

UniFlow[®] LE AireStream Fume Hoods

High efficiency, full duty fume hood in 36", 48", 60", 72" and 96" widths. UniFlow LE fume hoods are low flow constant volume for energy savings & maximum user protection. The aerodynamic face opening with airfoil provides uniform air flow through the fume chamber. The Vector baffle system directs the air through the fume chamber to the bell shaped exhaust collar with minimum turbulence. Fume hood is U.L.1805 classified.



UniFlow LE AireStream Hood Cat. No. 35561
shown with Vector Air Flow Slots and optional epoxy resin worksurface, base cabinet and fixtures

UniFlow Superstructure non-metallic construction (**NO RUST**) for total chemical resistance, superior durability and long life. Interior fume chamber one piece glass smooth, all covered corners for ease of cleaning. Unitized construction reduces weight for ease of installation. 5 year warranty.

Vector AireStream Baffle System

Features Vector Air Flow Slots for low flow and high performance. Maintains uniform air flow thru the baffle system to bell shaped exhaust collar outlet.

Access Panel removable to access ducting connections, plumbing & electrical services from a single point electrical box, 115V/60Hz AC operation. Energy efficient vapor proof LED light fixture with polished stainless steel reflectors, and light switch on left column, all factory installed.

28" Vertical Sash Height vertical moving sash for loading & unloading of fume hood. Sash is counterbalanced and connected with coated stainless steel cables, 3/16" tempered safety glass with chemical resistant non-metallic PVC framing track and aerodynamic sash lift.

Full 32" Viewing Height for ease of access, unobstructed view of fume chamber, and working with tall apparatus and distillation grids. Ergonomic sash lift contoured for efficient air flow and ease of movement, standard equipment.

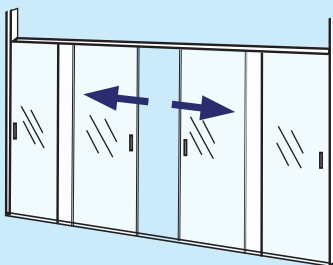
Angled Picture Frame Opening the aerodynamic face opening with air foil provides uniform air flow into the fume chamber and thru the Vector AireStream baffle system.



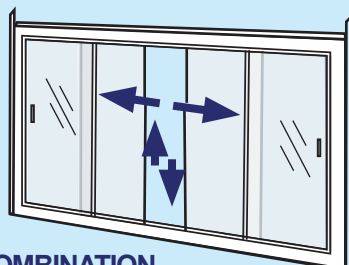
Air Flow Monitor Digital

continuously monitors face velocity air flow, Meets ANSI and OSHA requirements. Optional equipment, Cat. No. 51403

SASH OPTIONS

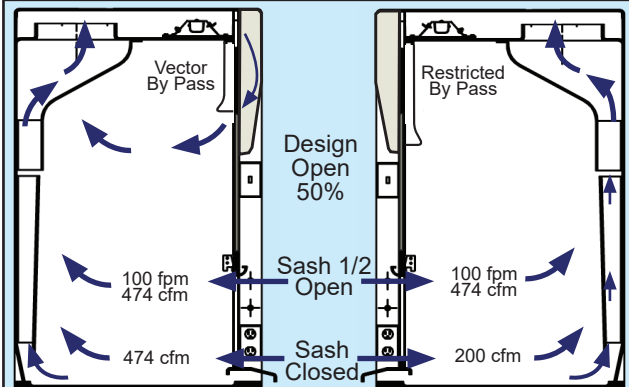


HORIZONTAL SLIDING SASHES Sash stops available. Max opening is 50%, (4) panels on (2) tracks, conveniently lift out for equipment set-up or cleaning.



COMBINATION VERTICAL MOVING FRAME with HORIZONTAL SLIDING SASHES Offers the advantages of both sash types. Horizontal openings offer energy savings while vertical option allows full access to the fume chamber. Frame is of type 304 stainless steel.

60" CAV Fume Hood Vs 60" VAV Fume Hood



- The CAV with Constant Volume exhaust blower (474 cfm), maintains 100 fpm face velocity at 1/2 open design position.
- The VAV fume hood would need to be equipped with a variable volume exhaust system to maintain 100 fpm at any sash opening height.

UNIFLOW LE AireStream Fume Hoods

UNIFLOW LE AIRESTREAM DESCRIPTIONS	Fume Hood Width "A"				
	36" Cat.No.	48" Cat.No.	60" Cat.No.	72" Cat.No.	96" Cat.No.
1. UniFlow LE AireStream CAV Fume Hood: Air By-pass low flow, constant air volume hood. Dual wall unitized construction, all non-metallic corrosion and fire resistant composite fiberglass construction. Molded one piece fume chamber with white glass-smooth surface with all covered corners. Vector AireStream baffle system and bell shaped exhaust collar. Sash to be counterbalanced, 3/16" tempered safety glass with chemical resistant non-metallic PVC framing, track & aerodynamic sash lift. A sash stop is installed at the 1/2 open position. Vapor proof LED light fixture and control switch are wired to a single point junction box. 115V/60Hz, AC All electrical components are U.L. listed. Optional electrical services. Fume hood is U.L.1805 classified. Specify CAV or VAV.	35361	35461	35561	35661	35861
2. UniFlow LE AireStream VAV Fume Hood: Same as #1 above except equipped with Variable Air Volume VAV restricted by-pass feature, in place of CAV by-pass feature. Ducting must be connected to optional VAV exhaust system & controls.	35362	35462	35562	35662	35862
3. UniFlow LE AireStream Fume Hood with Explosion-Proof Light: Same as #1 above except, equipped with explosion proof vapor tight light fixture. Class I, Div II, Group A B C & D. Class II Div II Group F & G 115V/60Hz, U.L. listed fixture is installed but not wired. Must be field wired to comply with codes. Optional electrical services.	35363	35463	35563	35663	35863
4. UniFlow LE AireStream Fume Hood in CE Configuration: Same as #1 above except equipped to comply with optional CE international electrical configuration. 220V/50Hz AC. Electrical services, exhaust blowers available.	35364	35464	35564	35664	35864
5. Horizontal Sliding Sash Option: Add suffix to number above.	NA	35HS-4	35HS-5	35HS-6	35HS-8
6. Combination Sliding Sash Option: Add suffix to number above	NA	35CS-4	35CS-5	35CS-6	35CS-8

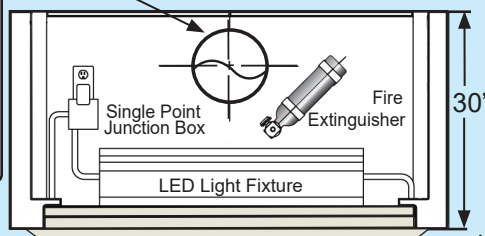


U.L., Underwriters Laboratory U.L. 1805 for fume hoods & cabinets, this classification covers construction, materials, flammability, & containment. U.L. 3101 electrical performance is tested using HIPOT testing, (high potential high voltage). HEMCO's test facility is compliant to test fume hoods for U.L. 1805 Classification

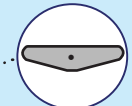
UniFlow LE AireStream Hood Dimensions

Width "A"	36"	48"	60"	72"	96"
Width "C"	25"	37"	49"	61"	85"
Diameter "D"	8"	10"	10"	12"	(2)10"

Diameter "D" bell shaped exhaust collar



Top View



Vector Air Slots make the Vector AireStream Baffle system more efficient

Air Flow Monitor

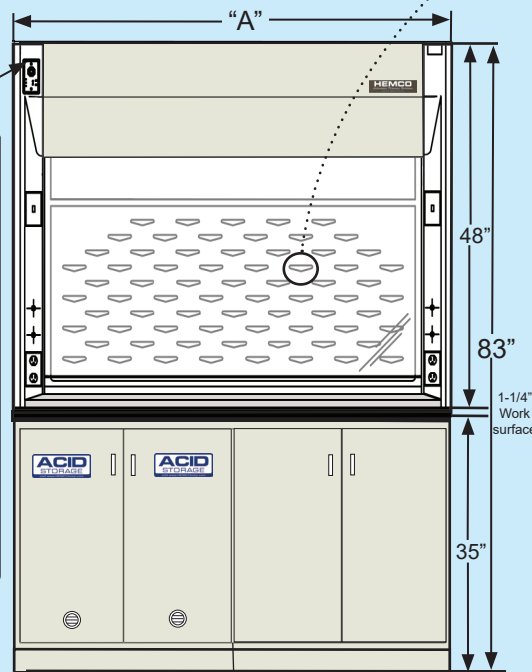
CAV Fume Hood Face Velocity

The recommended face velocity for efficiency & safety is 80-100 fpm. Lower face velocity may compromise user safety. Sash in full open position should be for setup of apparatus & maintenance service only. Design opening is at 1/2 open at 100 fpm (feet per minute), face velocity at full open would be approximately 50 fpm.

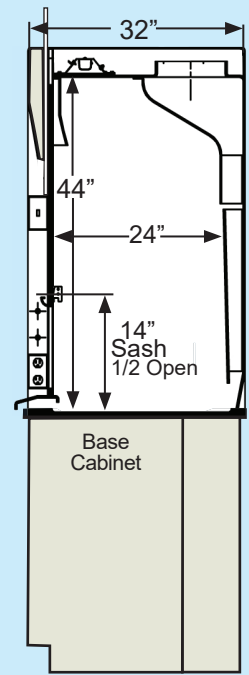
Sash Management & Design

Size Hood	36"	48"	60"	72"	96"
1/2 Open	241	385	474	592	800
1/2 Open Static Pressure	.04	.06	.10	.13	.08
Full Open	438	773	938	1162	1613

Sash Stop located at 1/2 open position to reduce air flow 50%,
Cat. No. 51651



Front View
Optional Services Shown



Side View