

LABORATORY FUME HOOD

MODEL NO:- OLSC-111



Introduction

"OCEAN" Fume Hoods are designed to function as an enclosed ventilated workspace- can provide a substantial degree of protection for the experimenter.

It is designed so as to throw-out all toxic harmful vapour, acidic/alkaline fumes, chemical vapors, removal of odour etc from the hood working area, thus protecting costly instruments and the person working in the lab.

Each fume hood shall maintain average face velocity of 80-120 fpm with no face velocity measurement more than $\pm 20\%$ of the average as per ANSI/AIHA

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Model	OLSC-111-5
Design Structure	Aerodynamic, Dynamic bypass floor-mounted design
Fume hood Dimensions with base cabinet (WxDxH)	1630 mm W $\times$ 1020 mm D $\times$ 2250 mm H
Fume hood dimension without base cabinet (LxDxH)	1630 mm W $\times$ 1020 mm D $\times$ 1350 mm H.
Working chamber internal dimensions	1380 mm W $\times$ 750 mm D $\times$ 1120 mm H.
Base Cabinet dimensions	700 mm W X 590 mm D X 650 (2 nos.)
Face Velocity	0.5 m/s or 120 feet per minute 100 - 120 FPM (Average at 12" Sash opening Fume Hood) as per ANSI
Exhaust Fan	1300 CFM
Air Flow	Low Constant Volume Exhaust Type 120 cubic meter/ hour
Noise level	Less than 65dB at 1 meter from hood
Power Supply	220-240V AC 1- $\emptyset$ 50HZ (Single phase) / 440V AC 1- $\emptyset$ 50HZ (Three phase)



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TECHNICAL FEATURES
Fume hood designed with hazardous fume or corrosion proof.

Cabinet Construction	Exterior	Electro Galvanized (G.I.) 1.0 mm thick Sheet with Epoxy powder coated finish with rigid structure, corrosion & abrasion resistant epoxy powder coating, non-magnetic construction. All pipe & Supporting Fume Hood Super Structure: 2.0 MM
	Interior	Chemical & heat resistant, fire retardant, smooth finish, easily cleanable panels made up of durable PRL integral work walls.
Base Cabinet		Twin cabinets with twin doors connected to the exhaust passage, GI cabinet body and shutters, durable 4 mm PP integral work sheets, polyamide hinges, flush-type anodized Aluminium handles, two PVC exhaust pipes of 40 mm diameter and 2 m length each, internally connected to the fume hood exhaust system, and chemical-resistant PP trays. Pull-out drawer within the fume hood structure, with load-bearing capacity of 30 kg.
Baffle System		3-point Baffle system (for light, normal & heavy fumes) to ensure rapid exhaust of fumes ensuring smooth air flow patterns made up of 5 mm thick laboratory-grade polypropylene (PP) panels.
Scaffolding (Lattice) Grid		Vertical-rod design using epoxy rods, 150 mm long × 12 mm Diameter
Exhaust System		Highly efficient exhaust system (for light, normal & heavy fumes) with baffle to ensure rapid exhaust of fumes.
Work Top		Chemical resistant splash & spillage proof dished 'Jet Black Granite' worktop (18 mm thick). Skirting of 15 mm from all sides for protection from chemical spillage.
Sash (Shutter)		Combination sash arrangement providing both horizontal and vertical opening, using 5 mm thick toughened glass.
Sash Pulleys		Stainless-steel counterbalanced pulleys with ball bearings.
Sink		One circular PP cup sink per hood, 150 mm diameter; 40 mm diameter PP drainpipe up to 1 m; brass powder-coated water tap. Flip-on type air foil with 30-micron Teflon coating
Illumination		The working area is equipped with 20w Diffused LED light (800 LUX) with vapour-proof fittings for proper illumination.
Motor and blower		The exhaust system is equipped with a chemical- and heat-resistant PP + FRP blower delivering an airflow of 1300-1400 CFM, featuring an aerodynamically balanced PP impeller with a drain plug and direct-drive mechanism. 2 HP motor, 3-phase, with copper winding, ISI marking, 230 V, 50 Hz supply, and 16 A, 3PN MCB protection. The fan operates with a noise level of less than 65 dB, measured at 1 metre from the fume hood. (For one Hood: 2 HP Motor, 3Phase, For two Hood sets: 3HP Motor, 3Phase)
Electrical Fittings		Six splash-proof sockets rated 230 V ±10%, 6/16 A, 50 Hz, with six switches (three on left-hand side and three on right-hand side); six 3PN MCBs. Accessories to conform to applicable IS/BIS requirements, including the standards listed in the tender.
Wet & dry service valves		Remotely operated color coded Brass Needle Valves for fine control over utilities (as per DIN 12920 norms). Four brass service valves with colour-coded knobs. All service lines terminate at rear end fittings. Brass powder-coated tap outlet for water, with inner pipelines for air, nitrogen gas flow and vacuum valve line
Under hood cabinets:		Storage unit with powder-coated steel partitions, shelves, and drawers, featuring an integrated waste-collection provision and tucked inside for leg space.
Apparatus holding grid (OPTIONAL)		Made of Powder coated rod mounted grid with horizontal & vertical line for instruments holding with Allen key arrangement covering the entire length of the fume hood and built-in at fume hood backside.
Ducting		Duct Collar and finished duct work: Moulded/fabricated Polypropylene (PP) construction Damper: Moulded/fabricated PP damper with suitably sized openings to support exhaust flow. The exhaust ducting system features durable PP and FRP construction (3 mm + 2 mm), complete with bends, flanges, supports and a gooseneck exhaust stack. It includes approximately 200 sq. ft. of ducting, with 250 mm diameter for a single hood and 350 mm for a double hood, along with additional ducting and a canopy as required.

****Note:- Customized size & specifications will be provide on request only.**

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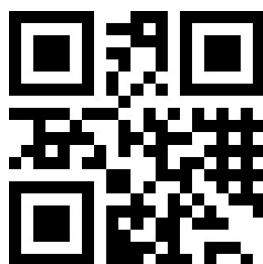
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