



Graver Technologies

FILTRATION | SEPARATION | PURIFICATION



CelluTEC™ & CelluTEC HFRF Series Filter Cartridges

Cellulosic Filter Cartridges

Product Specifications

Media: Cellulosic Media with DE and Polypropylene media

Inner core, end caps, cage: Polypropylene

Support layers: Polypropylene

Gaskets/O-Rings: Buna-N, EPDM, Silicone, Teflon Encapsulated Viton, Viton

O-Ring Insert: PBT for Standard version

Micron rating: 0.5, 1, 10, 25 µm

Dimensions

Nominal lengths:

Standard:	10"	20"	30"	40"
	25.4	50.8	76.2	101.6 cm

HFRF:	10"	20"	40"	60"
	25.4	50.8	101.6	152.4 cm

Outside diameter:

Standard: 2.7" (6.9 cm)

HFRF: 6.0" (15.2 cm)

Inside diameter:

Standard: 1.0" (2.54 cm)

Surface Area:

Standard: 3.7ft² (0.34m²) per 10" element

HFRF: 15ft² (1.4m²) per 10" element

Operating Parameters

Maximum operating temperature:
176°F (80°C)

Maximum differential pressure:
60 psid @ 70°F (4.1 bar @ 21°C)
30 psid @ 176°F (2.0 bar @ 80°C)

Maximum reverse differential pressure:
25 psid @ 70°F (2.0 bar @ 21°C)

Recommended change-out pressure:
35 psid (2.4 bar)

The CelluTEC is dual layered with cellulosic media that contains DE (Diatomaceous Earth) and polypropylene media to provide enhanced filtration. Graver CelluTEC cartridges are designed for high loading applications to replace large lenticular filters. The cellulosic filter media is pleated in two cartridge size options, 2.7" (Standard) and 6" High Flow RF cartridges to make testing and scale up easy to evaluate and implement. The CelluTEC's combination of material allows for high flow rates and high efficiency of filtration for particulate removal. The DE embedded in the Cellulosic layer helps trap impurities within the filter. CelluTEC cartridge are a well-designed solution for industrial filtration tasks where efficient particulate removal are crucial.

FEATURES & BENEFITS

- Dual cartridge size available, standard 2.7" and High Flow RF 6"
- Compact cartridge design to minimize space required
- 100% Flushed with 18 megohm DI water and integrity tested
- 99% retention at rated pore size
- HFRF cartridge rated up to 15GPM (56.8LPM) per 10" element for optimal filtration
- Thermally Bonded Construction
- High Solids Removal
- Excellent Product compatibility

CERTIFICATIONS

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 177.1520 and 186.1673 as applicable for food and beverage contact.

TYPICAL APPLICATIONS

- Water Systems
- Food and Beverage
- Haze and Turbidity removal
- Botanical Extract
- Wine and Beer
- Distilled Spirits
- Ethanol extraction

CelluTEC (STANDARD) NOMENCLATURE INFORMATION

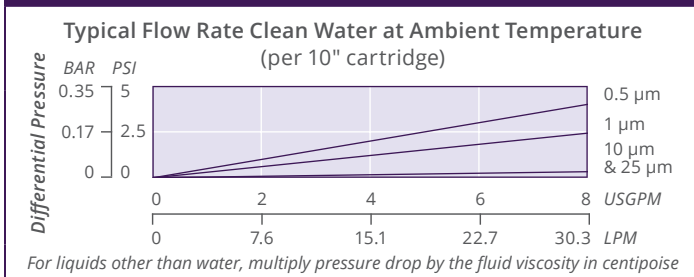
Product Series	Retention Rating (microns)	Length (inches)	End Configuration	Gasket or O-Ring
CelluTEC	0.5	-9.75* -29.25*	P Double Open End	B Buna-N
	1	-10 -30	P2 226/Flat Single Open End	E EPDM
	10	-19.5* -39*	P3 222/Flat Single Open End	S Silicone
	25	-20 -40	P7 226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
			P8 222/Fin Single Open End	T Teflon Gasket
Example: CelluTEC 1-30-P2E			AM Single Open End, Internal O-Ring	V Viton
			NPC Double Open End, Internal O-Ring	
CelluTEC	1	-30	P2	E

*Available only for DOE (P) configuration

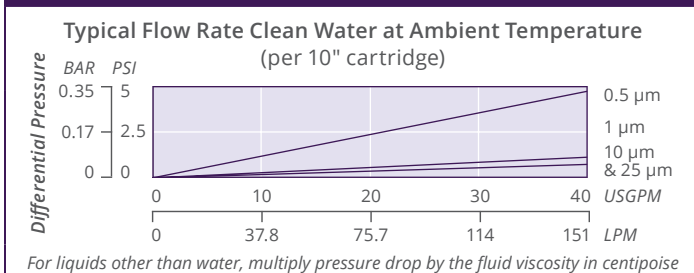
CelluTEC HIGH FLOW RF NOMENCLATURE INFORMATION

Product Series	Retention Rating (microns)	Length (inches)	End Configuration	Gasket or O-Ring
CelluTEC HFRF	0.5	10	P2 226/Flat Single Open End	B Buna-N
	1	25	P2F 226 with no tabs/ Flat Single Open End	E EPDM
			P30 338/Flat Single Open End	S Silicone
Example: CelluTEC HFRF 10-20-P2FS				T Teflon encap. Viton
				V Viton
CelluTEC HFRF	10	-20	P2F	S

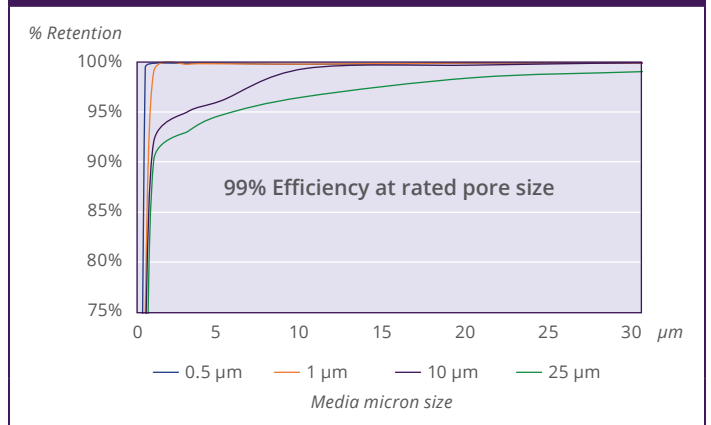
CelluTEC (STANDARD) FLOW RATE



CelluTEC HFRF FLOW RATE



EFFICIENCY OF MEDIA



The efficiency graph shows the retention of various particle sizes. This was determined through laboratory testing. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters. Testing was conducted using the single-pass test method, water at 3 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

FOR MORE INFORMATION

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GTX-371 7-24

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