

# TRI-LAYERED CARBON REPLACEMENT FILTERS FOR FUME CABINETS IN SCHOOLS



## Main Features:

- Tri-layered carbon
- Tested by CLEAPSS
- Omni-directional air flow
- Manufactured to any size
- Supplied with easy-grip handles
- Pre-filters for the removal of dusts can also be supplied



BS7989 (Specification for recirculatory filtration fume cupboards) refers schools to comply Building Bulletin 88, which replaced Design Note 29 and standards set out therein. Active Carbon filters for fume cabinets to be used in schools have been tested by CLEAPSS in accordance with Building Bulletin 88 and members can obtain further information from them (telephone 01895 251496; fax 01895 814372).

## Tri-layered Carbon Filter

Three specifically selected grades of carbon, including base and chemically impregnated, are formed into separated layers to provide effective filtration for the range of fumes produced in a school science laboratory. Different types of carbon are utilized to ensure effective adsorption of the organic and inorganic substances that may be released, and as detailed in Building Bulletin 88 (see table opposite).

The product is supplied with a single face seal. As the product is omni-directional in terms of airflow, this suffices as either a clean or dirty airside gasket. If required two gaskets can be fitted.

## Pre-Filter Supply

To remove dusts and other particles that may arise to protect both the people present and to extend the life of Tri-layered Carbon Filter, a pre-filter should be fitted to the air-on face of the carbon filter.

Inorganic Compounds	
Aluminium chloride & bromide	Lead bromide fumes
Ammonia	Mercury and its compounds
Ammonium chloride fumes	Nitric acid vapour
Bromine	Nitrogen oxides
Carbon monoxide*	Phosphine
Chlorine	Phosphorous (white)
Chromium(VI) dichloride	Phosphorous chlorides & bromides
dioxide (chromyl chloride)	Phosphorous oxides
Hydrochloric acid vapour	Silicon tetrachloride
Hydrogen*	Sulphur chlorides
Hydrogen chloride	Sulphur dioxide
Hydrogen sulphide	Thionyl chloride
Iodine	Tin(VI) chloride
Iodine chlorides	Titanium tetrachloride
Lead fumes	Zinc chloride fumes
Organic Compounds	
Acid amides	Carboxylic acids
Acid anhydrides	Esters
Acid chlorides	Ethers
Alcohols	Ketones
Aldehydes	Nitriles
Aliphatic amines & their salts	Organohalogens
Aliphatic hydrocarbons*	Phenols
Aromatic amines & their salts	Pyridine
Aromatic nitro compounds	
Dusts etc	
Dyes	* Hydrogen, carbon monoxide and methane will not be absorbed by filters because of their low molecular mass.
Enzymes	
Smoke	

## CONTACT DETAILS

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