Mar Cor Purification

FiberFlo® Hollow Fiber Cartridge Filters

Absolute Performance in Filtration Technology
**FiberFlo® Hollow Fiber Cartridge Filters**

**Bacteria, Particle and Pyrogen Removal***
The unique membrane structure of FiberFlo HF cartridge filters provides consistent and verifiable pyrogen removal that surpasses traditional, absolute-rated membrane filters. High level endotoxin, bacteria, and spore removal make these filters ideal for a variety of water purification or process fluid applications.

**Quality Assured**
FiberFlo cartridge filters are manufactured to medical device quality standards with adherence to QSR manufacturing guidelines. These filters exceed the requirements of USP Class VI Plastics Testing and meet USP standards for purified water extractables. FiberFlo HF cartridge filters are integrity testable by diffusional methods.

**Longer Lasting**
FiberFlo cartridge filters have up to three times the surface area of comparable pleated cartridge filters. This larger membrane surface area provides greater capacity and longer life than pleated filters, resulting in lower filter replacement costs.

*Only the pore sizes of the FiberFlo 50 and FiberFlo 100 are validated to remove pyrogens.

**Configurations to Fit Your Needs**
FiberFlo cartridge filters are available in four lengths, four micron ratings, and a variety of endcap styles to fit a variety of standard filter housings.

**Easy to Maintain**
FiberFlo HF cartridges filters can be steam sterilized in-line or autoclaved off-line.

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**FiberFlo HF Cartridge Filter Features**

- Fine filtration
- Longer filter life
- Higher flow rates at lower pressure drops
- Extended life—cleanable, sanitizable
- Removes pyrogens*
- Autoclavable and steam sterilizable
- Quick rinse-up in ultrapure water
- In-situ integrity testable
- Hydrophilic membranes—repeatedly rewettable without wetting agent
- Biocompatible for life science and medical applications

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**FiberFlo Flow and Pressure Drop Rates**

<table>
<thead>
<tr>
<th>Flow - lpm</th>
<th>Large</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.9</td>
<td>0.07</td>
<td>0.07</td>
</tr>
<tr>
<td>3.8</td>
<td>0.14</td>
<td>0.14</td>
</tr>
<tr>
<td>5.7</td>
<td>0.21</td>
<td>0.21</td>
</tr>
<tr>
<td>7.6</td>
<td>0.28</td>
<td>0.28</td>
</tr>
<tr>
<td>9.5</td>
<td>0.34</td>
<td>0.34</td>
</tr>
<tr>
<td>11.4</td>
<td>0.41</td>
<td>0.41</td>
</tr>
<tr>
<td>13.2</td>
<td>0.71</td>
<td>0.71</td>
</tr>
<tr>
<td>15.1</td>
<td>1.01</td>
<td>1.01</td>
</tr>
</tbody>
</table>
Proven Technology for Bacteria, Endotoxin and Spore Removal

FiberFlo Capsule Membrane Selection

FiberFlo 50
FiberFlo HF 50 offers the highest degree of control of particulates and microorganisms through its absolute pore removal rating of 0.05 μm and the retentive characteristics of its Polyphen® polysulfone membrane. It is recommended for the most demanding bacteria, particle and pyrogen removal applications. FiberFlo HF 50 will remove 100 percent of endotoxin¹ when challenged with a feed concentration of 5.0 EU/ml.

FiberFlo 100
FiberFlo HF 100 offers the best balance of flow, pressure, retentive capacity, pyrogen removal and cost. Its absolute pore removal rating of 0.1μm and overall pore structure gives high water flow rates and excellent control of particulates, microorganisms and pyrogens. FiberFlo HF 100 will remove 100 percent of endotoxin¹ when challenged with a feed concentration of 1.0 EU/ml.

FiberFlo 200
FiberFlo HF 200 offers maximum flow rates without loss of bacteria retention. Absolute removal of Brevundimonas diminuta is a characteristic of this filter. The ability of FiberFlo HF 200 to remove bacteria and particulates gives it performance characteristics unmatched by traditional 0.2 micron pleated membrane filters.

FiberFlo 450
FiberFlo HF 450 is designed for prefiltration and fluid clarification applications. The HF 450 assures maximum protection of downstream sterilizing filters. It provides superior particle control, dirt holding capacity, and flow rates. The ability of the FiberFlo HF 450 to remove particulates is unmatched by traditional 0.45μm absolute pleated membrane filters.

¹. Test sensitivity of 0.06 EU/ml.

Suggested Applications

Medical and Laboratory
- Medical device rinsing
- Hemodialysis water systems
- Medical equipment rinse water

Industrial
- Semiconductor
- Deionized water
- Industrial process water
- Dilute inorganic chemical solutions

Pharmaceutical
- Manufacturing
- Serum and blood fractions
- USP purified water
- Ophthalmics
- Growth media
- Fermentation feed stocks

Food and Beverage
- Distilled spirits
- Bottled water
- Seltzer
- Vinegar
- Food products
- Makeup and rinse waters
**Technical Data**

<table>
<thead>
<tr>
<th>FiberFlo Hollow Fiber Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Pore Size mm</strong></td>
</tr>
<tr>
<td><strong>Maximum Flow Rate</strong> (per 10” segment)</td>
</tr>
<tr>
<td><strong>Membrane</strong></td>
</tr>
<tr>
<td><strong>Surface Area</strong> (per 10” segment)</td>
</tr>
<tr>
<td><strong>Nominal Length</strong></td>
</tr>
<tr>
<td><strong>Case and End Caps</strong></td>
</tr>
<tr>
<td><strong>End Seals</strong></td>
</tr>
<tr>
<td><strong>Extractables</strong></td>
</tr>
</tbody>
</table>

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

1. As determined by latex bead challenge. Procedure available upon request.
2. As determined by HIMA challenge and latex bead challenge.

**Ordering Information**

1. Select type
   - FiberFlo 50
   - FiberFlo 100
   - FiberFlo 200
   - FiberFlo 450

2. Select length
   - 10 inch
   - 20 inch
   - 30 inch
   - 40 inch

3. Select style
   - Style 3: SOE flat, closed end, external 222 O-ring. Replaces Pall Code 3, Millipore Code 0
   - Style 4: SOE fin end, external 222 O-ring. Replaces Pall Code 8, Millipore Code 5
   - Style 5: SOE fin end, external 226 O-ring. Replaces Pall Code 7, Millipore Code
   - Style 7: SOE mini fin end, internal 119 O-ring. Installs in standard 10 inch Ametek Housing*
   - Style 8: SOE flat, internal 119 O-ring. Installs in standard 20 inch Ametek Housing*

*Simple filter bowl modifications are required for this cartridge.

**How to determine ordering codes:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Style</th>
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</thead>
<tbody>
<tr>
<td>50 = FiberFlo 50</td>
<td>10 inch</td>
<td>3 = Style 3</td>
</tr>
<tr>
<td>100 = FiberFlo 100</td>
<td>20 inch</td>
<td>4 = Style 4</td>
</tr>
<tr>
<td>200 = FiberFlo 200</td>
<td>30 inch</td>
<td>5 = Style 5</td>
</tr>
<tr>
<td>450 = FiberFlo 450</td>
<td>40 inch</td>
<td>7 = Style 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 = Style 8</td>
</tr>
</tbody>
</table>

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