

Filtrafine Multiplate High Flow Series Filter Cartridges

High Flow Pleated Cartridges Incorporating Proprietary Melt Blown Filter Media

- Very High Surface Area per Cartridge-High Flow Rates, Long Service Life and Reduced Maintenance Costs
- Inside to Outside Flow Configuration-All Contaminants Held Within the Single Open Ended Filter
- Available in 20", 40" and 60" Lengths
- Proprietary Filter Media Produced for Filtrafine Delivers Highly Consistent Performance
- Fixed Pore Construction – Resists Dirt Unloading at High Differential Pressures
- Polypropylene Construction-Inert to Many Process Fluids Ensuring Wide Chemical Compatibility
- Various Gasket/O-ring materials-Compatible with Many Fluids
- Manufactured in a Class 1,000 Clean Room
- Manufactured Under a Certified ISO 9001 Quality System



Product Specifications

Materials of Construction:

- | | |
|---------------------|--|
| • Filter Media: | Melt Blown Polypropylene |
| • Hardware: | Polypropylene |
| • Sealing: | Thermal Bond |
| • Support Material: | Polypropylene |
| • O-rings: | Silicone, EPDM, Buna-N, Viton, Teflon Encapsulated Viton |

Dimensions (nominal):

- | | |
|---------------------|--|
| • Outside Diameter: | 6" (152mm) |
| • Lengths: | 20" (508mm), 40" (1016mm), 60"(1524mm) |

Performance Specifications

- | | |
|----------------------|----------------------------------|
| • Retention Ratings: | 1, 3, 4.5, 10, 20, 40µm Absolute |
|----------------------|----------------------------------|

Operating Conditions:

- Maximum Operating Temperature: 140°F (60°C)
- Recommended Change Out Differential Pressure: 30 psid (2.1bar)

FDA Listed Materials:

Manufactured from Materials Which are FDA Listed for Food Contact Applications in Title 21 of the U.S. Code of Federal Regulations

Toxicity:

All Polypropylene Components meet the Specifications for Biological Safety as per the USP for Class VI-121°C Plastics (Gaskets/O-rings Excluded)

Typical Applications

- Food and Beverage
- Seawater Desalination
- Cooling Water
- Industrial Water
- RO Pre-filtration
- Amine Circulation Filtration
- Process Water and Waste Water Treatment

Retention Rating / Liquid Flow Rate vs. Initial Pressure Drop

Retention Rating (Absolute) μm	Initial Pressure Drop 20"/508mm length (psid/gpm)/(x100)bar/lpm	Initial Pressure Drop 40"/1016mm length (psid/gpm)/(x100)bar/lpm	Initial Pressure Drop 60"/1524mm length (psid/gpm)/(x100)bar/lpm
1	0.0090 / 0.0164	0.0049 / 0.0089	0.0040 / 0.0073
3	0.0070 / 0.0127	0.0035 / 0.0064	0.0027 / 0.0049
4.5	0.0042 / 0.0076	0.0022 / 0.0040	0.0017 / 0.0031
10	0.0035 / 0.0064	0.0019 / 0.0035	0.0010 / 0.0018
20	0.0025 / 0.0046	0.0013 / 0.0024	0.0009 / 0.0016
40	0.0010 / 0.0018	0.0007 / 0.0013	0.0005 / 0.0009

Recommended Maximum Flow Rate per Cartridge to Optimize System Performance

Length of Cartridge	Recommended Operation Flow Rate (gpm/min) / (m ³ /hr)
20"	110 / 25
40"	220 / 50
60"	308 / 70

Ordering Information

MHF Product Name	010- Absolute Micron Rating (μm)	620- Cartridge Length	E Materials of O-rings
Multiplet High Flow	010 = 1	20"	E = EPDM V = Viton S = Silicon F = Teflon Encapsulated Viton
	030 = 3	40"	
	045 = 4.5	60"	
	100 = 10		
	200 = 20		
	400 = 40		