

MemKway H Series High Flow Filter Cartridge

MemKway H series high flow pleated filter cartridges are ideal direct replacements for 3M high flow HF series filter cartridges. Made of high-quality polypropylene microfiber with a professional radial pleating design, this 6.5-inch large outer diameter filter features an outside-to-inside flow structure, large filtration area, and high flow rate. These characteristics allow for compact housing designs and reduce the number of cartridges required.

With a single open-end design and fewer individual seal points compared to 2.5-inch standard filters, these cartridges help minimize the risk of fluid bypass. Micron grades ranging from 1 μm to 70 μm absolute filtration precision deliver excellent particulate removal and surface filtration performance.

The all-polypropylene construction offers a wide range of compatibility with various fluids, making them suitable for pre-filtration, cooling water, seawater desalination RO systems, oilfield, and various industrial liquid filtration applications, offering a cost-effective and reliable alternative filtration solution.

Features and Benefits

- **1:1 Compatibility:** Guaranteed to fit perfectly into existing high-flow filter housings without any modifications.
- **Radial pleat design:** The filter offers high loading capacity, reproducible effluent quality throughout its service life, and broad chemical compatibility.
- **Cost-Efficient Excellence:** The replacement filter achieves the same (or better) filtration efficiency as the original ones while reducing your overall operational and maintenance costs.
- **Simplified Maintenance:** Featuring an integrated handle design, MemKway equivalents allow for rapid installation and mechanical removal, minimizing system downtime.
- **Suitable for diverse industrial applications:** Micron grades range from 1 μm to 70 μm absolute filtration precision. It offers excellent particulate removal and surface filtration for a variety of industrial applications..



Applications

- ▶ Process & Cooling Water Filtration
- ▶ Industrial & Chemical Processing Water Filtration
- ▶ Food & Beverage Pre-filtration
- ▶ Oil, Gas, & Petrochemical Industry Water Filtration

Specifications

Materials of Construction

- Filter Media: Polypropylene
- Support/Drainage: Polypropylene
- End caps: Polypropylene
- O-ring options: Nitrile, Silicone, EPDM and Viton

Filtration Ratings (Absolute)

1 μm ,2 μm , 5 μm , 10 μm , 15 μm , 25 μm , 40 μm , 70 μm

Dimensions (Absolute)

- Length: Available in 40"/1016 mm, 60"/1524 mm
- Outer Diameter: 6.5"/165 mm
- Internal Diameter: 3"/76.2 mm

Operating Conditions

Maximum Operating Temperature	160° F (71°C)
Maximum Forward Differential Pressure	50 psid @68°F (3.4 bar @20°C)
Recommended Change-out Differential Pressure	35 psid @68°F (2.4 bar @20°C)
Maximum Water Flow Rate	350 gpm (80 m ³ /h) – 40" 500 gpm (113 m ³ /h) – 60"

Clean Pressure Drop On Flow Rate (Water @ 20°C)

Removal rating (μm)	Element pressure drop (mbar/m3/h)		Element pressure drop (psi/100 gpm)	
	40"	60"	40"	60"
1	2.47	1.73	0.80	0.56
2	2.29	1.60	0.74	0.52
5	1.23	0.86	0.40	0.28
10	0.62	0.43	0.20	0.14
15	0.44	0.31	0.14	0.10
25	0.31	0.23	0.11	0.08
40	0.30	0.22	0.10	0.07
70	0.29	0.21	0.09	0.06

Ordering Information

Code	Nominal Length	Media Material	Absolute Micron Rating	O-ring Material
MK-H	40	PP	005	N
MemKway equivalent code	40=40" 60=60"	PP=Polypropylene	001=1 μm 002=2 μm 005=5 μm 010=10 μm 015=15 μm 025=25 μm 040=40 μm 070=70 μm	S=Silicone E=EPDM N=Nitrile V=Viton