

# QUALI-FILTECH-HE-1000

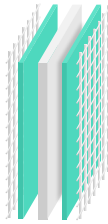
Pleated cartridge



50% Recycled polypropylene

Food-grade polypropylene

Polyester



## Product made from recycled materials



This product is part of our eco-friendly program (SIEBEC CSR), reflecting our commitment to environmental sustainability.

Incorporating PIR recycled plastic, it helps reduce our carbon footprint by nearly 100 tons per year while supporting a circular economy approach.

Made in France and designed with locally recycled materials.

## Characteristics & benefits

- Wide range of media and filter materials with porosities between 0.2µm and 100µm.
- 100% welded and reinforced design.
- High retention capacity.
- Low pressure losses.
- Large filtering surface of 2.5m<sup>2</sup>/10".
- Contains no surfactants, binders, adhesives or silicone
- Easy to grip, thanks to SIEBEC's patented retractable handle
- Siebec patented pleat + Grid to maintain the gap between the pleats: guaranteed increased filtration quality and longevity

## Standard dimensions

External diameter	180 mm
Internal diameter	50 mm
Lengths	10", 20", 30"

## Description

QUALI-FILTECH-HE-1000 cartridges are pleated filter elements.

The large filtering surface combined with the high porosity media provide the QUALI-FILTECH-HE-1000 cartridge with minimal pressure drops and excellent retention capacities.

QUALI-FILTECH-HE-1000 cartridges are assembled by heat welding (without glue) in order to guarantee maximum chemical compatibility and to avoid the risks of contamination.

Resistance to pressure and temperature is improved by the injection moulded inter cage.

The QUALI-FILTECH-HE-1000 cartridge incorporates a mesh spacer upstream and downstream of the filter media to ensure the pleats are spaced apart. This design increases the life of the cartridge while maximising filtration flow.

## Building materials

Code	Material	Max. operating temperature	Application
FTPR	Recycled polypropylene	70°C	Reducing carbon impact
FTP	Food-grade polypropylene	70°C	FDA food application
FTPE	Polyester	110°C	High temperature and solvent

## Range of filter media available

Code	Material	Description
PP	Polypropylene (single-layer pleat pack)	Standard version with maximum filter surface - FDA-compliant food-grade
PE	Polyester	High temperature and solvent application
GF	Borosilicate micro-fiberglass with polyester support	Enhanced efficiency and retention capacity on colloidal particles - Industrial application
GFF	Borosilicate micro-fiberglass with polypropylene support	Enhanced efficiency and retention capacity on colloidal particles - FDA-compliant food-grade
GFF+	Nanoalumina fibers and micro-fiberglass with polyester support	Increased filtration efficiency with nanoalumina - Food FDA Compatible with a pH between 5 and 9

Consult us for chemical compatibility

## Terms of service

Maximum pressure loss	3 bar
Recommended replacement pressure differential	2 bar

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Pleated cartridge

## ORDER REFERENCE

Exemple :



### A / Building materials

Code	Description
FTPR	Recycled polypropylene
FTP	Food-grade polypropylene
FTPE	Polyester

### B / Filter media

Code	Description
PP	Polypropylene (single-layer pleat pack)
PE	Polyester
GF	Borosilicate micro-fiberglass with polyester support
GFF	Borosilicate micro-fiberglass with polypropylene support
GFF+	Nanoalumina fibers and micro-fiberglass with polyester support

### C / Removal ratings

Code	Filtration efficiencies <sup>1</sup>		Materials				
	90%	99,9%	PP	PE	GF	GFF	GFF+
05	0,2 µm	0,5 µm	•				•
1	0,5 µm	1 µm	•		•	•	
3	1 µm	3 µm	•				
5	3 µm	5 µm	•	•			
10	5 µm	10 µm	•				
20	10 µm	20 µm	•	•			
35	20 µm	35 µm	•				
50	25 µm	50 µm	•	•			
90	50 µm	90 µm	•				

<sup>1</sup> Filtration efficiencies are determined in a single pass according to the modified NFX45-303 test protocol in the laboratory under high-flow operating conditions.

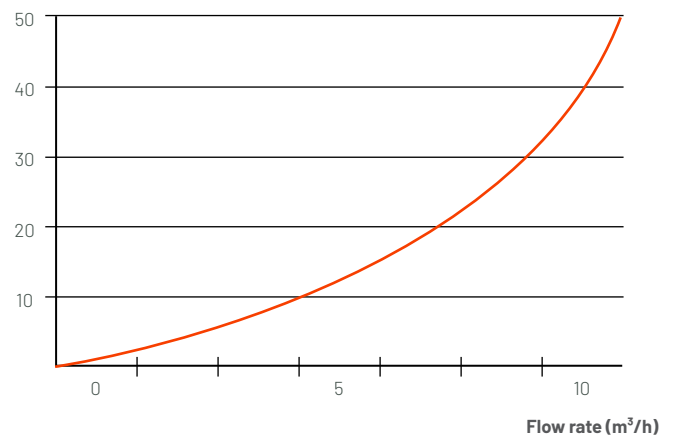
### D / Lengths

Code	Length
10	10"
20	20"
30	30"

### Typical flow rates :

Pressure drop for 10" filtration media \*

Pressure loss (mBar)



\*Typical initial pressure drop  $\Delta P$  per 10" element, water at 20°C, viscosity 1cP.