MAJOR[®]

SUPERFLOW 100 • 120 • 150 • 180 • 200



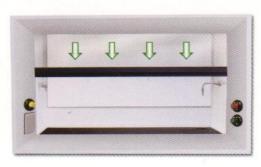
Standard Fume Cupboard



JPER FLOW

• FUME CUPBOARD













Metal Type

FIC PRODUCTS CO.,LTD.

Structure

The fume cupboards are manufactured from fiber glass reinforced unsaturated polyester resin (F.R.P.) fire retardant, corrosion resistant, with no metal contains 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. The extraction rate from fume cupboard is depend on the position of sash. The storage part is designed to support the fume cupboard. The storage unit is manufactured from F.R.P. Completed with slated door, acrylic baffle (for Fix point automatic by pass 1:10 approximate and two seperate parts. The first part is designed for storage LPG tank and the other designed to be the adjustable shelf for chemical storage. The back of storage part can be removed for access to any service. The fume cupboard also available with Epoxy Coated Steel exterior upon request.

hamber

The one piece moulded chamber has execellent aerodynamically shaped roof which is contoured towards a rectangular extraction outlet. The interior of chamber is fitted with aspecially designed back baffle. It is removalbe for cleaning purpose.

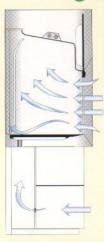
loor

Two levels, Top for working area, Lower for drainage.

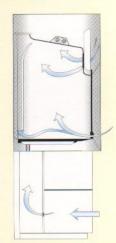
ash

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

r Flow Diagram



Sash fully raised. All extraction through sash opening. By-Pass closed.



Sash lowered. Velocity was controlled through sash opening and by-pass. By-pass open.

A cid Trapping System

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

Pipeline System

The pipe line are manufactured from F.R.P. smooth exterior. The pipe lines are connected by fiber glass resin for protection from the distribution of fume. Pipelines have 135° elbow at the end of pipe line for bird and rain protection.

Workbeds

The specially designed removable workbed is very useful. It gives amaximum available working surface and easily to clean-up or even changing in the future. The work-top can be removed to reveal bowl flow fitted with wasted outlet.

T imer

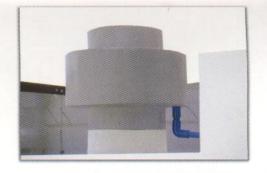
24 hours timer with selectable switch 10-15 minute sensitivity for blower working ability to showed the present time.

T esting

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

W arranty

12 months, Lifetime service













	TOP	STORAGE	WORKING AREA	OUTLET PIPE
MODEL	(wxDxH)	(w x D x H)	(w x D x H)	Ø
	(cm.)	(cm.)	(cm.)	(Inch.)
uper Flow 100	100 x 90 x 150	100 x 80 x 85	75 x 70	8
Super Flow 120	120 x 90 x 150	120 x 80 x 85	95 x 70	8
Super Flow 150	150 x 90 x 150	150 x 80 x 85	125 x 70	10
Super Flow 180	180 x 90 x 150	180 x 80 x 85	155 x 70	10
Super Flow 200	200 x 90 x 150	200 x 80 x 85	175 x 70	10
Electricity	Main switch breaker 30 AMP.			
	Blower switch (vis	ual light) with magnetic	and overload for motor dama	ge protection.

Electrical service (Double plugs type) with 2 or 3 legs plug, 10 AMP.

FUME

• • • CUPBOARD FAN

The fume cupboard fan have high resistance to corrosive gases and very good durability. The casings are rigid PVC, the impellers moulded in phenolic resin, and the motor protected by a sealing coat of polyurethane compound, In addition there is the inherent advantage of axial-flow design, permitting the simples layout of exhaust systems. The fume cupboard fan operates ideally in the fume cupboard application in school, college and education centers. Its non-overloading characteristic makes it easy to select and operate in this hostile environment.

mpellers

Made from noryl (phenolic resin) with stainless steel fixing.

M otors

Totally enclosed air stream rated to class F. All motors are totally sealed and designed to run for 10,000 hours over a 5 years period without attention.

Temperature Range

0° C to 40° C

Casing

The casing is made from rigid PVC with a duct terminal box complete with a breather pipe. It can only be connected by using Woods supplied cupboard and duct connectors

Fume	Cupboard	Fan	Specification

MODEL	Blade Ø (inch.)	Pipe ø (inch.)	Housing and Blade	Motor 220 V. 50-60 Hz.	Used in Superflow Model
AX 7.5	7.5	8	F.R.P*	90 Watts 2500 R.P.M	120
AX 9.5	9.5	10	F.R.P*	93 Watts 2800 R.P.M	150

F.R.P* = Fiberglass Reinforced Polyester Resin

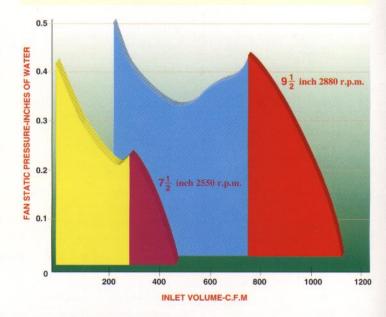




Resistance to corrosive reagents

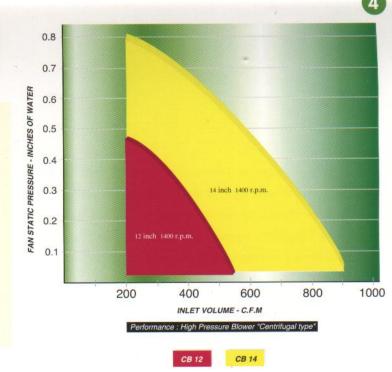
Acetic Acid
Aluminium Chloride
Ammonium Chloride
Ammonium Sulphate
Benzoic Acid
Cadmium Cyanide
Calcium Chloride
Citric Acid
Coppor Sulphate
Cromic Acid
Diesel oil
Ethylene Glycol
Ferric Chloride
Formic Acid
Hydrochloric Acid

Hydrogen Peroxide
Letic Acid
Lead Acetate
Magnesium Sulphate
Oxalic Acid
Potassium Ferricyanide
Potassium Hydroxide
Sodium choloride
Sodium Hydroxide
Sodium Thiosulphate
Stannic Chloride
Sulphur Dioxide
Sulphuric Acid
Zinc Sulphate



GH PRESSURE BLOWER ••• Centrifugal Type

The centifurgal blowers are made from fiberglass reinforced polyster resin (F.R.P.) in one piece molding which expressed for the purpose of corrosive fume extraction. The blower is aerodynamic shpe without any adaptor to joined pipe line. Housing and blade are corrosion resistant from concentrated acid, base and solvent. The axial blade is dynamically balanced, direct coupling to induction motor without the belt and 1400 RPM. The blower stand is made from F.R.P. and reinfoced with metal.



High Pressure Blower Centrifugal Type Specification Blade Blade **Pipe** Motor Motor Static 380 V. 220 V. MODEL Ø Thickness Ø Pressure 50-60 Hz. 50-60 Hz. (inch.) (inch.) (inch.) 1 HP 1 HP 12 CB 8 6 3 1 HP 20 6 1 HP **CB 12A** 12 4 **CB 12** 4 8 1 HP 1 HP 20 12 28 2 HP **CB 14** 5 10 1.5 HP 14 38 **CB 16** 6 10 2 HP 2 HP 16 40 8 12 **CB 18** 2 HP 3 HP 18 5 HP 60 **CB 20** 8 14 3 HP 20 100 7 HP 16 **CB 24** 24 10 5 HP







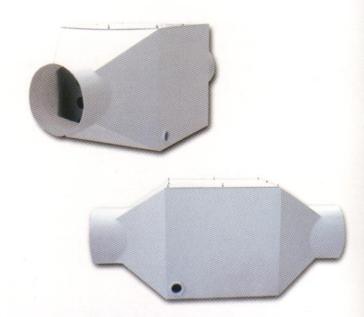
CANOPY

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 fiberglass 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

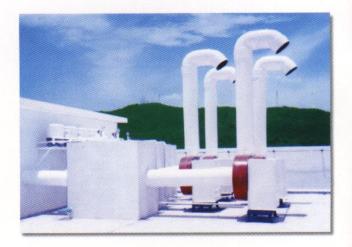


RAPPING TANK

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.



TRAPPING TANK SPECIFICATION			
Tank Structure	Fiberglass		
Tank Size	50 x 50 x 50 cm ³		
Condensing Process	Wind circular attack with 4 multiple half curve		
Filter	Polypropylene ø 2"		
Inlet / Outlet	8" or 10" selectable		



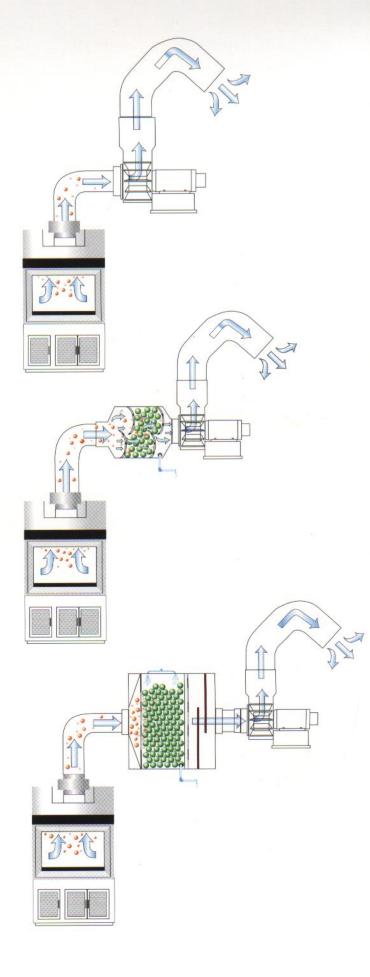


SCRUBBER

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 (WxHxD)	SUPERFLOW FUME HOOD SIZE	P.P.M*
SCB 120	120 x 120 x 75 cm.	120 / 150	1,000
SCB 150	150 x 120 x 75 cm.	150 / 180	1,200
SCB 180	180 x 120 x 75 cm.	200	1,500









Remote control valve with polypropylene handle
DIN 12920 B color coding panel
Epoxy electro-plating
300° F coating valve



RM-32A

Remote control valve for Automatic Cleaning System



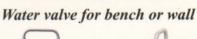


Low Pressure gas valve for bench or wall

LP-10A LP-20A LP-20B LP-40A



HP-20A











HP-10A





HP-20B

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.











Fiberglass Sink

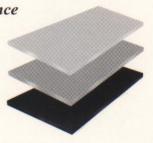
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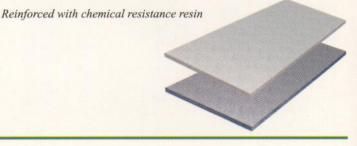
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High-Grade Chemical Resistance

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 1 hour with concentrate acid, etc.



Chemical Resistance SIRENA PLATE 6 mm. Thickness





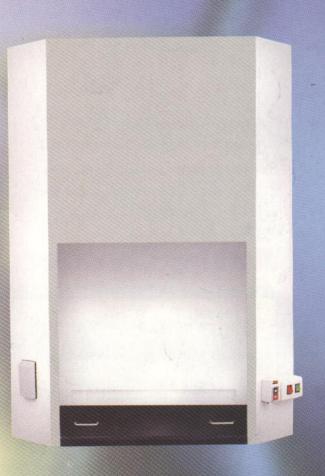
ECON 100

Fume Cupboard

ECON 100 fume cupboards are

manufactured from fiber glass reinforced polyester resin (F.R.P.). There is no metal in the structure. It was designed for countercorner with HEXAGON type. All ECON model fumecupboard install automatic by-pass air flow system.

The counter balanced sash window use vertically sashtype which supported on the cable (covered with platic pipe for chemical fume protection) and running on ball bearing pulleys in which bullet are embedded in rigid nylon. Sash windows have 5 mm. acrylic and plastic handle.



Overall Dimension (cm.)	W	D	H
ECON 100	100 (Max)	58	140

Blower Specification

Model CB 12 A 1HP, 1400 RPM Ø 12" Blade 220 V. 50 Hz.

