

HEMCO

Laboratory Planning Solutions[®]

UniMax™ Walk-In Fume Hoods



BETATEK INC.

Instrumentation Superbly Supported

L'instrumentation à son meilleur

654 Petrolia Road,
Toronto, ON M3J 2W3
Tel: (416) 736-6166
Toll-Free: (800) 387 3570
Fax: (416) 736-9346

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

by **HEMCO®**



UniMax 8' X 6' X 12'
Catalog No. 81272/UG/F

UniMax Fume Hoods are designed to safely isolate large scale processes, oversized equipment, and tall distillation apparatus.

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.



UniMax 16'w X 6'd X 12'h
(UG)unframed glass door
(F) vapor proof fluorescent lighting
& center wall divider. Cat No.161072

Chemical Resistant Modular Construction

UniMax floor mounted hoods are supplied in standard models from 6' to 24' wide, with various depth and height options. The unique modular construction features 2" thick walls that have chemical resistant composite resin or stainless steel surface panels. This also allows the hood to ship disassembled and able to be moved through standard lab entry doors for on site assembly.

Built To Your Project Requirement

Equipped with either recessed fluorescent lighting or explosion proof lighting to meet the needs of the work area.

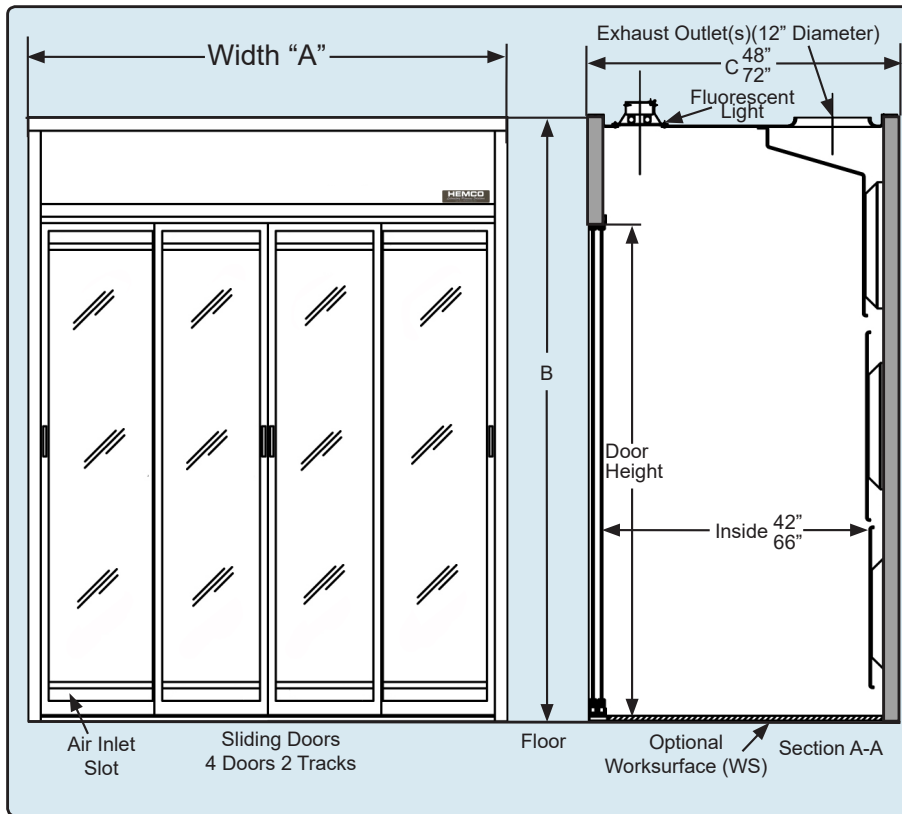
Fire Suppression System

Recommended for potentially flammable or volatile applications. Designed to meet the NFPA Standard for Dry Chemical Extinguishing systems NFPA-17, UL 1254 standard for Pre-Engineered Dry Chemical Extinguishing system units, and sized to fit specific interior cubic dimensions of UniMax



UNIMAX(WALK-IN)HOODSDESCRIPTIONS

Select a UniMax hood size. A. select height, B. select width, C. select depth



Dimensions		Depth C		Number of Exhaust Outlets
Width A	Height B	48" outside 42" inside	72" outside 66" inside	
6'	8'	60848	60872	(1) 12" Dia
	10'	61048	61072	
	12'	61248	61272	
8'	8'	80848	80872	(2) 12" Dia
	10'	81048	81072	
	12'	81248	81272	
10'	8'	100848	100872	(2) 12" Dia
	10'	101048	101072	
	12'	101248	101272	
12'	8'	120848	120872	(3) 12" Dia
	10'	121048	121072	
	12'	121248	121272	
16'	8'	160848	160872	(4) 12" Dia
	10'	161048	161072	
	12'	161248	161272	
20'	8'	200848	200872	(5) 12" Dia
	10'	201048	201072	
	12'	201248	201272	
24'	8'	240848	240872	(6) 12" Dia
	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

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.

✓ UG - Unframed Glass Door with Overhead Suspension

Supplied with (4) doors on (2) tracks, doors slide horizontally in an over head 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.

✓ FS - Framed Glass Door with Floor Sliding Track

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.

✓ SC - Strip Curtains

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.



UniMax 8' X 8' X 10'
Catalog No.# 80848/FS/F

HAZMAX CONTAINMENT BASINS

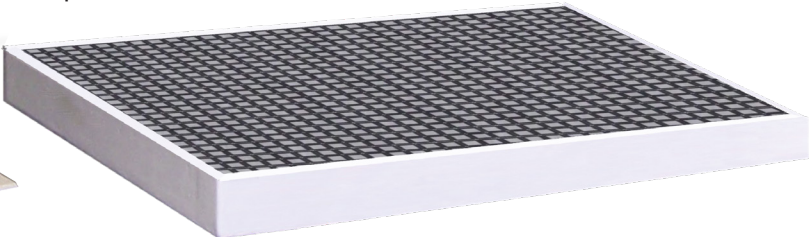
HazMax Floor Mounted Hoods have a molded one-piece seamless composite resin spill containment basin. The basin is 8" high and includes a raised fiberglass deck grating. An optional ramp can be supplied for roll up/in access.

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. Self draining to a single point drain. Engineered to meet the anticipated weight loads.
- ✓ Convenient lift out grating allows access to basin for cleaning and decontamination.
- ✓ Lower basin can be engineered to accommodate fork lift requirements.
- ✓ The lower basin can be engineered to contain a specified volume.
- ✓ Ramp with non-skid surface, 36" wide.



UniMax 6' X 10' X 10'
Catalog No.# 608721/FS/F
with HazMax Basin & Ramp



HAZMAX SPILL CONTAINMENT BASIN

For Containment basin add suffix CB to UNIMAX model #

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

WORK SURFACES / APPARATUS GRIDS

Optional UniMax floor surfaces, and Apparatus Grids

✓ Epoxy Resin (ER-Worksurface)

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 (PR-Worksurface)

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.

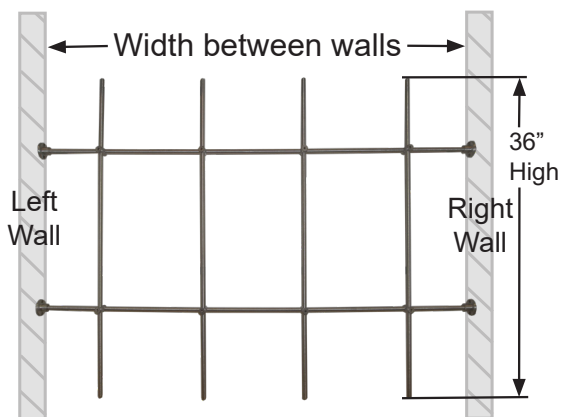
✓ Stainless Steel (SS-304 Worksurface)

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.



UniMax 8' X 8' X 10'
Catalog No.# 80848/FS/WS/F
shown with worksurface and apparatus grid

DISTILLATION APPARATUS GRID



Offered in aluminum, stainless steel, and non-metallic 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.

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

ELECTRICAL PLUMBING SERVICE MODULE/AIR FLOW MONITORS



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



Air Flow Monitor with Digital Display

Continuously monitors face velocity air flow of fume hood. A digital display of face velocity in m/sec or fpm that indicates safety reading with an audible alarm. Push button calibration and 3 programmable input/output relays. Factory installed or can be field installed.
Cat. No. 51410



Air Flow Monitor Analog

Continuously monitors face velocity air flow of fume hood. Select and calibrate at desired fpm velocity set point. If the hood face velocity falls below set point, an audible alarm sounds and a visual red indicator light appears. Air flow alarm is factory installed or can be field installed. 115V/60Hz AC.
Cat. No. 51406

UNIMAX ELECTRICAL & PLUMBING SERVICES

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

LED Light Fixture Energy Efficient, Long Life, LEED Compatible, 4 foot electrical cord, Available in (3) sizes, For SE or LE models.

Hood size 36"(1) & 48"(1) **24" Model #51124**
Hood size 60"(1) and 96"(2) **36" Model #51136**

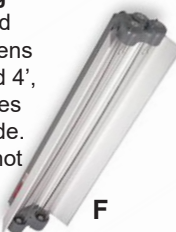
Hood size 72"(1) **48" Model #51148**



LED

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



F

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



UV

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, on explosion-proof motors and blowers. UL listed.

Cat. No. 50049



EP

Explosion Proof Light

For use in hazardous locations. Accepts incandescent bulb up to 300 watts. 115V or 230V. Bulb not included. UL listed.

Cat.No. 50038

UNIMAX PLUMBING SERVICES



DI Faucet PVC

6" rigid PVC gooseneck for distilled water.

Cat. No. 50019



DI Faucet TL

Cold water 6" swivel tin-lined gooseneck. Chrome plated brass.

Cat. No. 50022



DI Faucet TL

Distilled water tin-lined outlet with flange and shank connection. Chrome plated brass

Cat. No. 50122-DI



Water Faucet (Cold water)

remote controlled 6" swivel gooseneck. Turret and gooseneck are epoxy coated brass.

Cat. No. 50112-CW



Oval Wall Cupsink 9" x 3"

Polypropylene with 1-1/2" IPS tailpiece and outlet strainer.

Cat. No. 40419



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



Fume Hood Fire Extinguisher

For applications where flammable or explosive situations are present, this fire extinguisher provides protection against Class A, B, and C fires.

Cat. No. 53050



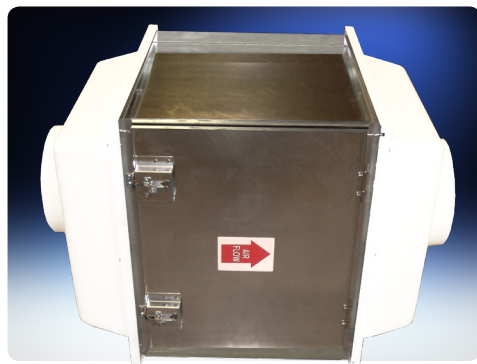
Cord Port Pass-Through

Allows cords, tubes or cables to pass to and from the fume hood. (Optional feature)

Cat. No 50100

UNIMAX VENTILATION SERVICES

Filtration, Blowers and Scrubbers for UniMax



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

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.

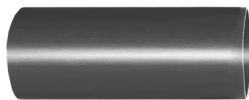
Note: Bag-in Bag-out HEPA and carbon filters are available for hazardous applications.

PVC DUCTING 12"

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 12"
Cat.No. 80055



Rigid Ducting 12"
Cat.No. 82013



Balancing Damper
Cat.No. 82458



Coupling 12"
Cat.No. 82159



45 Wye 12"
Cat.No. 82233



Rain Skirt
Cat.No. 82336



Weather Cap
Cat.No. 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 belt drive, 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 & FILTRATION

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.



*Replacement HEPA
or Carbon Filtration*

*Roof-mounted without
ducting option, if required.*





UniMax Double Entry Floor Mounted Hood # 161048/FG/F
196" wide X 132" high X 60" deep. Entry is 90" wide X 114" high on each side with 3/8" thick unframed tempered safety glass sliding doors.

Request a Free Brochure At www.HEMCOcorp.com and browse the entire selection of HEMCO Laboratory Equipment



New UniFlow Laboratory Fume Hoods Brochure



Laboratory Planning Solutions Complete Planning Guide



EnviroMax Enclosures for Robotic and Automated Lab Processes



Clean Rooms Innovative Clean Room Concepts Brochure

HEMCO is a corporate member of the following Professional Associations:



NSPE
National Society of Professional Engineers®



ASHRAE
American Society of Heating Refrigeration and Air-Conditioning Engineers



SEFA
Scientific Equipment and Furniture Association

HEMCO Corporation
711 S. Powell Road
Independence, MO 64056



Made in the U.S.A.

HEMCO®

ISO 9001:2008 Certified Company

Phone (816) 796-2900
Fax (816) 796-3333

www.HEMCOcorp.com

UniMax - 01.2017