

UniFlow CE Laboratory Fume Hoods

Full Duty Fume Hoods in Compact Sizes

HEMCO



*HEMCO Introduces the new UniFlow CE Fume Hoods
Low Flow / Constant Volume / High Efficiency
laboratory fume hoods in 30", 36", and 48" widths*

Engineering Features of UniFlow CE Fume Hoods

These models are a low flow constant volume, LCV type fume hood that requires no VAV controls, no motorized baffles, no costly auxiliary air system and no special integral supply fans. These units can save 50% or more in costly exhaust volume typically

required to operate a conventional fume hood. The CE series accomplishes this superior containment performance through engineering and manufacturing features incorporated into the HEMCO line of UniFlow Laboratory Fume Hoods.

Compact Design Saves Space and Energy

UniFlow Superstructure

Exclusive unitized composite construction for superior chemical resistance, strength, and durability.

Fume Chamber

Molded one piece with all corners coved. Surface is glass smooth for ease of cleaning and excellent light reflectivity.

Vertical Moving Sash

Made of 1/4" tempered safety glass with chemical resistant PVC framing counter balanced for ease of movement.

Ergonomic Sash Lift

Contoured for efficient airflow and ease of movement

Service Fixtures

Color coded to specific service and mounted on right or left side. Electrical services also available.

Air Foil

Ergonomic aerodynamic design allows air to sweep across the worksurface and maintain uniform airflow.

Base Cabinet

Available in standard base, acid storage and base tables.

Access Panel

Easily removed for access to electrical, plumbing and control services.

AirFlow Monitor

Continuously monitors face velocity airflow of fume hood.

Extended Viewing Height

Full 26.5" height allows unobstructed vision into fume chamber.

VaraFlow Baffle System

Maintains uniform airflow through fume chamber.

Safety Sash Stop

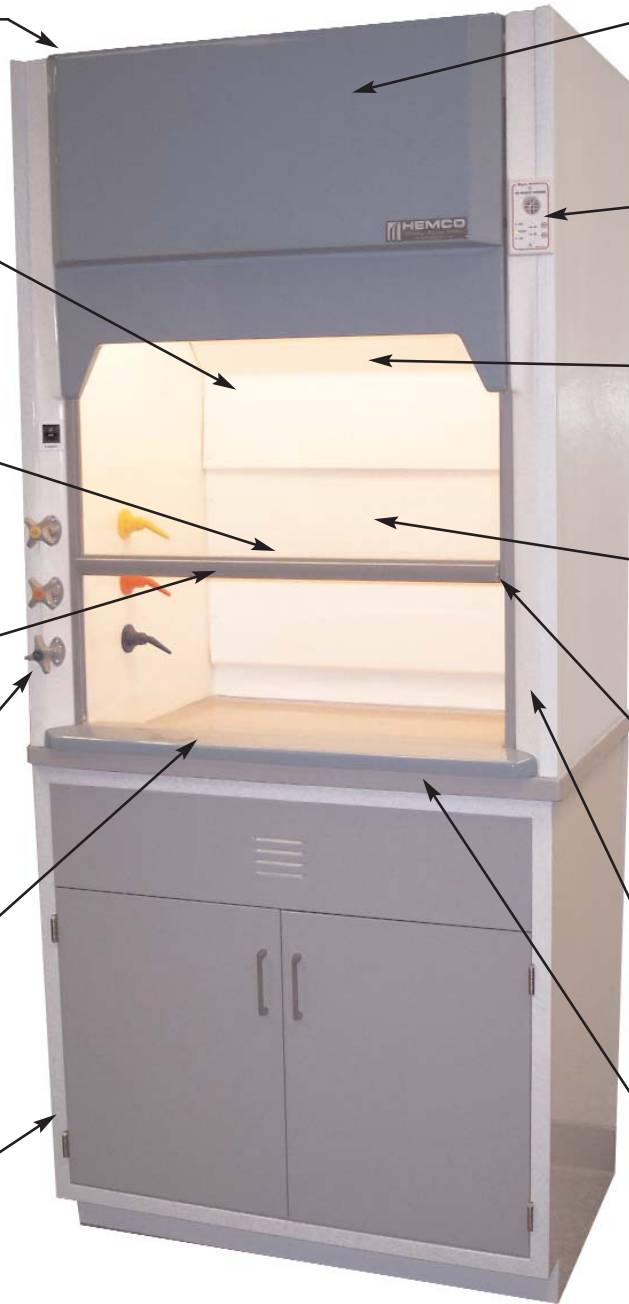
Limits sash opening to designed working height providing user protection and energy savings.

Angled Picture Frame Opening

Efficient air entry into fume chamber.

Worksurface

Chemical resistant composite construction 1.25" thick, work area is dished to contain spills.



Performance Tested to Ashrae 110 -1995

UniFlow CE Model #14811 tested at 60 FPM & 100 FPM Face Velocity. Flow visualization (smoke test) small local challenge and large challenge were tested with "no escape". The SF-6 containment test was

conducted with the average parts per million of 0.001 PPM. The complete Ashrae 110-1995 test report is available. For a copy, please call HEMCO Customer Service 816-796-2900. Thanks!

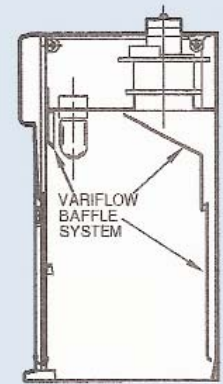
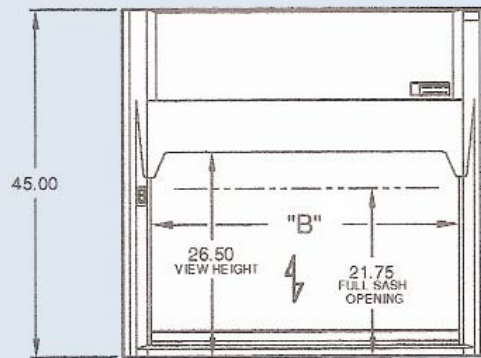
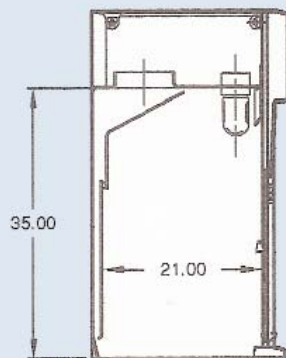
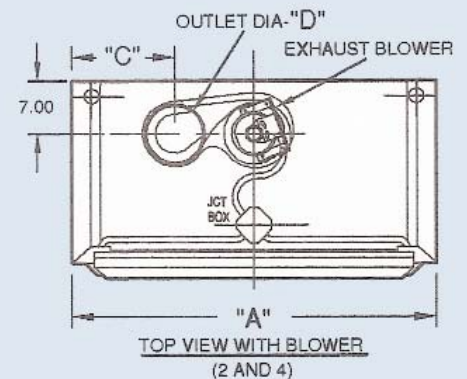
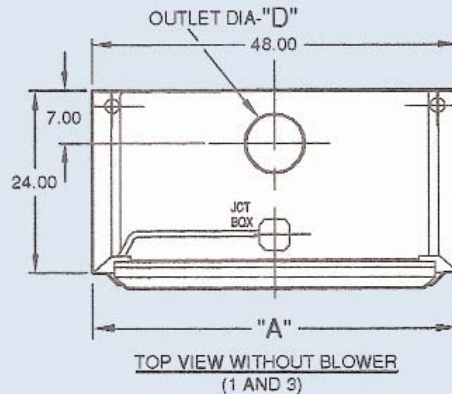
UniFlow High Efficiency Compact Laboratory Fume Hoods

CE COMPACT FUME HOOD Specifications	30" wide	36" wide	48" wide
1. UniFlow CE Compact Hood with Vapor Proof Light The unitized superstructure features a molded seamless fume chamber with all corners covered. Manufactured of flame retardant, chemical resistant composite resin using a minimum of metallic parts. Viewing sash is constructed of 1/4" clear tempered safety glass with frame and track fabricated of chemical resistant PVC. Equipped with variflow baffle system to efficiently direct air through the fume chamber. Baffle is easily removed for cleaning. Vapor proof, light fixture with column mounted light switch. All electrical services are U.L. & C.S.A. listed and factory wired to junction box. Hood is shipped completely assembled. This Hood system requires a remotely located exhaust blower (See Page 4)	Cat. No. 13091	Cat. No. 13691	Cat. No. 14891
2. UniFlow CE Compact Hood with Vapor Proof Light and Built-In Exhaust Blower. Same as above, except equipped with built-in chemical resistant composite blower with polypropylene impeller wheel and column mounted control switch. Blower motor is 115 volt 60 Hz, A.C. Blower and switch are U.L. listed and factory wired to junction box. Max 12' duct run.	Cat. No. 13092	Cat. No. 13692	Cat. No. 14892
3. UniFlow CE Compact Hood with Explosion Proof Light. Same as No. 1, except equipped with explosion-proof light. Class 1, Group C & D, Class II, Group E,F,G. Installed but not wired. Must be wired to comply with local codes. U.L. listed. Switch not included. This Hood system requires a remotely located exhaust blower (See Page 4)	Cat. No. 13093	Cat. No. 13693	Cat. No. 14893
4. UniFlow CE Compact Hood with Explosion Proof Light and Built-In Explosion Proof Exhaust Blower. Same as No. 2 above, except equipped with explosion-proof exhaust blower and explosion proof light. Motor 115 volt, 60 Hz, A.C. Class 1, Group C & D, Class II, Group E,F,G. Blower and light fixture installed but not wired. Must be wired to comply with local codes. U.L. listed. Switches not included. Max 12' duct run.	Cat. No. 13094	Cat. No. 13694	Cat. No. 14894

UNIFLOW CE FUME HOODS

FUME HOOD SIZES			
A	30"	36"	48"
B	23.5"	28.5"	40.5"
C	7"	10"	16"
D	4"	6"	8"

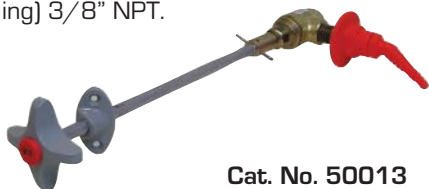
EXHAUST AIR VOLUME REQUIRED			
1. FOR 100 FPM AT SASH FULL OPEN.			
2. FOR 100 FPM AT SASH 1/2 OPEN.			
	30"	36"	48"
1.	378CFM	460CFM	654CFM
2.	189CFM	230CFM	327CFM



Accessories

SERVICE FIXTURE

Remote control single service fixture with serrated hose tip. Color coded service (specify air, gas, vac, etc. coding) 3/8" NPT.



Cat. No. 50013

SERVICE FIXTURE

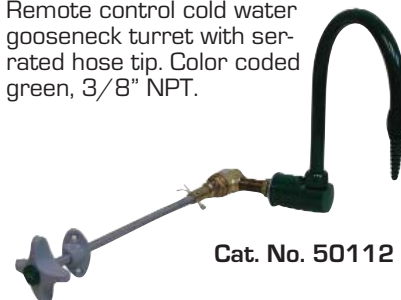
Remote control cold water turret with serrated hose tip. Color coded green, 3/8" NPT.



Cat. No. 50012

SERVICE FIXTURE

Remote control cold water gooseneck turret with serrated hose tip. Color coded green, 3/8" NPT.



Cat. No. 50112

FUME HOOD WORKSURFACES



Chemical resistant composite resin construction. 1.25" thick and dished to contain spills. 24" Depth. Factory mounted, when ordered with fume hood.

Width	30"	36"	48"
Cat. No.	13017	13617	14817



SINKS

Chemical resistant polyolefin sinks are molded with drop in mounting and 1.5" IPS Outlet. When ordered with work surface, sink molded at specified location.

A	B	Depth	Cat. No.
12" x 8"	x 8"		72041
18" x 15"	x 12"		72045
14" x 10"	x 6"		72043

FUME HOOD BASE CABINETS



All welded steel construction with white chemical resistant finish. Height 35" Depth 22". Doors are color matched to fume hood color: pearl white, silver beige, pewter gray, or zircon blue.

Width	30"	36"	48"
Cat. No.	53011	50311	50411



CUP SINK

Chemical resistant polyolefin 3" x 6" oval sink with 1.5" IPS Outlet. When ordered with work surface, cup sink can be molded at specified location.

Size
3" x 6" **Cat. No. 40119**

AIRFLOW MONITOR



Continuously monitors face velocity airflow of fume hood. Select and calibrate at desired FPM velocity set point. If the hood face velocity falls below the set point an audible alarm sounds and a visual red indicator light appears. Airflow alarm is factory installed or can be field installed. Complete instructions are provided, 115 volt 60Hz

Cat. No. 51406

FUME HOOD ACID STORAGE CABINETS



All welded steel construction with white chemical resistant finish. Interior of cabinets is lined with chemical resistant panels and sealed. Height 35" Depth 22". Doors are color matched to fume hood color: pearl white, silver beige, pewter gray, or zircon blue.

Width	30"	36"	48"
Cat. No.	15300	15030	15040

ELECTRICAL RECEPTACLE



Installed in service column and wired to electric junction box 115V. Specify 15amps or 20amps.

15amps
20amps **Cat. No. 50019-1**
50019-2

SAFETY SASH STOP

Factory installed to specified designated height. Also available for field installation.



Cat. No. 51651

FUME HOOD BASE TABLES



All welded 2" steel tube construction with chemical resistant finish. Height 35" Depth 22".

Width	30"	36"	48"
Cat. No.	53022	53622	54822

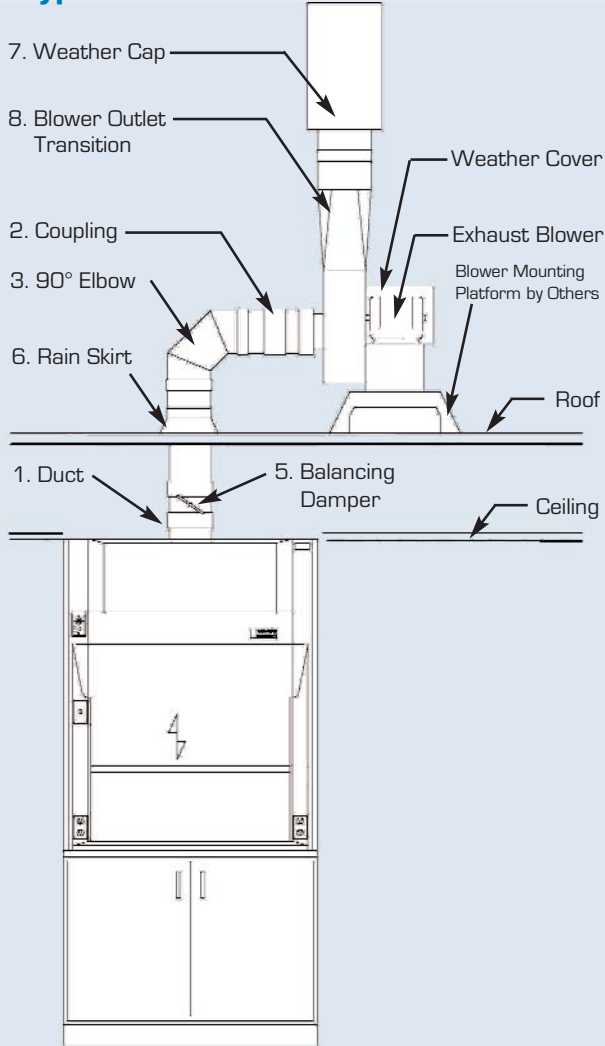


FIRE EXTINGUISHER

Installed in top of fume chamber to protect from potential flammable accidents. Class A, B and C fires. Factory installed, when ordered with fume hood. Also available for field installation.

2.7 lb. Cat. No. 53050

Typical Exhaust Duct Installation



Engineered Exhaust Systems



Exhaust Blowers

Exhaust Blowers

Epoxy coated, steel belt drive with adjustable sheaves and weather cover

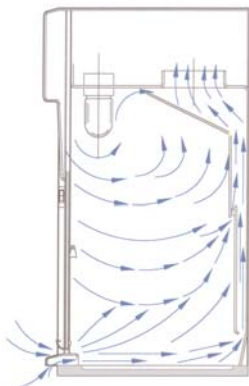
Exhaust Air Volume Required for 100 FPM with sash fully open

30" Hood	36" Hood	48" Hood
378 CFM	460 CFM	654 CFM
Cat. No. 51701	Cat. No. 51705	Cat. No. 51709

Note: Explosion-proof and models for 50% sash open are available.

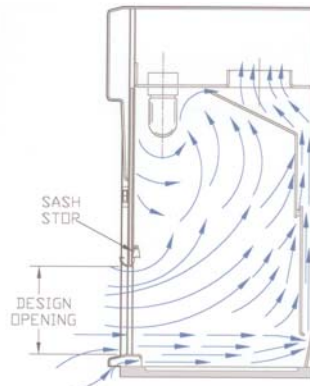
PVC DUCTING	Diameter	4"	6"	8"
		Cat. No.	Cat. No.	Cat. No.
1. Rigid Ducting (10 ft. lengths)		82004	82006	82009
2. Coupling		82147	82149	82153
3. 90° Elbow		82060	82061	82063
4. 45° Elbow		82082	82083	92085
5. Balancing Damper		82450	82452	82454
6. Rain Skirt		82328	82330	82332
7. Weather Cap		82350	82352	82354
8. Blower Outlet Transition		82250	82251	82252
9. Flex Ducting (12 ft.)		80051	80052	80053

Reduced Face Velocity Airflow of Compact Fume Hood



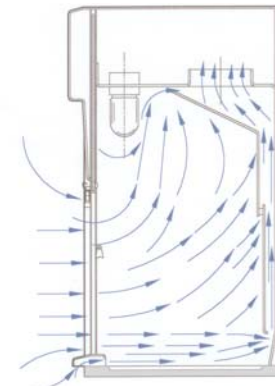
SASH CLOSED

Majority of air flow is through the bypass and directed into the fume chamber. Air also flows under and over the air foil sweeping across the work surface area. Sash should be kept in the closed position when not in use and for maximum user protection.



SASH 50% OPEN

As sash is raised to 50% open the auto bypass is closed and the airflow is through the sash opening. Air also flows over and under the air foil sweeping across the work surface area. This provides reach in access to work area plus user viewing protection through the sash. Maximum airflow efficiency through fume chamber is at the designed opening height.



SASH FULL OPEN

Sash in the full open position is for loading and setting of equipment and for cleaning. The sash stop is released to raise the sash to the full open position. This is the most unsafe condition to be using a fume hood. The lab safety officer should be aware when a fume hood has the sash full open. User should not extend their head into the fume chamber.

Complete UniFlow Line of Fume Hoods



UniFlow SE Low Flow Constant Volume High Efficiency Fume Hoods available in 48", 60", 72", 96" width models



UniFlow LE Low Profile Constant Volume Fume Hoods cost effective hood series available in 48", 60", 72", 96" width models



UniFlow FM Floor Mount Fume Hoods offered in 48", 60", 72", 96" width models either 30", 36", or 48" depth

HEMCO ALSO HAS LITERATURE AVAILABLE ON THESE PRODUCTS



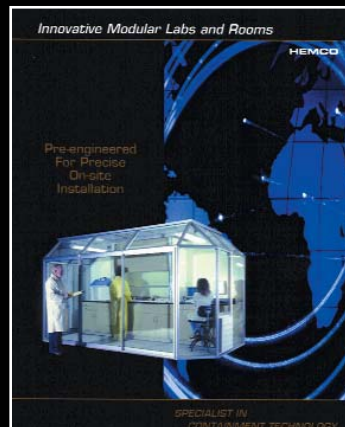
FUME HOODS

Extensive selection of sizes and styles



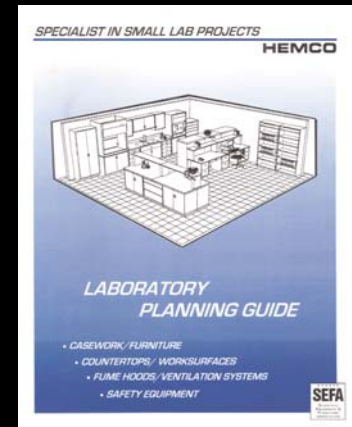
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