CLEATECH®
Cleanroom & Laboratory Solutions

Basic Benchtop Ducted Fume Hoods Vs. High Performance Fume Hoods

Cleatech Basic Benchtop Fume Hoods	Cleatech High Performance Fume Hoods
Single wall plastic or steel construction.	Dual Wall heavy duty steel construction for maximum durability
Benchtop that can be placed on any table or countertop	Standard built-in dimensions that matches the other laboratory cabinets and casework.
Optional Polypropylene under-stand cabinet	Powder coated steel base cabinet available in General Purpose, Corrosive/ Acid storage and Flammable solvent storage
No service fixture for air / gas and water, only passthrough utility port on side walls	Up to eight pre-plumed service fixtured can be installed with front face color coded valves
The hood's performance depends primarily on sash position. When sash raised the airflow reduced and when sash lowered the velocity will increases. If opening obstructed the velocity will increase to a point which may create turbulence that can force contaminants into the room.	Hoods allow air to be pulled through a bypass opening above the sash and the bottom of airfoil. The air going through the hood maintains a constant volume regardless of the sash position. No Turbulence created when the sash is lowered.
Sash height is factory set where the fume hood can maintain safe airflow levels, the sash is in two or three pieces hinged together and cannot be fully closed.	Vertically raising sash system can be adjusted in any height by means of sprocket and chain counterbalance system.
Except the Cleatech' containment ventilated hoods (CVE), the basic hoods are not featuring airfoil and baffle system.	Aerodynamic airfoil and vertical fascial along with slotted baffle system designed to maintain laminar, undisturbed and nonturbulent flow through the hood.
Not an Energy Saver system as in other conventional CAV fume hoods. A constant airflow hood with no VAV controlling option.	Can be converted to a Variable air volume (VAV) hood with optional VAV controller. The airflow controller reduces the volume of air taken from the fume hood by adjusting damper when the hood is not being used, reducing energy usage by up to 85%, considerably reducing costs.
Sash is fixed to the normal operation position all the time even if the hood is not in use.	Optional automatic sash control provides manual and automagical sash height adjustment. It maximizes energy savings and provides increased safety for the operator. The auto sash controller is designed to close the sash automatically when the operator is not present
Ductwork is visible and accessible on the top of the hood.	Optional ceiling enclosure available that extend above the top of the hood to hide exposed ductwork, plumbing and wiring.
Reference: Basic Fume hood	Reference: High Performance Fume Hood