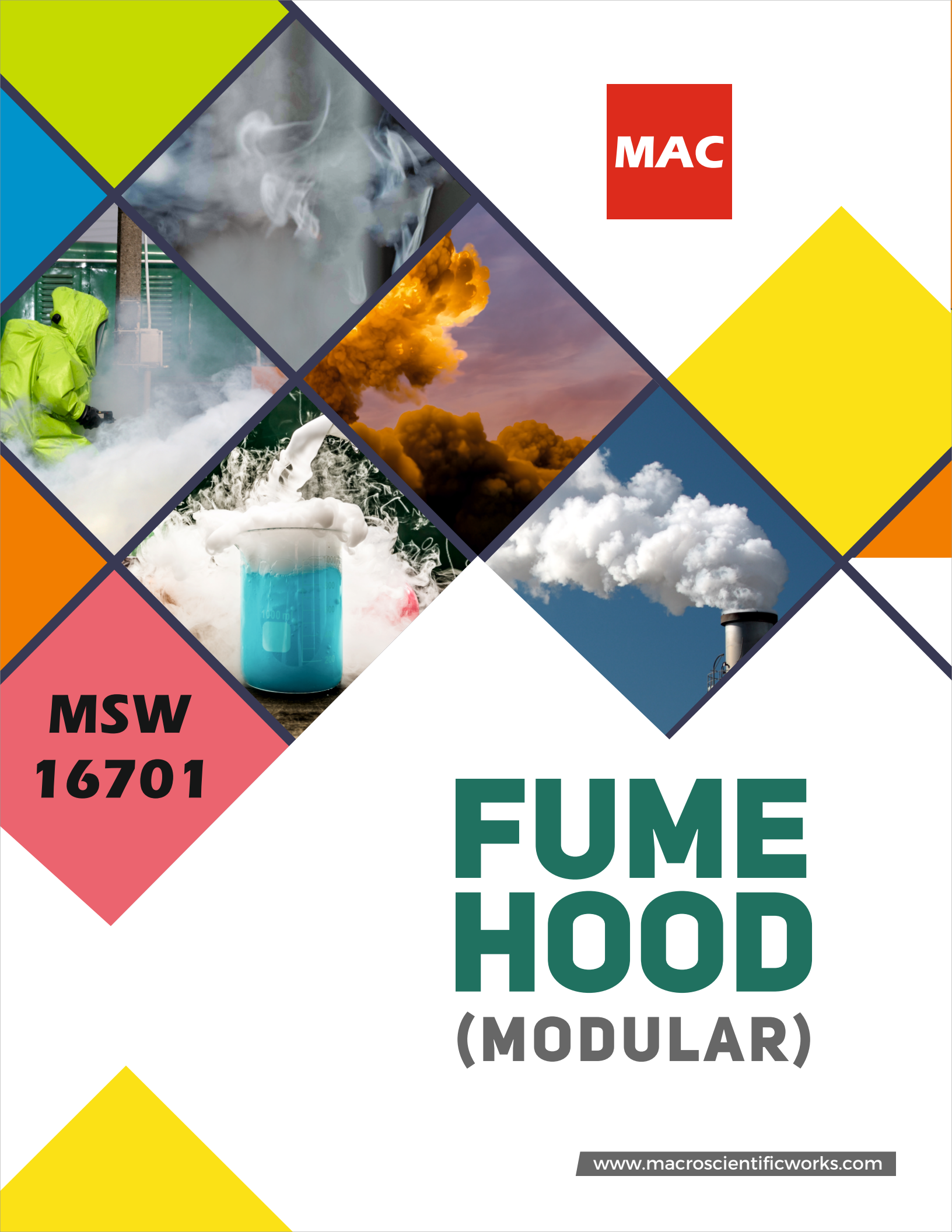




MAC

**MSW
16701**

FUME HOOD

(MODULAR)

www.macroscientificworks.com

TECHNICAL SPECIFICATIONS

Application Design Basis

Certifications

Fume Hood Structure

Air Flow Type

Noise Level (At Main Body)

Construction

Structure Outer Skin (MOC)

Cup Sink

Work Top

Inner Chamber Vertical Liner

Epoxy Powder Coating

Baffle

Utility Valves (Option)

Suction

Airfoil

Lighting

Electric Utility

Exhaust Port

Exhaust Collar

Centrifugal Blower

Maximum Air Exhaust Air Volume

Motor

Front Top Panel

General Chemical Fume Section Hood

Comply to ASHRAE-110 Standards for face velocity

CE, ISO 13485:2016, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, IEC 61010-1, IEC 60601-1, BS EN 12469:2000, U.S. FDA, RoHS & WHO-GMP CERTIFIED

Aerodynamic Floor Mounted.

Low Constant Volume Exhaust Type

<60db sound levels (Blower to be mounted on a remote mounting kit)

Double Skinned

Super Structure constructed out of CRC Powder Coated.

Made of PP to collect chemical waste on Work top.

Traditionally our work tops are made of thick DISHED CORED Granite, thicker at MARINE EDGES, thus preventing spillages and accidental damages. These chemical resistance splash & spiltedge proof Granite work top are having skirting from all the side, to prevent chemical spillage outside the work area.

Chemical & Heat Resistance, Fire retardent, smooth finish, easily cleanable, panel made out of PRL integral work (5mm thick).

Powder coated with highly chemical resistant epoxy colors.

Unique designed removeable back baffle captures and removes or slides fumes instantly at much faster speed.

Our Valves have fine control over utilities as per international standards and withstands 200 PSI pressure & brass fitting for gas connections.
1 No. for Water, 1 No. for Nitrogen, 1 No. Compressed Air, 1 No. for Vacuum.

3-point suction system (for light, normal and heavy fumes) with baffle and finned horizontal slots aids in distributing the flow of air.

Aerodynamic Design, Horizontal fixed airfoil mounted on work top, provides spill retention and safe ventilation of fumes generated with ergonomic design.

Fluorescent light (40 Watt) with vapour- Proof for proper illumination.

2 Nos. 15Amp. Sockets & Switches.
1 No. MCB Switch for the Blower.

A Unique design pattern of Exhaust Port ensures that the fumes will get exhausted smoothly without any turbulence at exhaust port, even it takes care of low noise as well.

Craftly tapered and flanged exhaust collar reduces airflow turbulences induces high static pressures reduces noise levels to minimal and also increases face velocity exhaust.

SISW type, Chemical & heat resistance heavy duty epoxy coated blower with aerodynamically balanced Impeller, with Drain plug. Consisting of continuous rating motor and chemical resistant. Blower will give face velocity of 80 to 100 Feet/minute (FPM) and a high static pressure at defined sash position. It satisfies all national and international safety velocity norms.

Minimum face velocity of 0.5m/s or 100 fpm at defined sash position

Heavy duty motor, 3 Phase TEFC, IP55, class F continuous rated.

Easily openable panel, to access Damper & to light fixture, for maintenance purpose.



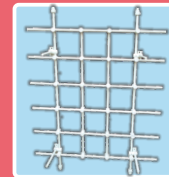
Utility Connections



DIN
Remote Valves



Degree Nozzle



Apparatus Holding Grid
(Scaffolding)
(Chemical Resistant)



Polypropylene
Sink With Tap



Base Cabinet



Heavy Duty
PP/FRP Blower

Sash (Shutter)

Vertical rising sash counter-balanced with pulley & counter weight system. Toughened float glass (5mm thick). Clear openable height of 700mm.

Service Panels

All the front and side service panels are pre-fabricated and demountable for on-site erections and commissioning, provides easy access to service lines, utility, electrical utilities for maintenance and user conveniences.

Levelling Feet

Specially designed levelling feet for balancing of cabinets and work tables as well as for height corrections and alignment vis-a-vis any floor abnormalities.

Base Cabinet (Option)

Base cabinet is capable of receiving load of Fume Hood on its top with following features:

- Complete rigid steel structure to support Fume Hood.
- Attractive Color combination on Epoxy powder coated Structure
- Double skin shutters / Doors.
- One removable horizontal partition to store the chemicals with one shelf
- Locking system with self closing hinge.
- Shutters mounted to the modules are detachable concealed hinges self closing on return.

Self Closing Hinges

Three dimensionally adjustable and chrome plated self closing hinges have a 90° opening. All the shutters are detachable and easy to mount.

Adjustable Shelves

Modular and adjustable shelf height for flexibility to store chemicals, glasswares, accessories etc.

Double-Skin Construction

All shutters and drawer fronts are double skinned and are sandwiched and stuffed for extra rigidity and strength.

Lattice/Scaffolding (Option)

Scaffold/Grid, to hold the apparatus. It covers the entire length of Fume Hood installed at a distance of approx. 150mm from the front backside of Fume Hood.

Ducting (Option)

Rigid ducting of PVC with bends, dampers, transitions and clamps upto blower. All joints are curved in order to avoid any back tracking of fumes and a smooth flow to exhaust fumes.

MODEL	#STERIMAX-3(DX)	#STERIMAX-4(DX)	#STERIMAX-5(DX)	#STERIMAX-6(DX)
External Dimensions (WxDxH) mm	1200x850x2300	1500x850x2300	1800x850x2300	2100x850x2300
Internal Dimensions (WxDxH) mm	950x750x1200	1250x750x1200	1550x750x1200	1850x750x1200

OPTIONS

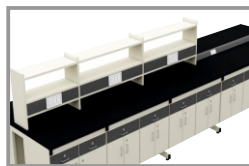
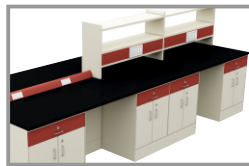
- PVC Ducting per running feet.
- Panel Mounted Remote Controlled Utility Valve (DIN : Heavy duty cased brass) with nozzle for ergonomic use in work chamber for Water / Vacuum / Air / Gas.
- Chemical and acid resistant modular epoxy scaffold / lattice.
- Heavy duty PP + FRP housing assembly with PP blower, in lieu of CRC/GI motor blower housing to cost extra.

CUSTOMER SCOPE :-

All type of Civil work, Plumbing, Block Foundation, Lab painting, Utility Connection & Electric Connection for & upto the Fume Hood and mounting of remote kit will be in Customer scope. Clear False Ceiling Height for Fume Hood and Exhaust Ducting, should be provided. Provision for Blower Foundation or Platform will be under customer's scope.



LABORATORY FURNITURE



**COMPLIMENTARY LAYOUT
AND DESIGN SUPPORT**

STATE OF THE ART MANUFACTURING PLANT AND FACILITY

Operating since 1962 our modular lab furniture manufacturing is backed with state of the art plant and machinery such as CNC Laser Cutting Machines, CNC Turret Punch Press, CNC Press Brake, CNC Laser TIG/MIG Welding Machines, Power Presses, CNC Turning Machines, CNC Vertical Machining Centers etc.

DEDICATED TEAM OF DESIGNERS AND PROJECT PLANNERS

To back the above our design house works on latest software such as SOLID WORKS, CYPCUT, METALLIX, AUTOCAD etc.

CAPACITIES TO TAKE UP BIG PROJECTS

We undertake complete turnkey projects of setting up labs with multiple options and configuration of working tables, sinks, faucets taps, ped boards, eye washer, electrical trunking and receptables etc.

MODULAR KNOCK DOWN ASSEMBLIES

All our furnitures are manufactured and delivered in knock down or semi-knock down consignment and are assembled through our team of

TYPES OF LABORATORY FURNITURE

LAB FURNITURE 'C' FRAME
LAB FURNITURE PEDESTAL MOUNT
LAB FURNITURE BASE FRAME
CHEMICAL STORAGE CABINETS
WORKING WAL BENCHES
ISLAND TABLES AND BENCHES
ANTI-VIBRATION TABLES
WALL CABINETS

ACCESSORIES FOR LABORATORY FURNITURE

- SINKS
- PEG BOARDS
- SAFETY SHOWERS
- GAS VALVES (1/2/3/4 Way)
- P.P. TRAYS
- FUME DUCTS
- SCIENTIFIC LABORATORY EQUIPMENTS
- TAPS
- EYE WASHERS
- FIRE EXTINGUISHERS
- SPOT EXTRACTORS
- STORAGE CABINETS
- PP BLOWERS
- S.S. TRAYS

MAC

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