

# CARBON FILTRATION

Using proven carbon filtration technology, Felcon supply a wide range of molecular filtration products that remove chemicals, environmental pollutants and odours. Our standard HEPA filter range covers a full range of efficiencies, from G4-H13, in sizes and formats to suit most applications.

All filters are manufactured in the UK and Europe. Laboratory testing allows us to test our products for both air flow and efficiencies down to the nano-particle range. In-house testing combined with external certification provides assurance that the production processes and final products meet all industry standards.

The Felcon technical sales and service teams provide a range of services to ensure customers are fully acquainted with developments in the filtration world, following indoor air quality best practice and achieving the best possible balance of energy saving and performance. Felcon can also supply filters for most competitor hoods and cabinets. We have our own service department who are able to service any item of your equipment. Please contact us for further details or a competitive quotation.

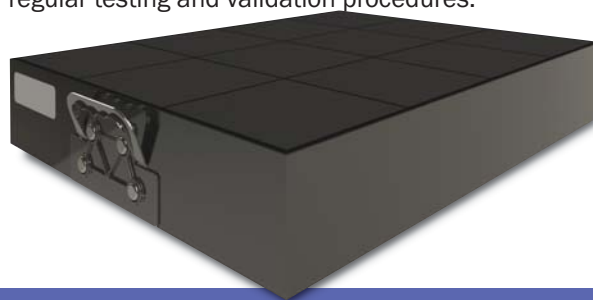
Filter casings are manufactured from either Zintec steel or thermo-plastic sheet depending on the size and contaminants. The carbon is retained in the filter casing by thermally bonding or clinching an enclosing media to both sides of the filter case. Gaskets and handles are fitted as required.

**Pre-Filters:** To protect and extend the life of carbon filters, a particulate pre-filter should be fitted to the air-on face of the carbon filter. Packs of pre-filters are available.

Specifically selected grades of carbon, including base and chemically impregnated, are used to provide effective filtration to ensure adsorption of the organic and inorganic substances requiring removal. Only high activity carbon grades are used to ensure maximum contaminant loading and life expectancy while providing 99.9% efficiency rates.

**Testing and quality assurance:** All of our carbon fume cabinet filters are tested using a DOP particle scanning test and guaranteed to meet BS7989. Certificates of conformity can be issued upon request.

**Advice on care & maintenance:** Fume cabinets should be tested, serviced and validated on an annual basis to ensure efficient operation and conformance with safety requirements. Pre-filters should be changed every 6-12 months depending on use of the cupboard. Damaged or insecure seals on filters can lead to leakage into the work environment. The carbon filter lifespan will depend on the types of contaminants it is required to remove and their volume. Carbons give no warning that they are nearing the end of their life – they simply stop working. Carbon also has a limited lifespan even if the fume cupboard itself is not being used. Laboratory technicians are therefore advised to include testing of the carbon filter as part of their regular testing and validation procedures.



Filter Type	Felcon Reference	Application
SOL	FEL-SOL-38/305-1	General organic solvents with a secondary capability for acid vapours
GP	FEL-GP-38/305-1	General purpose mixed carbon for use in schools (organic, acid and alkali removal)
K (AM )	FEL-K-38/305-1	Removal of ammonia & amine containing compounds (and general organics)
F	FEL-F-38/305-1	Removal of formaldehyde (and general organics)
AC	FEL-AC-38/305-1	Removal of acidic compounds (and general organics)
HP ( HEPA )	FEL-HP-38/305-1	HEPA filter to 0.3 microns in size. 99.997% efficient



**Felcon Limited**

Felcon Limited & Goldsworth Medical Unit 11 - 11B Euro Business Park New Road Newhaven East Sussex BN9 0DQ England  
Telephone: +44 (0)1273 513434 Email: labsales@felcon.co.uk www.felcon.co.uk

Felcon has a continuous development programme aimed at further improving and developing its products. All specifications are, therefore, subject to change.  
Unauthorised use is prohibited. E&OE. All trade marks acknowledged. © 2017 Felcon Limited.