

Poliflo HFC

Envirogen's Poliflo HFC filter cartridges are designed for applications requiring a very high flow rate, they are equally suitable for use as membrane pre-filters or final polishing filters in applications that do not require membrane filtration. The use of a spacer mesh as an upstream pleat support means that fluid flow is uniform across the entire surface of the filter medium, the mesh holds the flow channels open thereby maximising dirt holding capacity and minimising pressure drop across the filter.

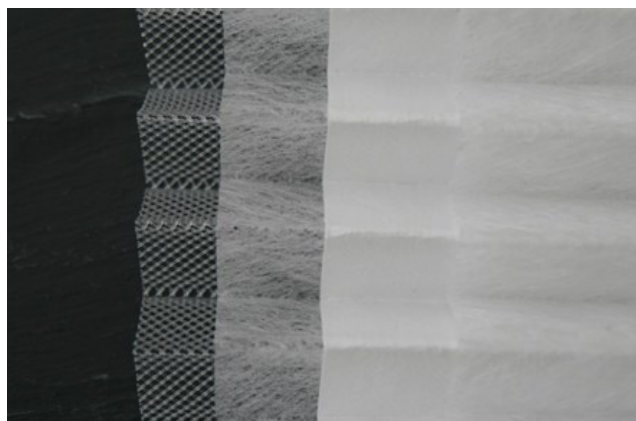
Poliflo HFC filter cartridges are absolute rated, tested to Beta Ratio 5000 using the industry standard single pass OSU-F2 test procedure with ISO 12103 part 1 A2 Fine and A4 Coarse test dust as appropriate.

Manufactured in the UK from polypropylene or microfiber glass filter nylon or polyester media and polypropylene hardware, Poliflo HFC filter cartridges have excellent chemical compatibility. Thermal bonded construction eliminates the requirement for adhesives, maintaining product integrity in demanding applications and minimising the level of extractables in the filtrate. All materials conform to the relevant requirements of FDA CFR21 part 177 and cartridges using polypropylene filter media meet the requirements for food contact as detailed in European Regulation 1935/2004.



Features and Benefits

- Absolute micron ratings ensure consistent, repeatable performance
- Inside to out flow ensures that contamination is collected inside the filter cartridge, for easy disposal
- Poliflo HFC filters meet the requirements for food contact as detailed in EC 1935/2004 – polypropylene only
- Large surface area, typically >5m² per 40" and pleat spacing mesh on the inner layer ensures low initial pressure drops and high dirt holding capacity, for extended service life
- 100% Polypropylene hardware construction and thermal bonding mean wide chemical compatibility and minimum levels of extractables.
- Suitable for steam sterilisation, autoclaving and hot water sanitisation
- Available in 20", 40" and 60" lengths to retrofit most existing installations



Technical Data

Dimensions

Outside Diameter: 154mm
 Inside Diameter: 75mm
 Lengths: 20", 40", 60"

Sanitisation

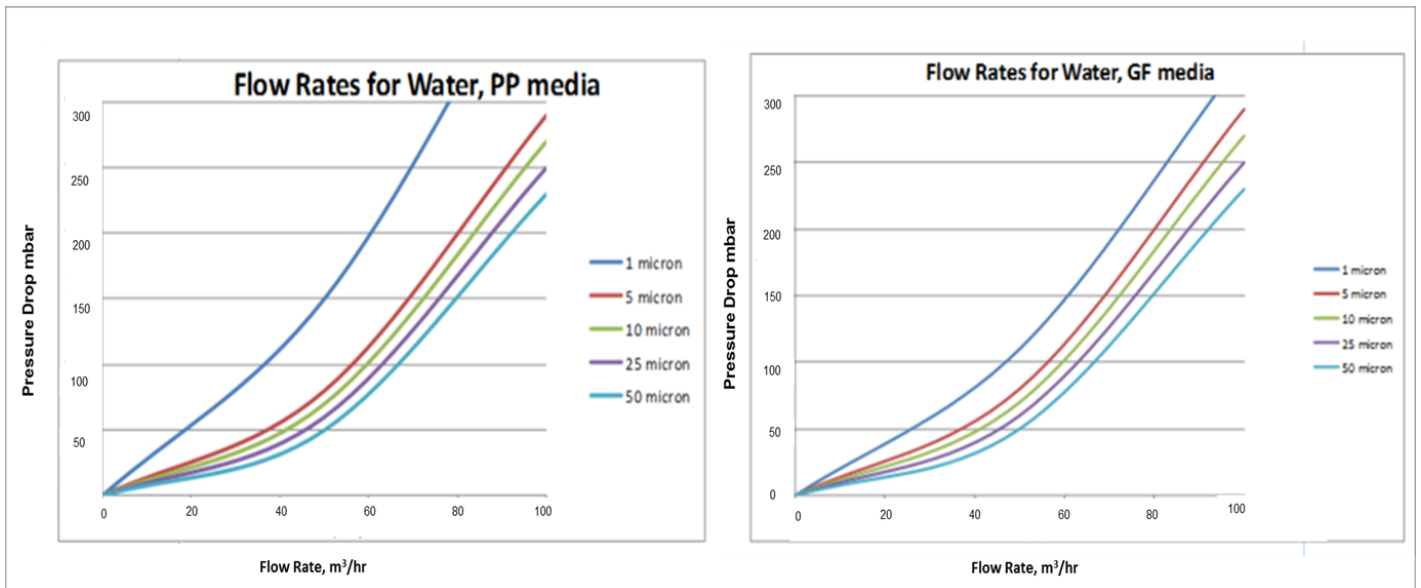
Steam or Autoclave: 121°C for 15 minutes
 Hot Water Sanitisation: 90°C for 30 minutes repeatedly

Operating Conditions

Recommended changeout: ΔP : 1.5 bar @ 20°C
 Recommended Maximum: ΔP
 Forward Flow: 3.5 bar @ 20°C
 1.8 bar @ 65°C
 1 bar @ 80°C
 Reverse Flow: Not recommended

Materials of Construction

Surface area: >5m²/40" typical
 Filter Medium: Polypropylene, Glass Fibre Nylon and Polyester
 Drainage layers: Polypropylene
 Support mesh: Polypropylene
 Outer Core: Polypropylene
 End Caps: Polypropylene
 O-Rings: Various, see below



Poliflo HFC Ordering Guide

Name	Micron Rating	Length	Filter Media	Gasket	Options
HFC	0.45	20	PP = Polypropylene	E - EPDM	
	1	40	GF = Glass Fibre	N - Nitrile	
	5	60	N = Nylon	S - Silicone	
	10		S = Polyester	T - Teflon	
	25			V - Vitron	
	50				
	100				

Ordering Guide Example: HFC-10-40-PP-E

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