

HCF Series

High Flow Filter



Masterfilter HCF

Masterfilter 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 feedwater
- Food & 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 & Polyaramid support (GF)
- **Support Layers:** Polypropylene
- **Outer core:** Polypropylene
- **End caps:** Glass Filled PP
- **O-rings:** EPDM/Silicone/Viton/EPDM U-cap

Operating parameters

- **Maximum differential pressure:**
3,8 bar/21°C
1,5 bar/80°C
- **Maximum operating temperature:**
80°C (PP)
130°C (GF)
- **Filtration Area:**
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)
Flow rates with multi cartridges: till 400 m³/h

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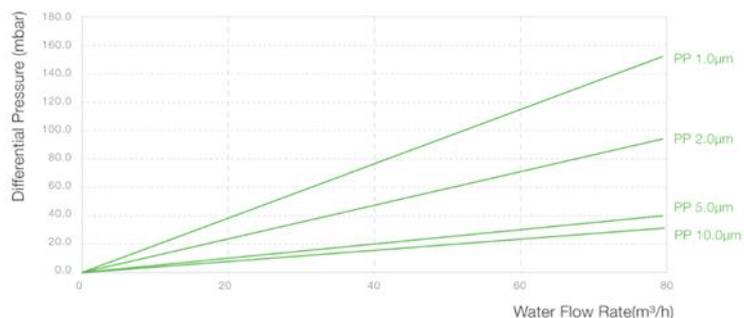


Biological standards

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

Flow Rate Characteristics

Flow Rate Characteristics



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

Part Numbers

HCF PP - 2000 - 40 - E -

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

Code	Removal rating µm
0030	0,3
0050	0,5
0080	0,8
0100	1,0
0150	1,5
0200	2,0
0300	3,0
0450	4,5
1000	10
1500	15
2000	20
4000	40

Code	Length	
	mm	inch
20	508	20
40	1016	40
60	1524	60

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

Code	Outer shell
(blank)	Cage
W	Wrapped

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

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