

ATLANTIS (INDIA) APPLICATIONS ENGINEERING PVT LTD

Fume Hood



Fume Hood

Fume Hoods "Cleanair" Series - "CFH"

Tech. Guidane: Ceeri Pilani.

(CSIR Research Lab. Govt. of India) And Scrubber System

Variants :- Wooden/MS Powder- Coded/ Stainless Steel.

Construction:

All seasoned wood, commercial ply wood, heavy gauge mild steel square pipe (ERW 18 SWG) for frame and supports etc, inside and outside affixed with white Laminate, lower portion with drawers and cup-boards. Fume chamber with 5-6 mm thick Acrylic Sheet (Transparent) Sash with counter-weight balancing technique which enables to adjust the Sash at any level from the work table. Exhaust

Flange of 200 mm. dia fitted at the top.

Work Table:

Fabricated with frame of 19mm Ply Board, Top of Sunmica, optionally Granite, Hard PVC or white glazed Tiles or Polypropylene sheet or stainless steel or any other material as per your requirements with about 2" border one sides.

Fittings: Work Area.

Porcelain or Hard PVC or PP or SS (as desired by you) with waste coupling Sink with water inlet tap, Gas cock and 5/15 Amps. Electrical switch/socket and Fluorescent lights.

Exhaust:

Very special design, TUBULAR AXIAL FLOW, heavy exhaust fan. "CROMPTION" or equivalent 18"-1440 RPM, housed in a tubular M.S. frame. 20" dia 20" width (Approx.) Inside FRP coated, outside enamel painted, suitable to handle highly corrosive fumes upto 3000 cuft/mt FAD and 2000 euft/mt at 12.5 mm static pressure.

Technical Specs.

- **Total height:** 9ft (approx.)
- **Height of the Table top from ground:** 3ft. (approx.)
- **Table top:** 4ft. 5ft, 6ft. (approx.) width and 2ft, 2.5ft or 3ft. (approx.) Depth (or any other size) as per your requirements.
- **Illumination work area:** 2 x 20 watts or 2 x 40 watts.
- **Clear opening from the table top:** 3ft. (approx.)

Elect. Controls:

- All fitted outside the Fumes Hood, Separate switches of Exhaust and lite, neon indicator, protection fuse and mains cord & plug etc.
- Built in Extension Board with 2 x 5/15 Amp; 3 x 5 Amps switch/sockets, MCB; mains indicator, cord & plug.

Exhaust Ducting:

200 mm dia PVC flexible pipe with PVC//metal rcin enforcement for strength, with necessary flanges/bends/cones etc.

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Scrubber System:

Scrubber system to wash the chemical fumes and allow clean air to the atmosphere, thus not polluting the atmosphere.

Construction:

Chamber made of Hard PVC or Polypropylene or stainless steel multiple fine spray system also of the same material: pall rings of PP or SS, chemical pump of PP or SS for re-circulation of the solvent solution (water or another in which the chemical fumes are to be washed); all pipe-lines and valves etc and other fittings of PP/SS.

Exhaust System:

- Because of heavy static pressure caused by solvent spray and the pall-rings. Centrifugal Exhaust Fan of heavy capacity and static pressure is employed.
- The housing and blower in made of heavy G.I. sheet; inside of housing is FRP coated, but outside painted
- Fitted with suitable rating 3 phase 440 VAC motor with DOL starter.

N.B.: In case the Fume Hood Series "CFH" is used along with the Scrubber System, then only one Centrifugal Exhaust Fan is required and Tubular Axial Flow Fan can be dispensed with.

Technical Specs:

- **Over all size:** 36"(W) x 24"(D) x 36"(H) (Approx.)
- **Solvent Solution Tank:** 36"(W) x 24"(D) x 8"(H) (Approx.)
- **Pall rings:** 25mm dia x 25mm height.

Standard availability in 2/2", 3/2", 4/2", 6/2" 8/2" and any other size.

N.B.: Due to continuing research and development, the information contained here-in is subject to change without prior notice.