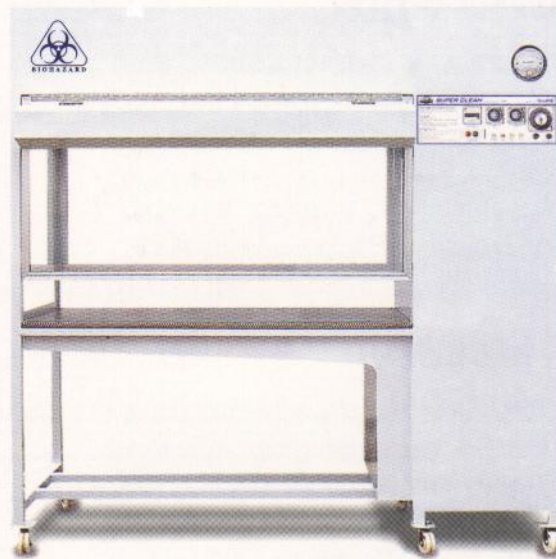


SUPER CLEAN



Laminar Air Flow



Leading Quality Products for Laboratory

SUPER CLEAN LAMINAR AIR FLOW SUPER CLEAN

DESIGN

Specially design is according to fluid flow analysis technique for protection air turbulent.

STRUCTURE

Rigid cabinet structure of 1.25 mm. sheet steel and 1x1 inch steel pipe, precision assembly and finish for tight secure fit. Epoxy polyester coating inside and outside, standard color white. Working table made of No.304 stainless steel (No.316 on request) can be sliding out.

PRE FILTER

A disposable no-woven pre filter is high-flow type with maximum dust loading capacity > 5 micron for extend intervals between filter changes. Outside is made from polyurethane foam, the second is made from fiberglass, easily change and clean by operator. Life time of pre filter 300-400 hours of operation depending on the cleanliness of the ambient air supply and environment.

HEPA FILTER

Main filter of HEPA-Aluminium frame type 3" or 5 $\frac{7}{8}$ " thickness (can be selected Wood, metal or other material frame and thickness. Depending on objective and costing) fit in cabinet frame and high efficiency seal. HEPA-filter efficiency 0.3-0.5 micron particle size not allow to pass 99.97, 99.99, 99.997, 99.999, 99.9997, 99.9999% by DOP-TEST (US-MIL-STD282).

BLOWER AND MOTOR

High pressure blower is centrifugal blower, epoxy polyester coating steel and aluminium blade with integral induction motor is statically and dynamically balanced forward blade to extremely close limits. All moving parts are isolated from the casing by efficient anti-vibration mountings. The variable speed can adjust 3 steps or continuous which coupling directly with 1/3 or 1/2 HP motor and magnetic switch control.

FRONT PROTECTION

The frontage is fixed by 5 mm. glass for protect the operator. In case of explode experiment use temper glass or safety glass. The glass frame is made of aluminium, vertical opening with slide up-down or swing system, 8 inch space for operator hand and this space can close with stainless steel panel after working and clean working area with UV. Lamp.

MANOMETER

The magnehelic gauge manometer is indicated inner chamber pressure 0-2 inch. W.G. magnehelic is most suitable (0-1, 0-2, 0-3 inch. W.G. can also used)

LIGHTING

Shadowless and glare-free high intensity illumination provided by built-in 36 watts fluorescent tubes and aluminium reflector serviceable from outside working area not less than 800 LUX according to general standard.

AIR VELOCITY

The air velocity is 0.4 m/s (80 ft/min) according to U.S. fed std. 209 B. The average inward air velocity at working opening 0.4/m/s according to british std 5726 class II. Microbiological Satety Cabinets. *Limit of air velocity must not more than 120 ft/min.* because air pressure made the particle pass the pore easily.

CONTROL PANEL

Easily for control the laminar air flow with single control panel contained (blower switch, lighting switch and UV-lamp switch), visual light (for blower, lighting and receptacle plugs), fuse, hour counter and timer (on request). Operator can see starting manual, setting time and after used manual in the same control panel.

U.V.LAMP (ultra-violet lamp)

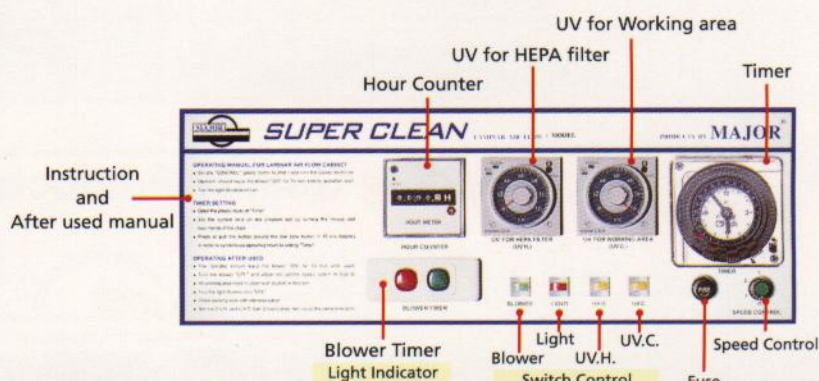
Two sets of U.V.lamp for stop bacteria growth (may be called "Kill"), first at the working area chamber or at the back of front stainless steel panel can be selected), others at the HEPA-filter. Operator can set the range of time to killed bacteria at the control panel.

TIMER

24 hours time switch for motor can set every 10-15 minute (APPROX) by simple segment. (Analog or digital timer can be selected) The timer can show the present time and can be reset or setting by operator.



Centrifugal blower



HORIZONTAL LAMINAR AIR FLOW

VERTICAL LAMINAR AIR FLOW



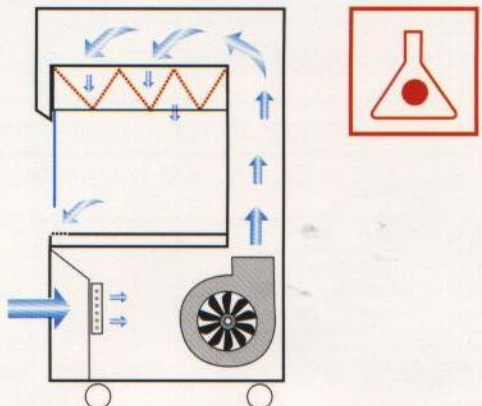
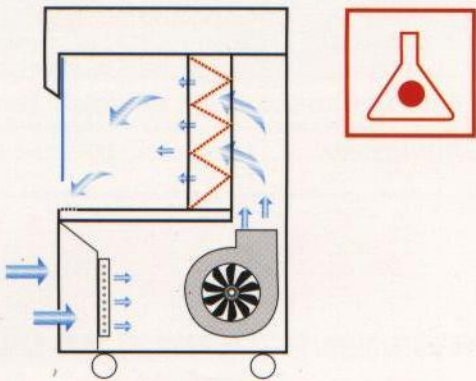
The air flow is horizontal from HEPA-filter backwall outwards through the front into room to prevent a backwash of unsterile air when working.



The air flow is vertical drawnflow work station, efficiency protecting the product against contamination. The unsterile air is recirculated to clean by HEPA-filter, 50% (Approx.) of air from vertical to recirculated, so the air is cleaned several time.

Model	Working area (cm.)			All Dimension (cm.)		
	W	D	H	W	D	H
60 H	60	60	60	72	90	160
90 H	90	60	60	102	90	160
120 H	120	60	60	132	90	160
150 H	150	60	60	162	90	160

Model	Working area (cm.)			All Dimension (cm.)		
	W	D	H	W	D	H
60 VC	60	60	80	72	80	185
90 VC	90	60	80	102	80	185
120 VC	120	60	80	132	80	185
150 VC	150	60	80	162	80	185

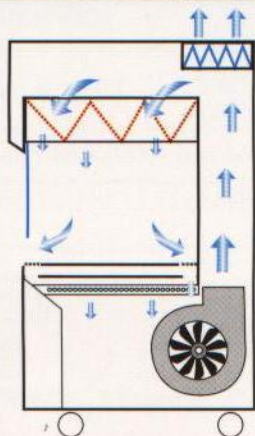


BIOHAZARD LAMINAR AIR FLOW

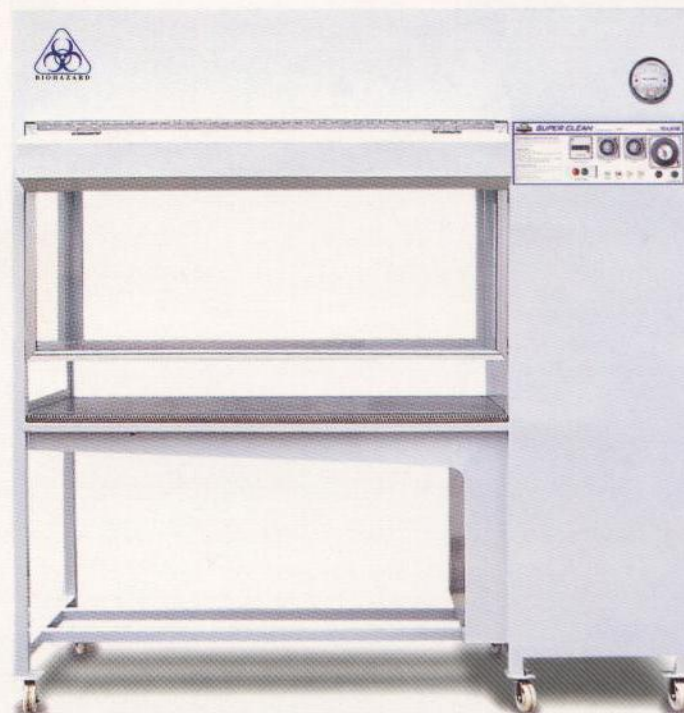


The air flow is vertical drawnflow work station, efficiency protecting the material against contamination. At the same time its offer well defined operator and environment protection against active or dangerous work substances. 20-25% of the recirculated air is exhausted after through the second HEPA-filter.

Model	Working area (cm.)			All Dimension (cm.)		
	W	D	H	W	D	H
60 BS	60	60	80	72	80	185
90 BS	90	60	80	102	80	185
120 BS	120	60	80	132	80	185
150 BS	150	60	80	162	80	185



DOUBLE SIDE BIOHAZARD LAMINAR AIR FLOW



The air flow is vertical drawnflow work station, like model BS. This model is especially constructed can be performed from 2 sides as a glass window is mounted on both long sides.

Model	Working area (cm.)			All Dimension (cm.)		
	W	D	H	W	D	H
120 BSD	120	60	80	182	72	185
150 BSD	150	60	80	212	72	185

