

Cartridges-Ø152 mm High Flow Series Filters



amcMultiFlow HP cartridge is a 152 mm diameter filter specifically designed for dealing with a large volume of liquid filtration. All components in the cartridge are made of high density polypropylene except the outer cage which is composed of stainless steel net. The cartridge contains pleated polypropylene nonwoven or polyethersulfone membrane as the filter media in a robust construction possessing a stainless steel outer cage for extra strength. A thermal welding technique is used to combine all components together in order to eliminate the use of adhesive to minimizing extractables during filtration. Four different configurations in lengths and adapters are available for convenient operation with either an inside-to-outside flow direction or an outside-to-inside flow direction.

Performance Advantages

- * Large effective filtration area to maximize flow rate, offering long service life
- * Available in four different lengths: 20", 40", 60", and 80", and inside-to-outside or outside-to-inside flow direction
- * Stainless steel netting used for outer cage to provide extra strength
- * A choice of either polypropylene nonwoven or polyethersulfone membrane filter media for different applications
- * Manufactured using ISO quality standards to ensure product consistency and reproducible performance

Specifications

Materials of Construction

Filter Media: *amcMultiFlow HP/PF*: Pleated multiple layers of non-woven polypropylene
amcMultiFlow HP/AC: Pleated single layer of hydrophilic polyethersulfone

Support Material: Polypropylene

Structure Components: Stainless Steel/Polypropylene

amcMultiFlow HP

Sealing Technology: Thermal bonding

Nominal Length: 20, 40, 60, 80 inch (50.8, 101.6, 152.4, 203.2 cm)

Diameter: 152 mm

Nominal Pore Size: 1, 3, 5, 10, 30, 60, 100 μm

Suggested Maximum Water Flow Per Cartridge

20": 166 gpm (630 L/min)

40": 326 gpm (1,232 L/min)

60": 460 gpm (1,748 L/min)

80": 650 gpm (2,467 L/min)

Typical Filter Cartridge Pressure Drop Per Filter Length

Filter Type	Pore Size (μm)	20"/50.8 cm (psi/100gpm) /(mbar/m ³ /hr)	40"/101.6 cm (psi/100gpm) /(mbar/m ³ /hr)	60"/152.4 cm (psi/100gpm) /(mbar/m ³ /hr)	80"/203.2 cm (psi/100gpm) /(mbar/m ³ /hr)
<i>amcMultiFlow</i> HP/PF	1	1.178/3.57	0.583/1.77	0.391/1.19	0.292/0.89
	3	0.523/1.58	0.259/0.78	0.173/0.52	0.129/0.40
	5	0.415/1.26	0.206/0.62	0.138/0.42	0.103/0.32
	10	0.351/1.06	0.173/0.53	0.116/0.36	0.087/0.27
	30	0.255/0.78	0.126/0.38	0.084/0.25	0.063/0.19
	60	0.048/0.14	0.024/0.07	0.016/0.05	0.012/0.04
	100	0.030/0.09	0.016/0.05	0.011/0.04	0.008/0.02
<i>amcMultiFlow</i> HP/AC	1	1.616/4.90	0.799/2.43	0.536/1.63	0.400/1.21

Maximum Operating Temperature

60°C (140°F)

Maximum Differential Pressure

60 psi (4.1 bar) at ambient temperature

Biosafety and CFR Title 21

All components meet USP class VI-121°C Plastic Tests, and are listed as being acceptable for food contact according to the Code of Federal Regulation, Title 21

amcMultiFlow HP

Cartridge Ordering Information

amcMultiFlow HP/PF: MUF ■ ■ H ◆ ● ▲

amcMultiFlow HP/AC: MUC ■ ■ H ◆ ● ▲

	01	1 μm		
	03	3 μm		
	05	5 μm		
■ Rated Pore Size	10	10 μm		
	30	30 μm		
	60	60 μm		
	00	100 μm		
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◆ Nominal Length	2	20 inch (50.8 cm)		
	4	40 inch (101.6 cm)		
	6	60 inch (152.4 cm)		
	8	80 inch (203.2 cm)		
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▲ Seal Material	S	Silicone		
	V	Viton		
	E	Ethylene Propylene		

● Configuration	HM1	Outside-to-inside, Outlet diameter DN50
	HM2	Outside-to-inside, Outlet diameter DN80
	TP1	Inside-to-outside, U-Cup
	TP2	Inside-to-outside, O-Cup