

# Laboratory Planning Solutions®



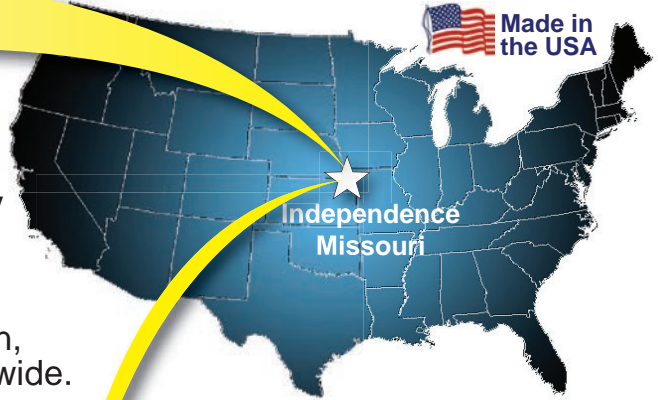
- ✓ **UniLine Laboratory Furniture**
- ✓ **UniFlow Laboratory Fume Hoods**
- ✓ **Laboratory Ventilation Systems**
- ✓ **Canopy Hood Systems**
- ✓ **Emergency Drench Shower**
- ✓ **EnviroMax Enclosures**

*EnviroMax Enclosures*





# Welcome to HEMCO®



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**HEMCO an ISO 9001:2015 Certified Company**

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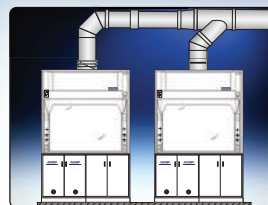
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# Laboratory Planning Solutions

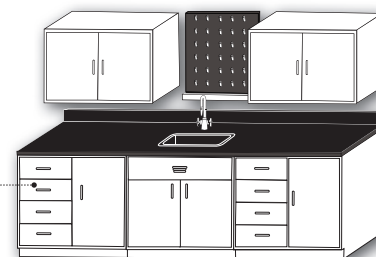


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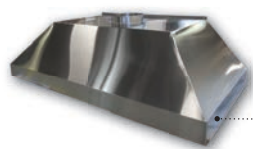
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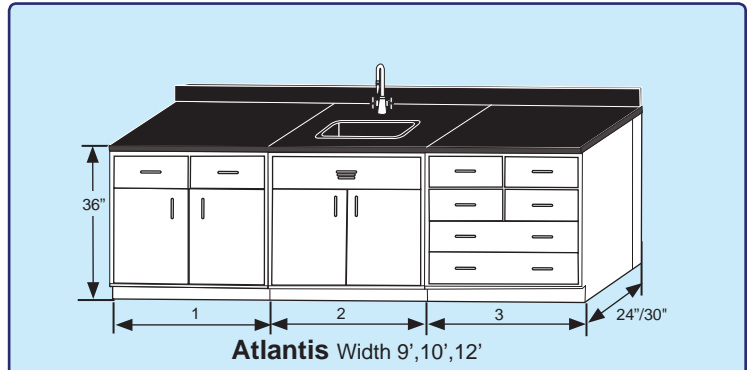
# Laboratory Furniture Groupings

UniLine design incorporates our most popular casework groupings to meet your laboratory needs. Welded steel with chemical resistant, epoxy powder coat finish, and 1" thick phenolic resin countertops, 4" high backsplashes, and flush ends standard. Standard height 36", ADA height 34", and sitting height 28" options are available. Standard color: Lab White. (Or color to your spec) Groupings can be supplied with optional Fume hoods.

## Atlantis Grouping

Atlantis Grouping provides basic lab storage & a versatile work area. Cabinet grouping includes 3 standing height cabinets with rear filler panels on both ends, phenolic resin worksurface 36" high, with 4" high back splash. Includes 16" X 12" X 8" sink and H/C gooseneck faucet.

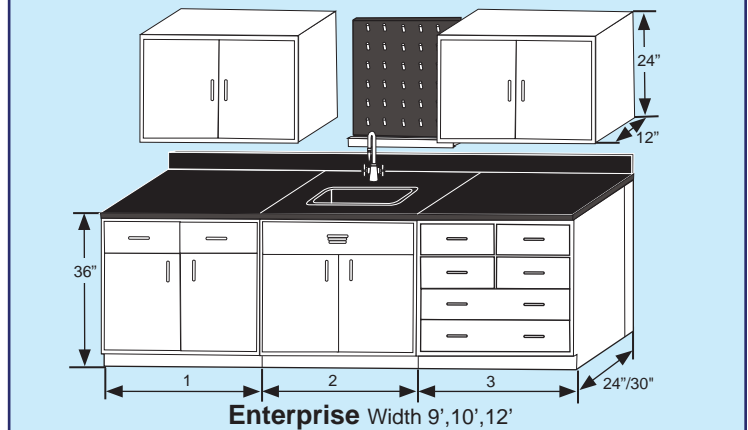
Atlantis Cabinet Grouping					
Width	1	2	3	24" Depth Cat. No.	30" Depth Cat. No.
9'	36"	36"	36"	70011	70021
10'	48"	36"	36"	70012	70022
12'	48"	48"	48"	70013	70023



## Enterprise Grouping

Enterprise Grouping provides a convenient balance of storage and work space. Cabinet grouping includes 3 standing height cabinets with rear filler panels, 2 wall cabinets, phenolic resin worksurface 36" high, with 4" high back splash. Includes 16" X 12" X 8" sink, 30" X 30" pegboard and H/C gooseneck faucet.

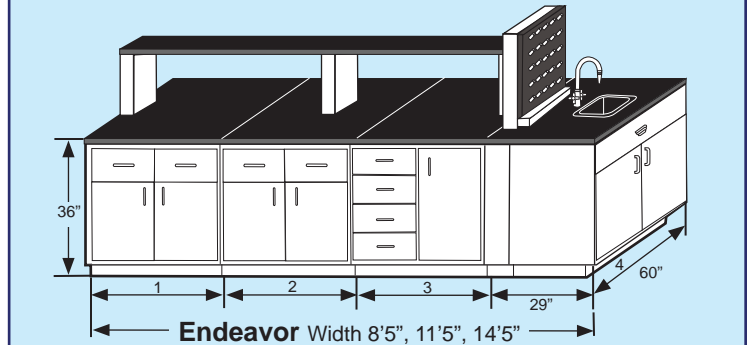
Enterprise Cabinet Grouping					
Width	1	2	3	24" Depth Cat. No.	30" Depth Cat. No.
9'	36"	36"	36"	70211	70221
10'	36"	48"	36"	70212	70222
12'	48"	48"	48"	70213	70223



## Endeavour Island Grouping

Endeavour Grouping is a flexible design that can serve as an island or peninsula layout. Cabinet grouping includes either 3 or 7 standing height cabinets with front and end filler panels, phenolic resin worksurface, and center island reagent shelf with pedestals and phenolic resin shelf. Includes 16" X 12" X 8" sink, 30" X 30" pegboard and H/C gooseneck faucet.

Endeavor Cabinet Grouping					
Width	1	2	3	4	Cat. No.
8'5"	36"	36"	—	60"	71311
11'5"	36"	36"	36"	60"	71312
14'5"	48"	48"	48"	60"	71313

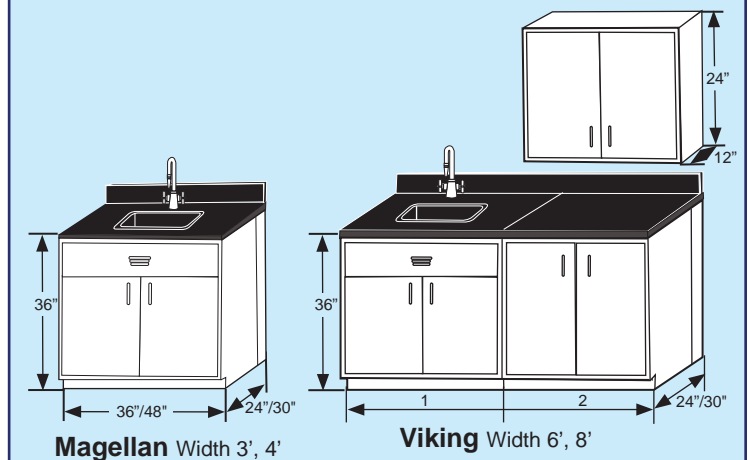


## Viking/Magellan Grouping

Viking Grouping is ideal for medical examination rooms and small lab requirements. Cabinet grouping includes 1 or 2 standing height cabinets, 1 wall cabinet 36" or 48" wide, 24" high 12" deep, phenolic resin worksurface. Includes 16" X 12" X 8" sink and H/C gooseneck faucet.

Viking Cabinet Grouping				
Width	1	2	24" Depth Cat. No.	30" Depth Cat. No.
6'	36"	36"	70413	70423
8'	48"	48"	70414	70424

Magellan Sink Cabinet Grouping				
Width	1	24" Depth Cat. No.	30" Depth Cat. No.	
36"	36"	70611	70621	
48"	48"	70612	70622	



# UniLine Furniture Groupings

Unitized design incorporates our most popular casework groupings to meet your laboratory needs. Welded steel with chemical resistant, epoxy powder coat finish, and 1" thick phenolic resin countertops, 4" high backsplashes, and flush ends standard. **ADA height 34" Max, and sitting height 28"**, options are available. Standard color: Lab White  
 For ADA technical information, including dimensions and standards, visit: [www.access-board.gov](http://www.access-board.gov).

## Pioneer Grouping

UniLine Pioneer Grouping combines typical lab storage and a fume hood. Cabinet grouping includes (4) 36" high cabinets, phenolic resin worksurface, with 4" high back splash. Includes 16" X 12" X 8" sink and H/C gooseneck faucet. UniFlow CE included on 24" deep models in widths of 36" & 48".

Pioneer Cabinet Grouping					
Length	1	2	3	4	24" Depth Cat. No. Includes CE hood
144"	36"	36"	36"	36"	70811
192"	48"	48"	48"	48"	70812

## Apollo Grouping

UniLine Apollo Grouping combines typical lab storage and a fume hood. Cabinet grouping includes (4) 36" high cabinets with rear filler panels on both ends, phenolic resin worksurface, with 4" high back splash. Includes 16" X 12" X 8" sink, H/C gooseneck faucet and pegboard. UniFlow SE Fume Hood included on 30" deep models in widths of 48" & 72".

Apollo Cabinet Grouping					
Length	1	2	3	4	30" Depth Cat. No. Includes SE Fume hood
144"	36"	48"	36"	36"	70830
156"	36"	48"	48"	36"	70831
192"	48"	48"	48"	48"	70832
216"	48"	48"	72"	48"	70833

## Mariner Grouping

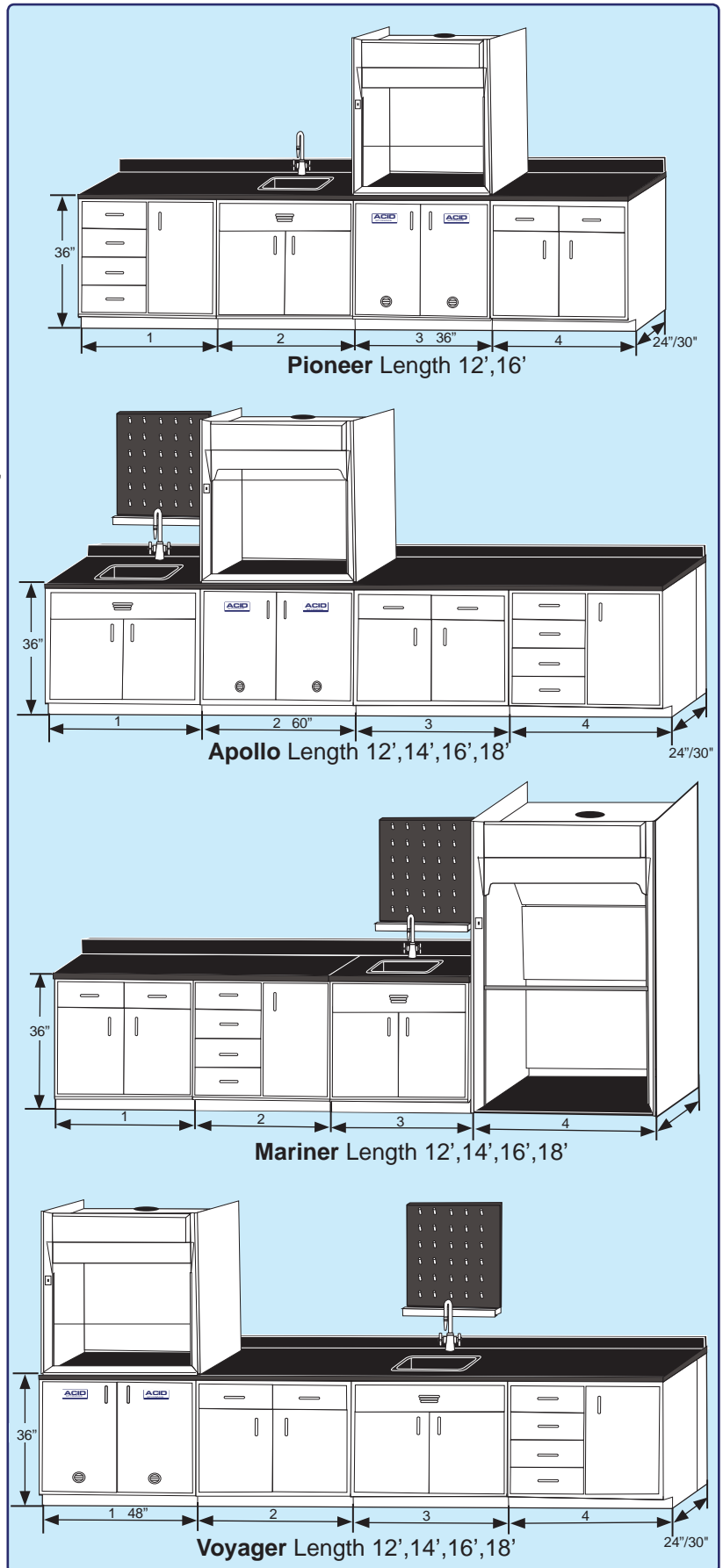
UniLine Mariner Grouping accommodates larger procedures in the FM floor mount fume hood combined with convenient cabinet storage. Grouping includes (3) cabinets 36" high, phenolic resin worksurface with 4" high backsplash, 16" X 12" X 8" sink, H/C gooseneck faucet and pegboard. UniFlow FM included 72" wide.

Mariner Cabinet Grouping					
Length	1	2	3	4	30" Depth Cat. No.
180"	36"	36"	36"	72"	70711
216"	48"	48"	48"	72"	70721

## Voyager Grouping

UniLine Voyager Grouping combines typical lab storage and a fume hood. Cabinet grouping includes (4) 36" high cabinets with rear filler panels on both ends, phenolic resin worksurface, with 4" high back splash. Includes 16" X 12" X 8" sink, H/C gooseneck faucet and pegboard. UniFlow LE Fume Hood included on 30" deep models in widths of 36" & 48".

Voyager Cabinet Grouping					
Length	1	2	3	4	30" Depth Cat. No. Includes LE hood
108"	36"	36"	36"	--	70821
144"	36"	36"	36"	36"	70822
192"	48"	48"	48"	48"	70823



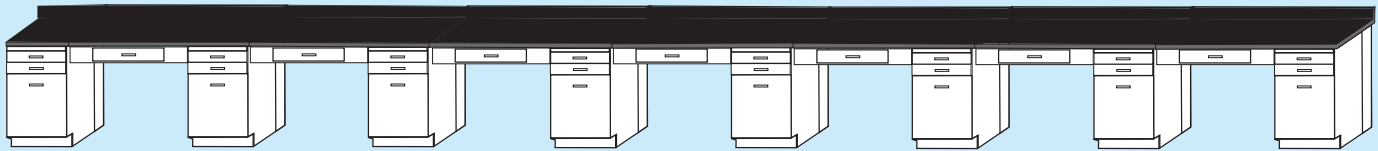
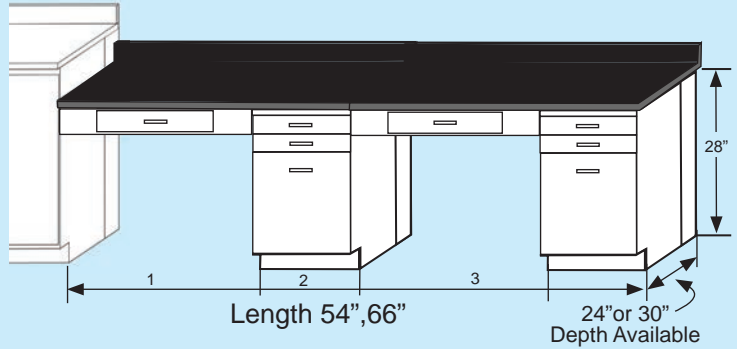
# UniLine Furniture Groupings

Unitized design incorporates our most popular casework groupings to meet your laboratory needs. Welded steel with chemical resistant, epoxy powder coat finish, and 1" thick phenolic resin countertops, 4" high backsplashes, and flush ends standard. ADA and sitting height options are available. Standard color: lab white

## Gemini Grouping

UniLine Gemini grouping features a sitting height desk area that can be incorporated with any of the HEMCO groupings. Cabinet grouping includes 1 sitting height file drawer cabinet with rear filler panels, single drawer apron, and phenolic resin worksurface. Sitting height 28". Lay out a Lab Space.

Length	1	2	24" Depth Cat. No.	30" Depth Cat. No.
4'	30"	18"	70501	70521
4'6"	36"	18"	70502	70522
5'6"	48"	18"	70503	70523



Example of (7) Gemini Groupings

## ADA

### Freedom (ADA) Grouping Option

When ADA requirements are necessary, the UniLine Freedom Grouping option allows you specify any HEMCO casework grouping and be compliant to all dimension, space, and access standards as specified by ADA. In addition, all electrical services, plumbing accessories and safety equipment including emergency showers and eye wash stations are designed to meet ADA guidelines. Counter top height is 34". For ADA recommended reach see diagram 1 and 2.

Simply add "ADA" as a suffix to any HEMCO part number and HEMCO can design, quote, and supply ADA compliant equipment. Proper planning eliminates/reduces future problems. For a complete guide for all ADA technical information, including dimensions and standards, please visit: [www.access-board.gov](http://www.access-board.gov).

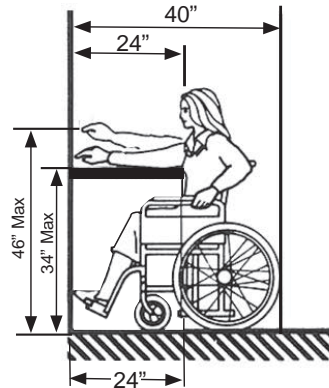


Diagram #1  
Reach In

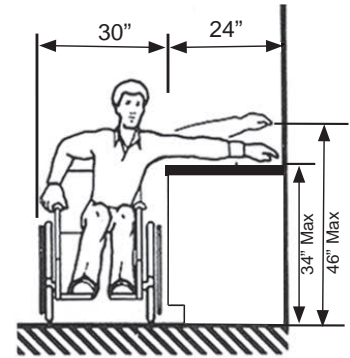
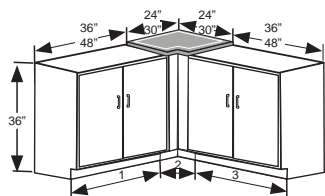


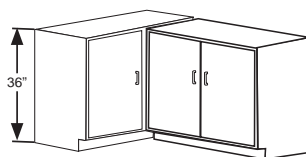
Diagram #2  
Reach Over

## Corner Grouping Solutions

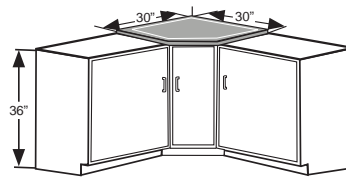
HEMCO corner cabinets and fillers offer several means by which HEMCO casework groupings or individual cabinets can be connected at a corner, eliminating unused corner space.



Basic Corner Scribe  
with worksurface  
2" Cat. No. 74002



Overlap Corner  
Cabinet  
36" Cat. No. 71981  
48" Cat. No. 71983



Spacious Corner  
Cabinet  
with worksurface  
Cat. No. 71901

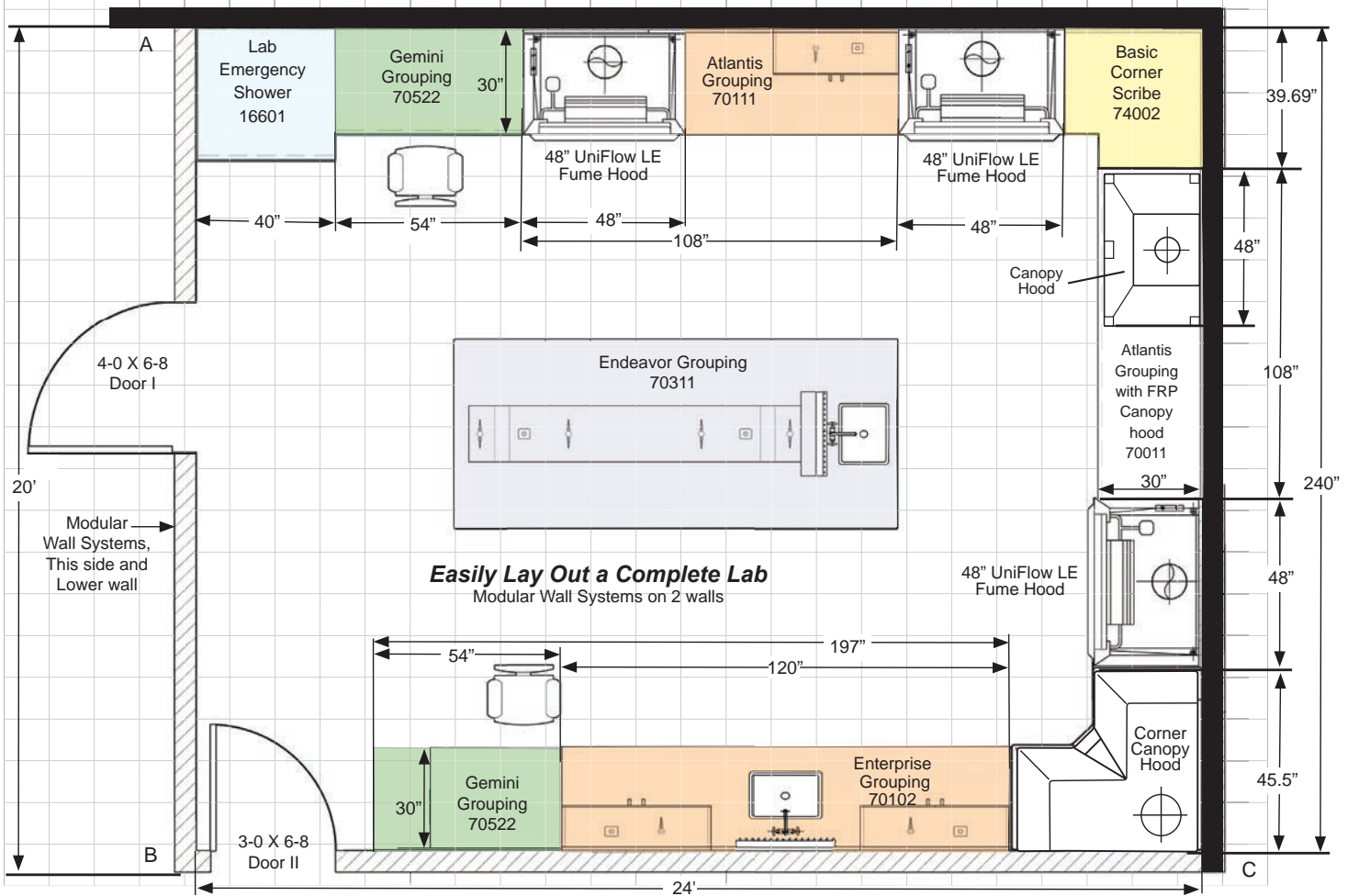
## Corner Canopy



Corner Canopy Hoods

# HEMCO Plan-A-Lab Worksheet showing Groupings

The HEMCO Plan-A-Lab enables you to conveniently lay out your lab furniture and your pre-engineered modular clean lab. For more information request the Modular Clean Room Brochure. Shown below is a 20' X 24' (2) wall system.

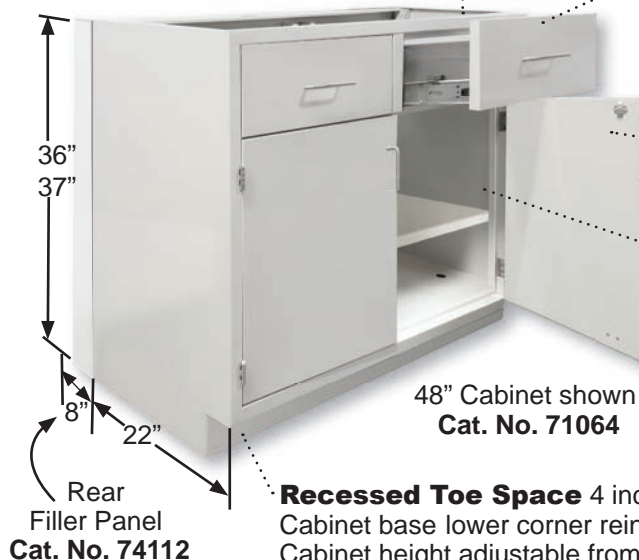


**Easily Lay Out a Complete Lab**  
Modular Wall Systems on 2 walls

For Lab Planning worksheet visit: [www.hemcocorp.com/images/Literature/PlanALab.pdf](http://www.hemcocorp.com/images/Literature/PlanALab.pdf) shown above 20' X 24' (2) wall system  
**UniLine Laboratory Casework Construction (SEFA 8 Compliant)**



UniLine Casework is constructed of welded 18 gauge steel. Base cabinets have a load capacity of 500 pounds per linear foot. Powder coat finish is environment friendly, attractive and long lasting, color: Lab White. UniLine casework, quality & style for your laboratory. Casework is tested independently to be SEFA 8 compliant.



Drawers extend to 18" full open, Interchangeable, interlocking drawer head, sound deadened for quiet operation. One piece drawer body with radiused bottom for easy cleaning. 150 pound dynamic drawer slide assembly mounted on welded channel assemblies. Interior is powder coated steel, stainless steel interior is optional.

Doors One-piece double wall construction painted before assembly. Insulated door filler for added rigidity and quiet operation. Rubber door bumpers. Powder coated finish.

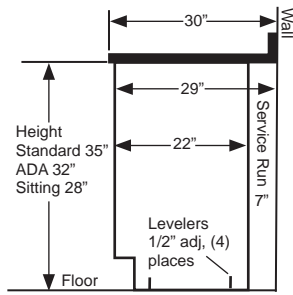
**Cabinet Interior** Minimal holes in front post for aesthetically pleasing appearance. Hem and flatten door. Adjustable shelves heavy duty stop for secure closure. Full length & width adjustable shelf for maximum storage. Unique triangular support rails for added strength. Heavy duty plated steel shelf clips. Powder coated finish. Cabinet interior bottom with a radius flange for increased strength and ease of cleaning.

**Recessed Toe Space** 4 inches high 3-1/2 inches deep, promotes laboratory cleanliness. Cabinet base lower corner reinforcing gusset with 0 to 2-1/2" adjusting levelers on (all four corners). Cabinet height adjustable from 35" to 37".

# UniLine Base Cabinets

Lab cabinets are offered in standard modular sizes that allow you to create a custom laboratory to meet your specific needs. Cabinets feature furniture grade welded steel construction with a durable, chemical resistant, epoxy powder coat finish that meet or exceed SEFA 8, recommended practice for laboratory casework. Other colors available to suit your requirements. (Available in Stainless Steel or Polypro)

## Base Cabinets (standard color: white)



Cabinet End View

28" Sitting Height Only

**3 Drawer**

Width	Cat. No.
18"	70701
24"	70702

For Gemini Groupings

**4 Drawer**

Width	Cat. No.
18"	71221
24"	71222

**1 Drawer - 1 Door**

Width	Cat. No.
18"	71181
24"	71182

Specify left or right hinged

**1 Door**

Width	Cat. No.
18"	71951
24"	71952

Specify left or right hinged

**2 Drawer - 2 Door**

Width	Cat. No.
30"	71061
36"	71062
48"	71064

**1 Drawer - 2 Door**

Width	Cat. No.
30"	71051
36"	71052
48"	71054

**5 Drawer - 1 Door**

Width	Cat. No.
30"	71131
36"	71132
48"	71134

**4 Drawer - 1 Door**

Width	Cat. No.
30"	71101
36"	71102
48"	71104

**4 Drawer - 2 Door**

Width	Cat. No.
30"	71081
36"	71082
48"	71084

**5 Drawer**

Width	Cat. No.
30"	71231
36"	71232
48"	71234

**8 Drawer**

Width	Cat. No.
30"	71241
36"	71242
48"	71244

**6 Drawer**

Width	Cat. No.
30"	71381
36"	71382
48"	71384

**4 Drawer**

Width	Cat. No.
30"	71211
36"	71212
48"	71214

**Vacuum Cabinet**

Width	Cat. No.
30"	71821
36"	71822
48"	71824

**Base Cabinet**

Width	Doors	Cat. No.
30"	2	53011
36"	2	53611
48"	2	54811
60"	2	56011

**Acid Cabinet**

Width	Doors	Cat. No.
30"	2	15300
36"	2	15360
48"	2	15480
Vent Kit	---	81000

**Flammable Cabinet**

Width	Cat. No.
30"	18300
36"	18030
48"	18040
Vent Kit	81000

**Sink Unit Cabinet**

Width	Cat. No.
30"	71811
36"	71812
48"	71814
60"	71815

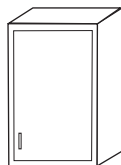
**Sink End Unit**

Width	Cat. No.
60"	71815



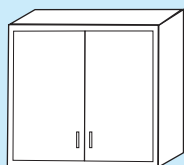
# Wall Cabinets, Floor Cabinets, and Accessories

## Wall Cabinets



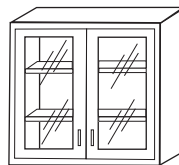
Single Door Wall Cabinet

Width	Height	Depth	Cat. No.
18"	30"	12"	72171
24"	30"	12"	72172
Specify left or right hinged			



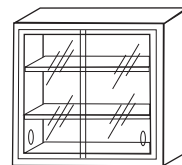
2 Door Wall Cabinet

Width	Height	Depth	Cat. No.
30"	30"	12"	72031
36"	30"	12"	72032
48"	30"	12"	72034



2 Door Framed Glass Cabinet

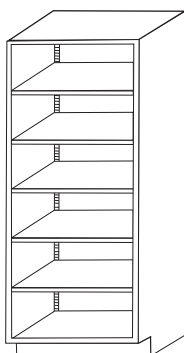
Width	Height	Depth	Cat. No.
30"	30"	12"	72061
36"	30"	12"	72062
48"	30"	12"	72064



2 Glass Sliding Door Cabinet

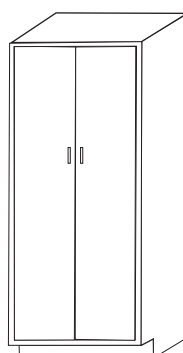
Width	Height	Depth	Cat. No.
30"	30"	12"	72191
36"	30"	12"	72192
48"	30"	12"	72194

## Floor Mounted Cabinets (standard color: Lab White)



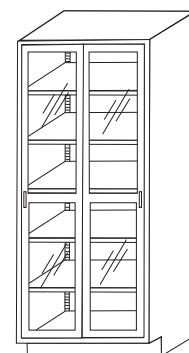
Floor Cabinet  
Open Front  
Storage cabinet with  
5 adjustable shelves.  
Height 84", Depth 18"

Width	Cat. No.
30"	73381
36"	73382
48"	73384



Floor Cabinet  
Solid Hinge Door  
Storage cabinet with 5  
adjustable shelves.  
Height 84", Depth 18"

Width	Cat. No.
30"	73321
36"	73322
48"	73324



Floor Cabinet  
Slide Glass Door  
Storage cabinet has  
glazed 1/4" glass  
doors and 5  
adjustable shelves.  
Height 84", Depth 18"

Width	Cat. No.
30"	73371
36"	73372
48"	73374

## Casework Accessories (standard color: Lab White)



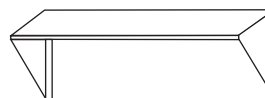
Reagent Shelf  
Shelves are 4" wide 12" deep  
and 16" high. For use on island,  
peninsula, or against wall. Phenolic  
Resin shelf is 1" thick & 14" deep

Length	Cat. No.
6'	75111
9'	75112
12'	75113



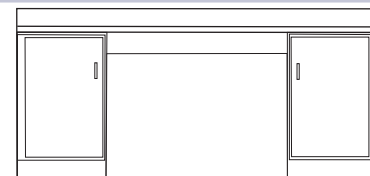
Single Drawer Apron  
4 1/2" high. Used to span  
knee space area and  
support countertop.

Width	Depth	Cat. No.
30"	22"	74031
36"	22"	74032
48"	22"	74034



Wall Shelf  
12" deep. Includes vertical  
flanges for mounting.

Width	Cat. No.
24"	75911
30"	75912
36"	75913
48"	75914

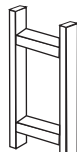


Knee Space Panel  
35" high. Located at the rear  
of knee space areas.

Width	Cat. No.
24" to 36"	73261
36" to 48"	73262
54" to 66"	73263



**End Panel**  
35" high x 22" or 28"  
deep. Used to support  
countertops at the end  
or middle of a knee  
space area. Please  
specify depth.  
**Cat. No. 73255**



**Leg Assembly**  
35" high x 22" or 28"  
deep. Used to support  
countertops at the end  
or middle of a knee  
space area. Please  
specify depth.  
**Cat. No. 73355**



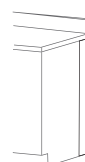
**Front Rail**  
2" high x 30", 36"  
or 48" wide. Used  
to support counter  
tops above knee  
space areas. Please  
specify width.  
**Cat. No. 74015**

Cabinet  
Lock

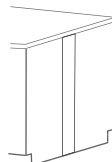
Five-Disc  
tumbler  
door & drawer cam  
lock & (2) keys.  
**Cat. No. 75001**



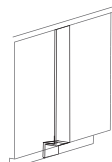
**Utility Chase**  
24" wide x 6" deep x  
84" high. Located on  
an island behind a sink.  
Used to conceal piping  
and to serve as mounting  
for pegboard.  
**Cat. No. 75091**



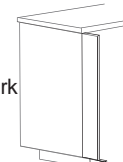
**Rear Filler Panel**  
35" high x 7" wide. Used  
to enclose pipe chase  
behind cabinets on  
standard 30" deep  
counters.  
**Cat. No. 74112**



**Center Filler Panel**  
35" high x 4", 10",  
or 14" wide. Used to  
enclose the pipe chase  
at the end of an island.  
Please specify width.  
**Cat. No. 74122**



**Front Filler Panel**  
35" high x 2", 6", or 12"  
wide. Used to enclose  
the space between  
cabinets to meet casework  
length requirement.  
Please specify width.  
**Cat. No. 74142**

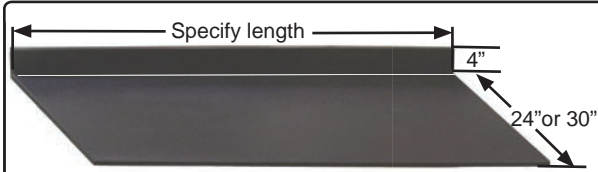


**End Scribe**  
35" high x 2", 6", or 12"  
wide. Used to fill the  
space between the end  
of casework and a wall.  
Please specify width.  
**Cat. No. 74001**

# Laboratory Countertops, Sinks, and Plumbing

Countertops are available in phenolic resin, epoxy resin, and stainless steel, are 24 or 30 inches deep, and can be supplied with or without back splashes. Sink and service cut-outs are fabricated as required.

## Laboratory Countertops



Phenolic Resin

1. Phenolic Resin Surfaces are constructed of solid composite panels that have excellent chemical resistance and durability. Surfaces are nonporous and UV, heat, bacteria, and scratch resistant. Available in 1" thickness. Color: Charcoal (sold by the lineal foot) SEFA Compliant, UL1805 Certified.

Depth	24" Deep	30" Deep
No Backsplash	Cat. No. 70118	Cat. No. 70018
With 4" Backsplash	Cat. No. 70118B	Cat. No. 70018B



Epoxy Resin

2. Epoxy Resin Surfaces & curbs are molded of a modified epoxy resin that is specifically compounded & cured to provide optimum physical & chemical resistance. Surfaces are nonporous, non-conductive, stain & heat resistant. Available in 1" thickness. Color: Black. (sold by the lineal foot) SEFA Compliant, UL1805 Certified.

Depth	24" Deep	30" Deep
No Backsplash	Cat. No. 70115	Cat. No. 70015
With 4" Backsplash	Cat. No. 70115B	Cat. No. 70015B



Stainless Steel

3. Stainless Steel Surfaces are fabricated of type 304, 16 gauge steel with #3 satin finish. All corners, ends, and joints are continuous Heliarc welded and ground smooth. (type 316 stainless steel available) (sold by the lineal foot)

Depth	24" Deep	30" Deep
No Backsplash	Cat. No. 70116	Cat. No. 70016
With 4" Backsplash	Cat. No. 70116B	Cat. No. 70016B

## Lab Sink Deep Bowl

## Pegboards

## Neutralization Tanks



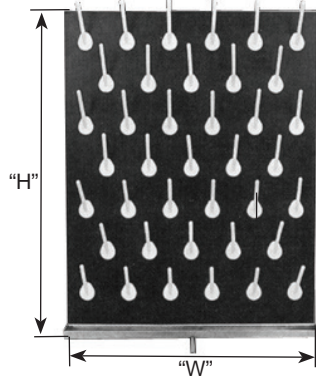
Epoxy, Stainless Steel  
or Polyolefin Sinks

Chemical resistant sinks are molded with integral flanges allowing drop-in mounting. Sinks include 1.5" IPS threaded outlet & includes sink stopper & drain outlet. Please specify location in counter top layout of A and B dimensions.

Polyolefin Sinks			
A	B	Depth	Cat. No.
12"	8"	8"	72041
14"	10"	6"	72043
18"	15"	12"	72045
28"	20"	9"	72048

Epoxy Resin Sinks			
A	B	Depth	Cat. No.
16"	12"	8"	42022
18"	15"	11"	42026
24"	16"	8"	42027
28"	15"	11"	42028

Stainless Steel Sinks			
A	B	Depth	Cat. No.
12"	12"	7.5"	42031
16"	16"	7.5"	42032
16"	22"	7.5"	42033
16"	28"	7.5"	42034

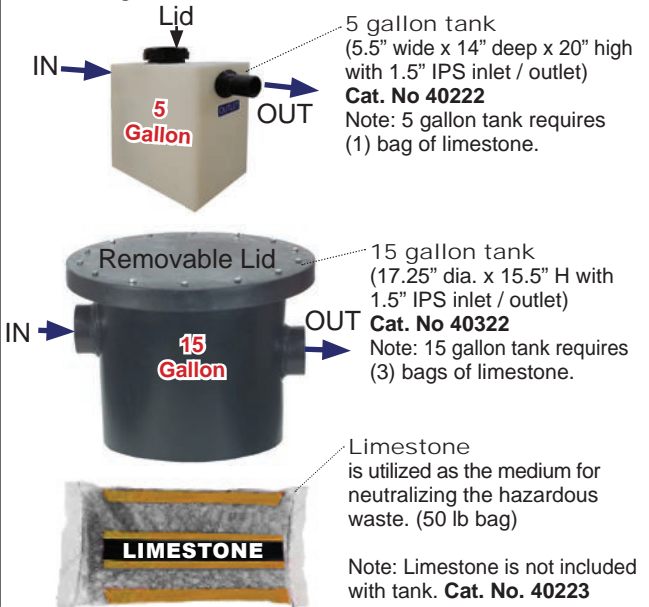


### Phenolic Resin Pegboards

For drying and storage of lab ware. Pegboard in 1" thick and includes a stainless steel drip trough to collect run-off.

W	H	No. of Pegs	Cat. No.
24"	30"	39	72430
30"	30"	46	73030
30"	36"	60	73036

Molded of one-piece, chemical resistant polyolefin, neutralization tanks are designed to dilute & neutralize laboratory waste & concentrated corrosives.



## Cupsinks & Traps



### Oval Cup Sink

Drop-in cup sink available in polyolefin. 1.5" IPS tailpiece includes strainer.

3" x 6"	Cat. No. 40119
3" x 9"	Cat. No. 40121



### Round Cup Sink

Drop-in sink available in epoxy or polyolefin. 1.5" IPS tailpiece includes strainer.

Polyolefin 6"	Cat. No. 40118
Epoxy Resin 8"	Cat. No. 40218



### Polyolefin Jar Trap

Trap includes adjustable tailpiece and removable jar. 1.5" tailpiece.

Cat. No. 40220

# Plumbing, Electrical, and Safety Services

The countertop service fixtures are chrome-plated. All fixtures have serrated hose connections except where noted. Color-coated service handles and hole cutouts in countertop are provided. Countertop fixtures are not factory installed. Please specify services required and the fixture location.

## Countertop Laboratory Plumbing (for Groupings on pages 4-6)



**Single Gooseneck**  
6" swivel gooseneck for use with foot pedal remote. 3/8" NPT. ADA compliant  
**Cat. No. 50110-SF**



**Delonized Water**  
Gooseneck Faucet PVC faucet for distilled water. 6" rigid gooseneck. 3/8" NPT.  
**Cat. No. 50043**



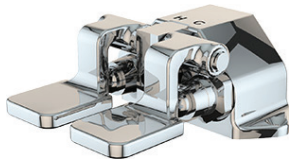
**Single Service**  
Gooseneck Faucet Single water, 6" swivel gooseneck. 3/8" NPT.  
**Cat. No. 50015** with vacuum breaker  
**Cat. No. 50010**



**Deck Mounted**  
Mixing Faucet Hot and cold water faucet. 6" gooseneck. 3/8" NPT.  
**Cat. No. 50026** with vacuum breaker  
**Cat. No. 50018**



**ADA H/C Mix**  
Gooseneck Faucet 6" swivel gooseneck with wrist handle controls. 3/8" NPT. ADA compliant.  
**Cat. No. 50040**



**Foot Pedal Remote Control**  
Valves with heavy chrome plating. ADA compliant. 1/2" NPT.

Single Pedal	<b>50021</b>
Double Pedal	<b>50020</b>



**Inline Vacuum Breaker**  
3/8" NPS. Dual check.  
**Cat. No. 51139**



**Aerator**  
Aerator for gooseneck outlet. Furnished with gasket. 3/8" NPS.  
**Cat. No. 50139**



**Aspirator Pump**  
Aspirator pump with 3/8" NPS male inlet.  
**Cat. No. 50058**



**Keycock**  
Fixture includes turret and shank connection.

Single Outlet	<b>50014</b>
Double Outlet	<b>50014-2</b>
Triple Outlet	<b>50014-3</b>
Quad Outlet	<b>50014-4</b>

## Countertop Pedestal Electrical Services (UL listed)



**Single Gang Outlet**  
Brushed cast aluminum box with stainless steel cover, surface mount. Please specify desired location of pedestal box.



**Double Gang Outlet**  
Brushed cast aluminum box with stainless steel cover, surface mount. Please specify desired location of pedestal box.

Single Gang	Single Face	Double Face
Duplex/115 V/15a	50131S	50131D
Single/230 V/20a	50132S	50132D
GFI Duplex/115 V/20a	50135S	50135D

Double Gang	Single Face	Double Face
Duplex/115 V/15a	50031S	50031D
Single/230 V/20a	50032S	50032D
GFI Duplex/115 V/20a	50033S	50033D
One Duplex and One Single/250 V/20a	50034S	50034D



Horizontal mount

Electrical & Data Supply Chase Anodized aluminum raceway can be supplied with a variety of electrical or data services. Can be mounted in vertical or horizontal position.

- Specify length, type of plug, quantity of plugs, type of data outlet. **Cat No. 50086**

## Laboratory Safety Eye / Face / Body Wash, Safety Showers



**Swing-Out Eye Wash**  
Deck mounted next to sink. Activates when pivoted. 1/2" NPT. Barrier free.  
**Cat. No. 16009**



**Pull-Down Eye Wash**  
Recessed, wall mounted (4" deep), pull-down eye wash safety station. Stainless steel. 1/2" NPT. Barrier free. **Cat. No. 93968**



**Hand Held Face Body Wash**  
squeeze valve nozzle on 8' coiled hose and bracket. Can be used to rinse body parts while victim is sitting or lying down. Wall or hood mounted, 3/8 NPT, Barrier free.  
**Cat No. 16005**



**Laboratory Safety Shower**  
**Cat.No. 16604**

# UniFlow<sup>SE</sup> Laboratory Fume Hoods

Designed for high efficiency, energy savings & maximum user protection. Available in 48", 60", 72" and 96" width; 32" depth X 59" height. The aerodynamic face opening with airfoil provides uniform air flow into the fume chamber. A constant volume low flow hood with VaraFlow baffle system efficiently directs the air flow through the fume chamber to the exhaust outlet with minimum turbulence.



**UniFlow SE AireStream Hood Cat. No. 4551**  
shown with optional epoxy resin worksurface, base cabinet and fixtures See pages 20-25 for accessories.

**UniFlow Superstructure** non-metallic construction for total chemical resistance (**NO RUST**), superior durability and long life. Integral one piece composite liner, glass smooth, all covered corners for ease of cleaning. Unitized construction reduces weight for ease of installation. 5 year warranty. Meets U.L.1805, and NFPA-45 classification with flame spread of less than 25 per ASTM E-84.

**High Efficiency** sash management provides for energy savings. With sash stops at 1/2 open air flow is reduced by 50%.

**User Protection** with sash in lowered position, fumes are kept safely away from the user.

**29" Sash Height** vertical moving sash for loading and unloading of fume hood.

**Sash Stop** located at 1/2 open position to reduce air flow 50%, for energy savings  
Optional equipment **Cat. No. 51651**



**Full 36" Viewing Height** for ease of access and unobstructed view of fume chamber and working with tall apparatus & distillation grids.

**Angled Picture Frame Sash Opening** aerodynamic face opening with air foil provides uniform air flow into the fume chamber, & thru the VaraFlow baffle system, to the exhaust collar.

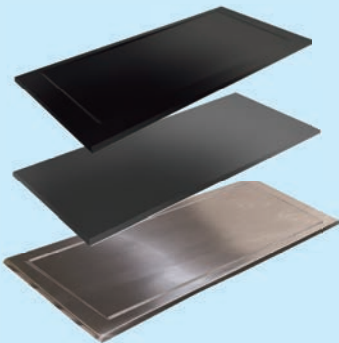
**Energy Efficient** fluorescent vapor proof T-5 light fixture with polished stainless steel reflectors, and light switch on left column, all factory installed.



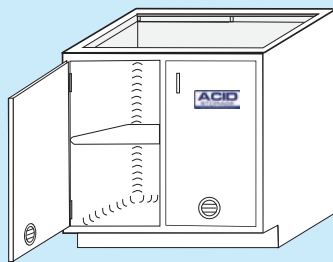
## Air Flow Monitor

continuously monitors face velocity air flow, Meets ANSI and OSHA requirements. Optional equipment, (see page 28)  
**Cat. No. 51403**

## FUME HOOD ACCESSORIES

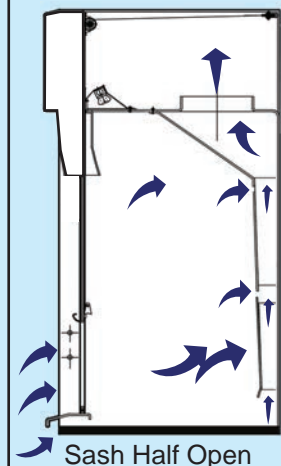


**Fume Hood Worksurfaces**  
A complete line of worksurfaces, available in Epoxy Resin, Phenolic Resin, and Stainless steel.(see page 21)



**Fume Hood Cabinets**  
Constructed of 18 gauge furniture grade steel, powder coated color silver gray. Base cabinets have a load capacity of 500 pounds per linear foot. Tested to be SEFA 8 Compliant. (see page 21)


## VARAFLOW BAFFLE SYSTEM



# UniFlow SE Laboratory Fume Hoods


UNIFLOW SE FUME HOOD DESCRIPTIONS	Fume Hood Width "A"			
	48" Cat.No.	60" Cat.No.	72" Cat.No.	96" Cat.No.
<b>1. UniFlow By Pass Fume Hood with Vapor Proof Light</b> Superstructure to be unitized corrosion and fire resistant, non-metallic composite fiberglass construction, one piece fume chamber liner to have white glass smooth molded-in finish and all covered corners. Varaflow baffle system and bell shaped exhaust collar. Picture frame sash opening with vertical raising counter balanced clear tempered safety glass sash with chemical resistant PVC framing, track and aerodynamic sash lift. Vapor proof T-5 fluorescent 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 see Fume hood is U.L.1805 classified. Specify CAV or VAV.	45411	45511	45611	45811
<b>2. UniFlow By Pass Fume Hood with Vapor Proof Light &amp; Built in Exhaust Blower</b> Same as #1 above except equipped with built-in corrosion resistant, vertical discharge, direct drive exhaust motor/blower, 115 volt, 60Hz, AC with control switches prewired to single point junction box. All electrical components UL compliant. Maximum duct run of 20'.	45412	45512	45612	--
<b>3. UniFlow By Pass Fume Hood with Explosion Proof Light</b> Same as #1 above except equipped with explosion-proof light fixture, Class I Div II Group A B C D Class II Div II Group F & G, 115 volt, 60Hz AC, UL Listed. Installed but not wired, must be wired to comply with local codes. Specify CAV or VAV.	45413	45513	45613	45813
<b>4. UniFlow By Pass Fume Hood with Explosion Proof Light &amp; Built in Exhaust Blower</b> Same as #3 above except equipped with built-in corrosion resistant, non sparking, explosion-proof motor/blower exhaust system, Class I, Group C & D, Class II, Group E F & G, 115, volt 60Hz, AC. Explosion-proof exhaust blower and light are installed but not wired, must be wired to comply with local codes. Maximum duct run of 20'. Available in CAV.	45414	45514	45614	--

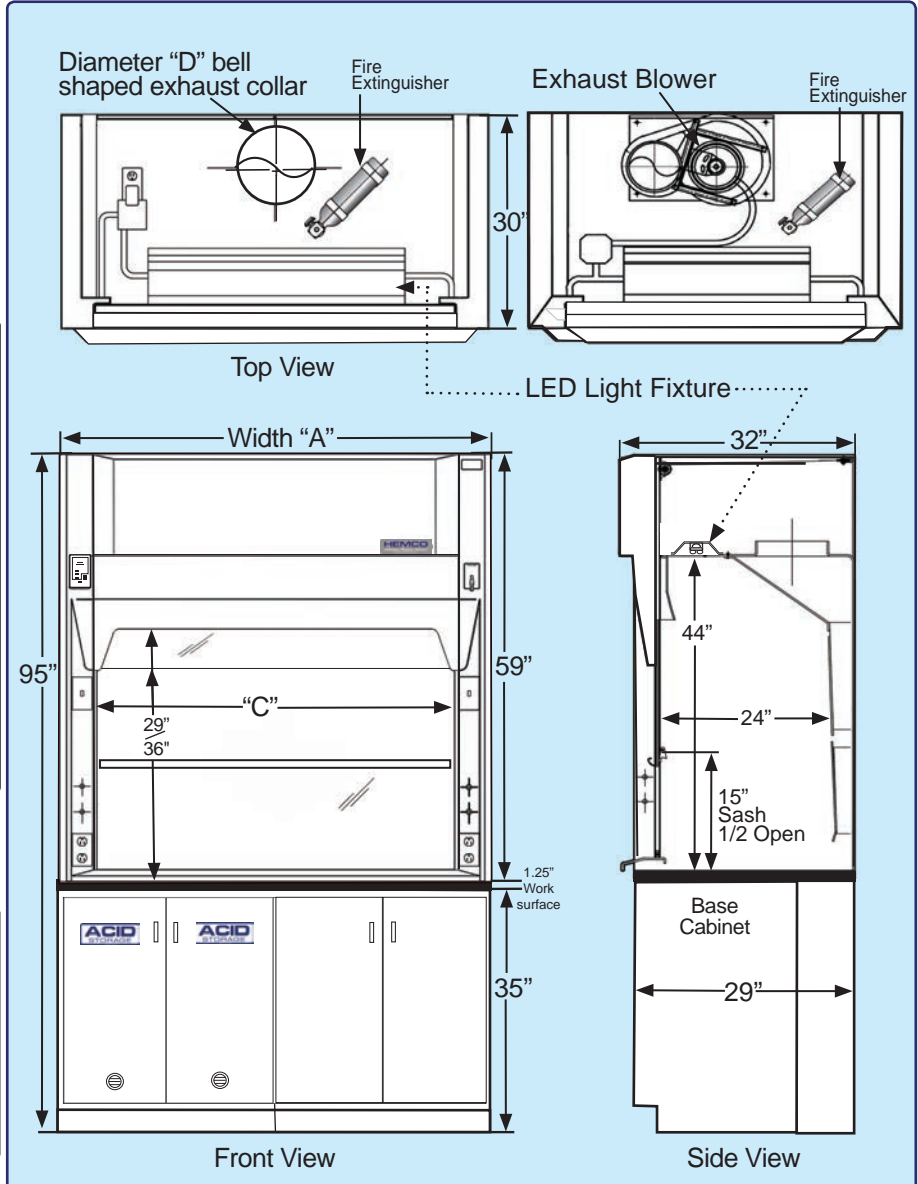
Dimension	48"	60"	72"	96"
Hood Width "A"	48"	60"	72"	96"
Interior Width "C"	38"	50"	61"	85"
Diameter "D"	10"	10"	12"	(2) 10"

**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. If opening is at 1/2 open at 100 fpm (feet per minute), face velocity at full open would be approximately 50 fpm.

Size Hood	48"	60"	72"	96"
Full Open CFM	773	938	1162	1613
1/2 Open CFM	385	474	592	800
1/2 Open Static Pressure	.15	.25	.20	.20

- U.L.1805 Classification defines requirements specific to Laboratory Fume Hoods & Cabinets
- This Classification covers construction, materials, flammability and containment performance
- HEMCO's test facility is compliant to test Fume Hoods for U.L.1805 Classification 



# UniFlow<sup>®</sup> LE 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 VaraFlow baffle system directs the air through the fume chamber to the bell shaped exhaust outlet with minimum turbulence. Fume hood is U.L.1805 classified.



**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.

**VaraFlow Baffle System** Features 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 T-5 light fixture with polished stainless steel reflectors, and light switch on left column, all factory installed.

**27-1/2" 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 ergonomic sash lift. Sash lift contoured for efficient air flow and ease of movement, standard equipment.

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



**Full 32" Viewing Height** for ease of access, unobstructed view of fume chamber, and working with tall apparatus and distillation grids.

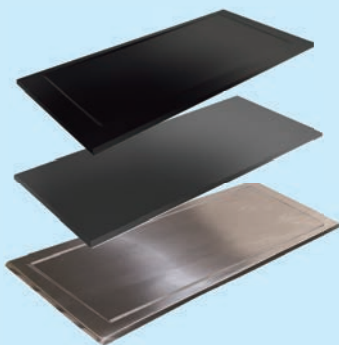
**Angled Picture Frame Opening** the aerodynamic face opening with air foil provides uniform air flow into the fume chamber and thru the VaraFlow baffle system.

**Air Flow Monitor** continuously monitors face velocity air flow, Meets ANSI and OSHA requirements. Optional equipment, (see page 28) **Cat. No. 51403**

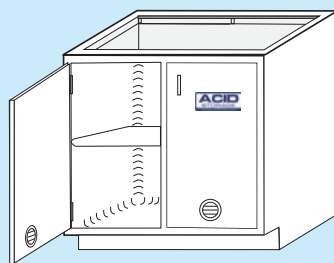


**UniFlow LE Fume Hood Cat. No. 35521** shown with optional epoxy resin worksurface, base cabinet and fixtures See pages 20-25 for accessories.

## FUME HOOD ACCESSORIES

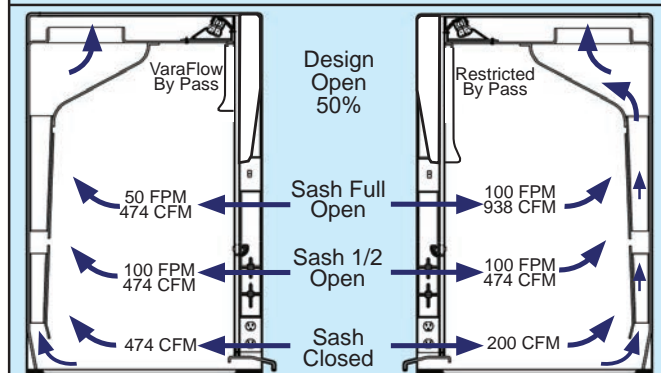


**Fume Hood Worksurfaces**  
A complete line of worksurfaces, available in Epoxy Resin, Phenolic Resin, and Stainless steel. (see page 21)



**Fume Hood Cabinets**  
Constructed of 18 gauge furniture grade steel, powder coated color silver gray. Base cabinets have a load capacity of 500 pounds per linear foot. Tested to be SEFA 8 Compliant. (see page 21)

## 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<sup>®</sup> LE Fume Hoods

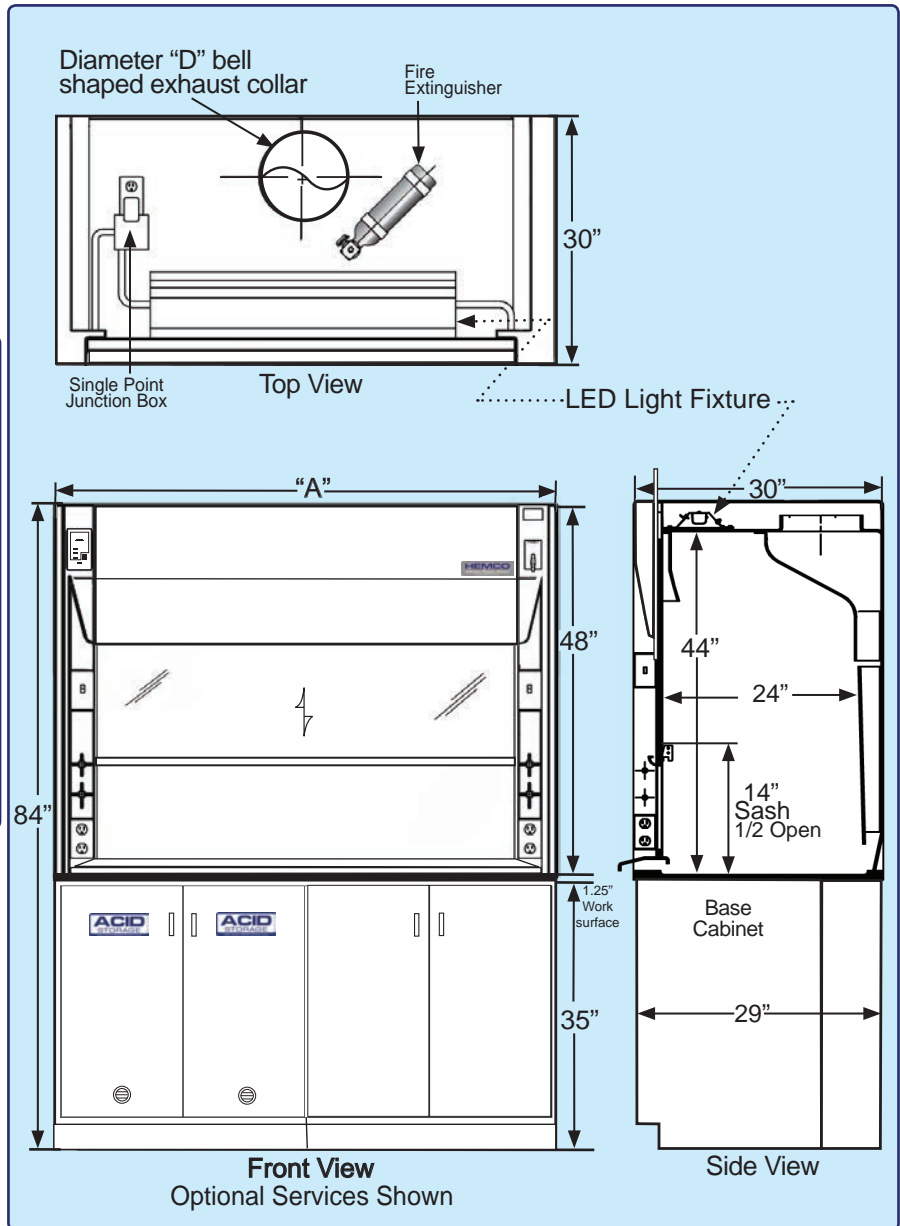
UNIFLOW LE FUME HOOD DESCRIPTIONS	Fume Hood Width "A"				
	36" Cat.No.	48" Cat.No.	60" Cat.No.	72" Cat.No.	96" Cat.No.
<b>1. UniFlow LE CAV Fume Hood:</b> Air By-pass low flow, constant air volume hood. Dual wall unitized construction, all non-metallic corrosion and fire resistant composite fiberglass construction. Molded one piece fume chamber with white glass-smooth surface with all covered corners. Varaflow 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. T-5 Fluorescent Light Fixture Vapor proof 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.	35321	35421	35521	35621	35821
<b>2. UniFlow LE VAV Fume Hood:</b> 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.	35322	35422	35522	35622	35822
<b>3. UniFlow LE Fume Hood with Explosion-Proof Light:</b> 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.	35323	35423	35523	35623	35823
<b>4. UniFlow LE Fume Hood in CE Configuration:</b> Same as #1 above except equipped to comply with optional CE international electrical configuration. 220V/50Hz AC. Electrical services, exhaust blowers available.	35324	35424	35524	35624	35824

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

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

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

- U.L.1805 Classification defines requirements specific to Laboratory Fume Hoods & Cabinets
- This Classification covers construction, materials, flammability and containment performance
- HEMCO's test facility is compliant to test Fume Hoods for U.L.1805 Classification 



# UniFlow<sup>®</sup> CE Fume Hoods

Full duty fume hoods in space and energy saving sizes of 30", 36", 48", & 72" widths. UniFlow CE models are low flow constant volume fume hoods that require 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. Fume hood is U.L.1805 classified.



**UniFlow CE AireStream Hood Cat. No. 14891** shown with optional epoxy resin worksurface, base cabinet and fixtures. See pages 20-25 for accessories.

**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.

**VaraFlow Baffle System** Features vector flow slots for low flow and high performance. Maintains uniform air flow thru the baffle system to bell shaped exhaust collar outlet.

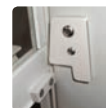
**Access Panel** removable to access ducting connections, plumbing & electrical services from a single point electrical box, 115V/60Hz AC operation. Energy efficient vapor proof light fixture with and light switch on left column, all factory installed.

**23" 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 ergonomic sash lift. Sash lift contoured for efficient air flow and ease of movement, standard equipment.



**U.L.1805 Classification** defines requirements specific to Laboratory Fume Hoods & Cabinets. This Classification covers construction, materials, flammability and containment performance. HEMCO's test facility is compliant to test Fume Hoods for U.L.1805 Classification.

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



**Full 27" 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.

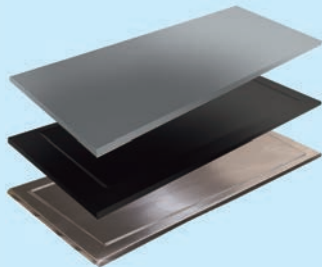
**Angled Picture Frame Opening** the aerodynamic face opening with air foil provides uniform air flow into the fume chamber and thru the VaraFlow baffle system.

**Plumbing Services** fixtures are color coded to specific service.

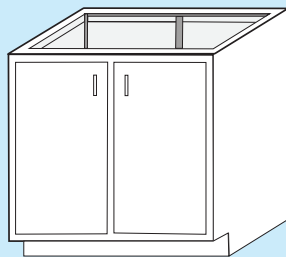


**Air Flow Monitor** continuously monitors face velocity air flow, Meets ANSI and OSHA requirements. Optional equipment, (see page 28) **Cat. No. 51403**

## FUME HOOD ACCESSORIES



**Fume Hood Worksurfaces**  
A complete line of worksurfaces, available in Epoxy Resin, Phenolic Resin, and Stainless steel.(see page 21)



**Fume Hood Cabinets**  
Constructed of 18 gauge furniture grade steel, powder coated color white. Base cabinets have a load capacity of 500 pounds per linear foot. Tested to be SEFA 8 Compliant.



# UniFlow<sup>®</sup> CE Fume Hoods


UNIFLOW CE FUME HOOD DESCRIPTIONS	Fume Hood Width "A"			
	30" Cat.No.	36" Cat.No.	48" Cat.No.	72" Cat.No.
<b>1. UniFlow CE CAV Fume Hood with Vapor Proof Light:</b> The unitized superstructure features a molded seamless fume chamber with all corners coved. Manufactured of flame retardant chemical resistant composite resin using a minimum of metallic parts. Viewing sash is constructed of 3/16" clear tempered safety glass with frame and track fabricated of chemical resistant PVC. Equipped with Varaflow 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 a single point junction box. Hood is shipped completely assembled. This hood system requires a remotely located exhaust blower. Specify CAV or VAV.	13091	13691	14891	17291
<b>2. UniFlow CE Fume Hood with Vapor Proof Light and Built-In Exhaust Blower:</b> Same as #1 above except equipped with built-in chemical resistant composite blower with polypropylene impeller wheel and column mounted control switch. Blower motor is 115V/60Hz, A.C. blower and switch are U.L. compliant and factory wired to junction box. Max 10' duct run.	13092	13692	14892	17292
<b>3. UniFlow CE Fume Hood with Explosion-Proof Light:</b> Same as #1 above except, equipped with explosion proof 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 explosion proof switches, and exhaust blowers are available. This system requires a remotely located explosion proof exhaust blower.	13093	13693	14893	17293
<b>4. UniFlow CE Fume Hood with Explosion Proof Light &amp; Built-In Exhaust Blower</b> Same as #1 above except equipped with explosion-proof blower 115/230V 60Hz A.C. Class I Groups C & D, Class II Groups E F & G & explosion proof light Class I Div II Groups A B C & D, Class II Div II Groups F & G. Blower and light fixture installed but not wired. Must be field wired to comply with local codes. U.L. listed switches not included. Max 10' duct run.	13094	13694	14894	17294
<b>5. Phenolic Resin Worksurface:</b> 1/4" dished, 1" thick, 24" wide, color black, factory installed	13016	13616	14816	17216
<b>6. Composite Resin Worksurface:</b> dished interior to contain spillage, 1.25" thick, color gray	13017	13617	14817	17217

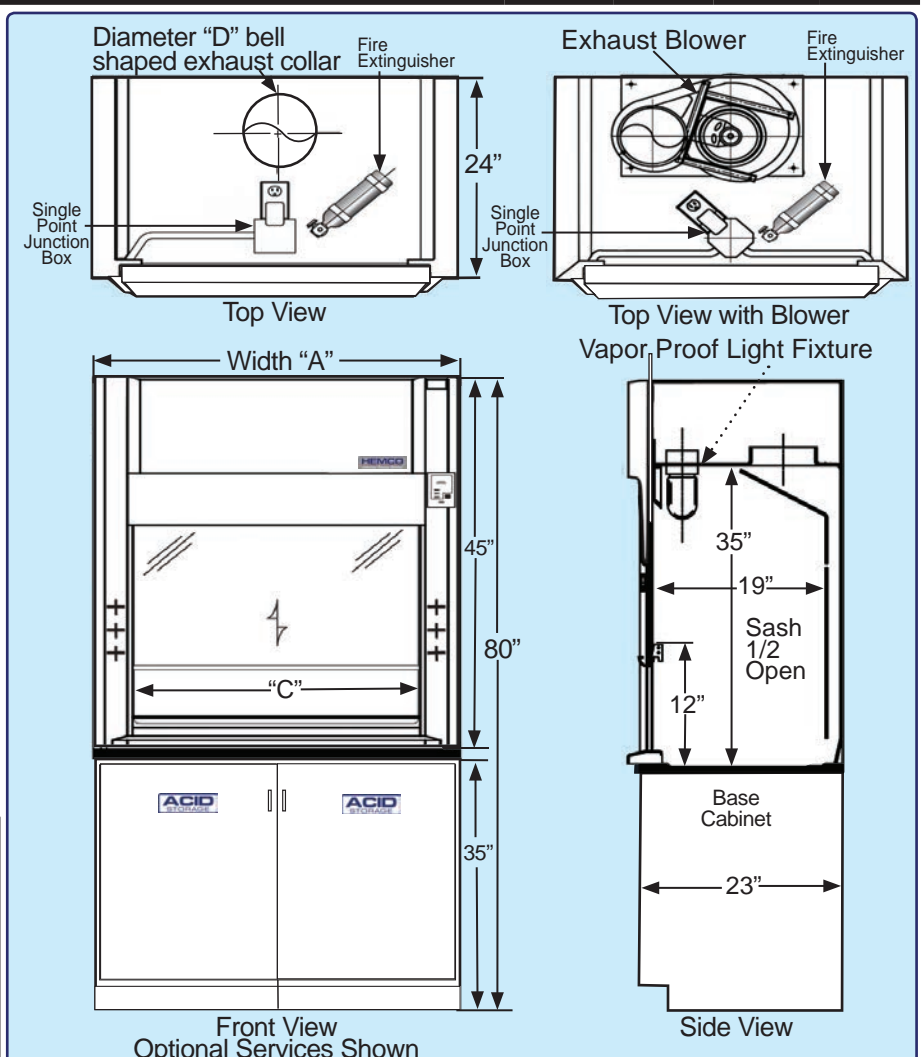
	30"	36"	48"	72"
Width "A"	30"	36"	48"	72"
Width "C"	23.5"	28.5"	40.5"	64.5"
Diameter "D"	4"	6"	8"	10"

**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. If opening is at 1/2 open at 100 fpm (feet per minute), face velocity at full open would be approximately 50 fpm.

Size Hood	30"	36"	48"	72"
Full Open CFM	378	460	654	960
1/2 Open CFM	189	230	327	480
1/2 Open Static Pressure	.04	.06	.10	.13

- U.L.1805 Classification defines requirements specific to Laboratory Fume Hoods & Cabinets
- This Classification covers construction, materials, flammability and containment performance
- HEMCO's test facility is compliant to test Fume Hoods for U.L.1805 Classification 



# UniFlow<sup>®</sup> LE FM Distillation Fume Hoods

UniFlow LE FM Floor Mounted (Walk-In) Hoods are ideally suited for synthesis, distillation & other rack type operations where tall apparatus is used or equipment is rolled into the work area. In widths 48", 60", 72", 96", and depths of 30" & 36". UniFlow Walk-In Hoods are available in standard or special sizes to meet various applications. Modular construction can be shipped disassembled for on-site assembly.



**UniFlow LE FM Hood 5' Cat. No. 12053** shown with vertical rising sash, optional 12" high base table, worksurface, & service fixtures.

**UniFlow Superstructure** to be non-metallic FRP composite construction for total chemical resistance (**NO RUST**), superior durability and long life. Interior fume chamber to be glass-smooth with Vector Baffle System & bell shaped exhaust collar. Modular construction reduces weight for ease of installation. Includes 5 year warranty.

## UniFlow AireStream Vector 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.

**Vapor Proof LED light fixture** polished stainless steel reflectors, and light switch on left column, all factory installed. Energy efficient 15W, 50/60Hz, 100-277VAC. 5 Year warranty. U.L. Listed

**High Efficiency** sash management provides for energy savings.

**User Protection** with sash in lowered position, fumes are kept safely away from the user.

**62" Sash Height** for viewing of fume chamber, loading and unloading equipment for set up. Includes upper and lower sash. 76" Stand Up Height for ease of access and interior depths of 30", 36", and 48" available. With sash in lowered position, fumes are kept safely away from the user.

## 68" Viewing Height Double Vertical Sash

provides ease of access for apparatus set-up in fume chamber. Sashes are perfectly counter balanced, 3/16 tempered safety glass, coated stainless steel cable with stainless steel pulley assembly. Framed in non-metallic PVC framing, track, and aerodynamic sash lifts for ease of movement and air flow efficiency. Horizontal sliding doors are available on 96", 120" and 144" wide models.

## Angled Picture Frame Opening

aerodynamic face opening with air foil provides uniform air flow into the fume chamber, & thru the Vector AireStream Baffle System, to the exhaust collar.

**Energy Efficient** vapor proof LED light fixture with polished stainless steel reflectors, and light switch on left column all factory installed.

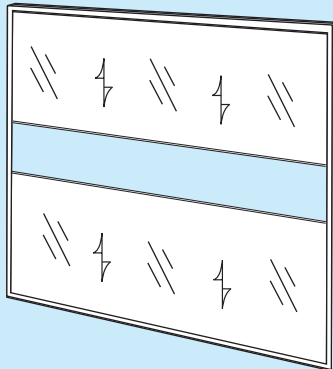
**Plumbing Services** fixtures are color coded to specific service. (Optional equipment)

**Electrical Services** can be mounted on right or left side. (Optional equipment)



**Air Flow Monitor** (Optional equipment) continuously monitors face velocity air flow, meets ANSI and OSHA requirements. **Cat. No. 51403** (see page 28)

## SASH OPTIONS



**VERTICAL SASHES** for HEMCO fume hoods, 4', 5', & 6' wide. The sash may be lifted to the completely open position for maximum access thru the fume chamber. Sash stops available.

**HORIZONTAL SASHES** for HEMCO fume hoods, 8', 10', & 12' wide. The maximum sash opening for the horizontal sash is 1/2 that of the vertical sashes. The smaller opening, means less air exhausted resulting in energy savings.

# UniFlow® LE FM Distillation Fume Hoods


UNIFLOW LE FLOOR MOUNT DESCRIPTIONS		Fume Hood Width "A"			
<b>1. UniFlow LE Floor Mounted CAV Bypass Fume Hood with Vapor Proof Light:</b> Super structure to be modular composite chemical resistant FRP non-metal construction. Interior fume chamber to be glass-smooth with bell shaped exhaust collar. Picture frame upper and lower sash opening with counterbalanced upper and lower sashes of clear tempered safety glass with chemical resistant PVC framing, track, and aerodynamic sash lift. Vapor proof LED light fixture and control switch are wired to a single point junction box. 115/60Hz, AC All electrical components are U.L. listed.	HOOD DEPTH "B"	WIDTH 48" Cat. No.	WIDTH 60" Cat. No.	WIDTH 72" Cat. No.	WIDTH 96" Cat. No.
	30"	12040	12050	12060	12080
	36"	12043	12053	12063	12083
<b>2. UniFlow LE VAV Fume Hood:</b> Same as #1 above except equipped with Variable Air Volume VAV restricted bypass feature in place of CAV bypass feature. Ducting must be connected to optional VAV exhaust system controls.	30"	12145	12155	12165	12185
	36"	12146	12156	12166	12186
<b>3. UniFlow LE Fume Hood with Explosion-Proof Light:</b> 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, 115/ 230V, 50/60Hz U.L. listed fixture is installed but must be field wired to comply with local codes.	30"	12142	12152	12162	12182
	36"	12143	12153	12163	12183
<b>4. UniFlow LE Fume Hood International Configuration:</b> Same as #1 above except equipped to comply to international electrical configuration. 220V/50Hz AC. Optional international electrical configuration, electrical switches, receptacles and exhaust blowers available.	30"	12440	12450	12460	12480
	36"	12243	12253	12263	12283
<b>5. Distillation Base Table</b> Heavy duty welded steel tube table with chemical resistant epoxy powder coat finish, and dished phenolic resin worksurface. Offered in 12" height.	29"	54818	56018	57218	59618
	35"	54838	56038	57238	59638
<b>6. Horizontal Sliding Doors: for 96", 120" and 144" hoods only</b>					FMHS-8
<b>7. Adaptable Worksurface</b> phenolic resin worksurface is provided to slide into place at desired height. Can then be removed for larger equipment.	30"	21415	21515	21615	21815
	36"	21424	21525	21625	21825

**Questions / Ready to order**  
Call 1-800-779-4362

- Optional Accessories**
- Plumbing Fixtures (see page 22)
  - Fume Hood Fire Extinguisher (see page 25)
  - Electrical Services (see page 23)
  - Air Flow Monitor (see page 28)

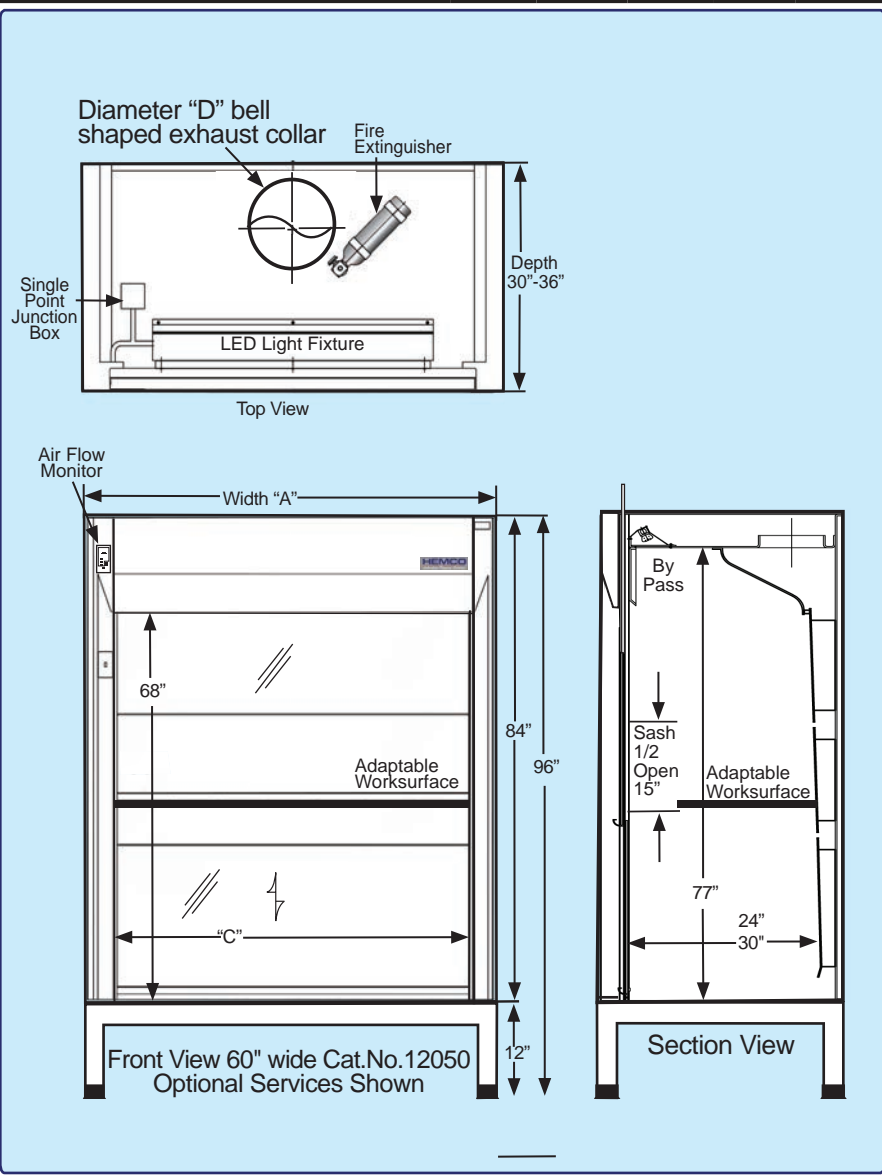
**LE FM Distillation Hood Dimensions**

Width "A"	48"	60"	72"	96"	120"	144"
Width "C"	37"	49"	61"	85"	109"	133"
Diameter "D"	(1) 10"	(1) 10"	(1) 12"	(2) 10"	(2) 12"	(2) 12"

**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.

**LE FM Floor Mount Fume Hood Sash Management & Design**

Size hood	48"	60"	72"	96"	120"	144"
1/2 open CFM	385	474	592	800	984	1200
Full open CFM	773	938	1162	1613	1968	2401



# HEMCO Plan-A-Hood Worksheet

The Following is a sample of the UniFlow SE AireStream Plan-A-Hood Worksheet, Plan-A-Hood Worksheets are also available for LE FM and CE AireStream fume hoods. To access go to [www.HEMCOcorp.com](http://www.HEMCOcorp.com) select the model and click on the Plan-A-Hood link.

UNIFLOW FUME HOOD	QTY	CAT. NO.
AIR BY PASS / CAV		
CONVENTIONAL / VAV		
AUXILIARY AIR		
DISTILLATION		
RADIOISOTOPE		
PERCHLORIC ACID		
ADA		

AIR FLOW MONITOR	QTY	CAT. NO.
DIGITAL		
ANALOG		
OTHER		

SASH	QTY	CAT. NO.
VERTICAL MOVING STD		
HORIZONTAL MOVING		
COMBINATION H&V		

SASH STOP	QTY	CAT. NO.
SPECIFY LOCATION		

PLUMBING SERVICES*	QTY	CAT. NO.
SERVICE SET OF FOUR		

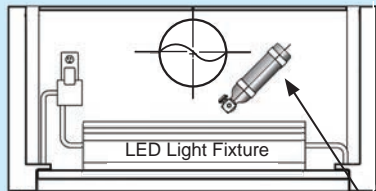
\*SPECIFY AIR,GAS,VAC,C/W OR OTHER

ELECTRICAL SERVICES	QTY	CAT. NO.
DUPLEX RECEPT. 125V, 15A		
DUPLEX RECEPT. 125V, 20A		
SIMPLEX RECEPT. 250 V		
DUPLEX GFI 125V, 15A		
DUPLEX GFI 125V, 20A		

ACCESS PANEL	QTY	CAT. NO.
INSIDE LOCATION		
OUTSIDE LOCATION		

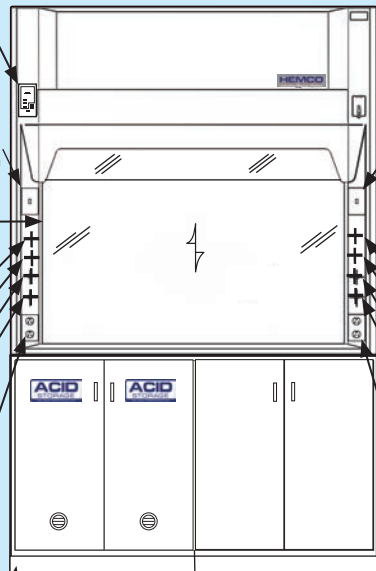
CABINETS	QTY	CAT. NO.
SINK CABINET		
BASE CABINET		
ACID CABINET		
FLAMMABLE CABINET		

UniFlow SE AireStream

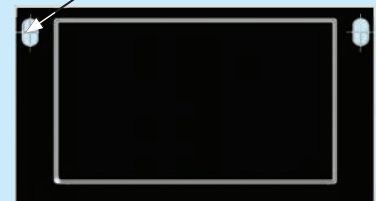


TOP VIEW

Fill out this form and email to:  
[info@hemcocorp.com](mailto:info@hemcocorp.com)



FRONT VIEW WITH BASE CABINET  
Optional services shown  
(see 22 for service options)



PLAN VIEW OF WORKSURFACE

Questions / Ready to order  
Call 1-800-779-4362

CUSTOMER NOTES
✓ LABORATORY FUME HOODS
✓ CASEWORK
✓ WORKSURFACE
✓ LABORATORY FUME HOOD
✓ SPECIFY HEMCO

FIRE EXTINGUISHER	QTY	CAT. NO.
20 SQ FT DRY CHEMICAL		
30 SQ FT DRY CHEMICAL		
50 CU FT HALON		
125 CU FT HALON		

BLOWER SWITCH	QTY	CAT. NO.
TOGGLE SWITCH 125V, 15A		
TOGGLE SWITCH 125V, 20A		
TOGGLE SWITCH. 250V, 20A		
TOGGLE SWITCH W/PILOT		
MOTOR STARTER SWITCH		

PLUMBING SERVICES*	QTY	CAT. NO.
SERVICE SET OF FOUR		

\*SPECIFY AIR,GAS,VAC,C/W OR OTHER

ELECTRICAL SERVICES	QTY	CAT. NO.
DUPLEX RECEPT. 125V, 15A		
DUPLEX RECEPT. 125V, 20A		
SIMPLEX RECEPT. 250 V		
DUPLEX GFI 125V, 15A		
DUPLEX GFI 125V, 20A		

ACCESS PANEL	QTY	CAT. NO.
INSIDE LOCATION		
OUTSIDE LOCATION		

WORKSURFACE	QTY	CAT. NO.
EPOXY RESIN		
PHENOLIC RESIN		
304 STAINLESS STEEL		

This is page 1 of 2, to see all Plan-A-Hood work sheets go to [www.HEMCOcorp.com](http://www.HEMCOcorp.com) select the model & click on Plan-A-Hood

Standard color is Lab White

Lab White - 01

# Fume Hood Worksurfaces & Base Cabinets SE & LE

A complete line of worksurfaces and cabinets to suit any application from economical light duty to heavy acid and solvent use. Select the worksurfaces and cabinets that meet your laboratory's requirements. Standard sizes are listed below. HEMCO's technical staff can make recommendations to suit your specific needs.

## (UniFlow SE, LE hoods only) Epoxy Resin, color: black, 1-1/4" thick, 3/8" dished



Epoxy Resin Worksurfaces are recommended for general laboratory work where greater chemical resistance is required. Surface is dished 3/8" to contain spillage. Worksurface is cast of thermosetting epoxy resin, creating a molded solid 1.25" thick top which is extremely hard, abrasion and heat resistant. Tested to UL 1805 classification.

Size	Cat. No.	Size	Cat. No.
36"W x 30"D	20315	36"W x 36"D	20325
48"W x 30"D	20415	48"W x 36"D	20425
60"W x 30"D	20515	60"W x 36"D	20525
72"W x 30"D	20615	72"W x 36"D	20625
96"W x 30"D	20815	96"W x 36"D	20825

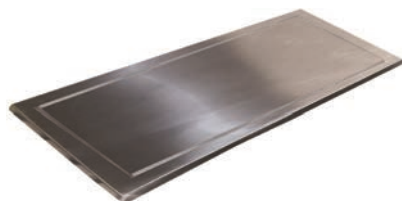
## (UniFlow SE, LE) Phenolic Resin, color: black, 1-1/4" thick, dished 1/4"



Phenolic Resin Worksurface are recommended for general laboratory work where high concentrations of solvent, acids and alkalis are being worked with. Work surface combines excellent chemical resistance scratch and wear resistance. Surface is flat 1.25" thick, dished .25". Tested to UL 1805 classification.

Size	Cat. No.	Size	Cat. No.
36"W x 30"D	21428	36"W x 36"D	22428
48"W x 30"D	21418	48"W x 36"D	22418
60"W x 30"D	21518	60"W x 36"D	22518
72"W x 30"D	21618	72"W x 36"D	22618
96"W x 30"D	21818	96"W x 36"D	22818

## (UniFlow SE, LE hoods only) Stainless Steel, satin finish, 1-1/4" edge, 3/8" dished

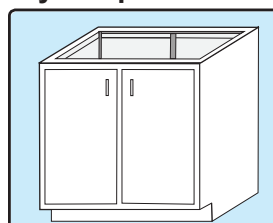


**Stainless Steel Fume Hood Worksurfaces** are fabricated of type 304, 16 gauge steel with #3 satin finish. Surface is dished 3/8" to contain spillage. All corners, ends, and joints are continuous 1.25" heliarc welded and ground smooth. **Type 316 stainless steel is also available.**

Size	Cat. No.	Size	Cat. No.
36"W x 30"D	20316	36"W x 36"D	20326
48"W x 30"D	20416	48"W x 36"D	20426
60"W x 30"D	20516	60"W x 36"D	20526
72"W x 30"D	20616	72"W x 36"D	20626
96"W x 30"D	20816	96"W x 36"D	20826

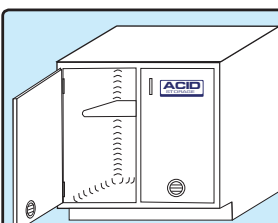
## Fume Hood Base Cabinets & Tables

Standard cabinets and tables are 35" high and 22" deep. For 36" wide use (1) 36", for 48" wide (1) 48", for 60" wide (2) 30", for 72" wide (2) 36", For 96" wide (2) 48". Standard color is White, Optional Silver Beige, Pewter Gray, or colors to your specifications.



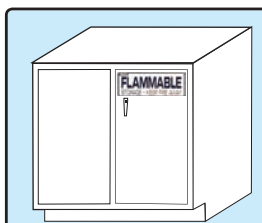
**Base Cabinet**  
Constructed of furniture grade steel. With adjustable shelf and levelers. Standard depth is 22", standard height is 36".

Width	Doors	Cat. No.
30"	2	53011
36"	2	53611
48"	2	54811
60"	2	56011



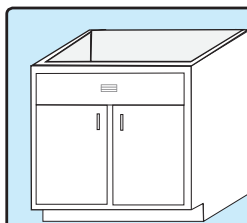
**Acid Cabinet** Interior is lined with one piece acid resistant white composite resin liner and all covered corners, for superior corrosion resistance, with vents and fixed shelf. Standard depth is 22", standard height is 36".

Width	Doors	Cat. No.
30"	2	15300
36"	2	15360
48"	2	15480
Vent Kit	---	81000



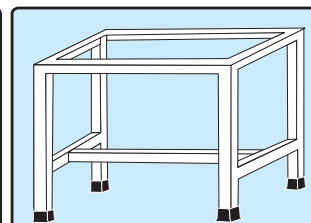
**Flammable Cabinet** provides safe storage of flammables. Color: Lab White. Constructed of welded double wall furniture grade steel. Cabinet has an adjustable shelf and locking hinged doors. Meets NFPA codes. Standard depth is 22", standard height is 36".

Width	Doors	Cat. No.
30"	2	18300
36"	2	18030
48"	2	18040
Vent Kit	--	81000



**Sink Unit Cabinet**  
Constructed of furniture grade steel. Cabinet has hinged doors and levelers. Standard depth is 22", standard height is 36".

Width	Doors	Cat. No.
30"	2	71811
36"	2	71812
48"	2	71814
60"	2	71815



**Fume Hood Base Table**  
Heavy duty, all welded 2" square tube steel construction. Standard depth is 22". Each leg has levelers with fitted black boots. Available in, standard 36" bench height, & 28" sitting height. ADA height 34"

Width	Depth	Std
36"	22"	53612
48"	22"	54812
60"	22"	56012
72"	22"	57212
96"	22"	59612

# Fume Hood Wall Mounted Plumbing Fixtures

Fume hood remote control service fixtures feature epoxy coated brass, chemical resistant, color-coded, serrated hose connections, and 3/8" NPT brass valves with rod and handle assembly. Plumbing fixtures are factory installed on hood, they can be pre-plumbed if specified. Please specify service required, fixture location, and inside or outside service access panels. Conforms to ANSI Z21.15.

Service Fixture Color Code Chart	Green - Cold Water	Red - Hot Water	Blue - Gas	Orange - Air
	Yellow - Vacuum	Brown - Nitrogen	Black - Steam	White - Deionized Water



**Service Set of Two**  
(specify left or right mounting)  
Two remote controlled service fixture set. Color-coded index buttons with matching color-coded serrated tip. Specify service required. Epoxy coated brass.  
**Cat. No. 50121-FS**



**Service Set of Four**  
(specify left or right mounting)  
Four remote controlled service fixture set. Color-coded index buttons with matching color-coded serrated tip. Specify service required. Epoxy coated brass.  
**Cat. No. 50141-FS**



**Service Set of Six**  
(specify left or right mounting)  
Six remote controlled service fixture set. Color-coded index buttons with matching color-coded serrated tip. Specify service required. Epoxy coated brass.  
**Cat. No. 50161-FS**



**DI Faucet**  
Pure water 6" rigid PVC goose neck.  
**Cat. No. 50019**



**DI Faucet**  
Pure water 6" swivel tin-lined goose neck. Epoxy coated brass.  
**Cat. No. 50022**



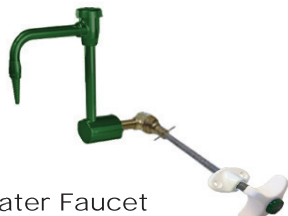
**Gooseneck PVC Service Fixture**  
Wall mount, no valve, constructed of PVC.  
**Cat. No. 51110**



**Service Fixture**  
Cold water, remote controlled epoxy coated brass turret.  
**Cat. No. 50012**



**Water Faucet with Vacuum Breaker**  
Cold water remote controlled 6" swivel gooseneck. Epoxy coated brass.  
**Cat. No. 50023**



**Water Faucet with Vacuum Breaker**  
Cold water remote controlled 6" swivel gooseneck. Turret & gooseneck are epoxy coated brass. **Cat. No. 50113-CW**



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



**Service Fixture**  
Remote controlled single service outlet. color-coded index buttons with matching color coded serrated tip outlets.  
**Cat. No. 50013**



**Base Fixture**  
Deck or wall mount, 3/8 NPT remote, no valve. PVC.  
**Cat. No. 51013**



**PVC Lab Turret**  
Deck or wall mount, 3/8 NPT, no valve. PVC.  
**Cat. No. 51012**



**Mix Faucet**  
Hot and cold remote controlled 6" swivel gooseneck. Turret and gooseneck are epoxy coated brass.  
**Cat. No. 50102**



**Mix Faucet**  
Hot and cold water remote controlled turret. Turret is of epoxy coated brass.  
**Cat. No. 50101**



**High Flow Water Valve, Straight Pattern**  
Ball valve construction with quarter turn open / close, used for supply and return connections.  
**Cat No. 51023**



**Single Keycock**  
Single flange mounted needle valve, keycock with integral flange and shank connection. Epoxy coated brass. 3/8" NPT with lock nut.  
**Single Cat. No. 50025**  
**Double Cat. No. 50125**



**Aspirator**  
3/8" NPS male inlet  
Epoxy coated brass.  
**Cat. No. 50058**




**External Mounted Vacuum Breaker**  
Breaker with 3/8" IPS inlet and outlet. Chrome plated brass.  
**Cat. No. 50044**

# Fume Hood Electrical Services

Electrical services are UL, CSA & CE listed. They come factory installed, wired to a single point junction box when ordered with fume hoods. Services must be wired to comply with local codes.


## Fume Hood Electrical Services (UL)

 Duplex Receptacle 115V single phase receptacle. Installed on front column of fume hood. Includes junction box and cover plate. UL listed.


amps	Cat. No.
15 amps	50029-1
20 amps	50029-2

 Single Receptacle 230V single phase receptacle. Installed on front column of fume hood. Includes junction box and cover plate. UL listed.

amps	Cat. No.
15 amps	50030-1
20 amps	50030-2

 **GFI Duplex** 115V consists of combination ground fault interrupters, 3-wire polarized grounded. Includes junction box & cover plate. UL listed.


amps	Cat. No.
15 amps	50048-1
20 amps	50048-2

 Data Port Cat 6, 10 gigabit ethernet, (2) port fixture. Installed on front column. Cabling not included.


Cat No. 50053

 Light Switch (standard) 115V/15 amps. Includes junction box and cover plate. UL listed.

Cat. No. 50028-1

 Blower Switch with Pilot Light Includes junction box and cover plate. UL listed.

volts/amps	Cat. No.
115V 15 amps	50027-1
230V 20 amps	50027-3

 Blower Switch Mounted in a single gang receptacle box with face plate. Factory mounted not wired. Includes thermal overload protection. Double pole switch for up to 1 HP, single phase, 60 Hz 115V 50 Hz, 230V AC motors. UL listed.

Cat. No. 50050



### Service Port Pass-Through

Convenient port allows cords, tubes, or cables to pass to and from the hood.

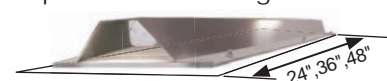
Cat. No. 50100

## Fume Hood Vapor Proof Light Fixtures (UL)

 Vapor-Proof Light Factory installed. Accepts bulb up to 150w, 115V, & LED UL listed, (bulb not included) Standard on CE, Canopy, Universal and EcoFlow hoods.

Cat. No. 50035

### Vapor Proof LED Light Fixture



LED fixture with Stainless steel reflector, (2) tube, 115V, UL listed. (LEDs included) LED has a 50,000 hour average life span. Standard on SE and LE Fume hoods.

24 inch.....	Cat. No. 51124
36 inch.....	Cat. No. 51136
48 inch.....	Cat. No. 51148


### Fluorescent Lighting



T-5 fixture with Stainless steel reflector, (2) tube, 115V/230V tubes changed from the outside. (fluorescent tubes are included) UL listed. Optional on SE and LE Fume hoods.

24 inch.....	Cat. No. 50224
36 inch.....	Cat. No. 50236
48 inch.....	Cat. No. 50248


## Fume Hood Explosion Proof Light Fixtures and Services (UL)

 **Explosion-Proof Light Std Class I Div II** For use in hazardous locations. Gray, two-coat epoxy finish with easily removed prismatic globe. Factory mounted, not wired. Accepts compact fluorescent or LED, (bulb not included) 115V /230V UL listed. Class I Div II Group A, B,C,D Class II Div II Group F & G

Cat. No. 50034

 **Explosion-Proof Fixture Class I Div I** For use in hazardous locations. Gray, two coat epoxy finish with easily removed prismatic globe. Accepts compact fluorescent or LED, (bulb not included) 115V/230V. Factory mounted, not wired. UL listed. Class I Div I Group C, D, Class II Div I Group E, F & G

Cat. No. 50038

 **Explosion-Proof Fluorescent Lighting Class I Div I** fixture is (2) tube, 115V/230V with tubes changed from the outside. UL listed. (fluorescent tubes are included)

24 inch..... Cat. No. 50077  
48 inch..... Cat. No. 50078

 **Explosion-Proof Switch Class I Div I or II** For use in hazardous locations. Surface mount type with cast aluminum housing. Specify 115V/20 amp or 230V/20 amp. UL listed.

Cat. No. 50036

 **Explosion-Proof Plug Class I Div I or II** Adaptable for use with all receptacles. 3-pole, 2-wire, Specify 115V/20 amp or 230V/20 amp AC. Not installed at factory. UL listed.

Cat. No. 50039

 **Explosion-Proof Receptacle Class I Div I or II** For use in hazardous locations. Surface mount type with aluminum housing, 3-pole, 2-wire, Specify 115V/20 amp or 230V/20 amp. Not installed at factory. UL listed.

Cat. No. 50037

 **Explosion-Proof Ground Fault Interrupter** For use in hazardous locations. Factory sealed GFI is designed to interrupt a circuit when a ground fault is detected. 115V 60 Hz, 20 amp. Not installed at factory. UL listed.

Cat. No. 50104

## Fume Hood International Electrical Services (CE)

### Continental European Socket with cover cap

 Type: CEE7 color: gray Rating 250V/16 amp, installed at factory.

Cat. No. 50004

### Indian / South Africa Socket ISA

 Type: BS546 color: white Rating 250V/15 amp, installed at factory.


Cat. No. 50006

### United Kingdom / Ireland Shuttered Socket

 Type: BS1363 color: white Rating 250V/13 amp installed at factory.

Cat. No. 50007

### Continental European Panel Mount Socket

 Type: CEE7 color: white Rating 250V/15 amp installed at factory.

Cat. No. 50008

# Fume Hood Sink and Plumbing Services

A complete line of sinks in epoxy resin, polypropylene, and stainless steel. We also offer a wide variety of plumbing accessories including neutralization tanks and bead baths. HEMCO welcomes the opportunity to quote your special applications. Additional sink sizes are available. Contact factory for more details. Conforms to ANSI Z21.15.

## Epoxy Resin Fume Hood Laboratory Sinks



**Epoxy Resin Sink** Laboratory sink made of chemical and corrosion resistant epoxy resin. Drop-in sink. color: black. Please specify desired location. Includes sink stopper & drain outlet.

	Size	Cat. No.
1	9" x 6" x 6" deep	42021
2	16" x 12" x 8" deep	42022
3	18" x 15" x 11" deep	42026
4	24" x 16" x 8" deep	42027

## Polypropylene Fume Hood Laboratory Sinks



**Polypropylene Sink** Laboratory sink made of chemical resistant heavy duty polypropylene. Drop-in sink. color: black. Please specify desired location. Includes drain outlet.

	Size	Cat. No.
1	12" x 8" x 8" deep	72041
2	14" x 10" x 6" deep	72043
3	18" x 15" x 12" deep	72045
4	28" x 20" x 9" deep	72048

## Stainless steel Fume Hood Laboratory Sinks



**Stainless Steel Sink** Laboratory sink made of one-piece, type 304 stainless steel and polished to a No. 4 satin finish. Drop-in sink. Underside is sound deadened to reduce drumming. Specify location. Includes drain outlet.

	Size	Cat. No.
1	12" x 12" x 7.5" deep	42031
2	16" x 16" x 7.5" deep	42032
3	16" x 22" x 7.5" deep	42033
4	16" x 28" x 7.5" deep	42034

## Fume Hood Cup Sinks & Plumbing Fixtures



**Cupsink 6"**  
Diameter  
Cupsink is made of polyolefin with 1.5" IPS tailpiece and outlet strainer.  
Cat. No. 40118



**Oval Cup Sink**  
Drop-in cup sink available in polyolefin. 1.5" IPS tailpiece includes strainer.

3" x 6"	40119
3" x 9"	40121



**Oval Wall Cupsink**  
6" x 3"  
Cupsink is made of polyolefin with 1.5" IPS tailpiece and outlet strainer.  
Cat. No. 40419



**Jar P Trap**  
P-trap includes adjustable tailpiece and removable jar. with 1.5" IPS tail piece.  
Cat. No. 40220

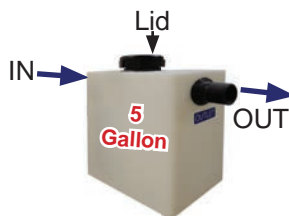


**P Trap**  
P-trap is made of polypropylene with 1.5" IPS tailpiece.  
Cat. No. 40120

## Neutralization Tanks



15 gallon tank  
(17.25" dia. x 15.5" H with 1.5" IPS inlet / outlet)  
Cat. No 40322  
Note: 15 gallon tank requires (3) bags of limestone.



**Molded of one-piece, chemical resistant polyolefin Neutralization tanks are designed to dilute and neutralize laboratory waste and concentrated corrosives.**  
5 gallon tank  
(5.5" wide x 14" deep x 20" high with 1.5" IPS inlet / outlet)  
Cat. No 40222  
Note: 5 gallon tank requires (1) bag of limestone.



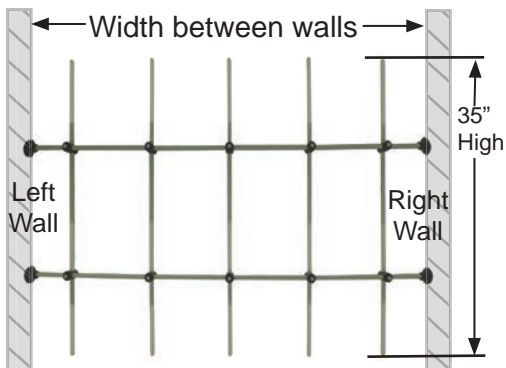
Limestone is utilized as the medium for neutralizing the hazardous waste. (50 lb bag)  
Note: Limestone is not included with tank.  
Cat. No. 40223



# Apparatus Grids and Fire Extinguishers

Distillation apparatus grids are designed to mount small apparatus and glassware in the interior of the fume hood, maximizing the work area. Grids are available in aluminum, stainless steel, or fiberglass to meet specific needs. Mounting options: 1. Grids can be mounted to the side walls of the fume hood, 2. When more strength is required, grids can mount to both the sidewalls and the worksurface, consult factory for details.

## Fume Hood Apparatus Grids



Fume hood with apparatus grid installed

Aluminum Apparatus Grid				
Fume Hood Width	48"	60"	72"	96"
Grid Width for Hood as Installed	36"	50"	62.5"	86.5"
Aluminum Rod Assembly 1/2" dia.	50141	50151	50161	50181

- All components are machined from solid aluminum bar stock.
- All aluminum lattice rod components are furnished with a satin (brushed) finish.
- Backing plates for hood wall and mounting screws for flanges are not included.

Stainless Steel Apparatus Grid				
Fume Hood Width	48"	60"	72"	96"
Grid Width for Hood as Installed	35"	46"	56"	81"
Stainless Steel Assembly 1/2" dia	50142	50152	50162	50182

- Stainless steel components offer superior strength and corrosion resistance for even the most demanding applications.
- All components are machined from Type 316 stainless steel bar stock and polished to a satin finish.
- Backing plates for hood wall and mounting screws for flanges are not included.

Non-Metallic Composite Apparatus Grid				
Fume Hood Width	48"	60"	72"	96"
Grid Width for Hood as Installed	35"	46"	56"	81"
Fiberglass Rod Assembly 1/2" dia.	50143	50153	50163	50183

- All rod components are white fiberglass.
- All connectors are molded in black nylon for strength and chemical resistance.
- Backing plates for hood wall and mounting screws for flanges are not included.
- Half open style clamps, facilitate adding or removing rods from existing assembly.

## Fume Hood Fire Extinguishers for Hazards in Fume Hood fume chamber

**Foremost: Fume hood fires must be extinguished promptly, failure to do so could result in loss of life and valuable equipment & processes. In case of a fire inside of a fume hood. 1. Lower the sash into the closed position. 2. Pull the manual front mount discharge cable to activate the fire extinguisher. 3. Shut off the fume hood blower on the fume hood, and any remote exhaust blowers that are connected. 4. Shut off any utility services that could feed a fire. Fire extinguisher activation occurs at 165° Fahrenheit. These are recommendations, contact your laboratory safety officer for guidelines.**

### ABC Dry Chemical Fire Extinguishers



1. Fire Extinguisher with automatic activation at 165° Fahrenheit.
  - With dry chemical for class ABC fires, 7.5 Square feet.....Cat No. 53010
2. Fire Extinguisher with automatic activation at 165° Fahrenheit.
  - With dry chemical for class ABC fires, 20 Square feet.....Cat No. 53020

### Halon Fire Extinguishers



3. Fire Extinguisher with automatic activation at 165° Fahrenheit.
  - With Halon, up to 50 Cubic feet.....Cat No. 53050
  - With Halon, 125 Cubic feet.....Cat No. 53125
- Manual Discharge Cable Kit.....Cat No. 53007

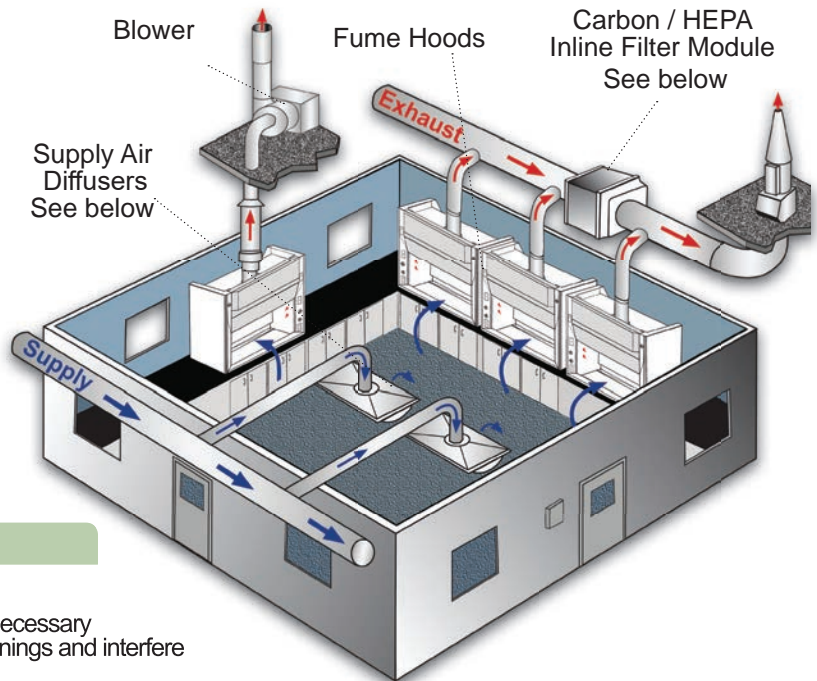
Manual discharge cable kit **Note:** Larger hoods may require (2) or more extinguishers, based on interior cubic dimensions.

# Laboratory Ventilation Recommendations

Proper placement and use of fume hoods and blowers are important laboratory ventilation requirements. HEMCO offers the following suggestions to help in your laboratory layout. For technical support please contact HEMCO.

## Location of Hood

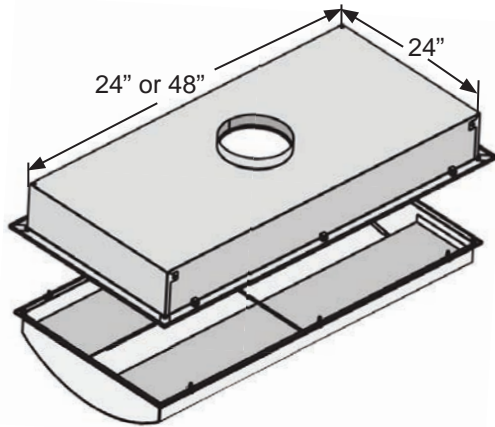
- Room air supply, air flow patterns and user convenience are the most important considerations in planning the location of hoods within the laboratory.
- Hoods placed directly in front of doors, open windows, or air conditioning registers will not perform efficiently. Drafts create turbulence at the face of the fume hood and disrupts air flow.
- Hoods should not be placed where users would be forced to work in the line of traffic. Traffic in front of the hood adversely affects fume hood air flow
- When common exhaust or supply systems are used for several hoods, the hood units should be arranged so minimum amount of ductwork is required. for more suggestions on planning your ducting system.
- Hoods used as general lab exhaust should generally be located on the opposite wall from the side-wall inlet registers or doors. The hoods should be located so that air from the registers or diffusers sweep through the laboratory area first then into the hoods.



## Hood Operation

- Consult Lab Safety Officer for correct use of fume hood.
- Hoods should not be used as laboratory storage space. Unnecessary material or unused bottles and flasks can block exhaust openings and interfere with hood performance.
- OSHA requires a fume hood be equipped with an Air Flow Monitor to track air flow velocities and warn operator of potentially dangerous low air flows due to damper, blower failure, blockage of ductwork system, or extreme sash opening height.

## Fume Hood Radial Flow Supply Air Diffuser



The Radial Flow Diffuser is designed to provide high volume / low velocity airflow into laboratory space specifically where fume hoods are located.

The uniform / low velocity airflow prevents turbulence at the hood face and efficiently distributes supply air to ensure correct air change that supports fume hood air volume requirements.

Available duct sizes: 8 or 10 inches for 24 x 24 inch models, and 10 or 12 inches for 48 x 24 inch models.

- 24" X 24" 200-500 CFM ..... **Cat. No. 90011**  
 24" X 48" 400-1,000 CFM..... **Cat. No. 90012**

## Clean Air In-Line Carbon and or HEPA Filtration Systems

HEPA Filter Paks effectively collect particulate contaminants from the exhaust air stream.



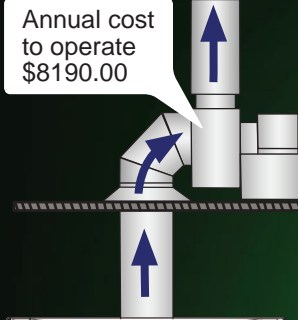
Filters can be grouped together end to end for HEPA and Carbon, or side by side for greater airflow volume. (Consult factory)

Clean Air Carbon Filter Pak					
CFM	Size		Duct Size	Cat. No.	
250-650	26" x 15" x 35 1/2"		4", 8" diameter	<b>50297</b>	
650-1200	26" x 26" x 35 1/2"		8", 10", 12" diameter	<b>50298</b>	
Carbon Filters			Prefilter (6 per carton)		
CFM	Size	Cat. No.	CFM	Size	Cat. No.
500	24" x 12" x 12"	<b>52100</b>	500	24" x 12" x 2"	<b>52000</b>
1000	24" x 24" x 12"	<b>52101</b>	1000	24" x 24" x 2"	<b>52001</b>
Clean Air HEPA Filter Pak					
CFM	Size		Duct Size	Cat. No.	
250-650	26" x 15" x 35 1/2"		4", 8" diameter	<b>50188</b>	
650-1200	26" x 26" x 35 1/2"		8", 10", 12" diameter	<b>50189</b>	
HEPA Filters			Prefilter (6 per carton)		
CFM	Size	Cat. No.	CFM	Size	Cat. No.
500	24" x 12" x 12"	<b>50094</b>	500	24" x 12" x 2"	<b>52000</b>
1000	24" x 24" x 12"	<b>50095</b>	1000	24" x 24" x 2"	<b>52001</b>

# Energy Savings Recommendations

A comparison of two fume hoods below is based on a designed 12" high operating sash height with sash management and a full open sash height without sash management. By maintaining a lower operating height, energy can be conserved, material costs saved, and user safety enhanced. Sash Management can SAVE 57% on fume hood operating cost.

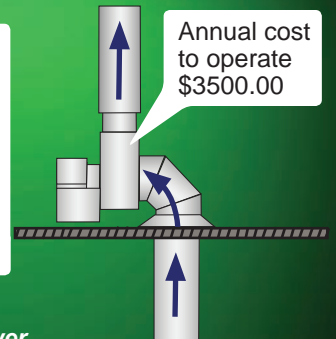
## Energy Savings



1. UniFlow 72" CAV bypass fume hood **WITHOUT** sash management requires 1170 CFM to maintain 100 FPM (face velocity) with the sash fully open. At an average of \$7.00 per CFM, the annual cost to operate this fume hood would be \$8190.00

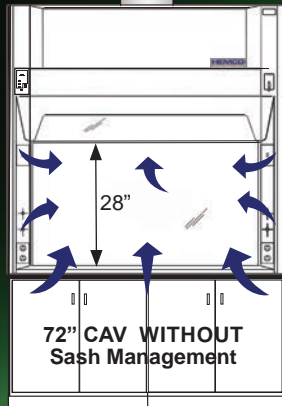
2. UniFlow 72" CAV bypass fume hood **WITH** sash management only requires 500 CFM to maintain 100 FPM (face velocity) with operating height at 14". At an average of \$7.00 per CFM, the annual cost to operate this fume hood would be \$3500.00

**Total Energy SAVINGS = \$4690.00 per year**



## Equipment Savings

Based on 20' of ducting, (1) 90° elbow, stack outlet, and exhaust blower



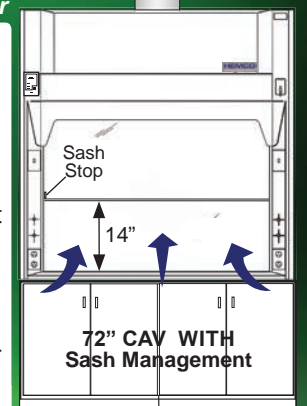
UniFlow 72" CAV bypass fume hood **WITHOUT** sash management would require 12" diameter ducting to handle the volume and duct velocity at \$200.00 per foot.

UniFlow 72" CAV bypass fume hood **WITHOUT** sash management an exhaust blower designed to maintain 100 FPM (face velocity) would require 1170 CFM @ 0.75" w.g. (static pressure) with a 10" diameter inlet and 1/2 hp motor at \$3720.00

UniFlow 72" CAV bypass fume hood **WITH** sash management would only require 8" diameter ducting to handle the volume and duct velocity at \$143.00 per foot.

UniFlow 72" CAV bypass fume hood **WITH** sash management an exhaust blower designed to maintain 100 FPM (face velocity) with sash at 14" operating height, would only require 500 CFM @ 0.75" w.g. (static pressure) with a 9" diameter inlet and 1/4 hp motor at \$3264.00

**Total Equipment SAVINGS ducting & blower = \$1617.00**



## Importance of Duct Velocity

**Duct Velocity** is important to the safe ventilation of laboratory fumes & particulate, 1200 to 1500 FPM (duct velocity) is recommended. A 72" fume hood with 1170 CFM (for full sash opening) will have a 12" diameter belled outlet duct connection & will maintain 1400 FPM duct velocity. A 72" fume hood with 500 CFM (for 12" sash opening) will have an 8" diameter belled outlet duct connection & will maintain 1400 FPM duct velocity for over a 50% reduction in volume.

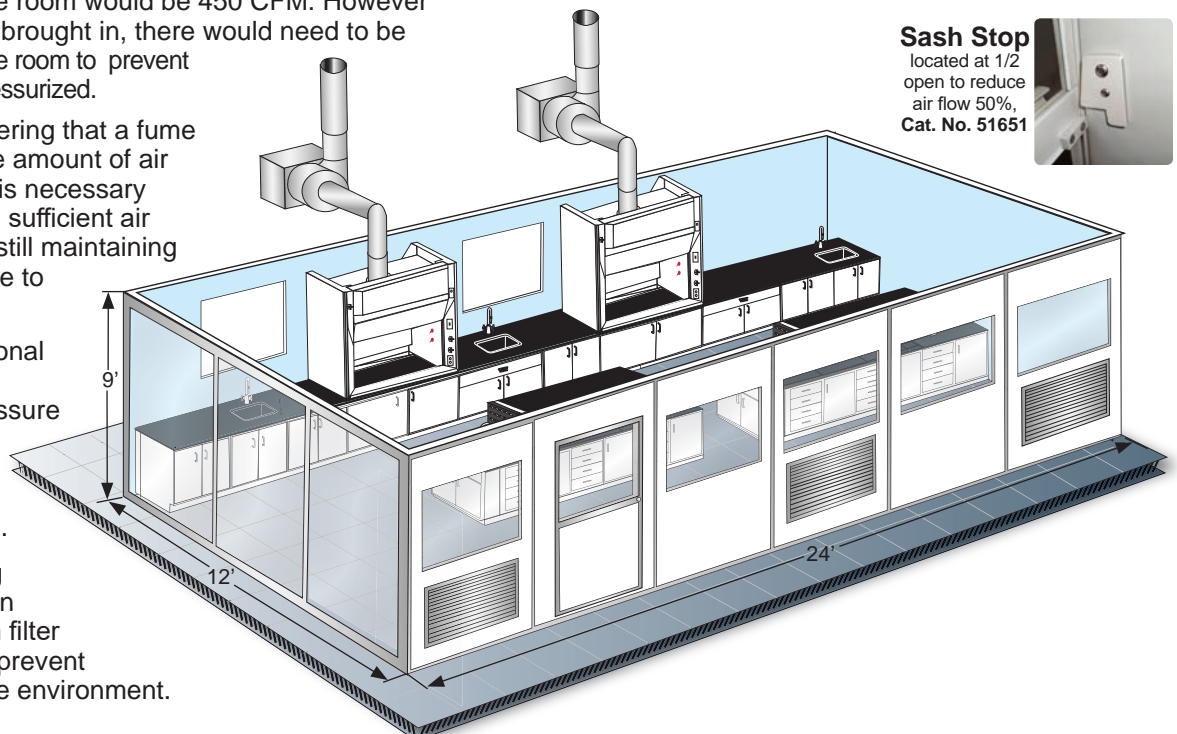
## Importance of Room Air Changes per Hour

**10-12 Air Changes per Hour** is typical to a laboratory and in some cases the fume hood not only exhausts hazardous fumes but serves as the general ventilation of the lab. The lab should always be under negative pressure; thus 10% of the exhaust should come in from the corridor under or around the door. For example, a 12' x 25' x 9' high room, at 2700 cu ft, would require approximately 450 CFM. With the hood at 500 CFM and 10% of that coming from the corridor, the minimum supply in the room would be 450 CFM. However if a greater amount is brought in, there would need to be general exhaust from the room to prevent the room from being pressurized.

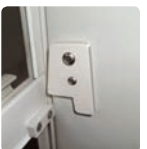
**Make-Up Air**, Considering that a fume hood exhausts a large amount of air from the lab space, it is necessary to ensure that there is sufficient air supply to the lab, yet still maintaining a negative air pressure to the surrounding area.

Because of the additional resistance in the duct system, the static pressure of inline filtration would need to be calculated when sizing the exhaust fan.

**Filtration**, Depending on the contaminant, an inline HEPA or carbon filter may be necessary to prevent pollution to the outside environment.



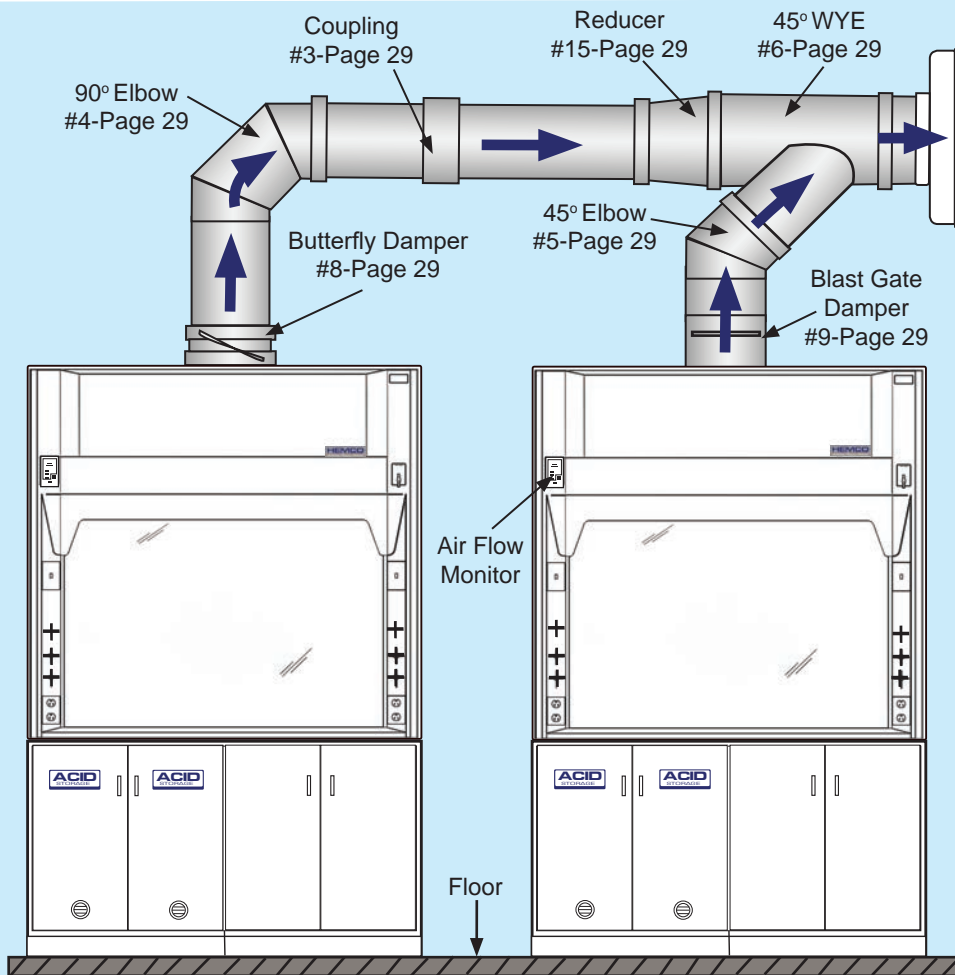
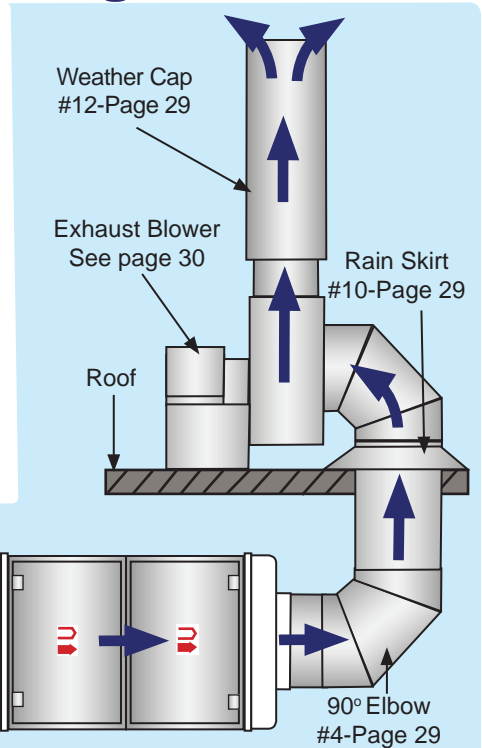
**Sash Stop**  
located at 1/2 open to reduce air flow 50%,  
Cat. No. 51651



# Fume Hood Ventilation and Duct Design

Ductwork connected to fume hoods may be arranged in a variety of patterns depending on requirements. Generally, the best exhaust system involves the shortest duct length and the fewest elbows. Duct size, length, and number of elbows affect static pressure loss and blower efficiency. Ideally, each fume hood should have its own ducting and blower to maximize hood flexibility and reduce danger of backdraft from other hoods.

Common or manifold ductwork designs can be used, provided duct and blower have been sized properly. In these designs, individual hood dampers are recommended to balance the system. Hood users must be aware of how different hood exhaust fumes will react when mixed in the ductwork. Rigid PVC ductwork is recognized as an excellent fume hood exhaust duct material. The smooth interior surface reduces static pressure loss and chemical waste build up, and PVC is extremely resistant to a wide variety of reagents. For some applications flexible PVC lined duct provides adequate service and can significantly reduce installation costs. When planning exhaust ducting, duct size, length, number of bends, and exhaust material must be considered. Consult HEMCO for Lab Ventilation Solutions.




**Air Flow Monitors**  
Note: OSHA recommends air flow alarms to be installed on all fume hoods.


**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, 115/60Hz AC.  
Cat. No. 51403

**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 Intrinsically Safe**  
For applications where the fume chamber is classified but the surrounding lab space is not. Continuously monitors face velocity air flow of fume hood. If the hood face velocity falls below set point, an audible alarm sounds and a visual red indicator light appears. Factory installed or can be field installed.  
Cat. No. 51404




**Minihelic Gauge**  
Gauge monitors the pressure across the HEPA filter. Gauge mounts on the fume hood or on the filter housing. Measure range is from 0 to 2.0" wg. accurate within 5%. Gauge is 3" dia.  
Cat. No. 51300



**Magnehelic Gauge**  
Gauge measures static pressure across the HEPA filter. Can mount on the fume hood or the filter housing. Range of measurement is from 0 to 2"wg. dia. accurate within 2%. Gauge is 5"  
Cat. No. 51301








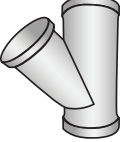
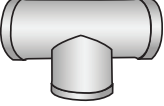



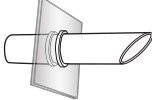

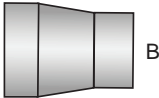
**Mini Photohelic Gauge**  
Mini-Photohelic differential pressure gauge with two SPDT switching set points, is designed to measure and control positive, negative, or differential pressures consisting of noncombustible and non-corrosive gasses. Gauge is 3" dia.  
Cat. No. 51302



**DigiHelic Gauge**  
Gauge allows selection of pressure, velocity, or volumetric flow operation. Menu keys to access 5 menus which provide access to security level, selection of pressure, velocity of flow operation, and selection of engineering units. Gauge is 3" dia.  
Cat. No. 51303

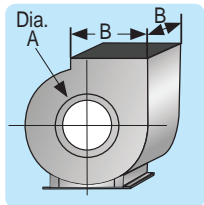
# Fume Hood Ductwork & Venting Accessories

Ducting and accessories are chemical resistant and easy to install.

Flexible and Rigid PVC Ducting		4"	6"	8"	10"	12"	14"
	<b>1. Flexible Ducting</b> neoprene impregnated fiberglass reinforced with steel helix wire. Standard 12' lengths. Each piece includes 2 clamps	Cat. No. 80051	Cat. No. 80052	Cat. No. 80053	Cat. No. 80054	Cat. No. 80055	Cat. No. 80056
	<b>2. PVC Rigid Ducting</b> chemical resistant for permanent installations. Standard 10' lengths with straight ends.	Cat. No. 82004	Cat. No. 82006	Cat. No. 82009	Cat. No. 82011	Cat. No. 82013	Cat. No. 82015
	<b>3. PVC Coupling</b> required to connect straight sections.	Cat. No. 82147	Cat. No. 82149	Cat. No. 82153	Cat. No. 82157	Cat. No. 82159	Cat. No. 82160
	<b>4. PVC 90° Elbow</b> used in order to offset obstacles. Has belled ends for duct connections.	Cat. No. 82060	Cat. No. 82061	Cat. No. 82063	Cat. No. 82066	Cat. No. 82068	Cat. No. 82069
	<b>5. PVC 45° Elbow</b> used in order to offset obstacles. Less static pressure loss than a 90° elbow. Has belled ends for duct connections.	Cat. No. 82082	Cat. No. 82083	Cat. No. 82085	Cat. No. 82087	Cat. No. 82089	Cat. No. 82090
	<b>6. PVC 45° WYE</b> lateral for joining common ductwork in multiple hood designs. Branch diameter may be sized to 2" to 4" smaller than main diameter. Has belled ends for duct connections.	Cat. No. 82216	Cat. No. 82218	Cat. No. 82226	Cat. No. 82229	Cat. No. 82233	Cat. No. 82234
	<b>7. PVC Tee</b> used in manifold exhaust systems. Has belled ends for duct connections.	Cat. No. 82034	Cat. No. 82036	Cat. No. 82038	Cat. No. 82040	Cat. No. 82044	Cat. No. 82046
	<b>8. PVC Butterfly Damper</b> modifies CFM for single or multiple hood arrangement. Has belled ends for duct connections.	Cat. No. 82450	Cat. No. 82452	Cat. No. 82454	Cat. No. 82456	Cat. No. 82458	Cat. No. 82460
	<b>9. PVC Blast Gate Damper</b> a gate that slides in and out to control CFM. Has belled ends for duct connections.	Cat. No. 82369	Cat. No. 82371	Cat. No. 82373	Cat. No. 82375	Cat. No. 82377	Cat. No. 82379
	<b>10. PVC Rain Skirt</b> slips over straight pipe on roof to slope water away from cutout.	Cat. No. 82328	Cat. No. 82330	Cat. No. 82332	Cat. No. 82334	Cat. No. 82336	Cat. No. 82337
	<b>11. PVC Vent Outlet</b> for horizontal venting through wall or window. Angled end prevents rain from entering. Male connector included.	Cat. No. 80074	Cat. No. 80076	Cat. No. 80077	Cat. No. 80078	Cat. No. 80079	Cat. No. 80080
	<b>12. Zero Pressure Weather Cap</b> discharges fumes vertically away from roof. Self-draining. Minimal static pressure loss. This is the recommended weather cap.	Cat. No. 82350	Cat. No. 82352	Cat. No. 82354	Cat. No. 82356	Cat. No. 82358	Cat. No. 82359
	<b>13. Round to Round Transition</b> to smaller duct diameter.	Cat. No. 82613 4" - 6"	Cat. No. 82615 6" - 8"	Cat. No. 82617 8" - 10"	Cat. No. 82619 10" - 12"	Cat. No. 82620 12" - 14"	Cat. No. 82621 14" - 16"

# Fume Hood Exhaust Blowers Ordering Info

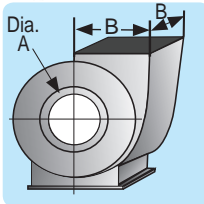
A complete line of belt and direct drive exhaust blowers that are chemical resistant & available in standard and explosion-proof models. HEMCO blowers are designed to operate effectively and efficiently to remove noxious & hazardous fumes. Standard 115V 60Hz & international electrical configuration of 220V 50Hz AC available.



## Epoxy Coated Steel Blower Belt Drive

Standard (STD) belt drive steel blower and impeller wheel are epoxy coated for superior chemical resistance. Explosion-proof blowers (EXP) have epoxy coated, non-sparking aluminum impeller wheel. V-belt drive and adjustable pulleys permit field balancing. Seven discharge positions to suit installation. Weather housing is furnished. Motor has thermal overload protection. Specify: 115V single phase, 230V single phase, 230/460V three phase or 208V(consult factory). 1 year manufacturer's warranty

Catalog Number and Static Pressure														
CFM	A Inlet Dia	B Outlet Size	1/2" Static Pressure			3/4" Static Pressure			1" Static Pressure			1 1/2" Static Pressure		
			HP	STD	EXP	HP	STD	EXP	HP	STD	EXP	HP	STD	EXP
296	8 7/8"	10 1/8" x 4 1/8"	1/4	51701	51801	1/4	51702	51802	1/4	51703	51803	1/4	51704	51804
800	8 7/8"	10 1/8" x 6 3/8"	1/2	51713	51813	1/2	51714	51814	1/2	51715	51815	3/4	51716	51816
1044	9 7/8"	11 1/2" x 8 1/4"	1/2	51719	51819	1/2	51720	51820	3/4	51721	51821	—	—	—
1240	9 7/8"	11 1/2" x 8 1/4"	1/2	51725	51825	1/2	51726	51826	3/4	51727	51827	3/4	51728	51828
1771	11 7/8"	13 3/8" x 8 1/4"	1/2	51734	51834	3/4	51735	51835	3/4	51736	51836	1	51737	51837

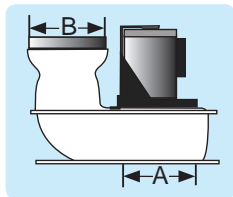


## Epoxy Coated Steel Blower Direct Drive

Direct drive steel blower and impeller wheel are epoxy coated for superior chemical resistance. Explosion proof blowers have epoxy coated non-sparking aluminum impeller wheels. Motor is 115V, 1 phase and has thermal overload protection. 1 year manufacturer's warranty. Designed to clean up fume hood exhaust fumes.

Catalog Number and Static Pressure								
A Inlet Diameter	B Outlet Size	HP	STD	EXP	1/4" SP	1/2" SP	3/4" SP	1" SP
					Free Air CFM	Free Air CFM	Free Air CFM	Free Air CFM
6"	7" X 4-3/8"	1/6	51177	51178	565	515	440	300
8"	8-3/4" X 5-7/16"	1/3	51179	51180	935	875	800	712
9"	10-1/8" X 4-1/8"	1/2	51181	51182	1050	980	920	850
9"	10-1/8" X 5-1/8"	3/4	51183	51184	1260	1220	1180	1100

Standard motors are 115V, 60Hz / 1 phase. Explosion proof motors are 115/230V, 60Hz, 1 phase. Other voltage, hertz, and phase motors are available.



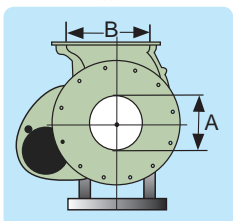
## Vertical Intake Vertical Discharge Blower Direct Drive

Vertical Intake Vertical Discharge Blowers, mounted in the interstitial ceiling space of the fume hood. Blower housing is constructed of FRP for chemical resistance Direct drive blower and impeller wheel are epoxy coated for superior chemical resistance. Explosion proof blowers have epoxy coated non-sparking aluminum impeller wheels. Motor is 115V, single phase and has thermal overload protection. Available on UniFlow SE, and CE fume hoods. 1 year manufacturer's warranty

Catalog Number and Static Pressure								
Free Air CFM	A Inlet Diameter	B Outlet Size	HP	STD	EXP	1/4" SP	1/2" SP	3/4" SP
						CFM	CFM	CFM
160	6"	4"	1/6	51060	51061	115	--	--
280	6"	6"	1/4	51062	51063	200	125	--
590	8"	8"	1/2	51064	51065	500	450	350
685	10"	10"	1/2	51068	51069	550	425	300

## Polypropylene Blower Belt Drive

High efficiency impellers produce low power consumption, reduced operating costs and quiet operation. 20 forward curved blades, in fire retardant polypropylene. Non-static and oil resistant V-belt, cast iron pulleys, adjustable pulleys available, adjustment for tensioning and belt replacement. 230V explosion proof, non sparking, chemical resistant for hostile or hazardous environments. 115V single phase or three phase. Non-static and oil resistant V-belt, cast iron pulleys, adjustable pulleys available, adjustment for tensioning and belt replacement. 1 year manufacturer's warranty



Catalog Number and Static Pressure								
A Inlet Diameter	B Outlet Size	HP	STD	EXP	1/4" SP	1/2" SP	3/4" SP	1" SP
					Free Air CFM	Free Air CFM	Free Air CFM	Free Air CFM
6"	7" X 4-3/8"	1/6	51177	51178	565	515	440	300
8"	8-3/4" X 5-7/16"	1/3	51179	51180	935	875	800	712
9"	10-1/8" X 4-1/8"	1/2	51181	51182	1050	980	920	850
9"	10-1/8" X 5-1/8"	3/4	51183	51184	1260	1220	1180	1100

# Clean-Aire HEPA/Carbon InLine Filtration Systems

Clean-Aire HEPA and Carbon Filter Paks are designed to be mounted inline in the exhaust ducting from a fume hood or contaminant source up to 1500 cfm. The filter pak includes a galvanized steel housing with hinged and gasketed access door for filter change-out and molded composite resin inlet and outlet plenums with duct connection collars sized to meet specification. Both filters include a 30% pleated prefilter and can be paired together for applications that require particulate and fume removal.



Carbon HEPA  
Double Filtration Pak Shown

## Clean-Aire In-Line HEPA Filtration Systems

HEMCO HEPA filter paks effectively collect particulate contaminants from the exhaust air stream. HEPA filters are 99.999% effective at removing particulate .3 micron and larger. The filter pak housing features a hinged access door with gaskets and spring latches for convenient filter change. Inlet and outlet plenums with duct connection collars are installed. The HEPA filter pak can also be paired with a carbon filter pak to remove chemical fumes and odors.

Note: HEMCO recommends a minihelic or magnehelic gauge to monitor the air flow differential across the filter. The static pressure indicated would alert when to change filter. The gauges can be hood or filter mounted. We recommend ordering a back-up replacement filter.



Shown with optional photohelic gauge Cat. No. 51302

Clean-Aire HEPA Filter Pak

CFM	Size	Duct Size	Cat. No.		
250-650	26" x 15" x 35.5"	4", 6", 8" diameter	50188		
650-1200	26" x 26" x 35.5"	8", 10", 12" diameter	50189		
HEPA Filters			Prefilter (6 per carton)		
CFM	Size	Cat. No.	CFM	Size	Cat. No.
500	24" x 12" x 12"	50094	500	24" x 12" x 2"	52000
1000	24" x 24" x 12"	50095	1000	24" x 24" x 2"	52001

• Mini-Photohelic differential pressure gauge with 2 SPDT switching set points, designed to measure and control positive, negative, or differential pressures consisting of noncombustible and non-corrosive gasses. Gauge is 3" diameter. **Cat. No.51302**

## Clean-Aire In-Line Carbon Filtration Systems

HEMCO carbon filter paks are used in laboratory exhaust and supply systems to remove chemical odors and vapors from the airstream. Filters are loaded with virgin coconut activated carbon to efficiently absorb organic solvents and acid fumes. The filter pak housing features a hinged access door with gaskets and spring latches for convenient filter changes. Inlet and outlet plenums with duct connection collars are installed. The carbon filter pak can also be paired with a HEPA filter pak to collect particulate contaminants.

Note: A standard "01" activated carbon filter for organics is included. HEMCO recommends the sampling kit to check if there has been a breakthrough in the carbon filter, and ordering a back-up replacement filter.



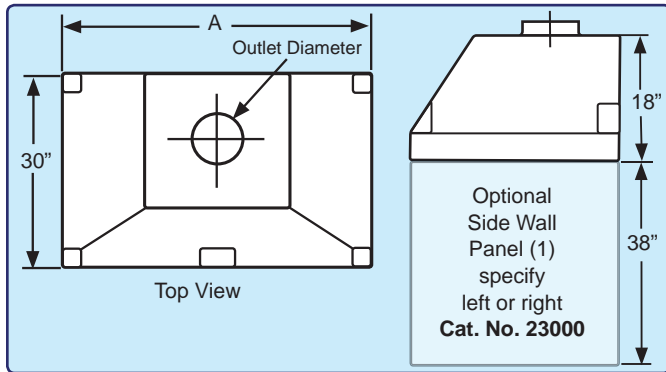
Clean-Aire Carbon Filter Pak

CFM	Size	Duct Size	Cat. No.		
250-650	26" x 15" x 35.5"	4", 8" diameter	50297		
650-1200	26" x 26" x 35.5"	8", 10", 12" diameter	50298		
Carbon Filters			Prefilter (6 per carton)		
CFM	Size	Cat. No.	CFM	Size	Cat. No.
500	24" x 12" x 12"	52100	500	24" x 12" x 2"	52000
1000	24" x 24" x 12"	52101	1000	24" x 24" x 2"	52001

# Canopy Hoods

Canopy hoods are designed to collect and exhaust corrosive vapors, heat, steam, and odors when mounted over areas with water baths, hot plates, or portable equipment. Standard color: Lab White

## Wall Canopy Hoods (FRP or stainless steel, Includes wall mounting kit) (custom sizes available)

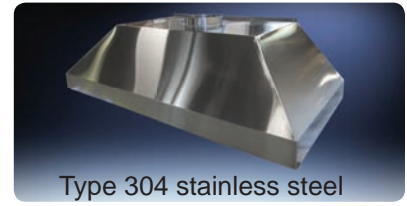


**Side Wall Panel**  
(fiberglass or stainless steel)  
kit includes one wall panel  
and hardware.  
**Cat. No. 23000**

Rear Wall Panel  
(consult chart for Cat.No.)

Vapor Proof Light  
& Switch **Cat. No. 50035**

Blower Switch 115V/15A  
**Cat. No. 50028**

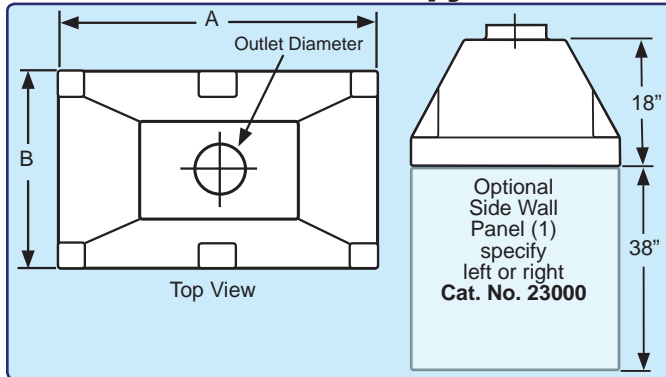


Type 304 stainless steel



Width A	36"	48"	72"	96"	Side Wall Panels
<b>Fiberglass Cat. No.</b>	<b>13030</b>	<b>13040</b>	<b>13060</b>	<b>13080</b>	<b>23000</b>
<b>Fiberglass Rear Wall Panel</b>	<b>23016</b>	<b>23026</b>	<b>23036</b>	<b>23046</b>	--
<b>Stainless Steel Cat No.</b>	<b>13130</b>	<b>13140</b>	<b>13160</b>	<b>13180</b>	<b>23011</b>
<b>Stainless Steel Rear Wall Panel</b>	<b>23116</b>	<b>23126</b>	<b>23136</b>	<b>23146</b>	--
<b>Diameter D</b>	6"	8"	10"	(2) 10"	--

## Island Canopy Hoods (FRP or stainless steel) (custom sizes available)



**Suspended Island Canopy Hood Mounting Kit** Includes all components to secure to ceiling including 6' long threaded rods.  
**Cat. No. 23001**

**Side Wall Panel**  
(fiberglass or stainless steel)  
kit includes one wall panel  
and hardware. **Cat. No. 23000**

Rear Wall Panel  
(consult chart for Cat.No.)

Vapor Proof Light  
& Switch **Cat. No. 50035**

Blower Switch 115V/15A  
**Cat. No. 50028**

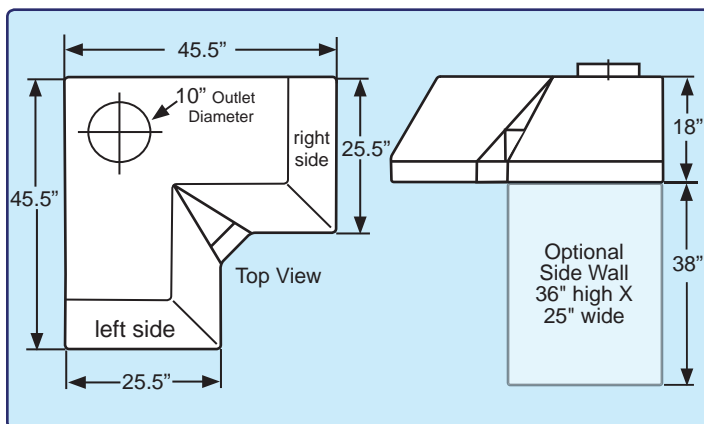


Type 304 stainless steel



Width A	36"	48"	72"	96"	Side Wall Panels
Depth B	24"	30"	30"	30"	
<b>Fiberglass Cat. No.</b>	<b>23030</b>	<b>23040</b>	<b>23060</b>	<b>23080</b>	<b>23000</b>
<b>Fiberglass Rear Wall Panel</b>	<b>23016</b>	<b>23026</b>	<b>23036</b>	<b>23046</b>	---
<b>Stainless Steel Cat No.</b>	<b>23130</b>	<b>23140</b>	<b>23160</b>	<b>23180</b>	<b>23011</b>
<b>Stainless Steel Rear Wall Panel</b>	<b>23116</b>	<b>23126</b>	<b>23136</b>	<b>23146</b>	---
<b>Diameter D</b>	6"	8"	10"	(2) 10"	---

## Corner Canopy Hoods (FRP, Includes wall mounting kit)



**Side Wall Panels** (fiberglass) 36" h X 25" w, kit includes one wall panel and hardware  
**Cat. No. 23006**

Rear Wall Panels (2) required  
Qty (1) 36" high X 45" wide  
**Cat. No. 23056**

Vapor Proof Light & Switch **Cat. No. 50035**

Blower Switch 115V/15A  
**Cat. No. 50028**

Corner Composite Resin Worksurface Gray, Comes dished to contain spillage.  
**Cat. No. 13503**

**Corner Table** Features White welded steel construction. **Cat. No. 13502**



Corner Canopy (includes mounting kit, to install canopy to two adjacent walls) **Cat. No. 13000**



# Laboratory Emergency / Shower Decontamination Booths

Full body emergency shower & eye / face wash, both with immediate response activation handle.

Durable one-piece seamless fiberglass construction with glass smooth white surfaces and covered corners for ease of clean-up.

Emergency showers available with translucent frosted strip curtains, which provides for easy access into booth, while containing contaminated water splash.

Stainless steel Grab bars located on right & left sides to support victim and rescue personnel during decontamination, included.

Plumbing is provided, for installation by local certified plumber. Plumbed to single point 1.25" IPT. connection. Tempered warm water supply connection 20 GPM water supply is required.

Raised fiberglass deck with self draining containment basin, and 2" diameter drain outlet located on either the bottom or rear of unit.

**Industrial Applications**  
**Emergency Drench Shower Booth**  
 unit is equipped with pull rod activated overhead drench shower and rear wall mounted eye/face wash.  
**Cat No. 16601**


**Laboratory Applications**  
**Emergency Drench Shower Booth**  
 same specs as above except with finished exterior side panels.  
**Cat No. 16604**



Cat. No. 16601  
 For Industrial Applications  
 shown above

*Note: OSHA & ANSI require that emergency shower is to be located within 10 seconds walking time from the hazardous site location.*



  
**Alarm Horn & Light**  
 Audible warning sound when system is activated by flow switch. Top mounted visual warning light when system is activated.  
**Cat. No. 16680**




**Overhead Drench Shower**  
 Shower unit features 10" diameter plastic head and 1" IPS brass "stay open" valve with rigid pull rod and handle.  
**Cat. No. 16088**



**Eye/Face Wash**  
 Wall mounting unit features two large plastic heads, push plate operated "stay open" ball valve. 1/2" IPS inlet, and 1.25" IPS drain.  
**Cat. No. 16006**

## Eye and Face Wash Options

  
**Hand Held Body Wash**  
 Squeeze valve nozzle on 8' coiled hose and bracket. Can be used to rinse all body parts while victim is sitting or lying down. Wall or hood mounted, 3/8 NPT, barrier free.  
**Cat No. 16005**



**Swing-Out Eye Wash**  
 Deck mounted next to sink. Activates when pivoted. 1/2" NPT. Barrier free.  
**Cat. No. 16009**



**Hand Held Eye/Face & Body Wash**  
 Mounted on the front side-wall of the fume hood. Includes 8' hose and surface escutcheon. 3/8" NPT. barrier free.  
**Cat. No. 93966**

# EnviroMax Vented Enclosures

## EnviroMax Vented Exhaust Enclosure sizes 4', 5', 6', and 8' wide by 30" & 36" deep by 48" high



Project: National Forensics & Coroners Complex, Canada  
**EnviroMax enclosure, unitized 120" wide X 36" deep X 48" high, with custom acid storage cabinets**

Unitized design with depth of 30" and 36" to allow passage through door ways for easy on-site setup. Viewing from all four sides of the enclosed system. Access to interior of enclosure, available from any or all sides. Vent duct sized to airflow requirements. Pre-wired electrical connection to single point junction box. Under the bench storage and shelving designed to suit your requirements. Note: Custom sizes are welcomed.

Unitized Construction Sizes			
Width	Depth	Height	Cat. No.
48"	30"	48"	61041
60"	30"	48"	61051
72"	30"	48"	61061
96"	30"	48"	61081
48"	36"	48"	61042
60"	36"	48"	61052
72"	36"	48"	61062
96"	36"	48"	61082

## EnviroMax Vented Exhaust Enclosure

Superstructure is welded steel framework with chemical resistant white powder coated finish. Side and rear walls are of clear acrylic or tempered glass. Ceiling is constructed of molded composite resin with the outlet duct connection collar sized for desired air volume. Slotted ceiling baffle allows air to flow evenly through the interior area into the exhaust plenum. The front of the enclosure features horizontal sliding shatter-proof clear viewing panels, (4) panels on (2) tracks allowing access at any position. Fluorescent light is factory installed and sealed behind a clear lens. Light switch is mounted on the front post. Provides an economical and flexible work space that exceeds stringent contamination requirements. All electrical components are U.L. listed.

# EnviroMax HEPA Filtered Enclosures

## EnviroMax HEPA Filtered Clean Workstation. Sizes are 4', 5', 6', & 8' wide by 60" high



Project: Wyeth / Pfizer  
**EnviroMax laminar flow enclosure size: 72" wide X 36" deep X 60" high with UV light, & standard base table**

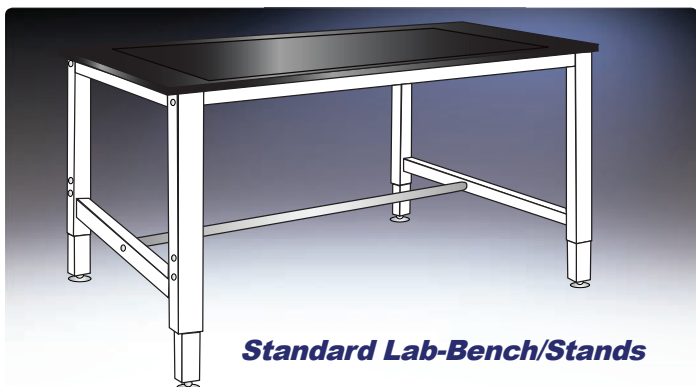
Unitized design with depth of 30" and 36" to allow passage through doorways for easy on-site set-up. HEPA filters provide sterile clean airflow through work area with air returned to room space. Pre-wired electrical connection to a single point junction box. Work surfaces & support benches. Note: Custom sizes are welcomed.

Unitized Construction Sizes			
Width	Depth	Height	Cat. No.
48"	30"	60"	63041
60"	30"	60"	63051
72"	30"	60"	63061
96"	30"	60"	63081
48"	36"	60"	63042
60"	36"	60"	63052
72"	36"	60"	63062
96"	36"	60"	63082

## EnviroMax Specifications Clean Workstation

Superstructure is welded steel framework with chemical resistant white powder coated finish. Side and rear walls are of clear acrylic or tempered glass. The front comes equipped with horizontal slide windows with air outlet slots on sides and front to maintain positive pressure. HEPA filters are ceiling mounted in the enclosure and designed to maintain a minimum of class 100 environment. HEPA filters are 99.99% efficient at .3 micron HEPA filter module has an integral fan, prefilter, and speed control. Fluorescent lighting is provided, switches are located on the front post. Provides an economical and flexible work space that exceeds stringent contamination requirements. All electrical components are U.L. listed.

## Standard Lab-Bench/Stand for Enclosures



**Standard Lab-Bench/Stand**

- Available in 4', 5', 6' & 8' widths. Depths of 30" & 36".
- Tested to 2000 lb. load capacity.
- Adjustable telescoping 2" square steel legs adjust to 28", 30", 32" & 34" heights.
- Sturdy dual locking bolts on each leg.
- Height adjustable leveling legs on all four legs.
- Optional seismic levelers for legs.
- Equipped with Phenolic resin work surface
- 15" deep shelf standard

Heavy Duty Lab-Bench/Stand				
Depth "B"	Width "A"			
	48"	60"	72"	96"
30"	54821	56021	57221	59621
36"	54822	56022	57222	59622

# EnviroMax Vented Enclosures

## EnviroMax Vented Exhaust Enclosures protects personnel

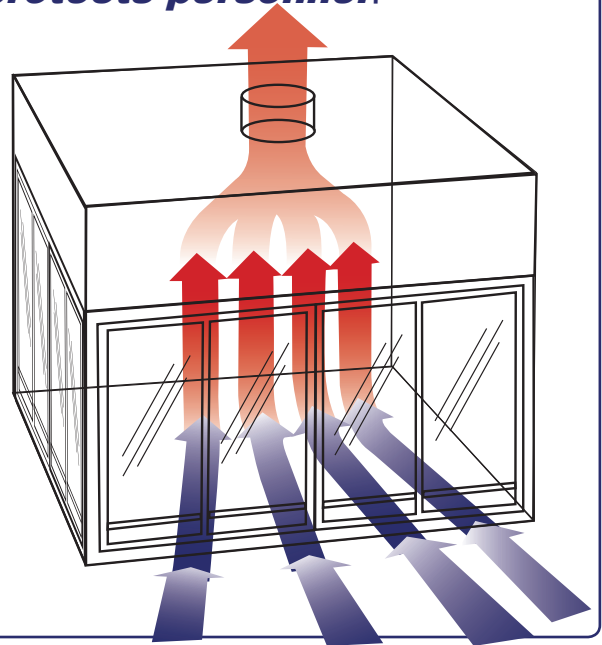
**A Vented Exhaust Enclosure offered in Modular Designs for exhausting fumes from Robotic & Automated processes**

Designed to protect personnel from potentially hazardous fumes, vapors and odors. The enclosure can connect to in-house exhaust system or a dedicated exhaust blower, to provide the internal negative pressure needed to safely remove hazardous fumes from the work area. Air supply into the enclosure is supplied from the surrounding lab environment.

### EnviroMax Options

- Access on any or all sides • Multi-Plug strips • Exhaust blowers • Vertical slide or hinged doors • Base cabinets • Exhaust HEPA or carbon filters • Other materials of construction • Anodized aluminum & stainless steel framing • Plumbing and electrical service fixtures • Airflow Monitors • Support benches & work surfaces

Contact us for custom enclosures built to your exact specifications or visit: [www.HEMCOcorp.com](http://www.HEMCOcorp.com)



# EnviroMax HEPA Filtered Enclosures

## EnviroMax HEPA Filtered Clean Work Enclosures

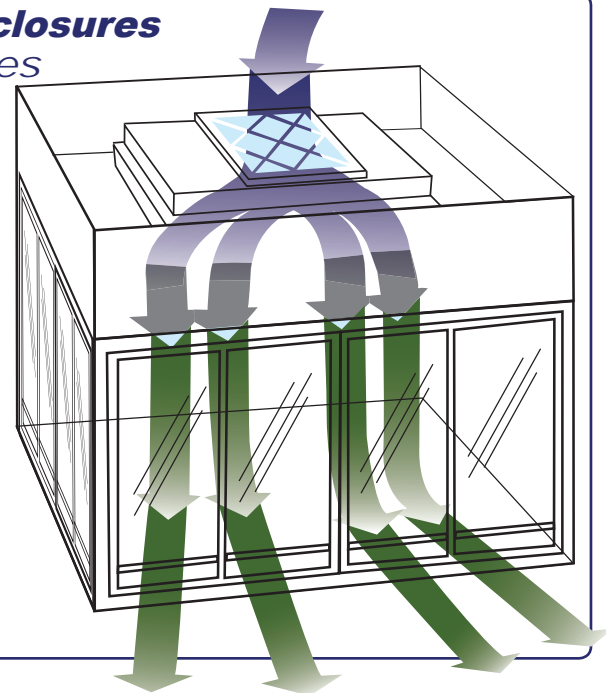
*Laminar Flow Benches protects processes*

**HEPA Filtered Enclosure offered in Modular Design for Class 100 Clean Work Enclosure**

Specifically engineered to meet critical clean specifications by isolating equipment and procedures. The HEPA filtration eliminates particles 0.3 or larger to an efficiency of 99.995%, class 100 laminar airflow maintains a sterile work zone. Filters and lighting are conveniently changed from inside the enclosure. Optional U.V. lighting, anti-static and grounding options are available.

### EnviroMax HEPA Filtered Options

- Access on any or all sides • Multi-plug strips • Magnehelic gages • cord port • base cabinets • Other materials of construction • Anodized aluminum & stainless steel framing • Electrical and key lock services • Support benches & Work surfaces • Accessories



## Worksurface Tops Specifications

Material	Description of worksurface tops	Depth "B"	Width "A"			
			48"	60"	72"	96"
*Durcon Epoxy Resin	1" thick chemical, heat & abrasive resistant epoxy resin work surface, 30" & 36" depth. color: black	30"	20425	20525	20625	20825
		36"	20424	20524	20624	20824
Phenolic Resin	1" thick chemical, scratch & wear resistant phenolic resin work surface. 30" & 36" depth. color: black	30"	20427	20527	20627	20827
		36"	20426	20526	20626	20826
Plastic Laminate	1.5" thick, scratch & wear resistant plastic laminate work surface. 30" & 36" depth. color: gray	30"	20428	20528	20628	20828
		36"	20429	20529	20629	20829
ESD Laminate	1.25" thick, electrostatic dissipative ESD laminate work surface. 30" & 36" depth. color: gray	30"	20422	20522	20622	20822
		36"	20423	20523	20623	20823
Stainless Steel	1.25" thick, stainless steel work surface. 30" & 36" depth.	30"	20431	20531	20631	20831
		36"	20430	20530	20630	20830
Aluminum Optical Bread Board	25 mm thick, solid aluminum work surface. tapped & anodized, 30" & 36" depth. color: flat black	30"	20421	20521	20621	20821
		36"	20420	20520	20620	20820



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**ASHRAE**  
 American Society of Heating Refrigeration and Air-Conditioning Engineers



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**American Society of Mechanical Engineers**



**American Chemical Society**  
 Chemical Health & Safety



**International Society of Pharmaceutical Engineers**



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**EnviroMax Enclosures for Robotic and Automated Lab Processes**



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