



World-class Safety. Made In India.

ABOUT US

Many scientific breakthroughs have happened when great minds have leveraged the right scientific knowledge and equipment. Since more than three decades, GD Lab Solutions Pvt. Ltd. (formerly, Gordhandas Desai Pvt. Ltd.) has been bridging the gap between people and science through innovative products.

We have been at the forefront of many laboratory solutions. Today, as the needs and the requirements of the market change, we are reinventing ourselves so that we continue to provide world-class products.

At GD Lab Solutions, we are building on our heritage and expertise and partnering with a noted US design firm to offer a range of products that is truly **'World Class, Made in India'**. These products exceed all global benchmarks of quality, safety, and innovation.

GD Lab Solutions
At a glance

Compliant with
ASHRAE 110 @4LPM/
0.05PPM, NIH Standard,
and EPA Standard

End-to-end services
ranging from consulting,
training, testing to production
and commissioning

India's first ASHRAE 110
compliant Fume Hood
Testing Laboratory within
factory premises

Team of
Certified Fume
Hood Experts

XGEN

The Chemical Fume Hood (CFH) is one of the most misunderstood and misused safety devices in a lab. Its presence is often taken for granted as a sign of safety. Many laboratories have had to pay a heavy price on account of poor design and installation of the CFH and the lack of knowledge and training in using it. With XGEN Fume Hoods, we wish to address these issues by providing a complete package that addresses your safety and the unique requirements of your lab.

The XGEN is a 'Research Grade High Performance Laboratory Fume Hood'. The XGEN Fume Hood range is the 5th generation of a highly successful hood line from USA - each generation built on the successes of its predecessor. They have been tested to several US hood standards like ASHRAE 110 @4LPM/0.05PPM, the NIH Standard, and the EPA standard for High Performance Hoods. They also meet the definition of a SEFA 1 High Performance Hood, making them the most robust performing standard hood on the market.



XGEN FEATURES

STANDARD FEATURES

- Specialised PP coating which enables better chemical resistance and fire retardancy
- High-performance chain drive counterbalance system enables one-finger sash operation and prevents spill accidents
- Tempered safety glass is seven times stronger and has greater thermal barrier than laminated safety glass
- Radius entry to minimise turbulence and increase containment
- 28" sash opening with 34" viewing height for easy set up and a clear view of the full interior
- Gasketed and mechanically fastened interior access panels for added protection
- Optimised baffle system to improve containment
- Highly efficient lighting for increased visibility and colour rendition
- Rectangular exhaust collar increases baffle efficiency while reducing noise
- Modular product platform designed with the latest software that makes it customisable to fit your exact requirements

OPTIONAL FEATURES

- Choose from several chemical resistant interior surfaces
- Multiple sash options
- Pre-plumbing and pre-wiring
- Safety Monitors

DIMENSIONS

XGEN BENCH HOODS

DIMENSIONS	HEIGHT	LENGTH					DEPTH
Overall Dimensions	2,278 mm	1,219 mm	1,524 mm	1,829 mm	2,134 mm	2,439 mm	855 mm
Sash Opening Vertical	700 mm	990 mm	1295 mm	1,600 mm	1,905 mm	2,210 mm	-
Work Top	923 mm	990 mm	1295 mm	1,600 mm	1,905 mm	2,210 mm	559 mm
Clearance (Sash up)	2,538 mm						

Approximate dimensions are subject to change due to design and developments

BENCH HOODS VERTICAL SASH			Sash Open 700 mm Vertical at 0.5 MPS Face Velocity	Sash Open 455 mm Vertical at 0.5 MPS Face Velocity
CATALOGUE NUMBER	HOOD WIDTH	COLLAR SIZE	EXHAUST	EXHAUST
XGB111219	1,219 mm	150 x 300	1,300 CMH	867 CMH
XGB111524	1,524 mm	150 x 402	1,711 CMH	1,122 CMH
XGB111829	1,829 mm	150 x 504	2,123 CMH	1,390 CMH
XGB112134	2,134 mm	(2) 150 x 300	2,533 CMH	1,659 CMH
XGB112438	2,439 mm	(2) 150 x 300	2,944 CMH	1,930 CMH

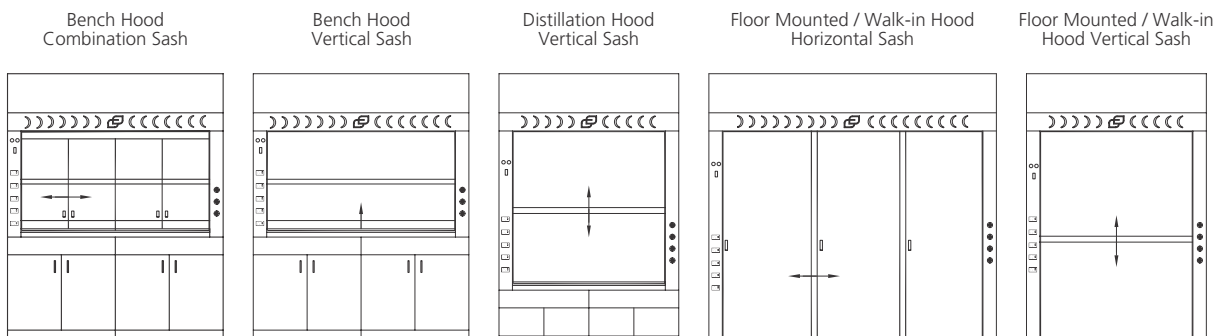
Approximate Exhaust Data considering area of sash clearance and by-pass opening

BENCH HOODS COMBINATION SASH			Sash Open 700 mm Vertical at 0.5 MPS Face Velocity	Sash Open 455 mm Vertical at 0.5 MPS Face Velocity
CATALOGUE NUMBER	HOOD WIDTH	COLLAR SIZE	EXHAUST	EXHAUST
XGB121219	1,219 mm	150 x 300	1,300 CMH	530 CMH
XGB121524	1,524 mm	150 x 402	1,711 CMH	710 CMH
XGB121829	1,829 mm	150 x 504	2,123 CMH	894 CMH
XGB122134	2,134 mm	(2) 150 x 300	2,533 CMH	1,080 CMH
XGB122438	2,439 mm	(2) 150 x 300	2,944 CMH	1,263 CMH

Approximate Exhaust Data considering area of sash clearance and by-pass opening

STRUCTURAL SPECIFICATIONS

XGEN BASIC STYLES





Safety & Quality, aesthetically - XGEN Fume Hoods has been designed keeping the needs of today's scientific research community in mind. Following are some features that give XGEN Fume Hoods, an edge over the rest.

Specialised PP Coating Technology



The specialised PP coating for Fume Hood interior surfaces with superior chemical resistance and fire retardancy (offered for the first time in India) ensures optimum surface finish and highest chemical, corrosion, impact and wear resistance. It offers an excellent, hard and long-lasting finish that overcomes the need for a separate liner on interior surfaces and is also aesthetically appealing.

Rugged Construction



Compared to conventional frame and liner construction, the unique modular pan construction creates a solid superstructure. You can rest assured that no other hood offers more protection to your lab.

Customised Fixtures



Depending on specific requirements, plumbing and electrical fixtures can be customised to your needs. Plumbing fixtures are remote actuated.

Flush Sill Airfoil



The airfoil is critical to containment. Airfoil design focuses on reducing turbulence and creating an air flow to sweep the work surface. Our airfoil is the standard for high performance, low flow hoods and is available in both painted steel and stainless steel depending on your application.

Safety Monitors



Various type of alarms and controls are available to help you monitor the performance of your hood during use.

Gasketed Access Panel



The sidewall of the hood houses many of the support items such as plumbing and electrical connections. Mechanically fastened gasketed access panel requires no tools for removal and offers easy access for maintenance and inspection.



We know that different laboratories have different needs, so we have built a wide range of Fume Hoods and other safety equipment to help you choose the right fit. And if you have a typical need, we will make one which is tailor-made for you.

Smoother & Safer Operation



The chain drive provides a smooth experience of finger-touch operation and accommodates various sash management concepts. It also helps avoid spill accidents and enables faster retraction in case of an accident.

Reduced Turbulence



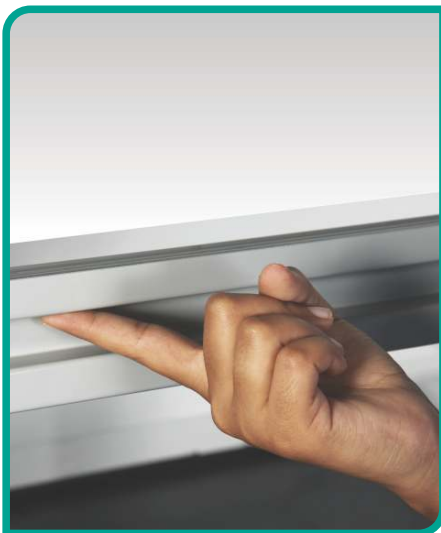
Bullnosed angular entry significantly reduces turbulence and contributes to higher containment levels.

Exceptional Modularity



Modular design supports modification and customisation.

Single Finger Sash Operation



Single finger sash operation is a safety feature that helps prevent spills and offers extra protection against a run-away experiment

Fume Hood Base Units



Solvent Storage Cabinet: Steel cabinet, internally lined with Polypropylene and having removable Polypropylene shelves, meant for storage of daily use solvent liquids.

Flammable Liquid Storage Cabinet: Double-walled metal cabinet for storage of flammable, combustible liquids. Doors are well-fitted, self-closing and self-latching with fusible lead links and door sequencer.

Stainless Steel Duct Collar



The rectangular duct collars provide superior baffle efficiency than round collars and reduces noise. The option of transitioning from rectangular to round duct is available, if required.

PRODUCT CODES

BASE NUMBER	
Fume Hood Series	
XG	XGEN Laboratory Fume Hood
Family	
H	High Performance
R	Radio-Isotope
P	Perchloric
Mount/Installation Type	
1	Bench
2	Floor
3	Distillation
Sash Style	
1	Vertical Rising
2	Combination
Nominal Width	
915	915 mm Wide / Length
1067	1,067 mm Wide / Length
1219	1,219 mm Wide / Length
1524	1,524 mm Wide / Length
1829	1,829 mm Wide / Length
2134	2,134 mm Wide / Length
2438	2,438 mm Wide / Length

OPTION GROUP-1	
Fume Hood Series	
1	850 mm
2	1,000 mm
3	1,200 mm
Flow Design	
1	Constant Volume CV
2	Variable Air Volume - VAV
Sash Counter Balance System	
1	Chain & Axle
Fume Hood Interior	
1	PP Coating
2	FRP
3	PVC
4	SS 304
5	SS 316

OPTION GROUP-2	
Airfoil Style	
1	Fixed Wing
Sash Frame Construction	
1	Black PVC
2	Painted Steel
3	SS 304
4	SS 316
Sash	
1	Tempered Safety
2	Polycarbonate
Baffle Style	
1	Fixed

Default option configurations are provided on individual Fume Hood sheet.

A Fume Hood specified with Base Number alone indicates a default configuration.

FUME HOOD PART NUMBER

Width	Base Number
1,219	XGT111219
1,524	XGT111524
1,829	XGT111829
2,438	XGT112438

Family, Mount, Sash Style, Width - 850mm Nominal Depth, CV, Chain, PP Coated- Fixed Wing Sill, PVC Sash Frame, Tempered Safety Glass & Fixed Baffle



For more information about XGEN Fume Hoods and how we can partner to make your laboratory better, please contact:

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* This literature provides only representative information of the company's range of products. More details are available on request. Progressive improvements made on company's products forbid illustrations & text to be binding on us as to details of latest design.