

# LABORATORY FUME HOODS

Laboratory Fume Hoods are ventilation type systems, designed to exhaust chemical fumes, vapours, dust and gases. Fume Hoods provide physical protection against inhalation, fire, reactions or chemical spills. Fume Hoods maintain negative pressure inside the working chamber to prevent any containment escaping out of it.

KT Engineering offers a new adaptive ergonomic design, combined with a unique airflow management system which provides protection against dangerous chemical reactions.

## APPLICATION:

Fume Hoods are used where protection against chemical reactions is essential. This includes:

- Pharmaceutical, electronics, chemical, medical, stem cell culture, IVF and food manufacturing
- Hospitals, Pharmacies, Laboratories, Universities, Animal and Research facilities.



## AIR FLOW SYSTEM:

- The aero-dynamic fixed baffle system controls the airflow pattern throughout the hood and ensures superior containment within work-zone even at very low air velocities.
- The baffle systems is pre-tested for safety on different air velocities.
- Front side louvers and aerodynamic air foil system enhance air exhaust system.
- Air baffle systems, ensures airflow uniformity throughout the working chamber.
- The airfoil is fabricated of high grade 304 stainless steel to minimize rusting and corrosion that can occur with painted surface airfoils.

## WORK TOP - COATING FINISH

- Epoxy resin 2" thick work-top with a black, low shine finish with deep dished type sink.
- Stainless Steel 304 work-top also available to meet requirement of different applications.
- Laboratory grade powder coating provides chemical & scratch resistant surface.

## SASH DESIGN:

- The specially designed counterbalanced frame-less sash can be lifted easily from any position.
- The design ensures smooth movement of sash and can be hold at any position.
- The clear full side-to-side view of fume hood interior and service fixtures connections.
- The laminated safety glass used for safety and visibility.

## EXTERIOR LIGHT FIXTURE:

- Energy efficient glare-free fluorescent lights mounted outside the working chamber for improved safety and convenient service.

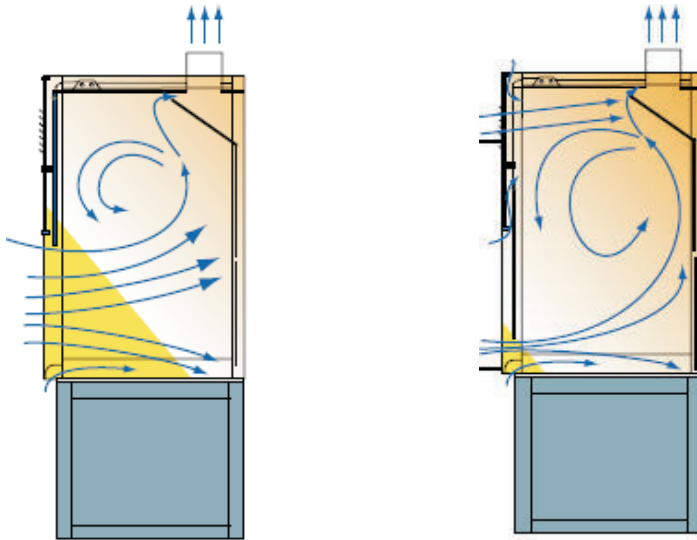
## CONSTRUCTION FEATURES:

- Front side service fixtures ensure easy operations.
- Double skin side walls.
- Voltage-compensating blower(s) ensure stable airflow.
- The exterior is fabricated of cold rolled steel and finished with acid wash and powder coat. The solid frame galvanized steel construction provides both stability and convenient knock-down ability to improve flexibility.
- Around 12" standard duct collar is included to easily match up to most existing duct-work without costly additional "transition" pieces.
- All hoods includes standard accessories and shipped pre-wired and pre-plumbed.
- Interior chamber smooth and easy to clean and maintain.
- The front of the unit will incorporate a raised front lip for spill containment.
- System includes ergonomic-sloping front design for easy access & cleaning.
- Gasketed panels prevent fumes leakage outside the fume hood.
- Material of manufacturing can be stainless steel 304 or powder coated electrogalvanized steel.
- Wide variety of service fixture options available.
- Individually factory tested and commissioned after production; corresponding reports included with every unit.
- Shipped assembled, fully tested and ready to use.

## CONTROL FEATURES:

- Built-in solid state variable speed controller, adjustable from zero to the maximum setting.
- Control system consists of:
  - > separate switches for blower, light & electrical socket.
  - > indicator lights for blower, light and electrical socket.

# Air Flow Diagram - Engineering Diagram



## Standard Accessories:

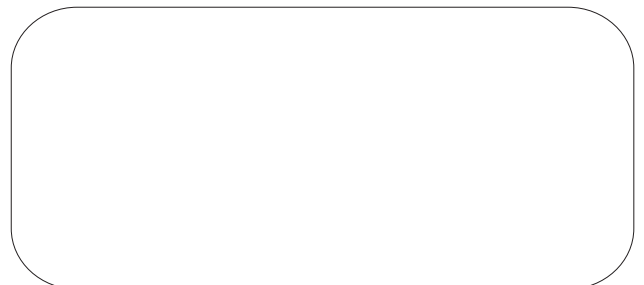
- Flourescent Lights.
- Electrical Sockets.
- Water Outlet
- Natural Gas Outlet
- Dip Cup Sink
- Base Cabinet
- Exhaust Blower

General Specifications	KTE-FH-42
External Dimensions ( WxDxH)	54" x 32" x 50"
Internal Dimensions ( WxDxH)	46" x 22" x 36"
Sizes	Available in 2 ft, 3 ft, 4 ft , 5 ft and 6ft sizes. Custom size's also available.
Air Velocity	> 90 fpm face velocity, user side adjustable.
Standard Compliance	ASHARE 110 compliance.
Light Intensity	> 800 lux on zero background.
Main Body Construction	18 ~ 20 guage electro-galvanized steel with powder coating finish.
Work Surface Construction	Epoxy Coated Work Top / Stainless Steel 304
Power Supply	220 V, Single Phase 50 hz / 60 hz.

*Kleentek Engineering manufacture's Downflow Booths , Laminar Flow Cabinet, Biohazard / Biological Safety Cabinet, Fume Hood, Pass Through Boxes, Pass Through Air Showers, Air Showers, HEPA Filter Housings.*

*Kleen Tek Engineering specialized in fabricating the custom sized equipments to meet the customer requirements at competitive prices*

## Local Representative



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