



PP (Polyproplene) Fumecupboard



Introduction

Many of the everyday processes carried out in a laboratory will release harmful substances, which, if inhaled by the laboratory worker, can be harmful to their health. Minimizing and controlling the exposure of people to these harmful substances is therefore of vital importance. Fume cupboards play a most important role in protecting the health of the laboratory worker and are often the only safety control device available. A good fume cupboard, professionally installed, can protect the worker from exposure to harmful fumes. Of equal importance is that the fume cupboard is regularly maintained, the performance monitored and checked, and the worker properly instructed in its use.

Our Fume Cupboard Polypropylene fume hoods are manufactured entirely of structural polypropylene. Polypropylene is often chosen for its resistance to corrosion and chemical leaching, it is resilience against most forms of physical damage and allows for **NO RUST**!

- Fully PP (Polypropylene) constructed, Aerodynamic fascia.
- Conveniently sited service outlets.
- Internal baffles to balance air movements.
- Easy service access panels in the interior walls.
- Alarm system fitted with various options to customer requirements.
- Controls for services mounted on and serviced from the front fascia.
- Delivered and installed as a built unit with service tails ready for connection.
- VAV (variable air volume) control system available for energy conservation.
- Safe sash design to operate with timing belt for trouble free use.
- Air-bypass for velocity compensation designed to avoid leakage of fumes especially when there are thermal rises in the working chamber.

Standard Fumecupboard Sizes

Model	1200	1500	1800
Overall Length	1200 mm	1500 mm	1800 mm
Overall Height	1500 mm	1500 mm	1500 mm
Overall Depth	850 mm	850 mm	850 mm
Opening Length	1100 mm	1300 mm	1600 mm
Discharge Area	90 x 790 mm	90 x 790 mm	90 x 900 mm
Discharge Dia	200 mm	2500 mm	250 mm
Open Face Area	0.57 m ²	0.75 m ²	0.93 m ²
Recommended Air Flow	700-900 cfm	900-1100 cfm	1100-1300 cfm
Recommended Duct Size	Dia 200 mm	Dia 200 mm	Dia 250 mm

All fumecupboards are designed and manufactured in close liaison with the customer and their requirements. Factors such as the likely use of the fumecupboard (Acid, Organic chemistry, Radioactivity) and its location all play a part in the overall design and specification of the unit. Our professional team can advise on any aspect of the systems performance whether it be the materials of construction or the airflow performance and the resultant extract system.

Accessories

- · Control Board for fan and light
- Electrical Control Board with MCB
- Fully PP (Polypropylene)base cabinet
- LED light.
- Remote-control cold-water and outlet
- Remote-control Gas and outlet
- 13 Amp electrical switch socket x 4 nos
- Counterbalanced sash assembly with Timing Belt Operated for trouble free use.
- Chemical & heat resistant worktop
- 2 side access panels built into inner liner for future addition of utilities
- Oval PP drip cup.

Construction Specification

Front Facial

Manufacture the fume cupboard front fascia from molded sections with airfoil entry on the sides, top and bottom. Fitted with touch screen control for fan, light and other services.



Inner Chamber

The chamber is contoured towards a rectangular suction box extraction outlet to assist in an even extraction rate across the width of the opening.



Rear Baffle

The chamber of the fume cupboards can be fitted with a specially designed back baffle fastened to the fume cupboard with polypropylene bolts, it is removable for cleaning purposes. This special back baffle allows for the whole chamber to be scavenged whether heavy or light corrosive fumes are present. The back baffle is recommended if it is anticipated that a lot of heavier-than-air fumes are to be used continuously in the fume cupboard.

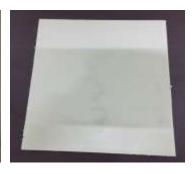


Work Surface

The work surface is phenolic resin worktop. It is sealed to the inner chamber to prevent any leakage. Epoxy Resin and PP worktop was available upon request.







Phenolic Resin Top

Epoxy Resin Top

PP (Polypropylene Top)

Sash

The counter- balanced sash windows are of the vertically sliding sash type supported on timing belt and running on two pulleys. The sash counter-weights run inside a fully enclosed profiled section. Sash windows are 6mm toughened glass. As an option the sash glass can be covered with safety film. Alternatively, clear PVC, acrylic or polycarbonate can be supplied.





Light

The T5 LED light is mounted on inner chamber to. It illuminates the interior of the work area.

Services

Various remote-controlled services can be fitted to the fume cupboard facial. All handles are fitted with color-coding to the International Standard. All internal outlets are mounted on the sidewalls to retain maximum working area and are color coded with an electrostatically applied epoxy finish. Compressed air, gas, nitrogen, vacuum, etc. control valve incorporates on Easy Remove Service Panels for easy maintenances. Services are pre-plumbed within the fume cupboard with ½" flexible hose for easy connection to main service by the site plumber.



Chemical Resistant Centrifugal Fan

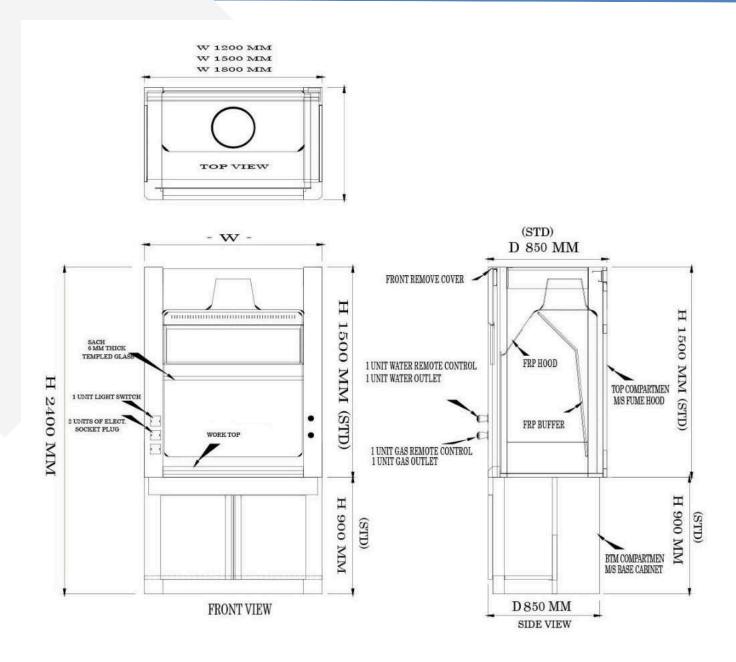
The PP (Polypropylene) Chemical Resistant Centrifugal fan is direct coupled onto a 4 pole, 3 phase 415V 50hz motor. The impeller is a forward curved multi-blade one-piece injection molded Polypropylene incorporating a steel reinforced hub.



Base Cabinet

The base cabinet is made from epoxy powder coated metal, it comes complete with hinged doors, removable service access panels and facial panel to suit services and fittings and kicker strip.







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SAFETY, HEALTH & ENVIROMENT POLICY

HAZTECH SOLUTION (M) SDN BHD considers the safety and health of its entries staff and employees an essential requirement that form part of management function.

It is the company policy to provide, promote and maintain a safe and healthy condition at its workplace for better and efficient production without detriment to the environment

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HAZTECH SOLUTION (M) SDN BHD requests all its business parties, be it work force, consultants, contractors, suppliers or public authorities to do their utmost to maintain safe and healthy conditions at the workplace.

The management, consultants, contractors and suppliers shall:

- Provide regular and effective safety training and supervision to perform the work safely without risk to health and environment.
- Investigate all reported accidents, diseases, near misses and to take appropriate corrective actions to ensure that they will not recur.
- Comply with all work related statutory regulation and requirements of the Occupational Safety and Health Act 1994 (Act 514), the Factories and Machinery Act 1967 (Act 139) and its related regulations.
- Provide suitable facilities and personal protective equipment to enable all employees to perform their daily works in a safe manner.





19th June 2025

HAZIQ AYUB

Chief Executive Officer