

UniMax™ Large Floor Mount (Walk-In) Fume Hoods



- ✓ **UniMax Fume Hoods**
- ✓ **HazMax Fume Hoods**
- ✓ **Access Door/Sash Options**
- ✓ **Plumbing/Electrical Services**
- ✓ **Exhaust/Ventilation Services**
- ✓ **Filter/Scrubber Services**

UniMax Floor Mounted (Walk-in) Hoods

UniMax Floor Mounted (Walk-in) Hoods are designed to safely isolate materials and procedures from the surrounding area and exhaust hazardous fumes.

Chemical Resistant Modular Construction

UniMax Floor Mounted Hoods are supplied in standard models from 6' to 24' wide in various depth and height options. The unique modular construction features 2" thick walls that have chemical resistant composite resin surface panels. This also allows the hood to ship knockdown and able to be moved through standard lab entry doors for onsite erection. The hood can also be shipped totally assembled if preferred. Should needs change, the hood can be disassembled, moved, and re-erected.

Flexible and User Friendly Design

UniMax Hoods can be equipped with design features that fit the particular process or procedure being performed in the hood.

- ✓ A wide selection of doors/sashes are available, with front and rear access.
- ✓ Pass-throughs and windows on side walls are optionally available.
- ✓ Electrical and plumbing services can be factory installed.
- ✓ Optional floors and basins are supplied with raised grate decking.
- ✓ Internal tables can be fabricated to meet specific size and load requirements.



Built To Your Project Requirement

Equipped with either recessed fluorescent lighting or explosion proof lighting to meet the needs of the work area. Chemical resistant exhaust blowers are supplied for standard or explosion proof specifications and sized to meet the desired airflow requirements and ventilation static pressure parameters. These features ensure the safety of the user and the process.



HazMax Floor Mounted Hoods

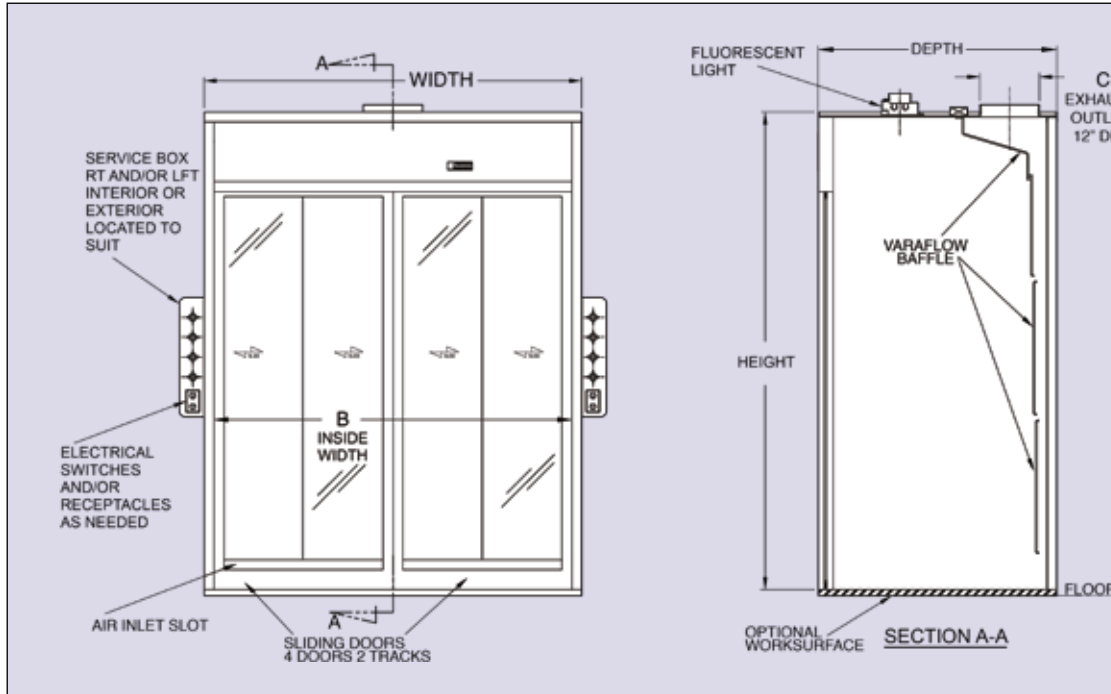
HazMax Floor Mounted Hoods are differentiated by having a molded one-piece seamless composite resin spill containment basin. The basin is 6" high and includes a raised fiberglass deck grating. An optional ramp can be supplied for roll up/in access.

HazMax Spill Containment

- ✓ Lower basin is of molded one piece seamless chemical resistant composite resin construction to safely contain accidental spillage.
- ✓ Raised deck grating is of chemical resistant fiberglass material that allows spillage to flow through to basin below.
- ✓ Convenient lift out grating allows access to basin for cleaning and decontamination.
- ✓ Lower basin can be engineered to accommodate fork lift requirements.
- ✓ Raised deck grating and reinforcement is engineered to meet the anticipated weight loads.
- ✓ The lower basin can be engineered to contain a specified volume.
- ✓ Ramp with non-skid surface, 36" wide.

UniMax Specifications

Select a UniMax hood size.



WIDTH	HEIGHT	DEPTH	
		48"	72"
6'	8'	60848	60872
	10'	61048	61072
	12'	61248	61272
8'	8'	80848	80872
	10'	81048	81072
	12'	81248	81272
10'	8'	100848	100872
	10'	101048	101072
	12'	101248	101272
12'	8'	120848	120872
	10'	121048	121072
	12'	121248	121272
16'	8'	160848	160872
	10'	161048	161072
	12'	161248	161272
20'	8'	200848	200872
	10'	201048	201072
	12'	201248	201272
24'	8'	240848	240872
	10'	241048	241272
	12'	241248	241272

UniMax Entry Access Doors

Select the type of door required. Add FG, UG, FS, SC as suffix to Hood Model Number.

✓ **FG – Framed Glass Door with Overhead Suspension (see top page 1)**

Supplied with (4) doors on (2) tracks, doors slide horizontally in an overhead track assembly. A threshold is not required, allowing equipment to be easily rolled into the hood. A floor plate 0.25" high serves as the guide for the doors. Framing is of clear anodized aluminum and the glazing is of 0.1875" thick safety tempered glass or clear acrylic. Overhead trolleys move very easily and all hardware including handles are provided. Air inlet slots are located at the base and top of each door. *Note – Depending on the front opening size of the hood, a center post may be required for structural support.*

✓ **UG – Unframed Glass Door with Overhead Suspension (see back cover)**

Supplied with (4) doors on (2) tracks, doors slide horizontally in an overhead track assembly. A threshold is not required allowing equipment to be easily rolled into the hood. Floor guides are provided to keep doors in proper positions. The glazing is of 0.50" thick safety tempered glass or clear acrylic. Overhead trolleys move very easily and all hardware including handles are provided. Air inlet slots are located at the base and top of each door panel. *Note – Depending on the front opening size of the hood, a center post may be required for structural support.*

✓ **FS – Framed Glass Door with Floor Sliding Track (see top page 5)**

Supplied with (4) doors on (2) tracks, doors slide horizontally in a lower floor track. The floor track threshold is 0.75" high. The glazing is of 0.25" thick safety tempered glass or clear acrylic. Doors slide on lower rollers and all hardware including handles are provided. Air inlet slots are located at the base and top of each door panel. *Note – Depending on the front opening size of the hood, a center post may be required for structural support.*

✓ **SC – Strip Curtains (shown at right)**

Clear vinyl strip curtains provide containment in addition to the ability to move drums, cylinders, or equipment easily through for processing or storage. Curtains are .040 mil thick with typically a 2" overlap. Curtains mount and suspend from an overhead track that allows convenient removal for changing or decontamination. Curtains hang to within 6" above the floor, however, depending on the airflow volume, the gap may be greater or less. Static dissipative, colored, or opaque curtains are optional. Curtains can also be mounted on overhead sliding tracks for clear unrestricted entry.

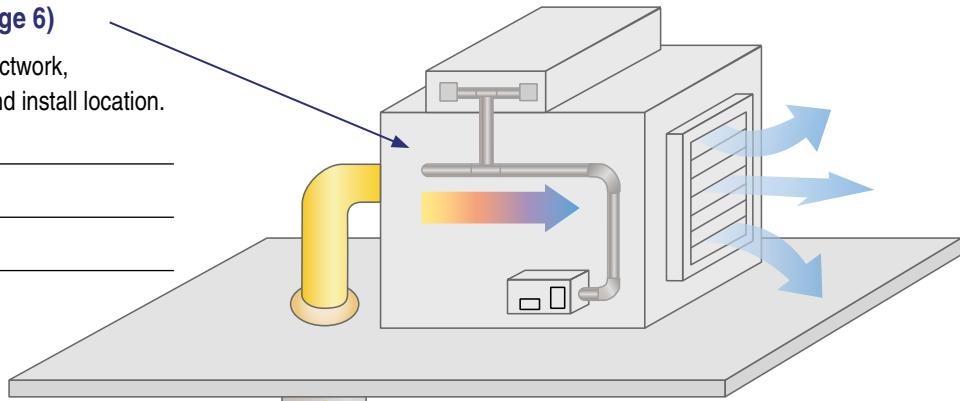


UniMax/HazMax Specification Planner

Diagrams of a HazMax Fume Hood system illustrating accessory services and their typical locations.

Fume Scrubbers (page 6)

Specify contaminant, ductwork, concentration volume and install location.



Exhaust Blowers (page 6)

Specify duct length, elbows, inline filters and face velocities.

CleanAir Filter Paks (page 6)

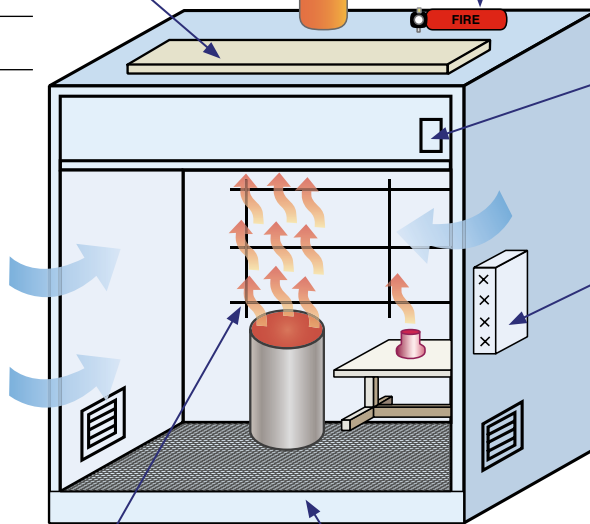
Specify HEPA or carbon, and CFM.

Lighting Services (page 4)

Standard, vapor-proof fluorescent or explosion-proof

Fire Extinguisher (page 5)

Specify fume or vapor



Airflow monitor

Specify analog or digital

Service Module (page 4)

Specify type and quantity of electrical or plumbing service

Apparatus Grid (page 5)

FRP, Aluminum or stainless steel. Specify height, width and weight load.

Containment basin (page 4)

Molded one-piece with raised deck grating. Specify equipment weight load

UniMax Electrical Services

Select the type of lighting required. Add "F," "EP," or "UV" as suffix.

Fluorescent Lighting

Light fixture is mounted external behind a clear lens panel. Fixture is standard 4', (2) tube, 115v, with tubes changed from the outside. Fluorescent tubes are not included. UL listed. Model #50248



UV Light

Light fixture is mounted internal to the fume chamber. Fixture is standard 4', (2) tube, 115v with tubes changed from inside the hood. Ultra-violet tubes are included. (Note the UV intensity needs to be specified) UL listed. Model #50348



Explosion Proof Light

For use in hazardous locations. Gray epoxy coated finish with easily removed prismatic globe from inside the fume chamber. Accepts incandescent bulb up to 300 watts. 115v or 230v. Bulb not included. UL listed. Model #50038



Electrical Services



Duplex Receptacle

115 V single phase receptacle. Installed on front column of fume hood. Includes junction box and cover plate. UL listed. Cat. No. 50029-1 (15 amps)
Cat. No. 50029-2 (20 amps)



Single Receptacle

230 V single phase receptacle. Installed on front column of fume hood. Includes junction box and cover plate. UL listed. Cat. No. 50029-1 (15 amps)
Cat. No. 50029-2 (20 amps)



Ground Fault Interrupter

Consists of combination ground fault interrupters and two duplex, 3-wire polarized grounded. Includes junction box and cover plate. UL Listed. Cat. No. 50048-1 (15 amps)
Cat. No. 50048-2 (20 amps)



Light Switch

15 amps. Includes junction box and cover plate. UL listed. Cat. No. 50028-1

Explosion Proof Services (Class I Group C & D, Class II Group E, F & G)



Explosion-Proof Switch

For use in hazardous locations. Surface mount type with cast iron housing. 120 V-240 V, 20 amp. UL listed. Cat. No. 50036



Explosion-Proof Receptacle

For use in hazardous locations. Surface mount type with aluminum housing, 3-pole, 2-wire, 115 V-230 V, 20 amp. UL listed. Cat. No. 50037



Explosion-Proof Plug

Plug is adaptable for use with all receptacles. 3-pole, 2-wire, 115/230 V AC, 20 amp. UL listed. Cat. No. 50039



Explosion-Proof Junction Box

For use in hazardous locations. For use on explosion-proof motors and blowers. Has hole for self-tapping ground screw. UL listed. Cat. No. 50049

UniMax Plumbing Services



DI Faucet

6" rigid PVC gooseneck for distilled water. Cat. No. 50019



Water Faucet

Cold water remote controlled 6" swivel gooseneck. Turret and gooseneck are epoxy coated brass. Cat. No. 50112-CW



DI Faucet

Distilled water tin-lined outlet with flange and shank connection. Epoxy coated brass. Cat. No. 50123-DI

Electrical Service Port Pass-Through

Convenient port with a removable cap allows cords, tubes, or cables to pass into and out of the hood.

Cat. No. 50100



Electrical Plumbing Service Module

Houses electrical and plumbing controls on the exterior side wall of the hood. Sized to accommodate the number of fixtures.

Cat. No. 50200



Service Fixture

Cold water, remote controlled epoxy coated brass turret. Cat. No. 50112



Service Fixture

Remote controlled single service outlet. Color-coded index buttons with matching color coded serrated tip outlets. Cat. No. 50113



Oval Wall Cupsink 9" x 3"

Polypropylene with 1-1/2" IPS tailpiece and outlet strainer. Cat. No. 40419

Work Surfaces / Floor Options

Optional UniMax floor surfaces

✓ Epoxy Resin

Molded of thermosetting epoxy resin, these worksurfaces are 1" thick and recommended where greater chemical resistance is required. Surfaces are extremely hard, abrasive and heat resistant. Surface is flat and standard color is black. Consult factory for the option of having a raised perimeter ledge for spill containment.

✓ Phenolic Resin

Surfaces provide excellent chemical, thermal, and wear resistance. Surfaces are 1" thick and flat (not dished). Standard color is black. Consult factory for the option of having a raised perimeter ledge for spill containment.

✓ Stainless Steel

Fabricated of type 304, 16 gauge stainless steel with a #4 satin finish. All corners, ends and joints are continuous heliarc welded and ground smooth. Surface is flat 1" thick and reinforced for equipment load.



Worksurface / Floor



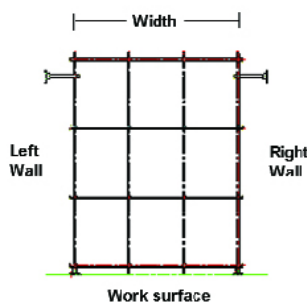
Fume Hood Fire Extinguisher

For applications where flammable or explosive situations are present, this fume hood fire extinguisher provides protection against Class A, B, and C fires. Size and quantity of fire extinguishers is based on the size of the UniMax Hood.

A remote system status indicator light, remote audible discharge alarm, and a manual front discharge cable are options that can be supplied with a fire extinguisher system.

Distillation Apparatus Grid

Offered in aluminum, stainless steel, and nonmetallic composite plastic. Includes rods and all connectors. The 76" hood requires one (1) 6' assembly, the 100" hood requires two (2) 4' assemblies, and the 148" hood requires three (3) 4' assemblies. Factory installed when ordered with hood. May be field installed.



	76" width		100" width		112" width		148" width	
	Qty	Cat. No.	Qty	Cat. No.	Qty	Cat. No.	Qty	Cat. No.
1. Aluminum Rod Assy	(1)	50261	(2)	50251	(2)	50251	(3)	50251
2. Stainless Steel Assy	(1)	50262	(2)	50252	(2)	50252	(3)	50252
3. Plastic/FG Rod Assy	(1)	50263	(2)	50253	(2)	50253	(3)	50253

HEPA / Carbon Filters

Determine if a filtration system is required.



HEMCO HEPA Filter Pak

HEMCO HEPA filter pack is designed to collect airborne particulate from the exhaust airstream. HEPA Filter Paks are sized meet the airflow requirements.

HEMCO Carbon Filter Pak

HEMCO Carbon Filter Pak is engineered to absorb and remove undesirable fumes and odors from the exhaust airstream. Carbon Filter Paks are sized to meet the airflow requirement.

Note – Bag-in Bag-out HEPA and carbon filters are available for hazardous applications.

PVC Ducting

Determine the length of the ductwork and the number of elbows in the proposed exhaust system from the hood to the outside. HEMCO offers chemical resistant rigid PVC ducting and all component accessories to vent UniMax fume hoods. Examples shown are 12", other sizes available.



90° Elbow
Cat. # 80055



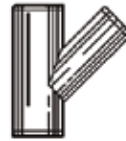
Rigid Ducting
Cat. # 82013



Balancing
Damper
Cat. # 82458



Coupling
Cat. # 82159



45° Wye
Cat. # 82233



Rain Skirt
Cat. # 82336



Weather Cap
Cat. # 82358

Exhaust Blowers

HEMCO exhaust blowers are sized to meet a specific exhaust application. To ensure correct airflow, it is imperative that the exhaust ventilation systems be specified to determine the total project static pressure loss.

HEMCO exhaust blowers are constructed of either economical epoxy resin coated steel or welded PVC. Blowers are beltdrive, standard or explosion proof, include weather cover and drain, and can be 115 V, 230 V or 460 V; 1 ph or 3 ph, 50 Hz or 60 Hz.



Fume Scrubbers

Fume Scrubbers provide excellent air pollution control for water soluble fumes and odors by moving contaminated air through a filter pack media exposing over forty square feet of surface per cubic foot. Contaminant is collected on filter media surface and rinsed off with water. Excess water is then mechanically removed and cleaned air is released. When conditions require, chemical additives can increase absorptive capacity of the scrubber. Unit includes integral recirculation tank and pump which significantly reduces water consumption and related waste disposal costs. Fan is not included, must be sized to meet exhaust requirements.



Roof-mounted without ducting option, if required.





UniMax Double Entry Floor Mounted Hood
 196" wide x 132" high x 60" deep. Entry is 90" wide by 114" high on each side with 3/8" thick Uniframed tempered safety glass sliding doors.



Other HEMCO product brochures available at www.HEMCOcorp.com



UniFlow
 Laboratory Fume Hoods
 Catalog



EnviroMax
 Enclosures for Robotic
 and Automated Lab
 Processes



UniLab
 Modular Lab & Room
 Brochure



Clean Rooms
 Innovative Clean Room
 Concepts Brochure

HEMCO

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