

# HFM Series

## Pleated High Flow Filter Cartridges

### Description

HFM Series Pleated High Flow Cartridges are made of 100% polypropylene melt media and upgraded with one-piece rigid hard cage with better integrity and high pressure resistance. The glass fiber reinforced polypropylene cage and end caps could withstand working temperature up to 100°C. The 6 inch large diameter leads to larger filtration area, higher flow rate, lower delta pressure, greatly save water treatment plant footprint and consumable cost.

High flow pleated cartridges adopt unique multi-layer structure and inside to outside flow pattern that traps contaminant inside the element, preventing polluting the treated water during filter cartridge change-out. It's a ideal choice for a wide variety applications like RO desalination, food & beverage, process water, municipal water, etc.



### Features

- High surface area, high flow rates with low pressure drop
- Gradient aperture structure, ensuring filtration accuracy and meet flow requirement
- All connection use thermal welding, without adhesive, has wide chemical compatibility
- Excellent and smooth body shape leads to higher flow rate, achieving high throughput and long service life
- Integrity glass fiber reinforce pp cage as one-piece moulding, could withstand higher pressure and higher temperature

### Specification

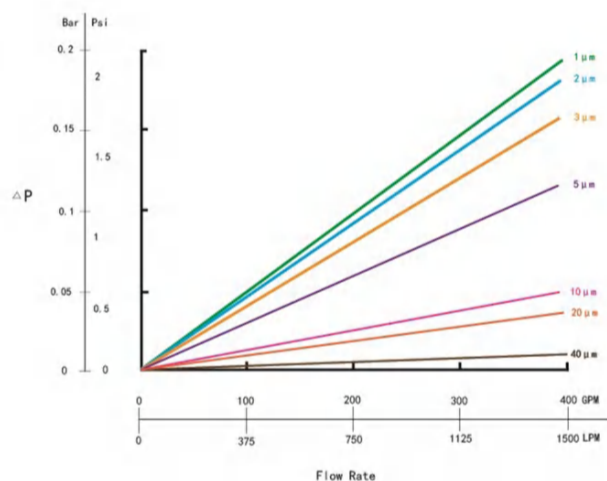
<b>Filter Media</b>	Polypropylene (PP) Pleated
<b>Length</b>	20"(508mm), 40"(1016mm), 60"(1524mm)
<b>Outside Diameter</b>	6 inch (152mm)
<b>Inside Diameter</b>	73.5mm
<b>Filtration Rating</b>	1µm, 2µm, 3µm, 5µm, 10µm, 20µm, 40µm, 70µm, 100µm
<b>Support/Drainage</b>	Polypropylene (PP)
<b>End Cap Material</b>	Glass fiber reinforced Polypropylene (PP)
<b>Outside</b>	40" Overall Rigid Hard Cage
<b>Seal Material</b>	EPDM, Buna-N, Viton

### Application

- Power Plant
- Electroplating
- Food & Beverage
- Paint and Coatings
- Sea Water Desalination
- Process Water Filtration

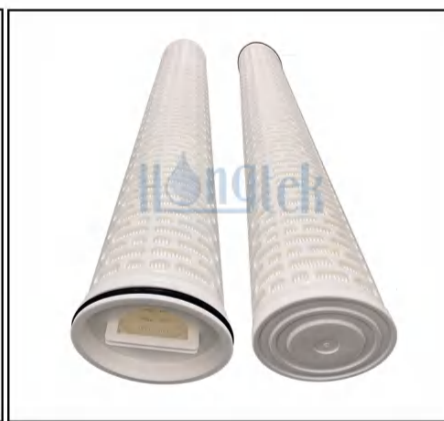
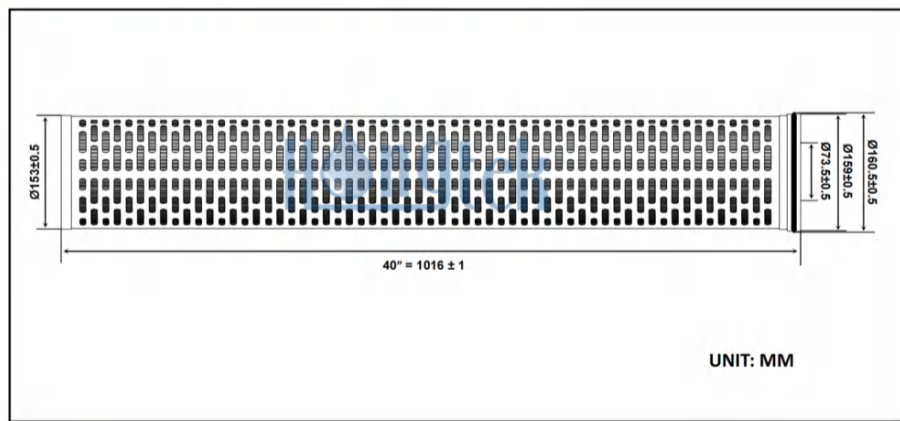
### Operation Data

<b>Max. Operating Temperature</b>	180°F @ 20 psid (82°C @ 1.4 bar)
	160°F @ 30 psid (71°C @ 2.1 bar)
	77°F @ 50 psid (25°C @ 3.4 bar)
<b>Suggested Max. Flow Of Water</b>	20inch length: 660 LPM
	40inch length: 1,300 LPM
	60inch length: 1,900 LPM
<b>Liquid Flow Direction</b>	Inside to outside
<b>Typical Surface Area</b>	7m <sup>2</sup> per 40" filter cartridge
	10.5m <sup>2</sup> per 60" filter cartridge
<b>Maximum Pressure</b>	4.2 bar
<b>Recommend Change out Differential Pressure</b>	2.5 Bar at 20 °C



Flow Rate vs Pressure Drop for Per 40" Filter

### Tech Support



### Order Information

HFM	Material	Length	Filtration Rating	O-ring Material	Inside (selective)
HFM Series Pleated High Flow Filters	P = PP Pleated	20 = 20"(508mm)	1 = 1µm	E = EPDM	C = Central PP core
			2 = 2µm		
			3 = 3µm		
		40 = 40"(1016mm)	5 = 5µm	B = Buna-N	
			10 = 10µm		
			20 = 20µm		
			40 = 40µm		
		60 = 60"(1524mm)	50 = 50µm	V = Viton	
			70 = 70µm		
			100 = 100µm		

For Example:

HFM-P-40-5-E

HFM Series Pleated High Flow Filter Cartridge - Material: PP Pleated - Length = 40" - Filtration Rating = 5µm - O-ring Material = EPDM

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