

Element Data Sheet WER 5106i



HFGCEN

HFG High Flow Gas Filter Cartridge Providing Reliability and Economical Filtration for Superior Fluid Quality

Description

The HFG filter has been designed to optimize performance in high gas flow applications reducing vessel size and capital cost compared with conventional particulate filtration offerings. HFG cartridges features a pleated design, with robust internal support from a stainless-steel core and external protection from stainless steel endcaps. An external U-cup seal ensures a secure, leak-free seal and ease of alignment within the vessel. Available in two advanced media choices: Epocel® (resin-impregnated cellulose) and Ultipor® GF (resin-bonded glass fiber). Both media types are engineered for absolute filtration and offered in multiple grades with precise gas particle removal efficiencies of 99.98% from 0.3µm to 10µm.

Product Benefits

The HFG filter cartridge has been designed with a large diameter bore that promotes the use of a reduced size vessel without compromising filtration efficiency or performance;

- Lower CAPEX costs
- Smaller vessel footprint
- Reduced vessel height
- Simplified capital installation
- Faster element changeout
- Low start up pressure drop
- Advanced filtration performance

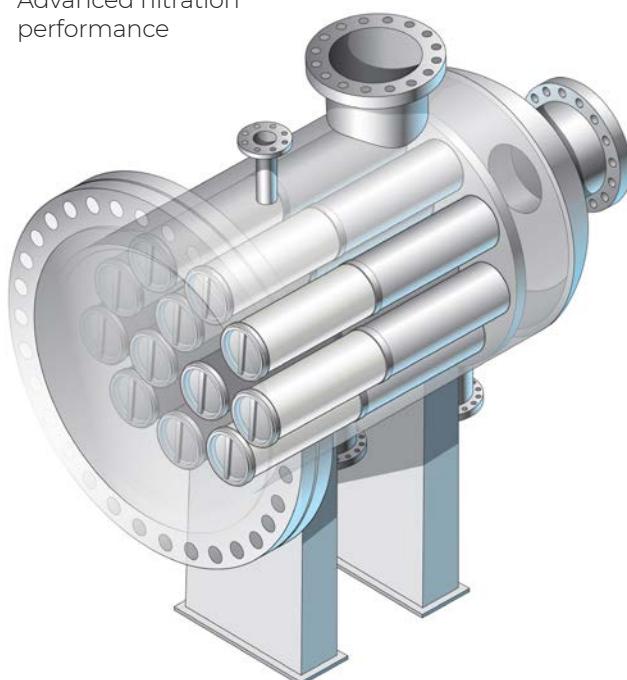


Filter Media Characteristics

Ultipor GF Filter Cartridges: Constructed with a resin-bonded glass fiber medium, Ultipor GF cartridges offer robust durability and a stable, fixed pore structure that prevents media migration and ensures contaminants remain securely trapped.

Epocel Filter Cartridges: Epocel cartridges utilize a resin-impregnated cellulose medium, with the resin locking fibers in place to maintain consistent flow passages and removal efficiency. Epocel media is suitable in a wide range of process conditions and is available in several micron grades to ensure best fit.

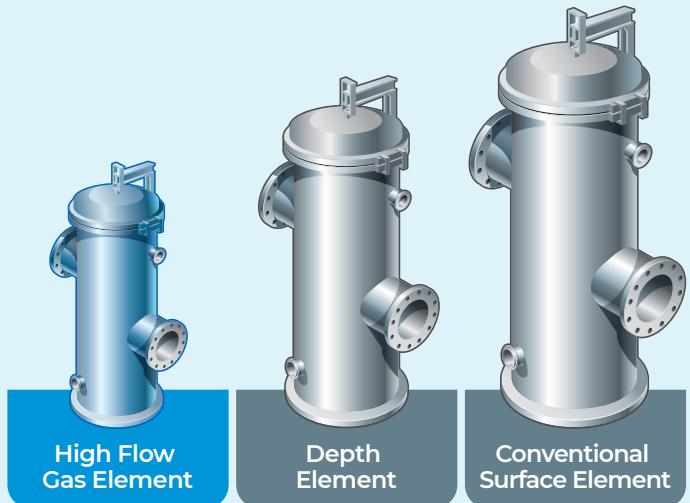
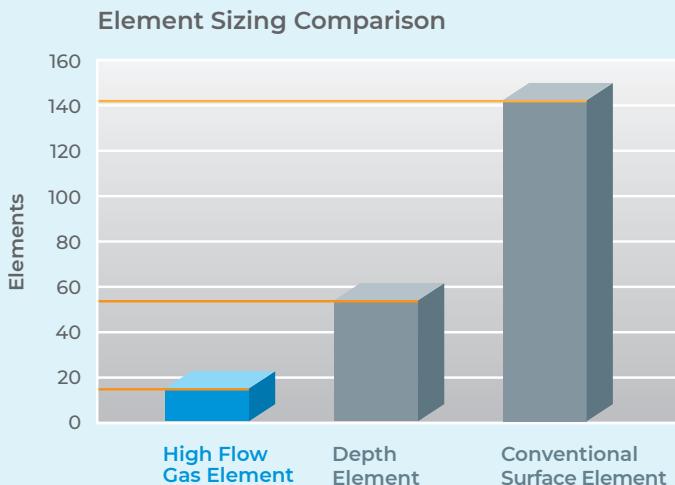
Typical applications include



	Benefit
Compressor protection	Protects internal components (valves, cylinders, seals, rotors) from abrasive damage preventing costly downtime.
Mercury removal unit	Extends the life of the adsorbents by preventing fouling, ensuring consistent and efficient mercury capture.
Dust filter for pipelines	Maintains pipeline integrity and ensures uninterrupted flow by preventing blockages and reducing internal wear and corrosion.
Sieve contactor	Improves separation efficiency and protects delicate internal components from clogging or damage caused by fine solids.
Glycol unit	Maintains the purity of the glycol by removing contaminants, which ensures efficient water removal from natural gas and prevents system fouling.
Amine contactor	Prevents operational issues like foaming and corrosion of the amine solution by removing solid particles, ensuring efficient gas treatment.
Feed gas filter	Protects sensitive downstream equipment (e.g. turbines, catalysts) from damage, ensuring consistent fuel quality and enhancing system performance.

Vessel Size Reduction with HFG Large Format Element for Gas Applications

- Smaller vessel size due to larger element format
- Fewer elements required per vessel
- Maintained filtration performance for gas applications



Technical Information

Nominal Cartridge Dimensions

Outer Diameter	8" (203mm)
Length	20" (508mm)

Performance Specification

Solid Removal Rating*	0.3, 1, 3, 5, 10µm @ ≥99.98%
Recommended change-out pressure	15psid
Temperature Rating	Max 180F (82C) Min -49F (-45C)
Clean Pressure Drop	2 psid

*0.3µm cellulose media ≥97.5%

Ordering Information

HFG820

Table 1

Code	Description
E	Epocel: epoxy impregnated cellulosic media
U	Ultipor: resin bonded glass fibre

Table 2

Code	Micron rating, µm	Code	Description
003	0.3	H	Viton
010	1	H13	Nitrile
030	3		
050	5		
100	10		

Table 3

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