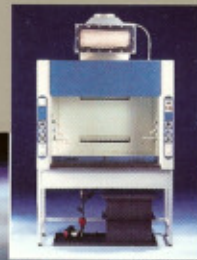



# Fumetec



working with the environment



[www.fumetec.co.uk](http://www.fumetec.co.uk)



Fumetec Ltd are experts in the field of fume cupboards, other associated equipment and fume extraction systems with more than 25 years experience within the industry.

Fumetec has a policy of continuous development throughout its comprehensive range of products. This ensures clients are always provided with the most

advanced equipment and using the latest materials available.

The fume cupboards and other products are designed using AutoCad and manufactured on the latest CNC machines to ensure a high quality finished product. The products are then tested by skilled craftsmen prior to delivery. Delivery and installation is carried out using our own vehicles and fitters.

Fumetec offers a full design and advisory service to ensure the correct type of cupboard is installed and that it is technically efficient and safe in operation. Correct design and installation will ensure high performance, low noise levels and minimum heating costs.

Our commissioning and maintenance service will guarantee the equipment continues to operate to original design and performance levels.

All work is carried out to the latest British Standards BS 7258 (1994) parts 1,2,3 and 4.

All extraction systems are designed, manufactured and installed to comply with all current technical and safety regulations.

#### Specialists in the following markets

**Research**

**Pharmaceutical**

**Chemical**

**Petro-chemical**

**Food**

**Universities**

**Colleges**

**Schools**

**Hospitals**

**Microelectronics**

Fumetec is an  
ISO 9001  
registered company



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**Standard**



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**Carbon Filtered**



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Standard fume cupboards for general laboratory use, supplied with support frames or available for bench mounting to suit clients requirements. Newly designed fully radiused opening gives excellent containment values (Containment tested to BS7258 1994 Part 4)

### Standard Fume Cupboards

OVERALL (EXTERNAL)			WORKING AREA (INTERNAL)		
WIDTH	HEIGHT	DEPTH	WIDTH	HEIGHT	DEPTH
1200	2075	900	900	1065	610
1500	2075	900	1200	1065	610
1800	2075	900	1500	1065	610
2000	2075	900	1700	1065	610
2500	2075	900	2200	1065	610

All dimensions in mm



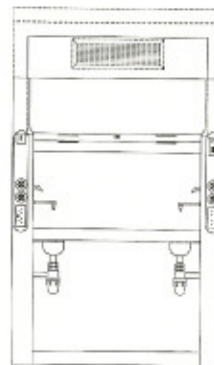


Walk-in fume cupboards for use where low level extraction or a large internal height is required. Extra height cupboards can be supplied with multiple sash arrangements to allow access to large pieces of equipment.

Walk-in Fume Cupboards

OVERALL (EXTERNAL)			WORKING AREA (INTERNAL)		
WIDTH	HEIGHT	DEPTH	WIDTH	HEIGHT	DEPTH
1200	2075	900	900	1955	580
1500	2075	900	1200	1955	580
1800	2075	900	1500	1955	580
2000	2075	900	1700	1955	580
2500	2075	900	2200	1955	580

All dimensions in mm



# Water Wash

Water Wash

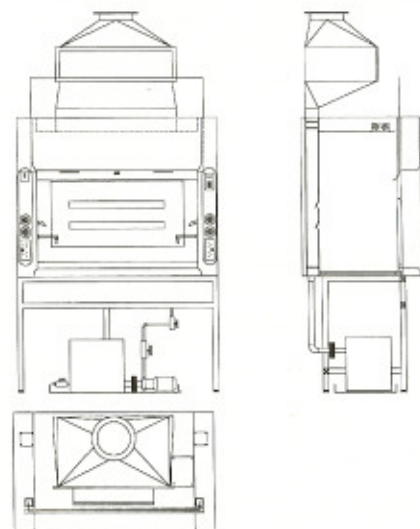


Water wash fume cupboards are built in standard configuration. They can be mains water fed with dump to waste or re-circulating via a holding tank. These cupboards are ideal for perchloric, hydrofluoric or other corrosive substances. Velocities ensure exhaust air is below recommended limits.

Water Wash Fume Cupboards

OVERALL (EXTERNAL)			WORKING AREA (INTERNAL)		
WIDTH	HEIGHT	DEPTH	WIDTH	HEIGHT	DEPTH
1200	2600	900	900	1065	590
1500	2600	900	1200	1065	590
1800	2600	900	1500	1065	590
2000	2600	900	1700	1065	590
2500	2600	900	2200	1065	590

All dimensions in mm



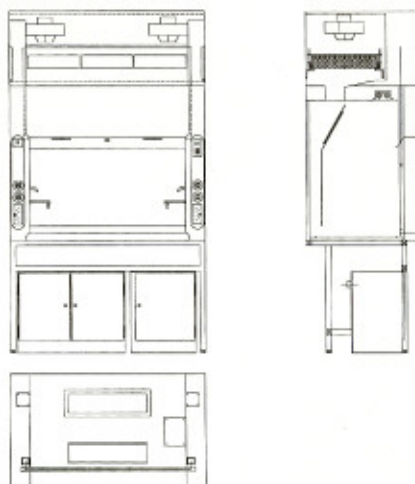


Carbon filtered cupboards can be supplied using standard or walk in configuration. These units would normally be used where exhaust to atmosphere is not necessary or possible. Units can be supplied with HEPA filters or with safe change systems. These cupboards can easily be converted to fully extracted systems at a later date.

#### Carbon Filtered Fume Cupboards

OVERALL (EXTERNAL)			WORKING AREA (INTERNAL)		
WIDTH	HEIGHT	DEPTH	WIDTH	HEIGHT	DEPTH
1200	2600	900	900	1065	610
1500	2600	900	1200	1065	610
1800	2600	900	1500	1065	610
2000	2600	900	1700	1065	610
2500	2600	900	2200	1065	610

All dimensions in mm



# Other Fume Cupboards and Products

## OTHER FUME CUPBOARDS

### EDUCATION

These units are designed and manufactured to the same high standards and conform to Design Note 29 and Building Bulletin 88. Units are generally supplied with solid sides or alternatively, can be fitted with clear sides and backs.

### SLIMLINE

Slimline cupboards are constructed as our standard range but with increased internal width. These units are ideal where space is restricted and can be either mounted on a bench or table frame.

### RADIO ACTIVE

Radio Active cupboards are constructed with a one-piece internal chamber in 316 stainless steel with fully welded and polished seams. Lead lined chambers can be supplied to give additional protection.

### LOW LEVEL

Low Level (Step-in) fume cupboards are used where increased internal height or low level worktops and drainage is required.

### SPECIALS

Fumetec offer custom built cupboards to suit clients' specific requirements. These include variations to our complete range of cupboards, i.e. with increased height, width etc.

**All fume cupboards can also be supplied with carbon or HEPA filtration and water wash facility.**

## OTHER PRODUCTS

### CHEMICAL STATIONS

Fumetec manufacture custom built chemical stations with or without HEPA filtered air supply. Exhaust is via down draught slots and perforated worktops then dumped or carbon filtered and re-circulated. Construction can be in PVC, Polypropylene, 316 stainless steel or suitable other materials.

Laminar air flow is to a minimum BS 5295 class E/F. Extensively used in microelectronics, pharmaceutical and educational establishments.

These units are designed for use when both product and personnel protection is paramount.

### DOWN DRAUGHT BENCHES

Using design principals as for chemical stations, the units are available as exhausted or re-circulatory models. Manufactured in PVC, polypropylene and stainless steel. Many additional features such as sinks, washing weirs, chemical delivery systems, spray washers, nitrogen guns, HEPA/carbon filtration and variable speed fans are available as optional extras.

### FUME HOODS

Fume Hoods are supplied in a variety of materials, free standing or bench mounted. Design is to capture and contain hot or cold fumes. Hoods are normally used for either localised extraction or general ventilation where a fume cupboard is not necessary.

### FORENSIC CABINETS

Forensic drying cabinets and other storage/drying cabinets are available in PVC, polypropylene and 304/316 stainless steel. Units can be totally exhausted or HEPA/carbon filtered with recirculating air. Extras include sprays and heaters.





# Technical Data

## MANUFACTURE

Fumetec manufacture to customers designs using their in house CAD/CAM facility. Production personnel operate tight inventory controls and JIT schedules. Materials enter the manufacturing chain on receipt and are monitored throughout production. Sheet steel is punched, cut and formed using the latest CNC machines. Welding methods used include MIG, TIG, metal arc and brazing. Painting and finishing is done in a 3-stage cycle using degreasing, iron phosphate and dual rinse. The epoxy powder coating operation is computerised to ensure consistency, quality and precise control. Our own skilled fitters complete assembly work and site installation, accommodating the clients' requirements. Packaging and shipping is carried out using our own transport.

## CARCASE

- External carcass of 16 s.w.g. Zintec finished mild steel, epoxy powder coated.
- Double skin construction to provide a housing for pipework and electrical wiring etc.
- Adjustable internal baffle to promote even airflow distribution.
- Interior light, mounted externally from the fume cupboard, in a steel epoxy powder coated reflector box.
- Air bypass system operates when the sash is in the lowered position to maintain a constant face velocity.
- Aerodynamically designed air intake fascia to promote excellent containment characteristics.
- Aerofoil cill in 316 grade stainless steel.

## SASH

- Toughened safety glass, 6mm thick, with aerodynamically designed full width finger grip.
- Counter balanced sash fitted with double stainless steel cables running over nylon ball race pulleys.
- The sash has a fail-safe design mechanism to prevent rapid sash descent in the event of cable failure.
- Sash locking device fitted as standard with an automatic re-setting feature.
- Sash mounted in sprung guide channels to ensure stability and smooth operation.
- Optional sash materials, laminated glass, acrylic sheet, polycarbonate sheet or clear PVC.

## WORK SURFACES

- High pressure solid grade laminate.
- One-piece moulded cast epoxy resin.
- 304/316 grade acid resistant stainless steel.
- PVC.
- Polypropylene.
- One-piece ceramic worktop.
- Solid surface i.e. Corian™ or equivalent.

## INTERNAL LININGS

- Epoxy coated steel or aluminium.
- High pressure solid grade laminate.
- PVC.
- Polypropylene.
- Toughened glass.
- 304/316 grade stainless steel, bolted construction.
- 304/316 grade stainless steel, one-piece monolithic chamber.
- One-piece monolithic cast epoxy resin chamber.

## SERVICES

- Electrical and mechanical services are mounted on removable fascia plates.
- Electrical socket outlets, single or three phase, standard or explosion proof.
- Mechanical services, water, gas etc. with sinks, drip cups or troughs.
- Fume cupboards are both pre-wired and pre-plumbed to ensure minimum installation time on site.

## OPTIONAL EXTRAS

- Alarm/control panels.
- Infil panels to ceiling height with bypass grille.
- Acid or solvent storage cabinets in mild steel or timber, with or without ventilation.
- Automatic fire extinguishers complete with flame detection unit.
- Energy save systems and controls.
- Carbon filter saturation monitors.
- Horizontally sliding windows can be incorporated within the construction of the vertical sash.
- Mild steel, epoxy powder coated, support frame with levelling feet.

## INDIVIDUAL REQUIREMENTS

- Fumetec can manufacture non-standard fume cupboards to suit client's requirements.



# Fume Extraction Systems

To compliment our range of fume cupboards, extract systems are designed, manufactured and installed to meet specific requirements and to meet all current safety and clean air regulations.

In seeking the optimum extract system consideration will be given to the following,

- Energy save systems
- Fume scrubbing systems
- Noise levels
- Fire dampers and intumescent collars
- Fume dispersal and dilution

Correct design will ensure low running costs and provide a quiet and efficient system. Our design engineers are fully qualified to carry out site surveys and advise in ascertaining the most suitable route for extract systems.

Fumetec extraction systems achieve excellent dilution and dispersion of emitted pollutants to help protect the local population and the environment.

## MATERIALS

A variety of materials can be used including polypropylene, PVC, galvanised steel, stainless steel, fire retardant polypropylene and PVC with GRP reinforcement all chosen to suit the clients individual applications.

## FAN UNITS

Fan units can be supplied in polypropylene, PVC, GRP reinforced, mild steel, aluminium and stainless steel. These units can be supplied as single phase or three phase, direct coupled or belt driven, single/two speed or fully variable using an electronic speed controller or inverter drive. Blades are forward or backward curved centrifugal types.

## SCRUBBING SYSTEMS

Scrubbing systems are fitted to remove harmful gases and corrosives. Units can be mains fed or via re-circulating water systems. Careful design of the scrubbers, volume flows of water and air, air transport and exhaust velocities ensure exhaust air is below recommended limits to comply with the Environmental Protection Act and COSHH Regulations.



Energy save systems



Duckwork systems



Fan units & discharge stacks

w o r k i n g   w i t h   t h e   e n v i r o n m e n t



## Other Services

### LABORATORY FURNITURE

Fumetec can supply and install laboratory furniture and associated services, offering clients a full laboratory package.

### MECHANICAL & ELECTRICAL SERVICES

Fumetec are able to supply qualified engineers to complete the final connections from agreed pick up points to our fume cupboards and products.

### COMMISSIONING

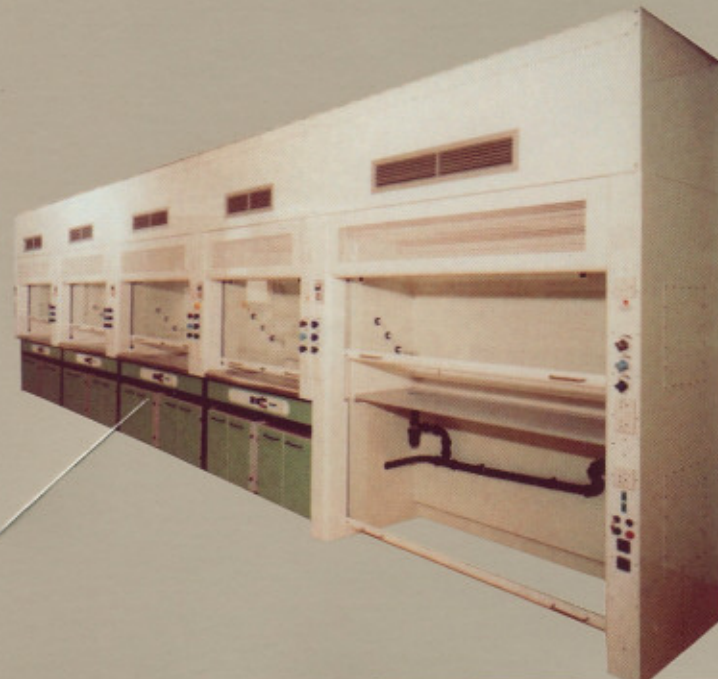
Fumetec offer a comprehensive commissioning service, on completion of installation, to the current British Standards.

### MAINTENANCE CONTRACTS

Our after sales service includes annual maintenance contracts on all our products. Details are available upon request.



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