

Specifications:

Fumehood with integrated wet scrubber for hydrofluoric acid applications/acid digestion

Sno.	Specifications	Details
1.	Applicaton	Fumehood for hydroflouric (HF) acid application and digestion
2.	Material	1. Unplasticised polyvinylchloride or polypropylene including internal surfaces, baffles, and work surface. The casing should have no exposed metal, glass, or material prone to damage by HF/acid digestion. 2. Polycarbonate sash window. Certified by ASHRAE/ANSI
3.	Power supply	Single phase
4.	Airflow velocity	Minimum, constant 100 +/-20 fpm face velocity at any point of time (including sash 1/2 opening)
5.	Exhaust Flow blower	PPH material resistant to chemicals. Mention fan rotation speed, power supply, outlet size. Certified by AMCA-210-85 and ISO 5801 or equivalent.
6.	Internal chamber size/Workspace chamber (W/L x D x H) in mm	Minimum: 950 x 600 x 1000
7.	Exterior (W/L x D x H) in mm	Maximum: 1600 x 1100 x 2400
8.	Polycarbonate Sash window	Combination (vertical+horizontal) with minimum opening height of 700 mm and minimum opening width 500 mm.
9.	Worksurface with inbuilt sink	Unplasticised polyvinylchloride or polypropylene that is integral to the fumehood and has an inbuilt sink in side corner with water connection and tap. Drain outlet should have option to drain into acid neutralizing tank preferably to be housed in the base cabinet.
10.	Maintanence and repair	The connections to the ducts and electric connections should be accessible easily for maintenance and repair.
11.	Electric sockets	2 inbuilt. 15 Amps
12.	Light fixtures	2 LED lights with wavelength centered at 594+/-4 nm with adjustable power intensity from ~0.2 to 6 $\mu\text{W}/\text{cm}^2$ at 0.5 m from the worktop. 100-240V. Should be resistant to acid vapours. Certification for the same to be provided.
13.	Washdown system and wet scrubbing	Spray nozzels with piping and rear drain for rinsing the interior. Quality scrubbing polypropylene media for collecting chemical vapours and washing to water tank before reaching exhaust with atleast 95% efficiency.
14.	Airflow monitor	Real time face velocity display with alarm system
15.	Base Cabinet for acid storage (W/LxDxH) in mm	Minimum: 600 x 700 x 1000 Acid resistant, corrosion resistant. Mention material of coating used.
16.	Base Cabinet	Minimum: 1000 x 700 x 1000 Tentative usage would be to house acid neutralisting unit.

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| 17. Spare parts availability | Indicate nearest location of availability and onsite repair compliance time after reporting error. |
| 18. Mandatory Certification | 1. The certification of safety to be issued by National Sanitation Foundation or equivalent.
2. ANSI/AMCA-210-85, EN 14175, and ISO 5801 or equivalent.
3. OSHA 29 CFR 1910.1450 or equivalent |
| 19. Warranty | 3 years |
| 20. Please the quote the make and model to be provided, include brochures and website link. | |
| 21. Details of successful installations at
govt. institutes/universities in last 2 years. | Prototype models are not acceptable. |
| 22. Delivery time | Within 3 months after placing of order. |