

*Godrej* interio

GET THE  
**GREEN EDGE**  
FOR YOUR LABORATORY.



 **ROBUST AIR**  
**FUME HOODS**

# LABORATORY FURNITURE AND ENGINEERING SOLUTIONS

## FROM GODREJ INTERIO

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Godrej Interio is India's largest furniture manufacturer with a lively brand image and a diverse product portfolio. Identifying the need for modern laboratories for research & development in biological life sciences, healthcare, electronics, instrumentation, chemicals and petrochemicals industry, Godrej Interio ventured into Laboratory Furniture and Engineering Solutions. Backed by top notch manufacturing and performance, it is now a formidable player in the industry.

Godrej Interio Laboratory Furniture and Engineering Solutions provide you with a



single TURNKEY solution for your new build or refurbished laboratory. This includes designing of lab layouts, space planning, installation of furniture and other utility services. Our product and service portfolio includes storage cabinets, fume hoods, anti-vibration tables, exhaust / electrical / safety systems, bio-safety hoods, clean room benches, spot extractors, etc.

To ensure continuity of work, reduced onsite time and project execution within set deadlines, commissioning of a fully functional laboratory is done by our competent service team.

## ROBUST AIR FUME HOOD ADVANTAGE

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Robust Air fume hoods, as the name suggests, are robustly designed to contain adequately as per stringent EN 14175 Part 3 besides conforming to ASHRAE 110, offering unmatched safety to fume hood users and substantial energy savings to the facility owner respectively thereby increasing the overall **GREEN QUOTIENT** of the Laboratory installation greatly.



# PRECISION TESTING

## ENSURES UNMATCHED QUALITY

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As a key safety instrument in laboratories, the Robust Air fume hoods are set to high standards of performance. They have been designed and developed by keeping in mind modern day laboratories and have successfully passed the following tests as per international norms:

**VELOCITY TEST:** Velocity in front of the fume hood is measured using an anaemometer and it should be within acceptable limits.

**FLOW VISUALISATION TEST:** The gas should flow through the baffles as desired.

**CONTAINMENT TEST:** Checks if the containment of SF6 in the fume hood is proper or not by measuring its concentration.

**ROBUSTNESS TEST:** Measures the capability of the fume hood to maintain adequate containment even during external disturbances in front of the fume hood.

**AIR EXCHANGE EFFICIENCY TEST:** SF6 is introduced into the fume hood for 200 secs. The time taken for the gas to come down from 80% to 20% concentration is called air exchange efficiency.

Robust Air fume hoods have also passed the Pressure Drop Test, Sash Suspension Test, Sash Displacement Test, Protection Against Splashes, Sash Stop & Alarm Test and Illuminance Test. Godrej Interio Laboratory Furniture and Engineering Solutions is a member of SEFA (Scientific Equipment & Furniture Association) and complies with the SEFA standards.

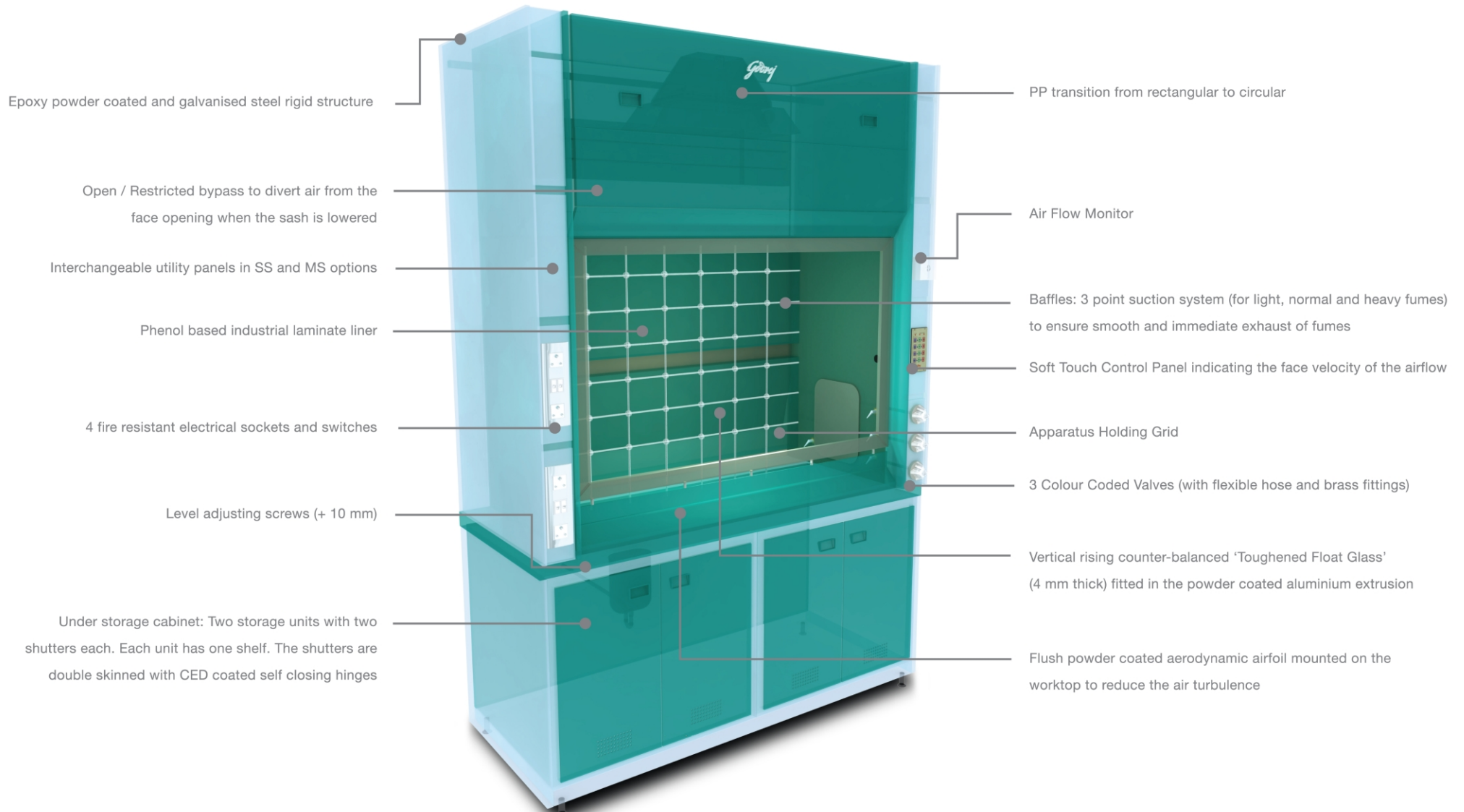




# ABOUT ROBUST AIR

## FUME HOOD

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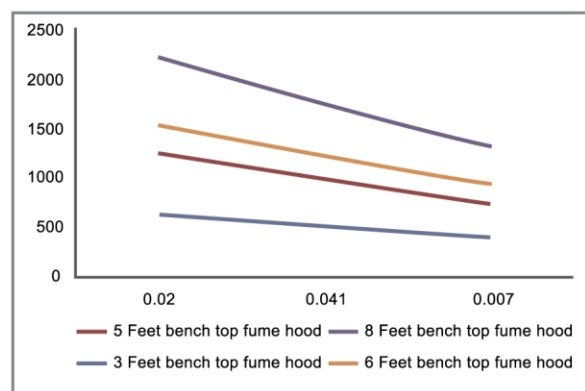
# POWER SAVING THROUGH ROBUST AIR

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A fume hood is said to pass the Robustness Test if the containment is within norms even while the containment capacity of the operating hoods is challenged by disturbances due to the normal physical movements of the users present before the fume hoods. A well designed fume hood with good robustness values can give the required containment at a very low face velocity. This enables the hood to be run at a lower air flow speed.

As per the empirical formulae the electric energy used by the blower fan varies inversely to the cube of air flow speed. Hence even a marginal drop in airflow speed will lead to a substantial drop in energy consumed. While the energy saving in a standalone fume hood is clearly visible, the potential to save electrical energy in large installations is really very large.

Considering the fact that a typical laboratory uses approximately eight times more energy than the commercial airconditioned space of the same area, one can theoretically calculate the energy savings Godrej Interio Robust Air fume hoods provide in large installations.



Excellent Robustness values directly translate to energy conservation. Robust Air fume hoods can give excellent containment at face velocities as low as 0.3 m/s.

## GET THE GREEN EDGE WITH ROBUST AIR

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♦ It is a GREEN product because of its unique knock down (KD) design and thus has minimal environmental impact because of reduced freight / replacement cost and modularity

♦ They offer you unmatched energy savings and depending on the overall site configuration / installation parameters can be operated theoretically at a 40% lower speed and yet not compromise on the safety requirements of users

♦ Robust Air fume hoods have a set of interchangeable panels on its front surface which can be removed / modified if the user wants additional utility services in the future

♦ Your laboratory no longer has a dull outlook as they have been aesthetically designed and come in various colour combinations

# SPECIFICATIONS



## BENCH TOP FUME HOOD

	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Overall Dimensions (WxDxH)	900 x 900 x 2400	1200 x 900 x 2400	1500 x 900 x 2400	1800 x 900 x 2400	2100 x 900 x 2400	2400 x 900 x 2400
Working Volume (WxDxH)	620 x 665 x 1180	920 x 665 x 1180	1220 x 665 x 1180	1520 x 665 x 1180	1820 x 665 x 1180	2120 x 665 x 1180
Bed Size (WxD)	620 x 665	920 x 665	1220 x 665	1520 x 665	1820 x 665	2120 x 665
Worktop Height from Ground	900	900	900	900	900	900



## LOW BENCH FUME HOOD

	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Overall Dimensions (WxDxH)	900 x 900 x 2400	1200 x 900 x 2400	1500 x 900 x 2400	1800 x 900 x 2400	2100 x 900 x 2400	2400 x 900 x 2400
Working Volume (WxDxH)	620 x 665 x 1480	920 x 665 x 1480	1220 x 665 x 1480	1520 x 665 x 1480	1860 x 665 x 1480	2120 x 665 x 1480
Bed Size (WxD)	620 x 665	920 x 665	1220 x 665	1520 x 665	1820 x 665	2120 x 665
Worktop Height from Ground	500	500	500	500	500	500



## WALK-IN FUME HOOD

	3 feet	4 feet	5 feet	6 feet	7 feet	8 feet
Overall Dimensions (WxDxH)	No Model Available	No Model Available	1500 x 1050 x 2400	1800 x 1050 x 2400	2100 x 1050 x 2400	2400 x 1050 x 2400
Working Volume (WxDxH)			1260 x 760 x 1950	1560 x 760 x 1950	1860 x 760 x 1950	2160 x 760 x 1950
Bed Size (WxD)			1260 x 760	1560 x 760	1860 x 760	2160 x 760
Worktop Height from Ground			No Worktop			

\* All dimensions in mm

## WORKTOP OPTIONS

- Granite
- Ceramic Vitrified
- Cellulose Fibre Reinforced with Phenol Resin
- Polypropylene
- Stainless Steel

## LINER OPTIONS

- Industrial Laminate
- Stainless Steel

## FUME HOOD COLOUR OPTIONS



Pacific Blue



Burgundy



Ivory



Harmony Blue



Coral Green



Royal Ivory /  
Shell White



Lista Blue



Harmony Green

\*Actual colour samples are recommended prior to making a final selection.

## ACCESSORIES

### FOR FUME HOODS

#### AUTO SASH CONTROL

It helps in proper control of the sash position automatically through a smart system comprising of personal & sash sensors, alarm panel, sash low & tilt switch and sash drive unit, thus ensuring energy savings. Such mechanisms ensure adequate safety by providing optimal containment and still maintaining a constant face velocity.



#### CHEMICAL STORAGE BASE CABINETS

Fume hoods are designed to rest on a bench (high base stand or a cabinet) which is a complete rigid steel structure. When these storage cabinets (including shelves) are provided with an internal lining of 1mm chemical resistant polypropylene/FRP sheet and a ducting mechanism they become a chemical storage base cabinet which can be used for storing toxic chemicals.



#### APPARATUS HOLDING GRID

It is an aluminium or stainless steel (with epoxy powder coating) pipe to hold the apparatus for distillation and other experiments. It covers the entire length of the hood and is mounted on the back surface of the fume hood interior.



#### AIR FLOW MONITOR

It alerts the operator immediately if face velocity falls below a pre-programmed operating level. Thus helping the operator know when a low flow condition occurs through an audible alarm system.



#### A Godrej Interio Initiative

The first company to have a Certified Green Furniture Range.  
To know more contact us on [interiogreen@godrej.com](mailto:interiogreen@godrej.com)

TURNKEY SOLUTIONS | FUME HOODS | LABORATORY FURNITURE | LABORATORY ACCESSORIES



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