

Masterfilter HCF high flow cartridges are available in a wide range of pore sizes and provide reliable high performance in many applications. It combines high dirt holding capacity with long service life and high flow rates. The filter utilizes multi-layer filter medium , with graded pore size from coarse (upstream) to fine (downstream) , which offers a higher dirt capacity and make it an economical, high accuracy filter cartridge with absolute removal efficiency.

Features and Benefits

- Coreless construction to minimize waste disposal
- Pleated large surface provides high flow rate and long service life
- Absolute removal ratings from 0,3 to 70 microns (PP) ,and 0.8 to 25 microns (GF)
- Use of PET reinforcing net cover , can withstand maximum operating differential pressure (3.8 bar)
- Different filter media (PP,GF,PES) offers compatibility with most chemicals, solvents caustic and acids
- Pleated surface provides excellent flow rates and low pressure drop



Applications

- Desalination (Pre-RO)
- Reverse Osmosis
- Process Water
- Boiler condensate and feedwater
- Food & Beverage
- Chemicals
- Pharmaceuticals
- Clarify filtration

Materials of construction

- Filter media: Multi-layer Polypropylene depth structure (PP);Resin Bonded Glass Fiber & Polyaramid support(GF), Pleated Polypropylene/ PES membrane
- Support layer: Polypropylene
- End caps: Glass Filled PP
- Out-cover Materials : PET NET
- O-Rings: EPDM/silicone/viton

Operating Characteristics

Maximum Differential Pressure: 3,8 bar/21°C
1,5 bar/80°C

Max. Temperature: 80°C (PP)
130°C (GF)

Design Flow for:

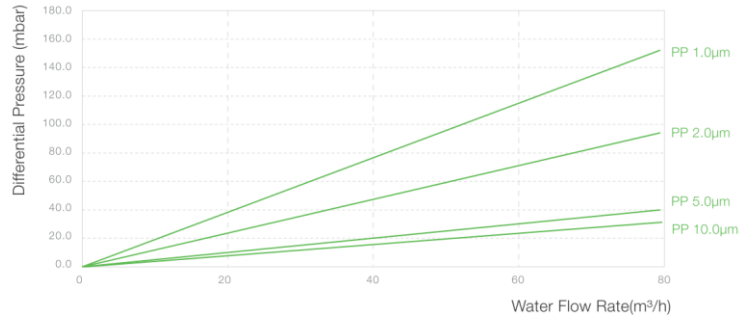
- 20" (508 mm) : 15 m³/h (max 40m³/h)
- 40" (1016 mm) : 30 m³/h (max 80m³/h)
- 60" (1524 mm) : 45 m³/h (max 120m³/h)

Filtration area (m²) :

- 20" : 2,6
- 40" : 5,2
- 60" : 7,8

Flow rates with multi cartridges : till 400 m³/h

Flow Rate Characteristics



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

Food and Biological Safety

Comply with the relevant requirements of EU 1935/2004 and EU directive 10/2011

Ordering Information

HCF



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Filter media	
PP	Pleated Polypropylene Depth Structure
GF	Resin Bonded Glass Fiber/Polyaramid Support
PES	Polyether Sulfone

Removal Ratings	
0030	0,3µm
0050	0.5µm
0080	0.8µm
0100	1.0µm
0150	1.5µm
0200	2.0µm
0300	3.0µm
0450	4.5µm
1000	10µm
1500	15µm
2000	20µm

Nominal length	
20	20 inch
40	40 inch
60	60 inch

Seal Material	
E	EPDM
S	Silicone
V	Viton