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Standard Fume Cupboard







New Aerodynamic Design

Normally case of fume cupboard designer, designed the air movement pass on the working area top, this important reason, the operator made wrong decission on experiment, we can not control the temperator of heater for boiling the sample or the glassware have fallen from windy. The new design make the air movement pass under the working area top under working area pass system through to the back of baffle and adjust the flow rate by itself.

Fume Cupboard Structure

The fume cupboard are manufactured from glass reinforced unsaturated polyester resin (F.R.P.) fire retardant, corrosion resistant, with no metal contain in the structure. The frontage of fume cupboard is aerodynamically Shaped to ensure an even flow of air in the chamber. It has large radius corners.

Fume Cupboard Chamber

The one piece moulded chamber has execellent aerodynamically shaped roof which is contoured towards a rectangular extraction outlet. The interior is fitted with aspecially designed removable back baffle for cleaning purpose. The floor has two levels, Top for working area, easily to changing or cleaning, Lower for drainage.

Safety SASH

The counter-balanced sash are of the vertically sliding sash type supported on chemical resistant cable and running bearing pulleys which are bullet embeded in rigid nylon. Sash is 6 mm.safety glass fixed in F.R.P. frame, polypropylene handle.

Storage Cabinet

The storage unit is manufactured from F.R.P. completed with polypropylene roller shutter, has two seperate parts, one for LPG tank and the other designed for chemical storage. The back of storage part can be removed for access to any service.



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PIPE LINE

The pipe are manufactureed from F.R.P. with filament winding process, smooth interior, low resistance air flow. The end of pipe has 135° elbow for bird and rain protection.



The acid trapping system is designed principle to handle acid fume in pipe line. The interior of system has transfer 2 holes for air turbulent protection. The air movement control is reverse air transparent type.





Micro Processor Control

Blower switch and lighting switch completed with visual light in only one piece micro processor control panel, soft touch type, 24 hours Timer also can add to the panel.

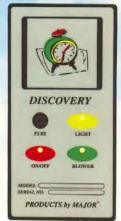
Checking

Air velocity is checked with ANEMOMETER at 100 FPM. while the door opening at 30 cm., height from the floor.

Warranty

12 months, Life time service.









Discovery Specification

MODEL	TOP (W x D x H) (cm.)	STORAGE (W x D x H) (cm.)	WORKING AREA (W x D) (cm.)	OUTLET PIPE Ø (Inch.)	
Discovery 100	100 x 95 x 150	100 x 80 x 85	75 × 70	8	
Discovery 120	120 x 95 x 150	120 x 80 x 85	95 x 70	8	
Discovery 150	150 x 95 x 150	150 x 80 x 85	125 x 70	10	
Discovery 180	180 x 95 x 150	180 x 80 x 85	155 x 70	CO ITI	
Discovery 200	200 x 95 x 150	200 x 80 x 85	175 x 70	10	
Electricity	Main switch breaker 30 AMP.				
	Blower switch (visual light) with magnetic and overload for motor damage protection.				
	Fluorescent switch (visual light) with 2 sets of 18 watts fluorescent lamp covered with safety glass.				





The elamination of acid-base fume by water is the easiest way to make the environment better. The fumes in the laboratory must be eliminated before emission through the air. In case of using large amount of acid-base for example, Digestion; acid-base fumes have to be treated before emitted through the environment. Treating process is passing these fumes into the pack-media tank in order to increasing the contact time between the fumes and water spray. Next, Passing its through 5 micron filter to seperate water spray from treated fume (cleaned-air). Finally, The remain cleaned-air is emited through the environment.

MODEL	DIMENSION (WxDxH)	DISCOVERY FUME HOOD SIZE 120	P.P.M* 1,000
SCB 120X	120 x 75 x 120 cm.		
SCB 150X	150 x 75 x 120 cm.		

1,500

180 x 75 x 120 cm.

SCB 180 X

MODEL	DIMENSION (WxDxH)	DISCOVERY FUME HOOD SIZE	P.P.M*	
SCB 60Y	60 x 60 x 175 cm.	120	1,000	
SCB 70Y	70 x 70 x 175 cm.			
SCB 80Y	80 x 80 x 175 cm.	180/200	1,500	



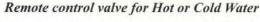


Remote control valve with polypropylene handle

DIN 12920 B color coding panel Epoxy electro-plating 300° F coating valve

Remote control valve for Automatic Cleaning System





High pressure gas valve for bench or wall



Remote control valve for High Pressure Gases



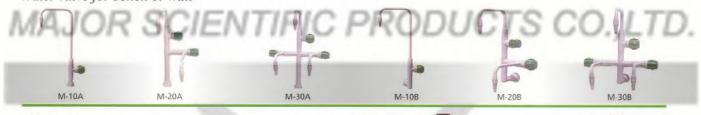
Remote control valve for LPG



LPG valve for bench or wall



Water valve for bench or wall



Drainage System

Polypropylene sink ø 6 " (ø 5.5 " inner) complete with polypropylene bottle trap, corrosion and removable jointed to drainage line with P.V.C pipe.



High-Grade Chemical Resistance

16, 22, 26 mm. Thick of Epoxy Resin, more than 1.90 density value, in ash, darkgrey and saphire color can be changing to the work top for special experimentation. For example; experiment with high temperature more than I hour with concentrate acid, etc.



Chemical Resistance SIRENA PLATE 6 mm. Thickness







CANOPY

Major ® Canopy is aerodynamic and well designed. Using double wall type, Canopy has qualify to elaminated the fume which is more condense than air, such as acid-base fumes. The canopy was produced from fiber glass reinforced resin which is chemical resistance. Canopy have many sizes depend on the working area from 0.50 m., 0.75 m., 1.0 m.,..., 3.0 m., as request



TRAPPING TANK

The experiment which used a large amount of acid-base for warming or boiling needs equipment to elaminated acid-base fume before sending into the air. Especially, the system which has no the elamination of acid-base at the end of pipe is very hazardous. Short pipe or static air conditioncan cause less distribution of acid-base fumes. Trapping tank can solve this prolem by accelerate the acid-base fume condensation.



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TRAPPING TANK SPECIFICATION

Tank Structure
Fiberglass

Tank Size

50 x 50 x 50 cm³

Condensing Process
Wind circular attack with 4 multiple half curve

Filter

Polypropylene Ø 2"

Inlet / Outlet 8" or 10" selectable



