Segment) 1.5 m\(^2\) (16 ft\(^2\))

Filter Diameter 6.4 cm (2.9")

Nominal Length 25 cm, 51 cm, 76 cm, 102 cm (10", 20", 30", 40")

Case and End Caps Polycarbonate

Seal Materials Medical Grade Polyurethane

Extractables Passes U.S.P. tests for oxidizable substances and total solids for purified water.

Fiber meets all USP-XXIII Class VI criteria as well as test standards for tissue cytotoxicity.

FiberFlo Capsule Filter Specifications

Membrane Polyphen® Polysulfone

Maximum Differential Pressure 2 Bar (30 PSI)

Membrane Surface Area M = 0.61 m\(^2\) (2.0 ft\(^2\)), L = 1.83 m\(^2\) (6.0 ft\(^2\))

Case and End Caps Polycarbonate

Extractables Passes U.S.P. tests for oxidizable substances and total solids for purified water.

Seal Materials Medical Grade Polyurethane

Fiber meets all USP-XXIII Class VI criteria as well as test standards for tissue cytotoxicity.

FiberFlo Capsule Ordering Information*

<table>
<thead>
<tr>
<th>Code</th>
<th>Inlet Description</th>
<th>Outlet Description</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>1/4 inch NPT</td>
<td>1/4 inch NPT</td>
</tr>
<tr>
<td>B</td>
<td>3/8 inch NPT</td>
<td>3/8 inch NPT</td>
</tr>
<tr>
<td>C</td>
<td>1/2 inch hose barb</td>
<td>1/2 inch hose barb</td>
</tr>
<tr>
<td>D</td>
<td>3/8 inch hose barb</td>
<td>3/8 inch hose barb</td>
</tr>
<tr>
<td>E</td>
<td>1/4 inch NPT</td>
<td>1/2 inch hose barb</td>
</tr>
<tr>
<td>F</td>
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<tr>
<td>H</td>
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<tr>
<td>J</td>
<td>Mini-ISO</td>
<td>Mini-ISO</td>
</tr>
</tbody>
</table>

Nomenclature Format - x-I-EN-y

Example: EN-103 would be a 10 inch, SOE flat, closed end, external 222 O-ring.

*Certain Inlet/Oulet configurations are considered custom and have minimum order quantity.

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