



cobetter[®]
— filtration —

Cobetter High Flow Filter System

Designed for Large Flow Applications



Liquid & Gas Filtration

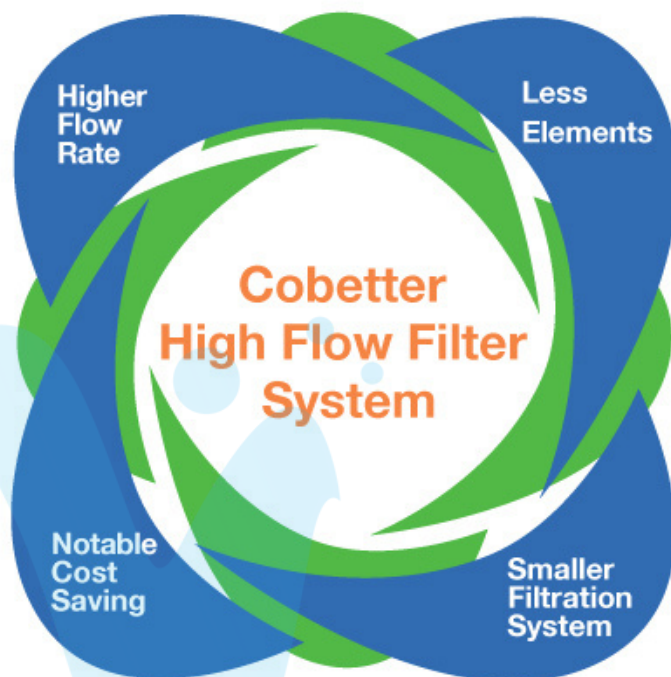
*For Microelectronics, Pharmaceutical, Fine chemical,
Food and Beverage Industries*

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Cobetter High Flow Filter is a large diameter, single open ended pleated cartridge filter. With a 6"/152mm diameter, large filtration area, and high flow rate up to 90m³/hr. It can be widely used in a wide variety of industry with less downtime for change-out.

Features and Benefits

- High density pleated filter type resulting in a high filtration area, high flow rates, longer service life, and high dirt holding capacity.
- Multi-layered design provides gradient filtration.
- Internal PP core guarantees no distortion and resists higher reverse differential pressure.
- Ergonomically designed handle facilities fast and easy installation and remove without special tools.



Industrial

Municipal Water, Pre-RO Filtration, Reclaimed Water, Coolants, Nozzle Protection, Boiler Condensate

Chemical

Quench Water, Aqueous Salt Solutions, Final Products

Petrochemicals

Water-flooding, Produced Water, Enhances Oil Recovery, Completion Fluids, Amine Sweetening, Final Products

Electronics

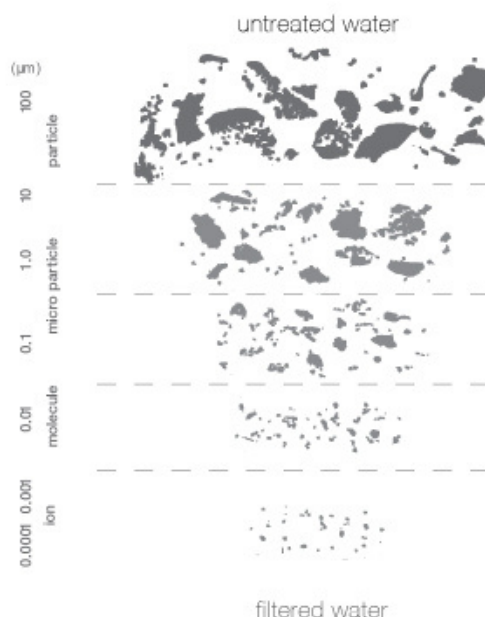
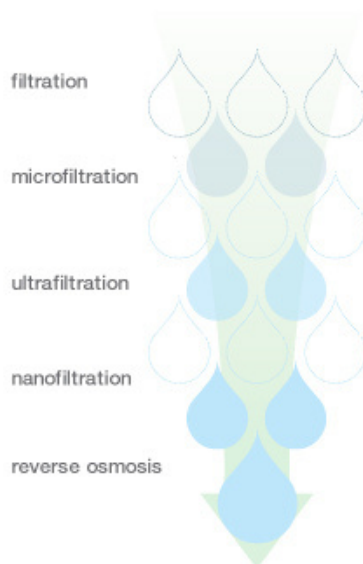
Pre-RO Filtration, Process Water

Food & Beverage

Process Water

Pharmaceutical

Process Water





Materials of Construction

Filter Media	Support/Drainage	End Caps	Core	Outside Material
PP	Pleated Polypropylene depth structure	Polypropylene	Glass filled polypropylene	PP Cage (HFPP150 Series)
GF	Rein bonded glass fiber /Polyester support	Polyester		PET Net (HF150 Serie)

Recommended Operating Conditions

Max. Temperature	PP: 80°C GF: 130°C
Max. Pressure	0.40 MPa/21°C HFPP150 (PP Cage) 0.38 MPa/21°C HF150 (PET Net) 0.15 MPa/80°C

Flow Rate

Length	Design Flow Rate	Max Flow Rate
20"	15 m³/h	30 m³/h
40"	30 m³/h	40 m³/h
60"	45 m³/h	90 m³/h

Retention Ratings

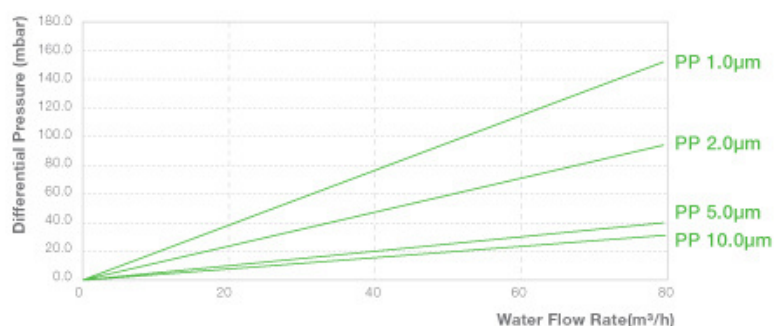
Polypropylene (PP)	1.0, 2.0, 5.0, 10, 20, 40, 70, 90µm
Glass Fiber (GF)	0.8, 1.0, 3.0, 5.0, 15, 25µm

Retention Characteristic

Particle Size	Filtration Efficiency HF150NB						
	PP0.8	PP1.0	PP2.0	PP3.0	PP5.0	PP10.0	PP20.0
≥1µm	99.89%	99.82%	95.00%	86.97%	79.86%	42.23%	24.38%
≥2µm	99.97%	99.87%	98.64%	96.84%	90.09%	70.49%	40.09%
≥5µm	100.00%	99.93%	99.90%	98.86%	98.36%	82.26%	76.66%
≥8µm	100.00%	100.00%	99.97%	99.20%	98.88%	95.25%	82.60%
≥10µm	100.00%	100.00%	100.00%	99.58%	99.39%	98.18%	89.42%
≥12µm	100.00%	100.00%	100.00%	99.78%	99.57%	98.76%	97.41%
≥25µm	100.00%	100.00%	100.00%	100.00%	100.00%	99.34%	99.14%

Remarks: The testing particle is made by mixed solution of standard silica .

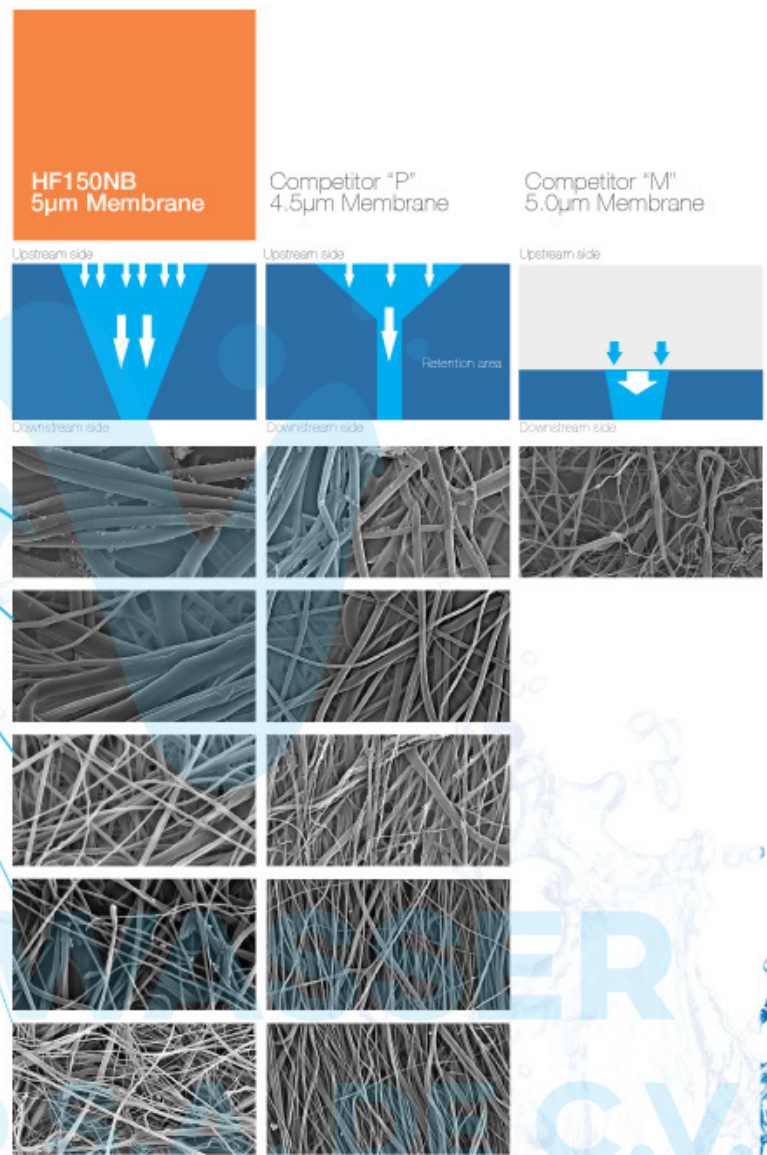
Flow Rate Characteristics



Test Criteria: Single filter (60inch length)cartridge, water at 20°C.



Performance Comparison Table I



Membrane Area-40"	5.6 m ²	5.16 m ²	12 m ²
Membrane Thickness	2.2 mm	2.2 mm	0.8 mm
IPA Velocity Time (@-0.005Mpa/50mlIPA)	11.2 s	12.78 s	5.67 s
Efficiency 0.5-2.0μm particle	99.1%	99.3 %	11.79 %
Service Life (by Hangzhou city water)	325.43 L	272.25 L	164.5 L

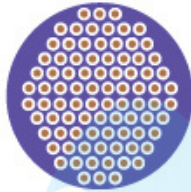
Performance Comparison Table II

Filters Quantities vs Same Filter Capacity

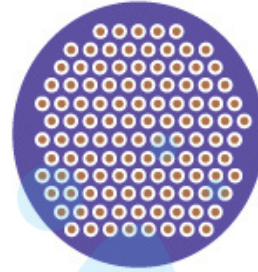
150m³/h



**High Flow
Filtration System**



*Pleated Cartridge
Filtration System*



Depth Filter System

Change-Out Time



Reduce the number of filters by 90%,

Decrease the volume of housing by 50%,

Easier operation and change-out.



End Cap Configuration



HF150NB



HFM150



DSHF150



HFPP150



G1HF150



N1HF150



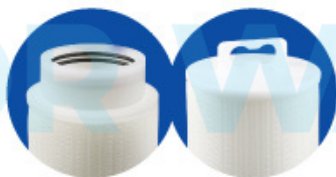
N2HF150



N3HF150



N4HF150



N5HF150



JL-150

Ordering Information

Filter Media		Efficiency Rate		Length	Seal
HFPP150 (PP Cage)	PP	0050=0.5µm	1000=10µm	20=20"	S=Silicone
	GF	0080=0.8µm	1500=15µm	40=40"	E=EPDM
HF150NB (PET Net)		0100=1.0µm	2000=20µm	60=60"	V=Viton
HFM150		0200=2.0µm	4000=40µm		
DSHF150		0300=3.0µm	7000=70µm		
G1HF150		0500=5.0µm	9000=90µm		
N1HF150					
N2HF150					
N3HF150					
N4HF150					
N5HF150					
JL-150					