

Specifications for the fume hood:

One fume hood with the overall dimensions with base cabinet should be approximately 2100 mm W X 900 mm D X 2400 mm H. The inside Fume Hood working volume is 2000 mm W X 650 mm D X 1180 mm H and bed size with 2000 mm W X 650 mm D.

S.No	Specification	Description
1)	Design basis Design Structure	ASHRAE110-2016, EN-14175-2003 Aerodynamic with floor mounted/benchtop
2)	Construction	Chemical & Heat Resistant, Fire Retardant, Smooth Finish, and Easily Cleanable Panels. Entire internal structure is boltless and fixed with premium quality 3M adhesives.
3)	Airfoil	Aerodynamic design, airfoil mounted on the worktop
4)	Sash (shutter)	Vertical rising sash counter-balanced with pulley and counter-weight system. Breaking stress value of 24000 psi for fully toughened glass. Smooth and light sash operation. Clear openable height of 750-900 mm.
5)	Worktop	Black Granite worktop (~ 18 mm thick) with chemical resistant splash and spillage proof. Skirting of 15 mm for no chemical spillage.
6)	Electrical Utilities	4 nos. electrical sockets
7)	Chemical Storage Base Cabinet	Completely made from 1mm thick GI sheet with Highly corrosion resistant epoxy powder coating, 60-80 microns thickness. Two exhaust ports connected to the fume hood exhaust system internally. Chemical resistance and hassle free operations in the Corrosive lab atmosphere. One PP Tray for chemical storage. Latching System for the Base Cabinet doors
8)	Centrifugal blower	Construction: SISW type, chemical & heat resistant PP + FRP blower with aerodynamically balanced PP impeller, with drain plug. Air suction: 750 CFM confirming to international face velocity norms and as per safe fume hood airflow pattern. Motor: 1.5 HP Motor (3 Phase TEFC, IP 55, Class F)
9)	Ducting	Chemical resistant PP + FRP Ducting. (3mm + 2mm) rigid & flexible ductwork from Fume hood to exhaust stack point with weatherproof canopy
10)	Noise levels	< 70db at 1 meter from fume hood.
11)	Lightning	Fluorescent light (40 watt, 2 Nos.) with vapour-proof fitting for proper illumination. Intensity approx 400 lux at worktop level.