

Poliflo HFC

HIGH FLOW PLEATED FILTER CARTRIDGE

Poliflo HFC high flow pleated filter cartridges utilise pleated depth media offering maximum efficiency and exceptionally high flow capabilities. Developed to suit industrial processes where high performance is required, the low pressure loss and high dirt capacity makes it the ideal choice for fine polishing applications, in-house developments have optimised the pleat pack ensuring rigidity is maintained at all flow rates. Available in different materials: polypropylene, glass microfibre, polyester, nylon 6,6

Poliflo HFC cartridges feature:

HFC - P: Polypropylene media

- For water, membrane pre-filtration, food and beverage, chemicals and acids
- Materials meet FDA requirements throughout
- High contaminant holding capacity

HFC - G: Glass microfibre media

- Highest dirt holding for water, hydrocarbons and certain chemicals

HFC - N: Nylon media

- For caustic, aromatics and elevated temperature
- High contaminant holding capacity

HFC - S: Polyestere media

- For water, hydrocarbons, specific acids and solvents
- High contaminant holding capacity

Absolute Rated Filter Media

- Available from 0,45 to 100 µm
- Consistent reliable performance
- 99,98% absolute at stated micron ($\beta = 5000$)

Poliflo HFC filter cartridges are produced using an improved manufacturing process resulting in the following features:

- One piece support core up to 60", nominal
- High surface area, resulting in low clean Δp and excellent dirt holding capacity

Envirogen Group manufacture a wide comprehensive range of filter housings for the **Poliflo HFC** cartridges. Available in many materials and sizes to suit all flow rates, please consult our sales office for further details on our full range.

POLIFLO HFC FEATURES AND BENEFITS

- Absolute removal ratings for consistent and reliable performance
- Wide chemical compatibility using materials that meet FDA requirements
- Glass microfibre media gives excellent dirt holding capacity
- Pleat geometry specifically designed for in-out flow direction
- Low maintenance – fewer number of cartridges



TECHNICAL DATA

Material of Constructions

Filter media:	P	G	S	N
Support:	P	P or N or S	P or N or S	P or N or S
Screen:	P	P or N	P or N	P or N
End caps:	P	N	N	N

P = Polypropylene G = Glass Microfibre S = Polyester N = Nylon

Dimensions

Outside Diameter: 150 mm (6")

Maximum ΔP

2,4 Bar @ 20°C; 1,8 Bar @ 48,9°C

Maximum temperature

Polypropylene: 60°C (max 82,2°C)

Glass microfibre with nylon support and screen: 148,9°C

Glass microfibre with polyester support and nylon screen: 125,6°C

Polyester: 125,6°C

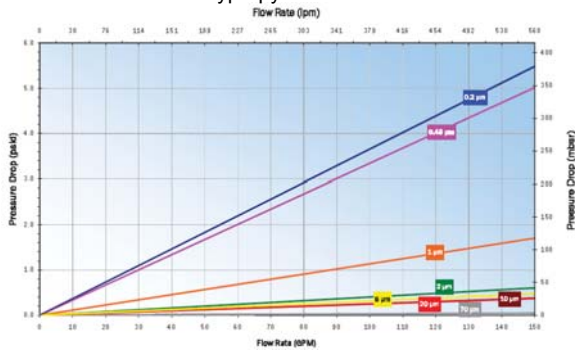
Typical surface area in m² per cartridges

(depending upon the micron rating and material)

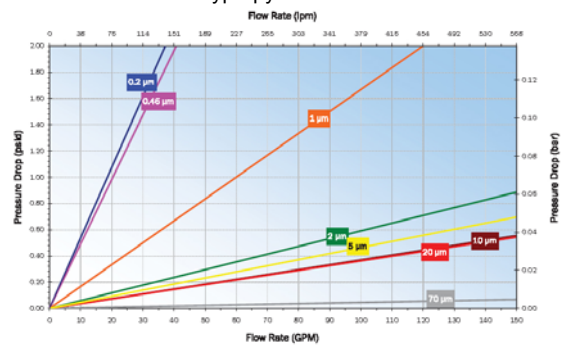
20": 2,3 m²; 40": 6 m²; 60": 9 m²

Poliflo HFC cartridges are manufactured under strict control with batch number identification giving full traceability on all components used.

Polypropylene 6 X 60"



Polypropylene 6 X 40"



Cartridges part numbering guide

HFC		40		P		10		E		X	
Code	Length	Code	Media	Code	Micron rating	Code	Seal	Code	Additional Options		
20	508 mm (20")	G	Glass microfibre	A4	0,45 µm	B	Buna –N	X	Special		
40	1016 mm (40")	P	Polypropylene	A8	0,8 µm	E	EPDM				
60	1524 mm (60")	N	Nylon	01	1.0 µm	T	TEV (PTFE encapsuled viton)				
		S	Polyester	02	2.0 µm						
				05	5.0 µm						
				10	10 µm	V	Viton				
				20	20 µm	X	Special				
				50	50 µm						
				70	70 µm						
				100	100 µm						

INDUSTRIES AND APPLICATIONS

Food and Beverage	➤ Bottled water, Beers, Wines, Flavours, Polishing lines, General clarification
Pharmaceutical	➤ Solvent discharge, Raw water supplies, batch transfers
Fine Chemicals	➤ Polymers, Acids, Bases, Solvents
Cosmetics	➤ Alcohol, Essential oils, Mouthwash solutions
Metal Finishing	➤ Plating solutions, Wash solutions
Water Treatment	➤ Pre reverse osmosis, UV protection, Resin Trap
Automotive	➤ Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paint

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