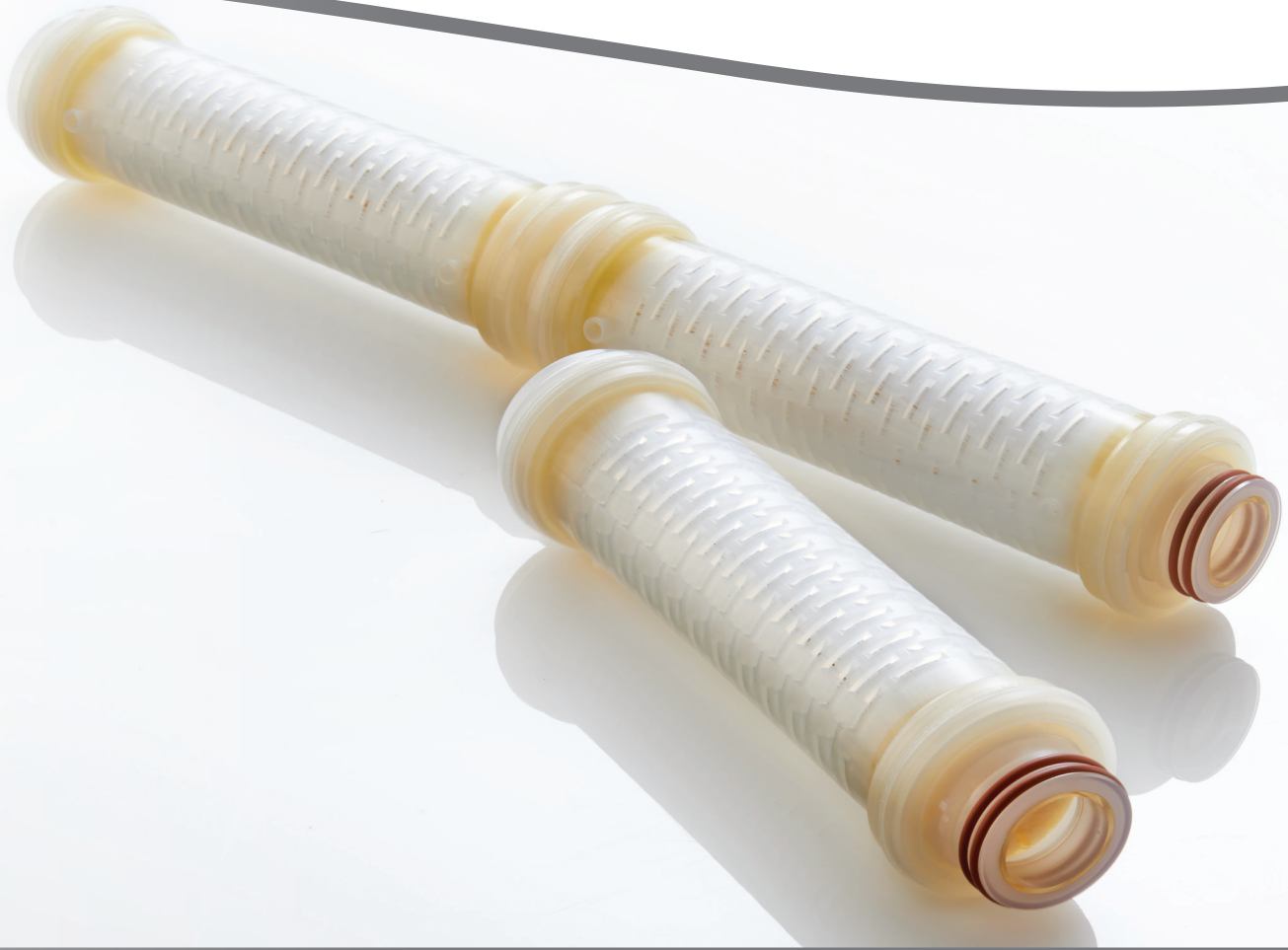


Mar Cor Purification

## 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

## 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

## 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

## Configurations to Fit Your Needs

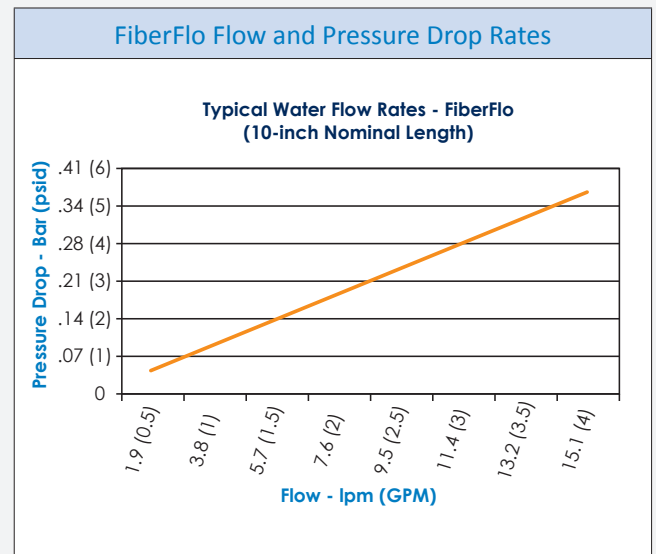
FiberFlo cartridge filters are available in four lengths, four micron ratings, and a variety of endcap styles to fit a variety of standard filter housings.

## Easy to Maintain

FiberFlo HF cartridges filters can be steam sterilized in-line or autoclaved off-line.

## 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



# 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  $\mu\text{m}$  and the retentive characteristics of its Polyphen<sup>®</sup> polysulfone membrane. It is recommended for the most demanding bacteria, particle and pyrogen removal applications. FiberFlo HF 50 will remove 100 percent of endotoxin<sup>1</sup> 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 0.1 $\mu\text{m}$  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 endotoxin<sup>1</sup> when challenged with a feed concentration of 1.0 EU/ml.

### FiberFlo 200

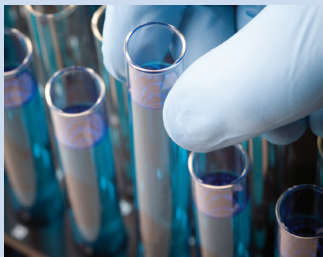
FiberFlo HF 200 offers maximum flow rates without loss of bacteria retention. Absolute removal of *Brevundimonas diminuta* is a characteristic of this filter. The ability of FiberFlo HF 200 to remove bacteria and particulates gives it performance characteristics unmatched by traditional 0.2 micron pleated 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 0.45 $\mu\text{m}$  absolute pleated membrane filters.

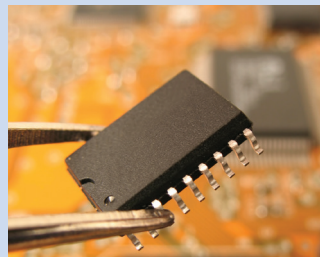
1. Test sensitivity of 0.06 EU/ml.

## 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

FiberFlo Hollow Fiber Specifications				
FiberFlo	50	100	200	450
Pore Size mm	0.05 absolute <sup>1</sup>	0.1 absolute <sup>1</sup>	0.2 absolute <sup>1,2</sup>	0.45 absolute <sup>1</sup>
Maximum Flow Rate (per 10" segment)	2.5 GPM	3.0 GPM	3.0 GPM	5.0 GPM
Membrane	Polyphen <sup>®</sup> Polysulfone			
Maximum Differential Pressure	30 PSI (2 Bar)			
Surface Area (per 10" segment)	16 ft <sup>2</sup> (1.5 m <sup>2</sup> )			
Diameter	2.9" (6.4 cm)			
Nominal Length	10", 20", 30", 40" (25 cm, 51 cm, 76 cm, 102 cm)			
Case and End Caps	Polycarbonate			
End Seals	Polyurethane			
Extractables	Passes U.S.P. tests for oxidizable substances and total solids for purified water.			
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:

<b>50</b>	-	<b>10</b>	-	<b>3</b>
Type		Length		Style
50 = FiberFlo 50		10 = 10 inch		3 = Style 3
100 = FiberFlo 100		20 = 20 inch		4 = Style 4
200 = FiberFlo 200		30 = 30 inch		5 = Style 5
450 = FiberFlo 450		40 = 40 inch		7 = Style 7
				8 = Style 8



SOE Flat, Closed End



SOE Fine End



Internal 119 O-Ring



External 222 O-Ring



External 226 O-Ring



Mar Cor Purification  
4450 Township Line Road  
Skippack, PA 19474-1429  
Tel: (484) 991-0220  
Toll Free: (800) 346-0365  
Fax: (484) 991-0230

Mar Cor Purification  
14550 28th Avenue North  
Plymouth, MN 55447  
Tel: (484) 991-0220  
Toll Free: (800) 633-3080  
Fax: (763) 210-3868

Mar Cor Purification  
3250 Harvester Road - Unit 6  
Burlington, ON L7N 3W9  
Tel: (905) 639-7025  
Toll Free: (800) 268-5035  
Fax: (905) 639-0425

Mar Cor Purification  
Sourethweg 11  
6422 PC Heerlen  
The Netherlands  
Tel: (+31) 45 5471 471  
Fax: (+31) 45 5429 695

Mar Cor Purification  
1A International  
Business Park, #05-01  
Singapore 609933  
Tel: (+65) 6227 9698  
Fax: (+65) 6225 6848