

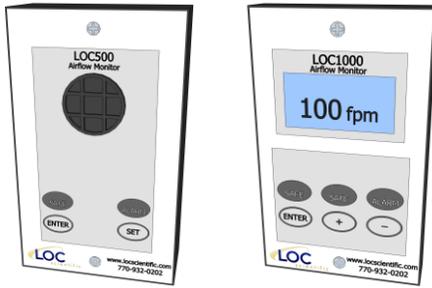
Trilogy™

High Performance - Safety - Energy Savings



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Trilogy™ Features



Equipped with digital alarm

LOC High Performance Fume Hoods carry a UL1805 Classification in the US



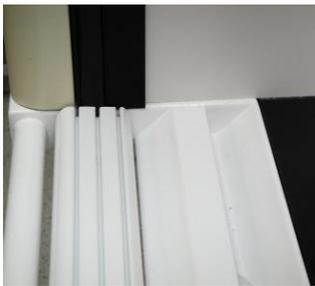
Performance and safety are enhanced with a flush airfoil, secondary containment trough and safety bar



Factory ASHRAE performance tested for zero spills



Full View Combination horizontal/vertical sash features top hung rollers and full contact guides at the lower edge of the panels.



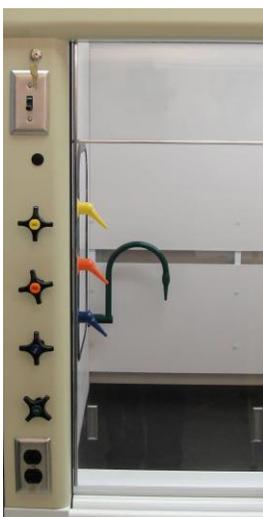
An aerodynamic lower sash handle eliminates turbulence as air enters the hood



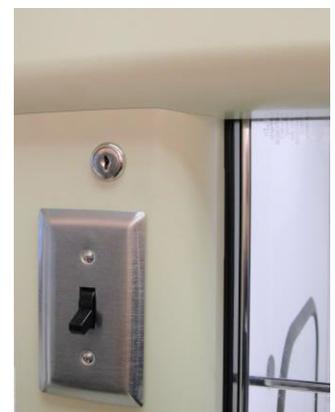
Factory ASHRAE performance tested for zero spills



An integral cord slot allows cords to pass through and the sash to be fully closed



A clear unobstructed view of the hood interior is achieved with a 35" viewing height



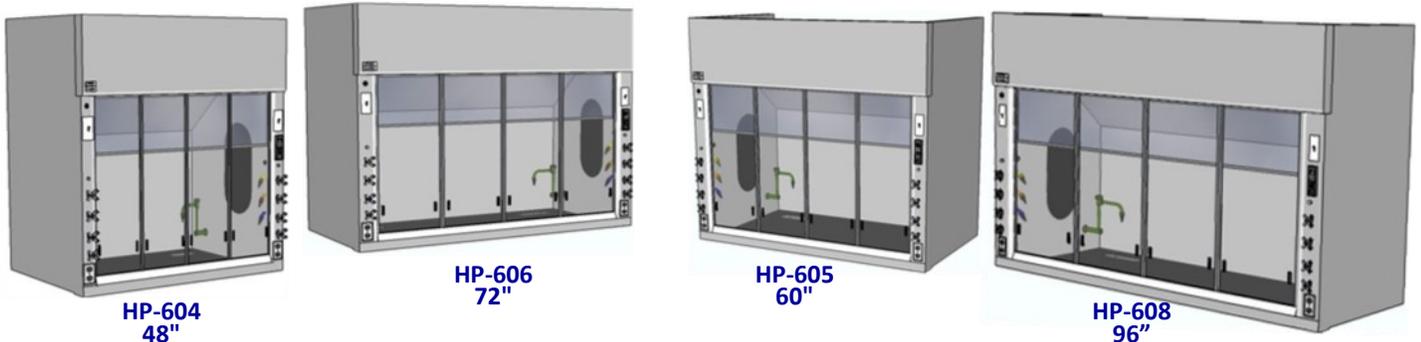
A keyed sash lock stops the sash from rising above the 18" operating position. When unlocked, the sash may be raised to the setup position of 27 1/2"

Trilogy™ Features

Trilogy Fume Hoods are designed to provide personal protection at an economical operating cost. Operating at an exhaust volume of less than half of a conventional hood, the LOC Trilogy hood not only saves money by reducing the volume of air that needs to be conditioned and exhausted, it reduces the size of the HVAC equipment saving on the original capital investment. Although efficiency is the goal of the design, we have not compromised on the reason you purchase a fume hood in the first place. SAFETY!

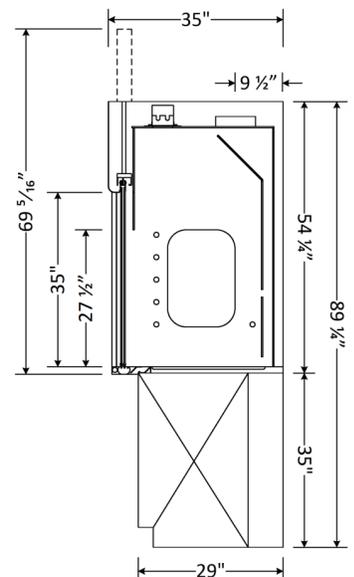
LOC High Performance Hoods utilize a series of design features that provide unsurpassed containment and personal protection. These features include...

- Engineered baffle system for proper air distribution and constant face velocity.
- Rounded corners at hood entrance for smooth air flow with less turbulence.
- Aerodynamic sash pull.
- Flush sill containment trough with directional vanes and white Plas-Cote finish for durability and chemical resistance.
- Cord pass through allows the sash to fully close without interference from appliance cords.
- Safety bar at the lower entrance of the hood provides the operator a personal safety barrier.
- 35" high viewing area
- White Resin-Chem interior with vapor proof T8 fluorescent light for bright interior viewing.
- Full view sash frame with top hung horizontal sash panels provide 27 ½" high interior access.
- 18" vertical opening with a keyed sash stop to access a 27 ½" set-up position.
- Double wall construction for installation of plumbing and electrical fixtures and concealed routing of piping and wiring.
- Round stainless steel duct collar (two on 8' hoods) for connection to the dynamically balanced upper air plenum of the hood.



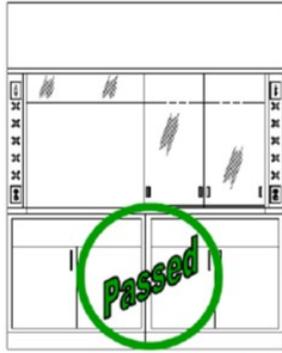
HOOD SIZE	COLLAR SIZE	CFM	S.P.	FACE VELOCITY		
				18" VERT.	27.5" VERT.	HORIZ
48"	8" DIA	380	.13	80	52*	107
60"	8" DIA	500	.19	80	52*	106
72"	10" DIA	620	.14	80	52*	106
96"	(2) 8" DIA	860	.15	80	52*	106

The static pressures listed above are for the hoods only. An appropriate amount will have to be added to this figure to compensate for the pressure drop through the hood and the duct system and must be known to select the proper exhaust fan.

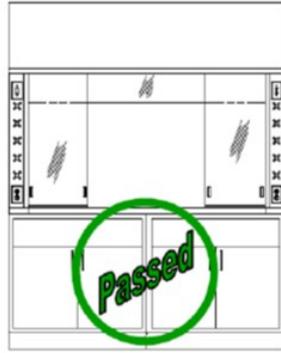


ASHRAE 110 TEST RESULTS

Exhaust Volume 620 CFM



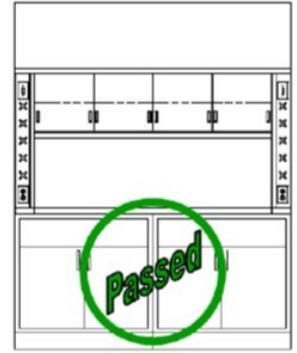
Horizontal sash open left
106 FPM
4.0 AM 0.00



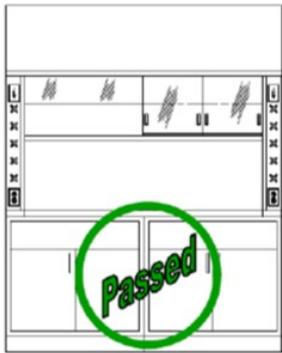
Horizontal sash open center
106 FPM
4.0 AM 0.00



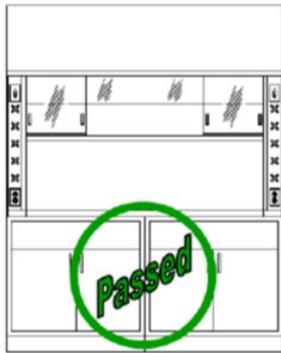
Horizontal sash open right
106 FPM
4.0 AM 0.00



Vertical sash open 18"
80 FPM
4.0 AM 0.00



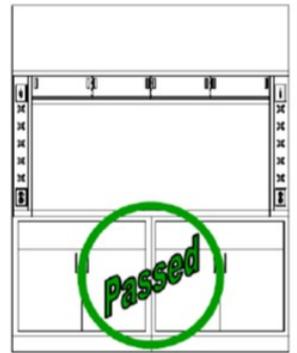
Vertical sash open 18"
horizontal sash open left
66 FPM
4.0 AM 0.00



Vertical sash open 18"
horizontal sash open left
66 FPM
4.0 AM 0.00

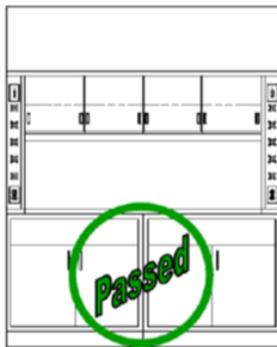


Vertical sash open 18"
horizontal sash open left 66
FPM 4.0 AM 0.00



Vertical sash full open
52 FPM
4.0 AM 0.00

Exhaust Volume 465 CFM



Vertical sash open 18"
60 FPM
4.0 AM 0.00

As Manufactured (AM) testing of the Trilogy Fume Hood shows full containment at any sash position when operated at 620 CFM. This is an energy savings of over 55% when compared to comparable conventional hood which operates at 1400 CFM.

Further testing shows that when operated at 465 CFM at the 18" sash open position, full containment is still achieved. However, at this exhaust volume when the sash is fully opened the face velocity drops to 39 FPM which is an unacceptable level.

Careful consideration of exhaust volume and sash position is recommended when specifying the Trilogy Fume Hood.



Vertical sash full open
39 FPM
4.0 AM 0.00