

MemKway R Series High Flow Filter Cartridge

MemKway R series high flow filter cartridge is an ideal drop-in replacement for AquaLine series. Equipped with advanced pleated construction, it ensures steady high-flow particle removal for industrial clarification and prefiltration.

Adopting large-diameter single open-end design and outside-to-inside flow path, it maximizes filtration area to extend service life. Its superior high-flow performance reduces cartridge consumption and housing space requirements.

All-polypropylene structure offers great chemical compatibility. Premium filter media achieves outstanding filtration efficiency, effectively relieving downstream process load. It is widely suitable for drinking water, cooling water, RO systems, oilfield and various industrial filtration scenarios.

Features and Benefits

- **1:1 Compatibility:** Guaranteed to fit perfectly into existing high-flow filter housings without any modifications.
- **Advanced Pleated Technology:** The optimized pleated structure, high surface area and premium polypropylene media extend service life, reduce change-outs and maintain stable filtration.
- **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 ergonomic 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

- RO Pre-filtration & Guard Filtration (Desalination, Power Plants)
- Process Water & Cooling Water Clarification
- Municipal & Potable Water Treatment
- Wastewater & Industrial Effluent Management
- Food & Beverage, Pharmaceutical Pre-filtration

Specifications

Materials of Construction

- Filter Media: Polypropylene
- Support/Drainage: Polypropylene
- End caps: Glass fiber reinforced polypropylene
- O-ring: Nitrile (NBR) Standard / Silicone, EPDM Optional

Filtration Ratings (Nominal)

1 µm, 5 µm, 10 µm, 20 µm, 50 µm

Dimensions

- Length: Available in 40" / 1016 mm and 60" / 1524 mm
- Outer Diameter: 6.75"/171.5 mm

Surface Area

6 m² / 64.6 ft² for 40" length

9 m² / 96.9 ft² for 60" length

Operating Conditions

Maximum Operating Temperature	180° F (82.2°C)
Maximum Forward Differential Pressure	50 psid @180°F (3.4 bar @82.2°C) 75 psid @68°F (5.2 bar @20°C)
Recommended Change-out Differential Pressure	35 psid @68°F (2.4 bar @20°C)
Maximum Water Flow Rate	350 gpm (1,325 lpm) – 40" 500 gpm (1,892 lpm) – 60"

Clean Pressure Drop On Flow Rate

Removal rating (μm)	Element pressure drop (mbar/m ³ /h)		Element pressure drop (psi/100 gpm)	
	40"	60"	40"	60"
1	2.94	1.98	0.97	0.65
5	0.73	0.49	0.24	0.16
10	0.52	0.35	0.17	0.11
20	0.36	0.24	0.12	0.08
50	0.22	0.15	0.07	0.05

Ordering Information

Code	Micron Rating	Length	O-ring Material
MK-R-ALN	05	60	B
MemKway equivalent code	01=1 μm 05=5 μm 10=10 μm 20=20 μm 50=50 μm	60=60" 40=40"	E=EPDM B=Buna-N S=Silicone