

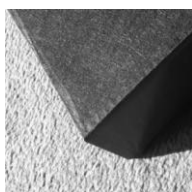
GVS Laboratory Fume Cupboard Filter Range



Available to fit all manufacturers fume cupboards including:

Astec, Bigneat, Bioquell, Captair, Erlab, Labcaire, Safelab, Semper.*

* All the brand names above are registered trademarks and their exclusive property.



Filter Casing

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. Dependent on type of fume cupboard, supporting handles, wheels or rails are also available.

Pre-Filters

To protect and extend the life of Carbon Filter, a particulate pre-filter should be fitted to the air-on face of the Carbon filter. Packs of pre-filters are available.



Activated Carbon

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 & life expectancy while providing 99.9% efficiency rates.

FILTER TYPE	VAPOUR PHASE APPLICATIONS
Standard Filters	
GP	General organic compound removal (i.e solvents, odours, organic acids etc)
GRD	CLEAPPS approved filter for use in schools (organic, acid & alkali removal)
AMM	Removal of compounds containing Ammonia & Amine (and general organics)
ACI	Removal of inorganic acids and general organics (including Sulphur compounds)
FOR	Removal of Formaldehyde (and general organics)
Custom Filters	
CYN	Removal of compounds containing Cyanide (and general organics)
ACM	Removal of compounds containing Mercury (and general organics)
ACR	Removal of Alkali compounds (and general organics)
ETH	Removal of compounds containing Ether (and general organics)
NUC	Removal of Radioactive vapours where CO ₂ content is unknown and K value certificate is required
NU2	Removal of Radioactive Iodine-131 vapours where CO ₂ content is unknown and K value certificate is NOT required
NU3	Removal of Radioactive vapours where CO ₂ is present and K value certificate is required
NU4	Removal of Radioactive vapours where CO ₂ is NOT present and K value certificate is required
SPECIAL	Where application requires multiple Carbon grades within the filter

GRD School Fume Cupboard Replacement Carbon Filters

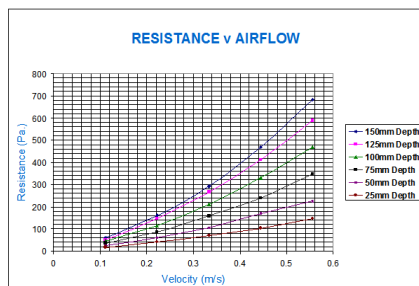
A blend of specifically selected grades of activated Carbon as detailed in Building Bulletin 88 (see table below). Filters have been CLEAPPS tested and approved under BS7989 (Specification for recirculatory filtration fume cupboards) which refers schools to comply Building Bulletin 88.

- ✓ Specially designed carbon formulation for School use.
- ✓ Tested and certified by CLEAPPS
- ✓ Meets BS7989
- ✓ Available for all fume cupboard types listed above.

Building Bulletin 88

Inorganic Compounds		Organic Compounds	
Aluminium chloride & bromide	Mercury and its compounds	Acid amides	Carboxylic acids
Ammonia	Nitric acid vapour	Acid anhydrides	Esters
Ammonium chloride fumes	Nitrogen oxides	Acid chlorides	Ethers
Bromine	Phosphine	Alcohols	Ketones
Carbon monoxide*	Phosphorous (white)	Aldehydes	Nitriles
Chlorine	Phosphorous chlorides &	Aliphatic amines & their salts	Organohalogenes
Chromium(VI) dichloride dioxide	Phosphorous oxides	Aliphatic hydrocarbons*	Phenols
Hydrochloric acid vapour	Silicon tetrachloride	Aromatic amines & their salts	Pyridine
Hydrogen*	Sulphur chlorides	Aromatic nitro compounds	
Hydrogen chloride	Sulphur dioxide		
Hydrogen sulphide	Thionyl chloride		
Iodine	Tin (VI) chloride		
Iodine chlorides	Titanium tetrachloride		
Lead fumes	Zinc chloride fumes		
Lead bromide fumes			
Lead bromide fumes			

Dusts / Particulates (Removed by Pre-Filter)	
Dyes	
Enzymes	
Smoke	
Note: Hydrogen, Carbon Monoxide and Methane will not be adsorbed by filters due to their low molecular mass	



TESTING AND QUALITY ASSURANCE

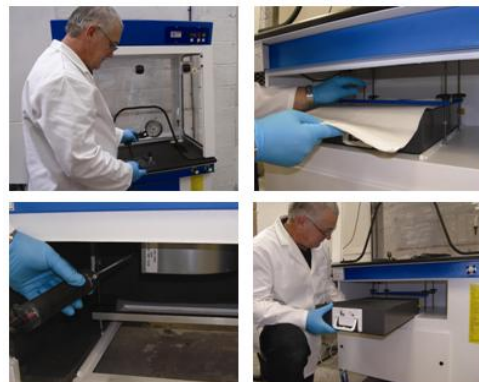
At GVS all our carbon fume cabinet filters are tested using a DOP particle scanning test and guaranteed to meet BS7989. Our site operates to ISO9001.

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 3-6 months depending on use of the cupboard. Damaged or insecure seals on filters can lead to leakage into the work environment.

The carbon filter life-span will depend on the type 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 life-span even if the fume cupboard itself is not being used. Lab technicians are therefore advised to include testing of the carbon filter as part of their regular testing and validation procedures.



ON SITE SERVICE

Within the UK GVS offer maintenance and servicing for fume cabinets. Please call us for details.