

Masterfilter HCF series

The Masterfilter *PreFil* HCF series 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.

Applications

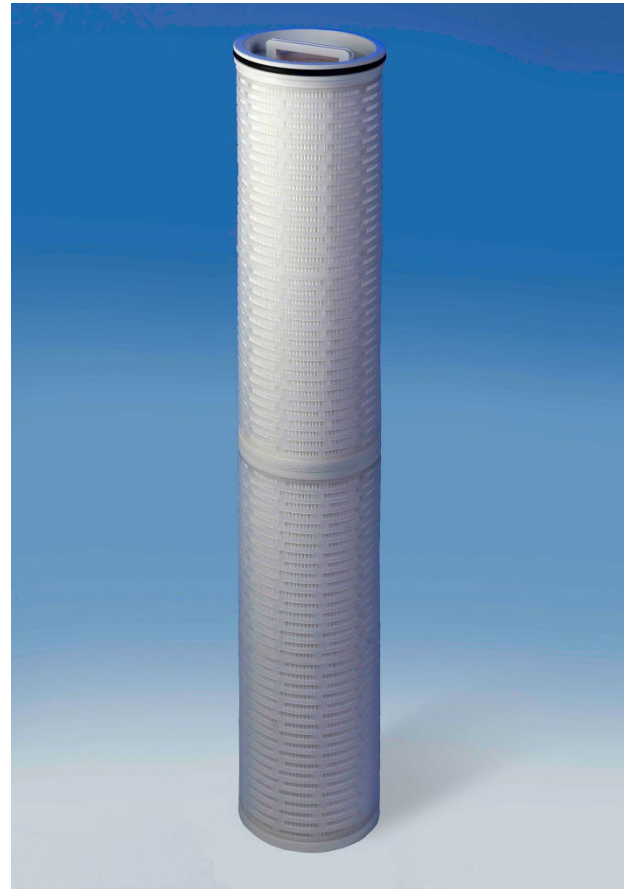
- Desalination (Pre-RO)
- Reverse osmosis
- Process water
- Beer, mineral water, soft drinks
- Boiler condensate and feed water
- Food and Beverage
- Chemicals
- Pharmaceuticals
- Clarify filtration

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 40 microns (PP), and 0.8 to 25 microns (GF)
- Maximum operating differential pressure (3.8 bar)
- Different filter media (PP, GF) offers compatibility with most chemicals, solvents caustic and acids
- Pleated surface provides excellent flow rates and low pressure drop
- Wrapped version (without outer cage) available

Materials of Construction

- Membrane: Multi-layer Polypropylene depth structure (PP); Resin Bonded Glass Fiber and Polyaramid support (GF)
- Support Layers: Polypropylene
- Outer core: Polypropylene
- End caps: Glass Filled PP
- O-rings: EPDM, Silicone, Viton, EPDM U-cap



Operating Parameters

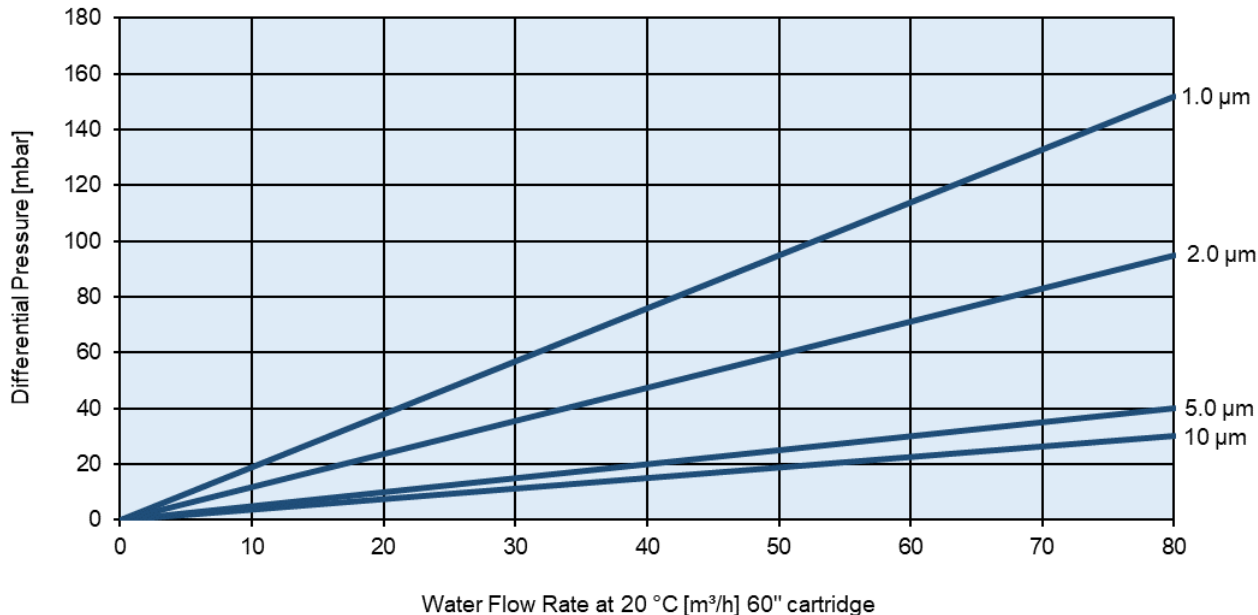
- Max. differential pressure: 3.8 bar at 21 °C, 1.5 bar at 80 °C
- Max. operating temperature: 80 °C for PP and 130 °C for GF
- Filtration Area:
 - 20" (508 mm): 15 m³/h (max. 40 m³/h)
 - 40" (1016 mm): 30 m³/h (max. 80 m³/h)
 - 60" (1524 mm): 45 m³/h (max. 120 m³/h)Flow rates with multi cartridges: till 400 m³/h

Biological Standards

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

Flow Rate Characteristics

Flow Rate Characteristics HCF - Filter media PP



Part Numbers

HCF **PP** **2000** - **40** - **E**

Code	Filter media
PP	Pleated Polypropylene Depth Structure
GF	Resin Bonded Fiber/Polyaramid Support

Code	Removal rating [µm]
0030	0.3
0050	0.5
0080	0.8
0100	1
0150	1.5
0200	2
0300	3
0450	4.5
1000	10
1500	15
2000	20
4000	40

Code	Length	
	[mm]	[inch]
20	508	20
30	762	30
40	1016	40

Code	O-rings
S	Silicone
E	EPDM
V	Viton
EU	EPDM U-cup

Code	Outer shell
Blank	Cage
W	Wrapped

e.g. part number: HCF-PP-2000-40-E

High flow HCF filter, 20 µm, 40" length, EPDM O-rings