



# HF SERIES

## High Flow Pleated Filter Cartridges

- 6.5" OD, 3" ID
- Vertical Pleat
- Outside to Inside Flow

Excellent dirt loading capacity extends life of cartridge and minimizes disposal and labor costs.



### SUITABLE USES



Air & Gas



Desalination



Coolant



Water



Electronics



Coatings



Oil & Gas



Chemical



Pulp & Paper



Power



Marine



Equipment

### COMPATIBLE HOUSINGS

Compatible with Fil-Trek's High Flow Vertical (HFV) and High Flow Horizontal (HFH) housings.

### ADDITIONAL FEATURES

Capable of accommodating up to 500 gpm in a single filter.

A unique locking base with o-ring provides a positive seal.

Outside to inside flow suited for both high dirt loading and high flow applications.

Absolute rated and available in microns ranging from 1 to 70 and are FDA compliant.

Comparable to the 3M/CUNO High Flow series filters.

For more information, e-mail:  
[info@fil-trek.com](mailto:info@fil-trek.com) or visit [Fil-Trek.com](http://Fil-Trek.com)

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## ELEMENT SPECIFICATIONS

|                         |                                                               |                                |
|-------------------------|---------------------------------------------------------------|--------------------------------|
| REC. OPERATING PRESSURE |                                                               | 35 PSID (2.4 bar) @68°F (20°C) |
| MAX. OPERATING PRESSURE |                                                               | 50 PSID (3.4 bar) @68°F (20°C) |
| REC. FLOW RATE          |                                                               | 50 GPM (40"), 75 GPM (60")     |
| MAX. FLOW RATE          |                                                               | 350 GPM (40"), 500 GPM (60")   |
| DIMENSIONS              |                                                               |                                |
| Outside Diameter        | 6.5" (16.5 cm)                                                |                                |
| Inside Diameter         | 3" (7.6 cm)                                                   |                                |
| Lengths                 | 20", 40", 60", 80"<br>(50.8 cm, 101.6 cm, 152.4 cm, 203.2 cm) |                                |
| MAX. TEMPERATURE        |                                                               |                                |
| Polypropylene           | 180°F (82°C)                                                  |                                |
| Polyester               | 240°F (115.5°C)                                               |                                |
| Microglass              | 300°F (149°C)                                                 |                                |
| Cellulose               | 300°F (149°C)                                                 |                                |
| Cotton                  | 300°F (149°C)                                                 |                                |
| Nylon                   | 340°F (171.1°C)                                               |                                |
| Nomex                   | 400°F (204.4°C)                                               |                                |
| MEDIA SURFACE AREA      |                                                               | 24ft² (7.3m²) per 20" length   |
| MATERIALS AVAILABLE     |                                                               |                                |
| Media                   | Outer Support                                                 | Core                           |
| Polypropylene           | Polypropylene                                                 | Polypropylene                  |
| Polyester               | Polyester                                                     | Steel                          |
| Microglass              | Nylon                                                         |                                |
| Cotton                  | Steel                                                         |                                |
| Cellulose               |                                                               |                                |
| Nylon                   |                                                               |                                |
| Nomex                   |                                                               |                                |
| End Caps                | O-Rings                                                       |                                |
| Polypropylene           | Buna-N                                                        |                                |
| Microglass              | EPDM                                                          |                                |
| Nylon                   | Silicone                                                      |                                |
| Steel                   | Viton                                                         |                                |

**FDA LISTED MATERIALS** All materials comply with FDA Title 21.

## FLUID COMPATIBILITY

The below data is for reference only. Factors including length of exposure, concentration of fluid, temperature must also be considered. Please contact us to confirm process compatibility.

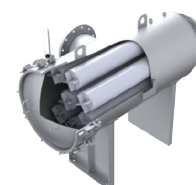
| CHEMICAL               | TEMPERATURE  |
|------------------------|--------------|
| ACETIC ACID 20%        | 160°F (71°C) |
| ALKANOLAMINES          | 140°F (60°C) |
| AMMONIUM HYDROXIDE 10% | 160°F (71°C) |
| BLEACH 5.5%            | 120°F (49°C) |
| ETHYLENE GLYCOL        | 160°F (71°C) |
| HYDROGEN PEROXIDE      | 100°F (38°C) |
| METHYL ETHYL KETONE    | 70°F (21°C)  |
| MINERAL OIL            | 70°F (21°C)  |
| NITRIC ACID 20%        | 120°F (49°C) |
| POTASSIUM HYDROXIDE    | 140°F (60°C) |
| SODIUM CARBONATE       | 160°F (71°C) |
| SODIUM HYDROXIDE 70%   | 160°F (71°C) |
| SULFURIC ADIC 20%      | 160°F (71°C) |
| SULFURIC ACID 70%      | 160°F (71°C) |
| UREA                   | 160°F (71°C) |

\*Based on polypropylene media w/ buna-n seals

## COMPATIBLE HOUSINGS

### HIGH FLOW VERTICAL AND HORIZONTAL HOUSINGS

Available in ASME code and non-code designs, highly customizable housing, vertical and horizontal orientation. Flow rates up to 8750 GPM. Available in a variety of materials, and headlift/closure options. Duplexing and skid systems available.



 [View HFV Details](#)

 [View HFH Details](#)

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## HIGH FLOW PRESSURE DROP

| MICRON | ELEMENT PRESSURE DROP PSID/GPM |        |        | ELEMENT PRESSURE DROP Mbar/M3/HR |        |        |
|--------|--------------------------------|--------|--------|----------------------------------|--------|--------|
|        | 20"                            | 40"    | 60"    | 20"                              | 40"    | 60"    |
| 1      | 0.0200                         | 0.0097 | 0.0065 | 6.0845                           | 2.9395 | 1.9820 |
| 3      | 0.0167                         | 0.0081 | 0.0054 | 5.0705                           | 2.4495 | 1.6516 |
| 5      | 0.0076                         | 0.0037 | 0.0025 | 2.3179                           | 1.1198 | 0.7550 |
| 10     | 0.0046                         | 0.0022 | 0.0015 | 1.3908                           | 0.6719 | 0.4530 |
| 20     | 0.0021                         | 0.0010 | 0.0007 | 0.06374                          | 0.3079 | 0.2076 |
| 40     | 0.0017                         | 0.0008 | 0.0006 | 0.5215                           | 0.2520 | 0.1699 |
| 60     | 0.0015                         | 0.0007 | 0.0005 | 0.4552                           | 0.2199 | 0.1483 |
| 100    | 0.0010                         | 0.0005 | 0.0003 | 0.3035                           | 0.1466 | 0.0989 |

## PRODUCT NOMENCLATURE

| HF                    | PO                                                                                                                                                                    | 1                                                | 60                   | PO                                                          | VI                                                                                        |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| MODEL                 | MEDIA                                                                                                                                                                 | MICRON                                           | LENGTH               | CORE/CAPS                                                   | O-RING                                                                                    |
| HF – High Flow Series | <b>PO</b> - Polypropylene<br><b>PE</b> - Polyester<br><b>MG</b> - Microglass<br><b>CO</b> - Cotton<br><b>CE</b> - Cellulose<br><b>NY</b> - Nylon<br><b>NX</b> - Nomex | 1      15<br>2      25<br>5      40<br>10     70 | 20<br>40<br>60<br>80 | <b>PO</b> - Polypropylene (std)<br><b>TN</b> - Tinned Steel | <b>BN</b> – Buna-N (std)<br><b>ED</b> – EPDM<br><b>SI</b> – Silicone<br><b>VI</b> – Viton |

Additional customization may be available, contact Fil-Trek for part number information