MemKway U Series High Flow Filter Cartridge

MemKway U Series High Flow Pleated Filter features a large-diameter, coreless, single open-ended pleated cartridge design with an inside-to-outside flow configuration.

Adopting an optimized crescent-shaped pleat structure together with a standard 152.4 mm (6-inch) large diameter and premium multi-grade filter media, MemKway high flow cartridge enables fewer filter quantities and smaller filter housing footprint for high flow rate working conditions, serving as an ideal direct replacement for Pall Ultipleat High Flow series.

Features and Benefits

- **1:1 Compatibility:** Guaranteed to fit perfectly into existing high-flow filter housings without any modifications.
- **High Dirt-Holding Capacity:** The multi-layered pleated structure maximizes surface area, significantly extending the service life compared to standard melt-blown filters.
- **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 equivalent allows for rapid installation and tool-free replacement, minimizing system downtime.
- **Safe for Critical Applications:** Constructed using thermally bonded polypropylene, ensuring zero fiber migration and excellent chemical compatibility across various fluids.

Applications

- Industrial Water Pre-Filtration
- Process & Cooling Water Filtration
- Chemical Solution Filtration
- Pharmaceutical & Electronics Water Pre-Treatment
- Food & Beverage Water Purification
- Wastewater Treatment

Specifications

Materials of Construction

- Filter Media: Pleated polypropylene depth structure/Glass fiber
- Support/Drainage: Polypropylene
- End caps: Glass filled polypropylene
- O-ring: Ethylene propylene

Filtration Ratings (Absolute)

1 µm ,3 µm, 4.5 µm, 5 µm, 6 µm, 10 µm, 20 µm, 40 µm, 50 µm, 70 µm, 100 µm

Dimensions

- Length: Available in 20"/ 508 mm, 40" /1016 mm and 60" / 1524 mm
- Outer Diameter: 6"/152.4 mm
- Internal Diameter: 3.5"/89 mm

Surface Area

3.4 m^2 /36 .6 ft^2 per 20" length

Operating Conditions

	Polypropylene Medium	Glass Fiber Medium
Maximum Operating Temperature	82 °C (180 °F)	121 °C (250 °F)
Maximum Differential Pressure	3.4 bar @ 82°C 50 psid @ 180°F	3.4 bar @ 121°C 50 psid @ 250°F
Recommended Change-out Differential Pressure	35 psid @68°F (2.4 bar @20°C)	
Recommended Maximum Water Flow Rate	20" up to 663 lpm/175 gpm; 40" up to 1,325 lpm/350 gpm; 60" up to 1,900 lpm/500 gpm	

Clean Pressure Drop On Flow Rate

Removal rating (µm)	Element pressure drop (mbar/m3/h)			Element pressure drop (psi/100 gpm)		
	20"	40"	60"	20"	40"	60"
1	6.08	2.94	1.98	2.0	0.97	0.65
3	2.61	1.29	0.87	0.88	0.43	0.29
5	1.48	0.73	0.49	0.49	0.24	0.16
10	1.04	0.52	0.35	0.34	0.17	0.11
20	0.74	0.36	0.24	0.24	0.12	0.08
40	0.55	0.27	0.18	0.18	0.09	0.06
50	0.46	0.22	0.15	0.15	0.07	0.05
70	0.12	0.06	0.04	0.04	0.02	0.013
100	0.112	0.056	0.037	0.037	0.019	0.012

Ordering Information

Code	Length	Media Material	Micron Rating	O-ring Material
MK-U-	660	PP	050	E
MemKway equivalent code	660=60" 640=40"	PP=Polypropylene GF=Glass fiber	010=1 µm 020=2 µm 030=3 µm 045=4.5 µm 050=5 µm 060=6 µm 100=10 µm 200=20 µm 400=40 µm 500=50 µm 700=70 µm 1000=100 µm	E=EPDM V=Viton N=Buna N S=Silicone