



PRIFEND™ HIGH FLOW DI WATER FILTER

Large 6-inch diameter multi-layer pleated filter for high flow DI water and chemical filtration

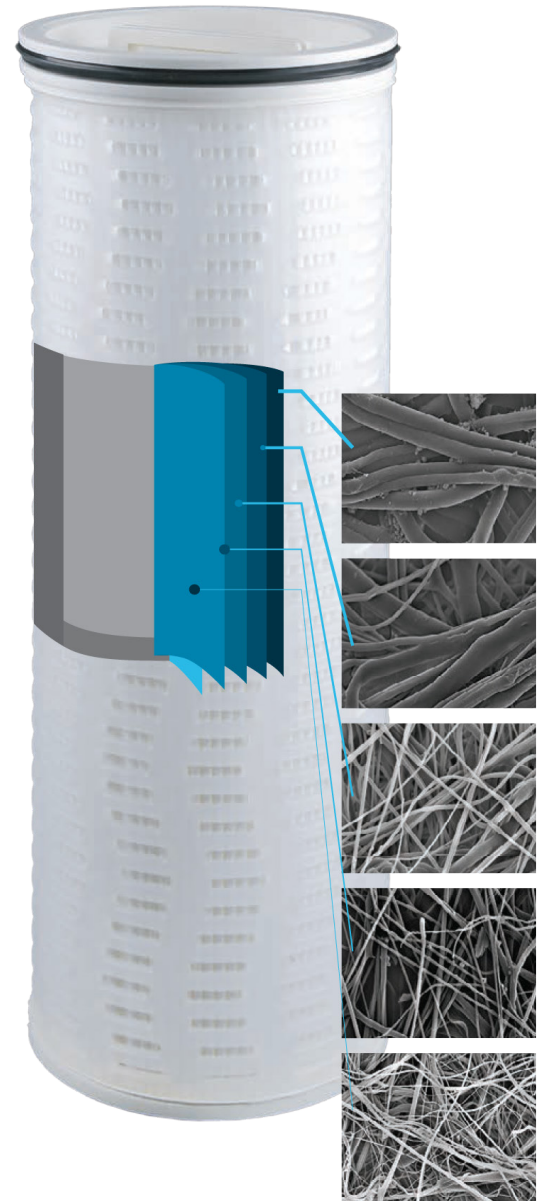
PRIFEND™ HIGH FLOW DI WATER CARTRIDGES FOR BULK FILTRATION

HIGH FLOW 6-INCH DIAMETER CARTRIDGES FOR DI WATER AND CHEMICAL FILTRATION

Prifend™ FDPHF HIGH Flow Filter Cartridges are large, 6-inch diameter, single open-ended pleated cartridge filters with polypropylene core, cage, and end caps. The larger diameter filters with up to 90 ft² (8.4 m²) filtration area offer maximum flow rates as high as 396 gpm (90m³/hr) from a single cartridge. Flow direction is from inside to outside which ensures that all contamination is held within the filter.

With two media options, multi-layer polypropylene and PTFE, these filters provide much higher flow rates than typical cartridge filters, making installations and change outs quicker and easier.

The polypropylene fiber media provides high efficiency filtration for pure water manufacturing. With the PTFE membrane, Prifend is also an excellent choice for bulk-chemical filtration.



FEATURE

BENEFIT

Multi-layer polypropylene pleated structure, 6-inch filters

Large filtration area with high contaminant holding capacity and high throughput

Pleated PTFE media

Available in removal ratings from 20 nm to 10 μm, making it a good choice for some chemical filtration applications which require high flow

Pure polypropylene core and cage

Provides cleanliness and strength
Good chemical compatibility

SPECIFICATIONS

Filter media

Polypropylene / PTFE

Supports/core/cage/end caps

Polypropylene

O-rings

FEP, EPDM, FKM, Silicone

Max. operating temperature

80°C

Max. differential pressure

0.38 MPa (3.8 bar, 55 psi) at 21°C
0.15 MPa (1.5 bar, 21.8 psi) at 80°C

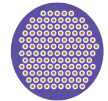
FILTER QUANTITIES VS. SAME FILTER CAPACITY
150m³/h (660 gal/min)



High Flow Filtration System

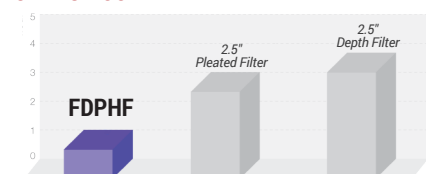


Typical Pleated Cartridge Filtration System



Typical Depth Filter System

CHANGE-OUT TIME



Reduce the number of filters by 90%,
Easier operation and change-out

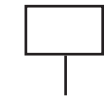
FLOW RATE CHARACTERISTICS

Length	20"	40"	60"
Design flow	15 m ³ /h (66 gpm)	30 m ³ /h (132 gpm)	45 m ³ /h (290 gpm)
Max. allowable flow	30 m ³ /h (132 gpm)	60 m ³ /h (264 gpm)	92.80 m ³ /h (396 gpm)
Effective filtration area	2.8 m ² (30.1 ft ²)	5.6 m ² (60.3 ft ²)	8.4 m ² (90.4 ft ²)

PRIFEND CARTRIDGE ORDERING INFORMATION

EXAMPLE: **FDPHFP100040E** = PP 10 µm, 40" length, with EPDM seals

FDPHF



Filter Media
P = PP
F = PTFE



Removal Rating

PP:
0050 = 0.5 µm
0080 = 0.8 µm
0100 = 1.0 µm
0200 = 2.0 µm
0300 = 3.0 µm
0500 = 5.0 µm
1000 = 10 µm
2000 = 20 µm
4000 = 40 µm
7000 = 70 µm
9000 = 90 µm

PTFE:
0002 = 0.02 µm
0003 = 0.03 µm
0005 = 0.05 µm
0010 = 0.10 µm
0020 = 0.20 µm
0045 = 0.45 µm
0100 = 1.0 µm
0300 = 3.0 µm
0500 = 5.0 µm
1000 = 10 µm



Nominal Length

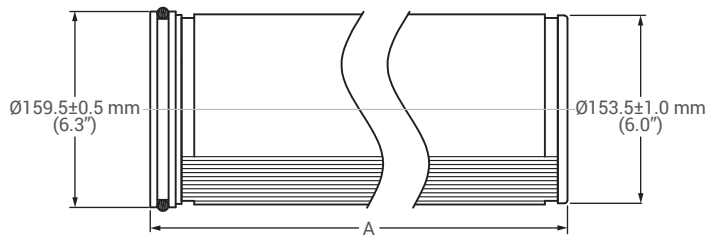
20 = 20"
40 = 40"
60 = 60"



Seal Material

P = FEP
E = EPDM
V = FKM
S = Silicone

PRIFEND HF CARTRIDGE FILTERS



Length Code	A
20	526.0 ±3 mm (20.7")
40	1029.0 ±3 mm (40.5")
60	1538.0 ±4 mm (60.6")

Need a housing for the Prifend HF cartridge?

Cobetter's H-HF150 filter housings are designed to accommodate the wide Prifend HF cartridges. Ask your Banner Industries contact for more information on these housings.



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