

HIGH FLOW FILTER CATALOG





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HFH Series

High Flow Pleated Cartridges

HFH Series High Flow Pleated Filter Cartridges

HFH Series High Flow Pleated Filter Cartridges are made of depth fine PP non-woven fabrics. The pleated filter cartridge is single open ended and in diameter of 6inch/152mm, inside to outside flow design ensures that the unwanted particles are trapped with the element. One HFH filter replaces few standard 10" filter cartridges to reduce the operating costs and make change out quickly and easily for critical applications. The multiple layers with depth pleated design provides higher removal efficiency and longer service life than other cartridges of equal efficiency. All the PP configuration with good chemical compatibility ensures that can be used for wide applications.



Features

- Available in economic/nominal/absolute structure, particle removal rating from 0.5 to 100 micron
- 100% polypropylene components provide wide chemical compatibility, suitable for use in a variety of fluids
- With depth fine non-woven fabrics and scientific design, the filter is in a good structure, having high dirt holding capacity and resulting in longer service life
- The pleated media in large diameter reduces operating costs, makes change out quickly and easily and makes cartridge in longer service life
- Higher dirt holding capacity with large diameter reduces the changes times of cartridges

Applications

- Food & Beverage
- RO Pre-Filtration
- Process water(Pre-RO, Cooling...)
- Ground/Reclaimed/Wastewater
- Sea water desalination
- Oil & Chemical
- Power plant water treatment
- Machinery & Equipment

Dimension

Outer Diameter Length 154mm 20", 40", 60"

Material of Constructions

Media Cage / Core / End Cap Sealing PP, GF PP Silicone, EPDM, FKM, E-FKM

Performance

Max. Operating Temperature	80°C
Max. Operating DP	2.4 bar@20°C
Recommended Change out DP	2.2 Bar@20°C

Quality

- Manufactured in a clean room environment
- Manufactured according to ISO9001:2015 certified Quality Management System

Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21CFR.
- Materials used to produce filter media and hardware meet the specifications for biological safety per USP Class VI-121[°]C for plastics.
- Passed European Commission Directives (EU10/2011)

Flow Rate



Dimensions



		ORDERING IN	FORMATION		Eg.=> HFAG0050PB20S
Grade	Media Structure	Hardware Material	Appearance	Length	Seal Material
HFA = Absolute HFN = Nominal HFE = Economic	G0050 = PP0.5µm G0100 = PP1µm G0300 = PP3µm G0500 = PP5µm G1000 = PP10µm G2000 = PP20µm G4000 = PP40µm G7000 = PP70µm G9900 = PP100µm	P = PP	B = Belt C = Cage	20 = 20" 40 = 40" 60 = 60"	S = Silicon E = EPDM V = FKM F = E-FKM

Eg.=> HFS0050B20SP

ORDERING INFORMATION					
Hardware Material	Media Structure	Appearance	Length	Seal Material	Core
S= Glass fiber	0050 = 0.5µm	B = Belt	20 = 20"	S = Silicon	Blank = No
	0100 = 1µm	C = Cage	40 = 40"	E = EPDM	P = PP core
	0300 = 3µm		60 = 60"	V = FKM	
	0500 = 5µm			F = E - FKM	
	1000 = 10µm				
	2000 = 20µm				



HFD Series

High Flow Filter Cartridges

HFD Series High Flow Filter Cartridges

HFD Series High Flow Filter Cartridges can be taken from filters conveniently with two stretchable handles on both ends. The single open-ended filter is designed with a large input whose diameter of 6 inches. The design of super high flow can thus better improve the efficiency of filter cartridges and filters and save the cost. This filter cartridge also adopts depth fine PP fiber membrane as the main filtration layer.



Features

- Big filtration area, high flow rate
- Double handles, both ends are easily accessible
- Optional remove ratings
- Manufactured in cleanroom environment

Applications

- General purpose: RO system prefiltration
- Industrial: process water, cooling water, waste water filtration
- Chemical: filtration of various acids, bases, solvents, chilled water, saline
- Condensate water filtration in power plant

Dimension

Diameter	154 mm
Length	20", 40"

Material of Constructions

Media	PP, GF
Support	PP
Cage	PP

Performance

Max. Operating Temperature	80°C
Max. Operating DP	2.4 bar@20°C
Recommended Change out DP	2.2 Bar@20°C

DP



Drawing



DDEDU

Eg.=> HFD40AG0050S

ORDERING INFORMATION				
Length	Remove Rating	Me	dia	Seal Material
20 = 20" 40 = 40"	A = Absolute N = Nominal E = Economic	G0050 = PP0.5μm G0100 = PP1μm G0300 = PP3μm	G1000 = ΡΡ10μm G2000 = ΡΡ20μm G4000 = ΡΡ40μm	S = Silicon E = EPDM B = NBR
		G0500 = PP5µm	G7000 = PP70µm G9999 = PP100µm	V = FKM F = E-FKM

			Eg.=> HFD40S0050S
	ORDERING IN	FORMATION	
Length	Me	dia	Seal Material
20 = 20" 40 = 40"	S0050 = GF0.5μm S0100 = GF1μm S0300 = GF3μm	S0500 = GF5μm S1000 = GF10μm S2000 = GF20μm	S = Silicon E = EPDM B = NBR V = FKM

F = E-FKM

HFM Series

High Flow Pleated Cartridges

HFM Series High Flow Pleated Filter Cartridges

HFM Series High Flow Filter Cartridges are made of high performance media with horizontal pleat design that provides higher filtration area and longer service life. The media construction of multiple layers ensures the high dirt holding capacity with high efficiency per filter. The filter has a big diameter of 6.5inch/165mm. "Twist to lock" seating mecha-nism provides positive seal. One HFM filter replaces few standard 10" filter cartridges to reduce the operating costs and making change out quickly and easily for critical applica-tions. All the PP configuration with good chemical ensures the wide applications.

Features

- Available in nominal structure, particle removal rating from 0.5 to 100 micron
- Horizontal pleat, high filtration area, high flow rate
- High performance fiber matrix with no adhesives or surfac-tants, non-fiber releasing to keep the high quality fluid, highly stable structure, and high dirt holding capacity
- 100% polypropylene components provide wide chemical compatibility, suitable for use in a variety of fluids

Power plant water treatment

• Refing(Amine, Final product)

Machinery & Equipment

Chemicals

Machine coolants

- Fewer cartridges required, reducing operating, saving space and system footprint
- The long service life results in low investment and less manpower in many applications

Applications

- Food & Beverage
- Process water(Pre-RO, Cooling...)
- Ground/Reclaimed/Wastewater
- Sea water desalination
- Oil & Chemical

Dimension

Outer	Diameter	
Lengtl	า	

165 mm 40", 60"

Food Contact Compliance

- Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21CFR.
- Materials used to produce filter media and hardware meets the specifications for biological safety per USP Class VI-121C for plastics.
- Filter cartridges passed European Commission Directives (EU10/2011)

Material of Constructions

- Media:PP
- Support: PP
- Cage / Core / End cap: PP
- Sealing: Silicone, EPDM, FKM, E-FKM

Performance

Operating Conditions Max. Operating Temperature Max. Operating DP Recommended Change out Differential Pressure

80 °C 3.0 bar@ 20 ℃

2.4 Bar@20°C

Quality

- Manufactured in a clean room environment
- Manufactured according to ISO9001:2015 certified Quality Management System

Flow rate



HFM A Flow Rate

Dimensions



Eg.=> HFMG0050PAB40S

		ORDERING INFORMATION			
Media Type	Hardware Material	End Cap Type	Appearance	Length	Seal Material
$\label{eq:G} \begin{split} G &= PP \\ G0050 &= PP0.5 \mu m \\ G0100 &= PP1 \mu m \\ G0300 &= PP3 \mu m \\ G0500 &= PP5 \mu m \\ G1000 &= PP10 \mu m \\ G2000 &= PP20 \mu m \\ G4000 &= PP40 \mu m \\ G7000 &= PP70 \mu m \\ G9900 &= PP100 \mu m \end{split}$	P = PP	A = In-line handle and big outlet B = Cross handle and small outlet	B = Netting C = Cage	40 = 40" 60 = 60"	S = Silicon E = EPDM V = FKM F = E-FKM

HFP Series

High Flow Pleated Cartridges

HFP Series High Flow Pleated Filter Cartridges

HFP Series High Flow Pleated Filter Cartridges are single open-ended cartridges in 6.7 inch diameter with outside to inside flow pattern. It offers a high flow rate solution with quick changes for advanced water filtration systems including industrial and commercial osmosis type water and sea water filtration. It provides a cost effective alternative to 2.5 inch OD style filter cartridges in high flow applications.

Features

- Available in economic/nominal/absolute structure, particle removal rating from 0.5 to 100 Micron
- 100% polypropylene components provide broad chemical compatibility, suitable for a variety of fluids
- High dirt holding capacity and longer service life

Applications

- Food & Beverage
- RO Pre-Filtration
- Process Water
- Wastewater

- Sea water desalination
- Oil&Chemical
- Power plant water treatment
- Machinery&Equipment

Dimension

Outer Diameter Inner Diameter Length 172 mm 76mm 40", 60"

Material of Constructions

- Media:
- Support:
- Endcap Material:
- Sealing:

Polypropylene Polypropylene Polypropylene Buna

Performance

• Max Operating Temperature

82 °C

Max Operating DP

35Psid

Quality

- Manufactured in a clean room environment
- Manufactured according to ISO9001:2015 certified Quality Management System

Food Contact Compliance

- Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21CFR.
- Materials used to produce filter media and hardware meets the specifications for biological safety per USP Calss VI-121 [°]C for plastics.
- Filter cartridges passed European Commission Directives (EU10/2011)

Flow rate



Dimensions



40"	60"
1016.0±2	1080.0±2
1525.0±2	1589.0±2

Eg.=> HFPAG0050P40SP

ORDERING INFORMATION										
Grade	Media Type(PP)	Hardware Material	Length	Seal Material	Core					
HFPA = Absolute HFPN = Nominal HFPE = Economic	G0050 = $0.5\mu m$ G0100 = $1\mu m$ G0300 = $3\mu m$ G0500 = $5\mu m$ G1000 = $10\mu m$ G2000 = $20\mu m$ G4000 = $40\mu m$ G7000 = $70\mu m$ G9900 = $100\mu m$	P = PP	40 = 40" 60 = 60"	S = Silicon E = EPDM V = FKM F = E-FKM	P = PP					

CHD Series

High Flow Filter Housing



High Flow Filter Housing

High flow filter housing are designed to accommodate our HFH series filter cartridge and mainly used for large fluid flow rate applications, especially in water treatment. Our high flow filter housings are available in a variety of sizes from 1 to 7 filter elements in length of 20-inch, 40-inch and 60-inch lengths. SS high flow cartridge housing is manufactured by high quality SS304 or SS316L, suitable for high temperature, acid, alkali and chemical resistance filtration systems. The horizontal option to maximize ease of operation, or the vertical to minimize the system's footprint is available. Our housings are available in standard designs, as well as custom-izable configurations to suit your specific needs.



Features

- It adopts sanitary housing body, internal: Ra < 0.6 μ m, suitable for various filtering requirements
- It can be used with large size cartridges for high volume liquid filtration which has low cost-investment and high filtration efficiency
- Vertical and horizontal type can be provided according to customer requirements

Applications

- For general use: pre-filtration of RO system
- Water treatment: filtration of process water, condensed water, cooling water and waste water etc
- Chemical industry: filtration of acid and alkaline liquids, solvents, chilled water and saline water etc
- Power and energy: condensed water filtration in power plants etc

Surface Finish

Finish Type Passivated, Electropolished, Mechpolished, Sand blasting

Polishing Type

Internal: Ra ≤ 0.6µm External: Ra ≤ 0.8µm

Material

Filter Shell Vent Valve Eyebolt Leg Seal Material 304, 316L 304, 316L 304 304 Silicone, FKM, EPDM



Operating Conditions

Design Pressure Max. Operating Temperature

0.6Mpa (6bar) 150°C

Connection

Shell Connection Inlet & Outlet Pressure Gauge Type Eyebolt Tri-clamp / Flange G 1/4" bottom

Drawing





Dimension

\sum		Single round				2 round				3 round			
		Vertical		Horizontal		Vertical		Horizontal		Vertical		Horizontal	
		40"	60"	40"	60"	40"	60"	40"	60"	40"	60"	40"	60"
А	Total height (except pressure gauge)	1950	2450	2000	2500	1950	2450	2000	2500	1950	2450	2000	2500
В	Diameter	219	219	219	219	400	400	400	400	450	450	450	450
\sum			4 round				5 round			6 round			
			Vertical Horizontal		Vertical		Horiz	Horizontal		Vertical		Horizontal	
		40"	60"	40"	60"	40"	60"	40"	60"	40"	60"	40"	60"
А	Total height (except pressure gauge)	1950	2450	2000	2500	1950	2450	2000	2500	1950	2450	2000	2500
В	Diameter	500	500	500	500	550	550	550	550	600	600	600	600

			8 гои	nd		10 round				
		Vertical		Horizontal		Vertical		Horizontal		
		40"	60"	40"	60"	40"	60"	40"	60"	
Α	Total height (except pressure gauge)	1950	2450	2000	2500	1950	2450	2000	2500	
В	Diameter	700	700	700	700	800	800	800	800	

Eg.=> CHDHJ0120T20SEEX

ORDERING INFORMATION										
Series	Connection	Shell Material	QTY	Length	Inlet&Outlet	Seal Material	Surface Finish (inside)	Surface Finish (ioutside)	Design Pressure	
CHD =	H = HFH	J = 304	01 = 1	20 = 20"	T20=TC 3/4"	S = Silicone	E = Electropolished	E = Electropolished	X=Vertical inner pressure	
Filter		K = 316L	02 = 2	40 = 40"	T25=TC 1"	E = EPDM	M = Mechpolished	M = Mechpolished	Y=Horizontal inner pressure	
housing		L = Carbon steel	03 = 3 04 = 4	60 = 60 ^{''}	T32=TC 1.25" T40=TC 1.5"	V = FKM	P = Passivated	S = Sand blasting	W=Vertical outer pressure	
			05 = 5		T50=TC 2"				Z=Horizontal outer pressure	
			06 = 6		F20=Flange 3/4"					
			08 = 8		F25=Flange 1"					
			10 = 10		F32=Flange 1.25					
					F40=Flange 1.5"					
					F50=Flange 2"					









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PRODUCT COLLECTION - High flow filter

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