

Fume Hood Catalog









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Challenging Preconceived Ideas.

All manufacturers' products are similar. Not any more: The Green Solution Hood is a filtering fume hood that uses multitask Neutrodine® filtration technology instead of standalone carbon filtration commonly found in application-specific products known as ductless fume hoods. Furthermore, The Green Solution Hood combines the highly versatile proprietary Neutrodine® filtration technology with the revolutionary gGuard monitoring package to offer a much larger usage spectrum than has ever been available before. Neutrodine®—which is in compliance with the ASHRAE 110-1995 and AFNOR NF X 15-211 filtration standards—enables The Green Solution Hood to exhaust 100 times less toxic contaminants than are allowed by the official TLV while maintaining the industry's preferred 100 fpm face velocity at various working sash heights. In addition, gGuard gives The Green Solution Hood owners total control and an unprecedented level of safetv.

There are a great variety of chemicals in the lab and carbon filters are too specific. Not any more: Neutrodine® can handle the majority of chemicals traditionally used in laboratories. Furthermore, thanks to the world's first Adaptable Modular Filtration Column (AMFC), The Green Solution Hood can handle liquids and powders—either individually or together—even in a cleanroom environment.

Heavier molecules can push out lighter molecules.

Not any more: This problem only occurs with low quality carbons or carbons that are specifically designed to desorb such as the carbon used in industrial filters to recover solvents. Neutrodine® filtration technology uses a proprietary high quality carbon with a plurality of pores so large and diverse that both light and heavy molecules are retained independent of one another.

If high quality carbon were able to desorb, military gas masks would be rendered useless by an enemy simply releasing a heavier gas. Obviously this isn't the case. High quality carbon is trusted in applications worldwide, even when—as in this example—reliability is a matter of life and death.

In the event of a spill, carbon filtration has limited capacity for containing large concentrations of chemicals.

Not any more: The Green Solution Hood uses Neutrodine® Technology instead of the standalone carbon filters found in limited application ductless fume hoods. Test reports show that The Green Solution Hood with Neutrodine® Technology delivers back-up redundancy capabilities capable of containing chemical spills in excess of 1 gallon.

Carbon filtration requires controlled conditions, operator intervention and constant monitoring. Ducted fume hoods are much simpler to use.

Not any more: Unlike application-specific products that require operator intervention, The Green Solution Hood with Neutrodine® Technology is very simple to use. Activating an on/off switch is the only responsibility required from the operator. All other functions are controlled and monitored with the help of the gGuard management package. This system—which uses proprietary software developed with Microsoft® technologies—makes The Green Solution Hood with Neutrodine® Technology easier to use since safety-related functions are taken out of the hands of the operator and handled remotely, and constantly, by the person(s) in charge of safety. The Green Solution Hood with Neutrodine® Technology also features a series of innovative detectors and monitors that provide a wealth of operational information and management capabilities never before seen in a laboratory fume hood.

Filters are expensive and difficult to change.

Not any more: Unlike previous generations of filters, we are able to estimate the life of your filters with our Life Cycle Payback. Simply fill out our questionnaire to find out if our system is not only safe for your application, but economical as well. When it comes time to change the filters, no special tools are required and you will be back up and running within an hour.



[≗]Green Solution Hood

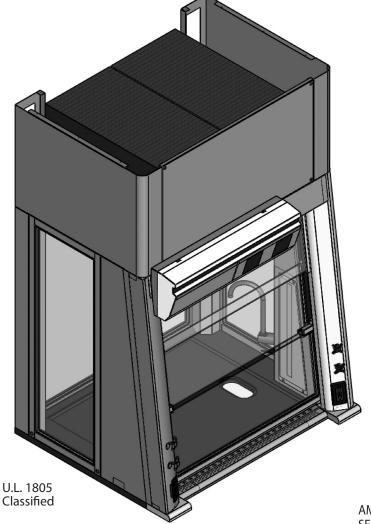
The Green Solution Hood with proprietary Neutrodine® Filtration Technology: Save energy without compromising usage, performance or safety.

TheGreenSolutionHood—withthebreakthroughNeutrodine®systembyErlab®—offersa revolutionary turnkey solution providing a variety of installation, operational and environmental benefits to virtually any laboratory. Compared to traditional fume hoods in operation today,

The Green Solution Hood with Neutrodine® Technology enables labs to:

- Add a fume hood without affecting building HVAC
- Save energy while maintaining 100 fpm face velocity.
- Cut energy costs by 96% and reduce operating costs by 70%.
- Handle liquids and solids (including acids, bases, solvents and powders)—individually or together—with a single hood.
- Virtually eliminate installation costs.
- Operate safely without polluting and contaminating the environment.
- Maintain productivity without changing the way lab technicians work.
- All hoods commissioned by factory personnel.
- All fume hoods are certified with a Life Cycle Payback. This certification by our lab assures researcher safety as well as economic feasibility

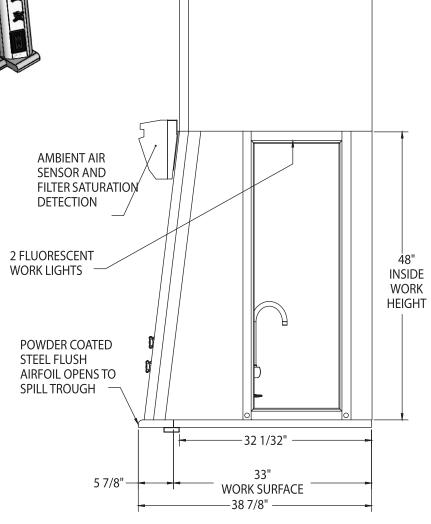


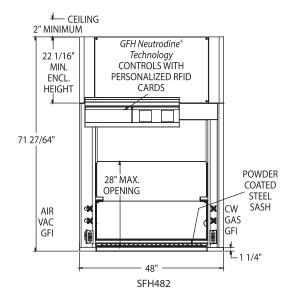


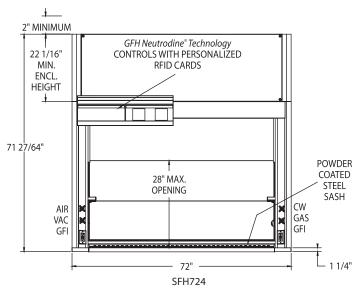
Unprecedented safety in a hood that uses 96% less energy than standard hoods and has an operating cost 70% lower.

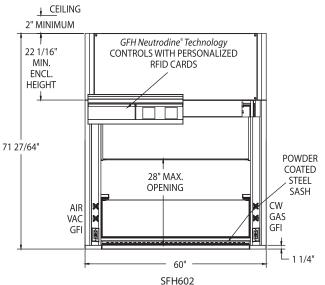
The Green Solution Hood and its patented Neutrodine® filtration system by Erlab® use molecular adsorption to handle fumes from acids, solvents, liquids, and even powders with the use of a HEPA filter accessory, together or individually all under the same hood.

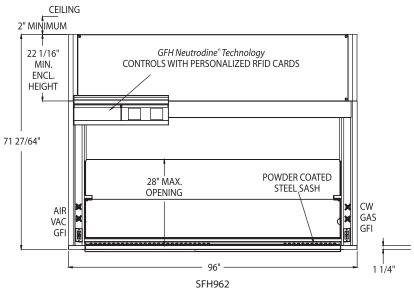
- •360 degree viewing
- Powder coat finish
- Flush-mount airfoil/trough
- Integral sash counterbalance
- Epoxy top
- Sliding pass-by sashes
- Interior access to plumbing
- Front mount service fixtures
- Plumbing outlets within arm's reach
- •Full 28" hood opening
- GFI receptacles











Optional plumbing fixtures shown.

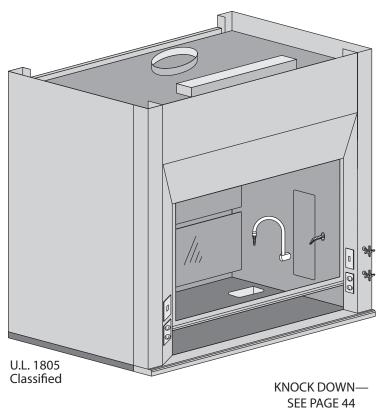
Part Number	Sı	uperstructui	re e		Worktop		Hood C	Shipping	
Part Number	W	Н	D	W	Н	D	W	Н	Weight
SFH-482	48"	71-7/16"	38-7/8	48"	1-1/4"	33"	38"	28"	375
SFH-602	60"	71-7/16"	38-7/8	60"	1-1/4"	33"	50"	28"	425
SFH-724	72"	71-7/16"	38-7/8	72"	1-1/4"	33"	62"	28"	475
SFH-962	96"	71-7/16"	38-7/8	96"	1-1/4"	33"	86"	28"	575

100fpm @ 12" open; 60fpm @ 18" open

accessories The Green Solution Hood can be remotely accessed with the use of a gGuard Onsite with a PC/pocket device or gGuard online which provides both monitoring and maintenance services via the Internet. gGuard will tell you realtime filter condition, sash position, blower motor speed, filter saturation level, ambient laboratory air, enclosure temperature, energy savings data and usage time. Hoods can also be incorporated into a building automation system.



The Eliminator HP SERIES: High Performance/Energy Efficient



A Green Alternative

The Eliminator HP hood comes standard with all the same features as other Eliminator models, along with some additional innovations to set this hood apart from its competitors. Features of the HP Series include:

- Passed ASHRAE 110 AM testing with sash in full open position.
- Standard 30" deep work surface for zero work space loss in your lab. Other depths available.

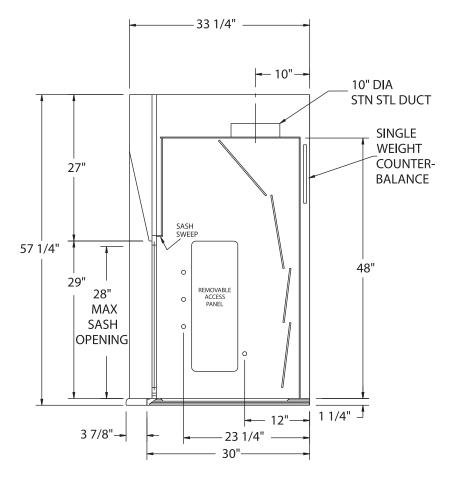
The HP model is designed to operate economically while creating a safe work environment without compromising containment. By operating at 60 FPM, air flow across the sash opening results in a 40% savings in fume hood operation costs.

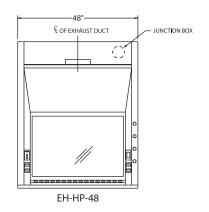
The HP hood was designed to do all this and still fit on a standard-depth countertop and cabinet. This means no disassembly and reassembly during the installation process. The HP hood fits through a standard door opening, making this hood the choice for renovation or new construction.

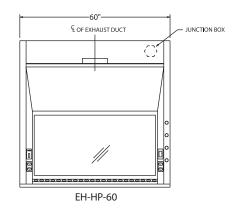
- 60 FPM
- FITS THROUGH STANDARD DOOR
- 30" COUNTERTOP

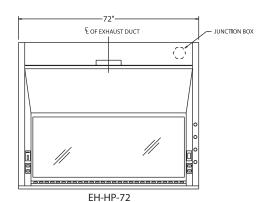
The HP Eliminator is THE hood for remodeling, new construction or retrofitting.

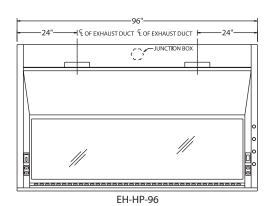
- Powder coat finish
- Full frame construction
- Shaft drive sash
- •U.L. listed poly resin liner
- •Flush-mount airfoil
- Knock down capability
- T-8 fluorescent light with bulbs
- Full-length finger lift
- Sash sweep
- •25.5" interior working depth
- LED light available











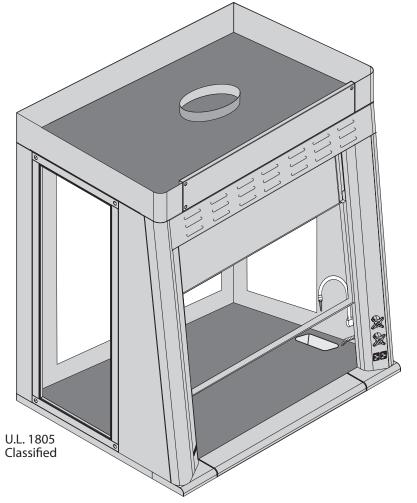
Daut Mussalaau	Sı	ıperstru	cture		Worktop		Hood (pening	CFM @ 28"*		SP	Blower Model #	Shipping Weight
Part Number	W	Н	D	W	Н	D	W	Н					
EH-HP-48	48"	56"	33-1/4"	48"	1-1/4"	30"	38"	28"	469	313	.25	BL-HP-48	415
EH-HP-60	60"	56"	33-1/4"	60"	1-1/4"	30"	50"	28"	619	413	.34	BL-HP-60	490
EH-HP-72	72"	56"	33-1/4"	72"	1-1/4"	30"	62"	28"	769	513	.34	BL-HP-72	535
EH-HP-96	96"	56"	33-1/4"	96"	1-1/4"	30"	86"	28"	1069	713	.34	BL-HP-96	570

*Height of open sash; CFM calculated at 60 FPM For High Performance VAV Hoods, add -VAV to the part number.

ITEM	AMS PT#	PAGE #
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Epoxy Tops	ET	39
Alarms	ALARM	32
Base Cabinets	ВС	36
Blowers	BL	Call
Pre-Plumbing	PREP	
Pre-Wiring	PREW	

ITEM	AMS PT#	PAGE #
Sash Stops	SASHSTOP	38
Chain and Sprocket Drive	CHNSPK	Call
Stainless Steel Sash	SS SASH	38
Stainless Steel Airfoil	SS AF	
Push Button Sash	PUSH BUTTON	38
Combination Sash	H&V	38
Lattice Assembly	LATTICE	Call
Auto Sash Return		38



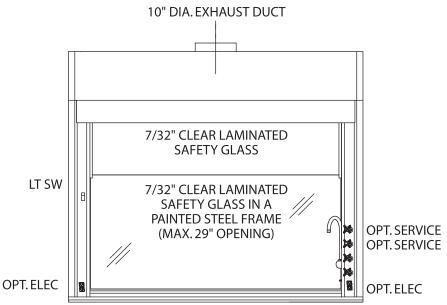


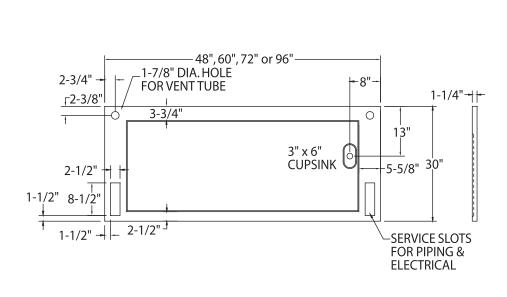
Viewing Everything

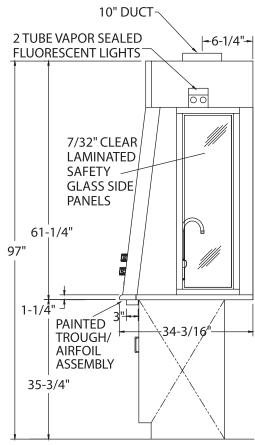
The Solution Work Station was designed to allow 360 degree viewing for undergraduate teaching labs.

With the absence of counterweights and baffles, the SWS maximizes ambient light throughout the hood. In addition, this hood has the flexibility necessary to allow back-to-back or side-by-side configurations.

- Powder coat finish
- Full frame construction
- Constant force sash counterbalance
- T-8 fluorescent light with bulbs
- Flush-mount airfoil
- Full-length finger lift
- Louvered front for by-pass
- •10" round S/S duct collar







David November	S	Superstructure Wo		Worktop		Hood Opening		Hood Opening		CFM	SP at	10" Duct	Shipping
Part Number	W	Н	D	W	Н	D	W	Н	@ 100LFM	Hood**	Size	Weight	
SWS-480	48"	60"	34-3/16"	48"	1-1/4"	30"	37-1/2"	29"	770	.25"	10"	424	
DWS-480	48"	60"	68-3/8"	48"	1-1/4"	60"	37-1/2"	29"	770	.25"	2 - 10"	848	
SWS-600	60"	60"	34-3/16"	60"	1-1/4"	30"	49-1/2"	29"	1000	.33"	10"	496	
DWS-600	60"	60"	68-3/8"	60"	1-1/4"	60"	49-1/2"	29"	1000	.33"	2 - 10"	992	
SWS-720	72"	60"	34-3/16"	72"	1-1/4"	30"	61-1/2"	29"	1250	.5"	10"	578	
DWS-720	72"	60"	68-3/8"	72"	1-1/4"	60"	61-1/2"	29"	1250	.5"	2 - 10"	1156	

SWS = Single Sided Work Station DWS = Double Sided Work Station

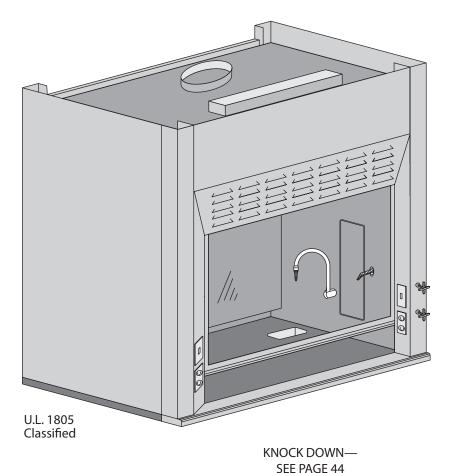
(order two single sided hoods and face them back to back)

 $^\star HVAC$ will have to "wye" double sided hood duct. For VAV Hoods, add -VAV to the part number.

ITEM	AMS PT#	PAGE #
Plumbing Accessories		34
Base Cabinets		36
Electrical		35



The Eliminator 100 SERIES: Airfoil Fume Hood



Minimized Turbulence, Increased Performance

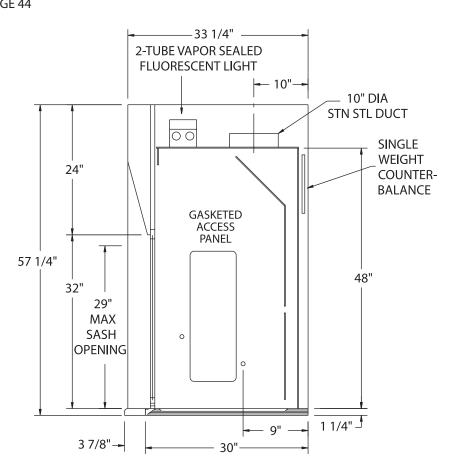
The EH-100 series airfoil-type fume hood features a 45-degree angle around the fascia and a flush-mount radiused airfoil across the bottom, which results in minimized turbulence and increased performance.

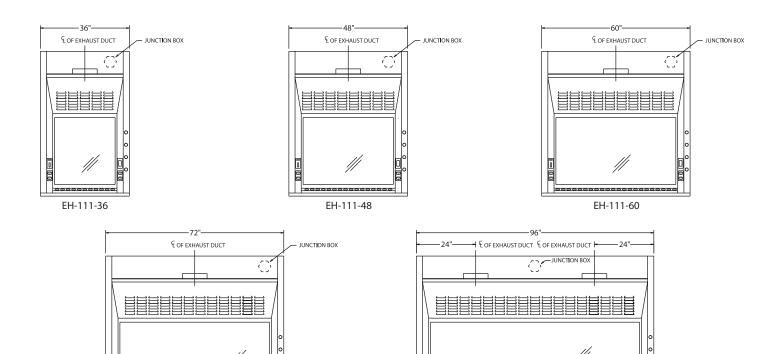
Like the exterior of the hood, the airfoil is made from chemical-resistant, powder-coated, 16-gauge cold rolled steel. A stainless steel airfoil is available as an option.

Posts are 5" (127 mm) wide.

Five standard sizes offer design flexibility, or we'll customize to your specific needs.

- Powder coat finish
- Full frame construction
- Shaft drive sash
- •U.L. listed poly resin liner
- T-8 fluorescent light with bulbs
- Flush-mount airfoil
- Knock down capability
- Full-length finger lift
- Louvered front for by-pass
- •10" round S/S duct collar





Dawt Niveahau	Sı	ıperstru	cture		Worktop		Hood (Opening	CFM	CFM @ 18"*		Blower Model #	Shipping Weight
Part Number	W	Н	D	W	Н	D	W	Н	@ 29"*				
EH-111-36	36"	56"	33-1/4"	36"	1-1/4"	30"	26"	29"	567	354	.25	BL-100-36	320
EH-111-48	48"	56"	33-1/4"	48"	1-1/4"	30"	38"	29"	833	521	.25	BL-100-48	385
EH-111-60	60"	56"	33-1/4"	60"	1-1/4"	30"	50"	29"	1100	688	.34	BL-100-60	450
EH-111-72	72"	56"	33-1/4"	72"	1-1/4"	30"	62"	29"	1367	854	.34	BL-100-72	510
EH-111-96	96"	56"	33-1/4"	96"	1-1/4"	30"	86"	29"	1900	1188	.40	BL-100-96	630

^{*}Height of open sash; CFM calculated at 100 FPM For VAV Hoods, add -VAV to the part number.

Additional depths available. Use suffix -39D for 39.25".

EH-111-72

accessories

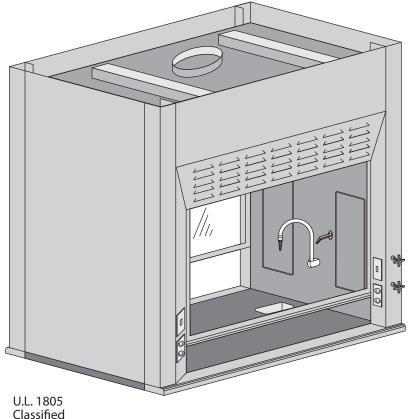
ITEM	AMS PT#	PAGE#
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Epoxy Tops	ET	39
Alarms	ALARM	32
Base Cabinets	ВС	36
Blowers	BL	Call
Pre-Plumbing	PREP	
Pre-Wiring	PREW	

ITEM	AMS PT#	PAGE #
Sash Stops	SASHSTOP	38
Chain and Sprocket Drive	CHNSPK	Call
Stainless Steel Sash	SS SASH	38
Stainless Steel Airfoil	SS AF	
Push Button Sash	PUSH BUTTON	38
Combination Sash	H&V	38
Automatic Sash Return	AUTO RETURN	38
Lattice Assembly	LATTICE	Call

EH-111-96



The Eliminator 200 SERIES: Double-Sided 100 Series



Dual Access

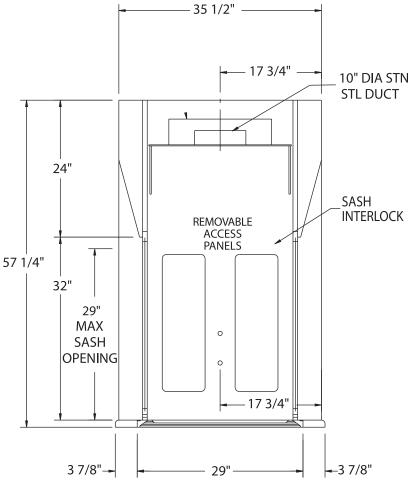
The Eliminator 200 series provides the same aerodynamic design features as the EH-100 airfoil hood series, with entrance from two sides. This makes it ideal for use in classroom or prep room settings or whenever demonstration of experiments is desired.

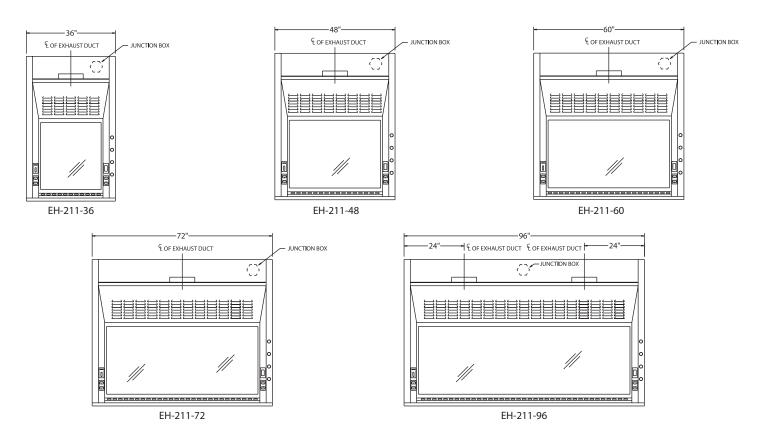
A 45-degree angle around the fascia and a flush-mount radiused airfoil across the bottom provide minimized turbulence and increased performance.

The EH-200 features standard 5" (127 mm) posts to allow for electrical and remote control plumbing services on both sides, and these can be configured to your exact specifications.

Five standard sizes and an array of options make this one of the most flexible fume hoods available anywhere.

- Powder coat finish
- Full frame construction
- •U.L. listed poly resin liner
- Flush-mount airfoil
- Knock down capability
- T-8 fluorescent light with bulbs
- Full-length finger lift
- Louvered front for by-pass
- Sash interlock





Su	perstru	cture		Worktop		Hood C	Opening	CFM		SP	Blower Model #	Shipping Weight
W	Н	D	W	Н	D	W	Н	@ 29"*				
36"	56"	35-1/2"	36"	1-1/4"	29"	26"	29"	567	354	.25	BL-100-36	400
48"	56"	35-1/2"	48"	1-1/4"	29"	38"	29"	833	521	.33	BL-100-48	450
60"	56"	35-1/2"	60"	1-1/4"	29"	50"	29"	1100	688	.34	BL-100-60	500
72"	56"	35-1/2"	72"	1-1/4"	29"	62"	29"	1367	854	.34	BL-100-72	550
96"	56"	35-1/2"	96"	1-1/4"	29"	86"	29"	1900	1188	.40	BL-100-96	650
	W 36" 48" 60" 72"	W H 36" 56" 48" 56" 60" 56" 72" 56"	36" 56" 35-1/2" 48" 56" 35-1/2" 60" 56" 35-1/2" 72" 56" 35-1/2"	W H D W 36" 56" 35-1/2" 36" 48" 56" 35-1/2" 48" 60" 56" 35-1/2" 60" 72" 56" 35-1/2" 72"	W H D W H 36" 56" 35-1/2" 36" 1-1/4" 48" 56" 35-1/2" 48" 1-1/4" 60" 56" 35-1/2" 60" 1-1/4" 72" 56" 35-1/2" 72" 1-1/4"	W H D W H D 36" 56" 35-1/2" 36" 1-1/4" 29" 48" 56" 35-1/2" 48" 1-1/4" 29" 60" 56" 35-1/2" 60" 1-1/4" 29" 72" 56" 35-1/2" 72" 1-1/4" 29"	W H D W H D W 36" 56" 35-1/2" 36" 1-1/4" 29" 26" 48" 56" 35-1/2" 48" 1-1/4" 29" 38" 60" 56" 35-1/2" 60" 1-1/4" 29" 50" 72" 56" 35-1/2" 72" 1-1/4" 29" 62"	W H D W H D W H 36" 56" 35-1/2" 36" 1-1/4" 29" 26" 29" 48" 56" 35-1/2" 48" 1-1/4" 29" 38" 29" 60" 56" 35-1/2" 60" 1-1/4" 29" 50" 29" 72" 56" 35-1/2" 72" 1-1/4" 29" 62" 29"	W H D W H D W H 36" 56" 35-1/2" 36" 1-1/4" 29" 26" 29" 567 48" 56" 35-1/2" 48" 1-1/4" 29" 38" 29" 833 60" 56" 35-1/2" 60" 1-1/4" 29" 50" 29" 1100 72" 56" 35-1/2" 72" 1-1/4" 29" 62" 29" 1367	W H D W H D W H @ 29"* @ 18"* 36" 56" 35-1/2" 36" 1-1/4" 29" 26" 29" 567 354 48" 56" 35-1/2" 48" 1-1/4" 29" 38" 29" 833 521 60" 56" 35-1/2" 60" 1-1/4" 29" 50" 29" 1100 688 72" 56" 35-1/2" 72" 1-1/4" 29" 62" 29" 1367 854	W H D W H D W H © 29"* @ 18"* SP 36" 56" 35-1/2" 36" 1-1/4" 29" 26" 29" 567 354 .25 48" 56" 35-1/2" 48" 1-1/4" 29" 38" 29" 833 521 .33 60" 56" 35-1/2" 60" 1-1/4" 29" 50" 29" 1100 688 .34 72" 56" 35-1/2" 72" 1-1/4" 29" 62" 29" 1367 854 .34	W H D W H D W H D W H © 29"* © 18"* SP Model # 36" 56" 35-1/2" 36" 1-1/4" 29" 26" 29" 567 354 .25 BL-100-36 48" 56" 35-1/2" 48" 1-1/4" 29" 38" 29" 833 521 .33 BL-100-48 60" 56" 35-1/2" 60" 1-1/4" 29" 50" 29" 1100 688 .34 BL-100-60 72" 56" 35-1/2" 72" 1-1/4" 29" 62" 29" 1367 854 .34 BL-100-72

^{*}Height of open sash; CFM calculated at 100 FPM with one sash open

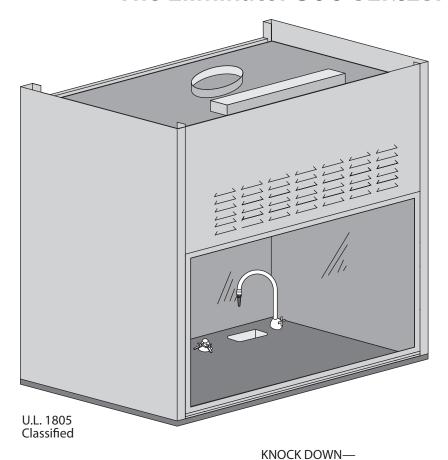
ITEM	AMS PT#	PAGE #
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Epoxy Tops	ET	39
Alarms	ALARM	32
Base Cabinets	ВС	36
Blowers	BL	Call
Pre-Plumbing	PREP	

ITEM	AMS PT#	PAGE#
Pre-Wiring	PREW	
Sash Stops	SASHSTOP	38
Stainless Steel Sash	SS SASH	38
Stainless Steel Airfoil	SS AF	
Push Button Sash	PUSH BUTTON	38
Combination Sash	H&V	38
Automatic Sash Return	AUTO RETURN	38
Lattice Assembly	LATTICE	Call



The Eliminator 300 SERIES: Thin Wall

SEE PAGE 44



Expanded Workspace

The Eliminator 300 series is a thin-wall fume hood with slimmer front posts to expand the workspace. Posts are 2-1/2" (64 mm) wide.

Because the slimmer posts remove the option for wiring and plumbing in the posts, plumbing services must be deck mounted. Optional light and blower switches can be mounted on the post.

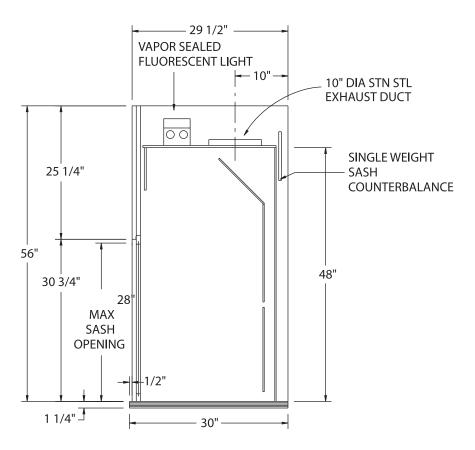
Five standard widths with unlimited heights and depths are available, making this one of the most flexible fume hoods available anywhere.

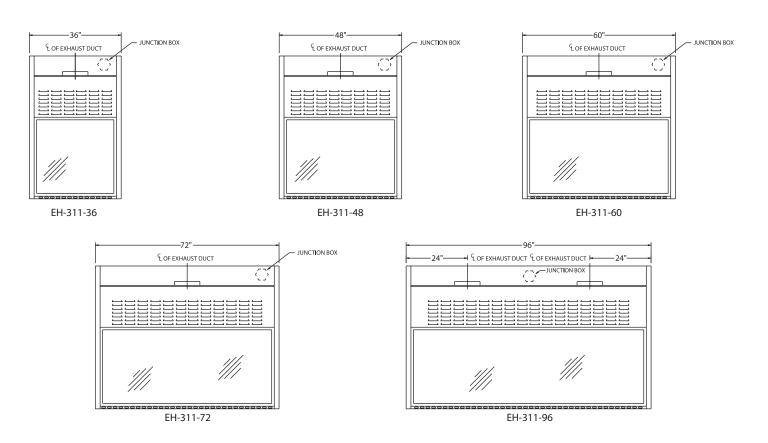
П

standard

features

- Powder coat finish
- Full frame construction
- Shaft drive sash
- •U.L. listed poly resin liner
- T-8 fluorescent light with bulbs
- Knock down capability
- Full-length finger lift
- Louvered front for by-pass





Part Number	Sı	ıperstru	cture		Worktop		Hood (pening				SP	Blower	Shipping
Part Number	W	Н	D	W	Н	D	W	Н	@ 28"*	@ 18"*) or	Model #	Weight	
EH-311-36	36"	56"	29-1/2"	36"	1-1/4"	30"	26"	28"	646	431	.25	BL-300-36	190	
EH-311-48	48"	56"	29-1/2"	48"	1-1/4"	30"	43"	28"	896	597	.25	BL-300-48	175	
EH-311-60	60"	56"	29-1/2"	60"	1-1/4"	30"	55"	28"	1146	764	.39	BL-300-60	200	
EH-311-72	72"	56"	29-1/2"	72"	1-1/4"	30"	67"	28"	1417	944	.37	BL-300-72	250	
EH-311-96	96"	56"	29-1/2"	96"	1-1/4"	30"	91"	28"	1896	1264	.43	BL-300-96	275	

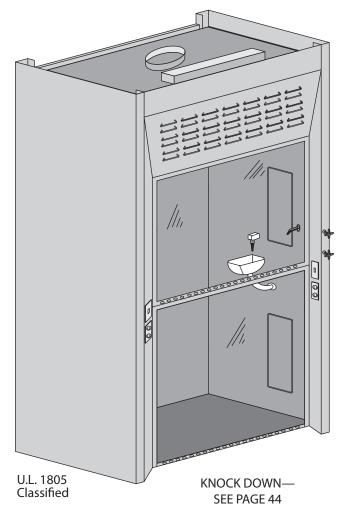
^{*}Height of open sash; CFM calculated at 100 FPM Additional depths available. Use suffix -36D for 35.5".

ITEM	AMS PT#	PAGE #
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Epoxy Tops	ET	39
Alarms	ALARM	32
Base Cabinets	ВС	36
Blowers	BL	Call

ITEM	AMS PT#	PAGE #
Sash Stops	SASHSTOP	38
Chain and Sprocket Drive	CHNSPK	Call
Stainless Steel Sash	SS SASH	38
Combination Sash	H&V	38
Automatic Sash Return	AUTO RETURN	38
Lattice Assembly	LATTICE	Call



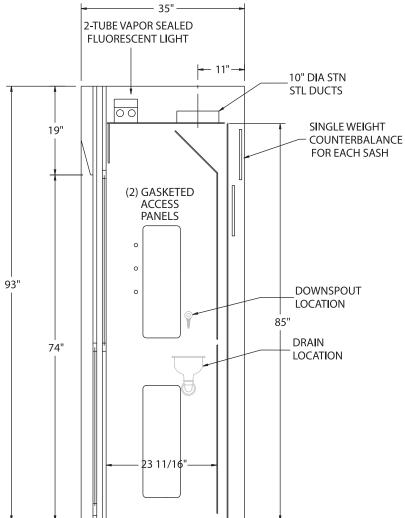
The Eliminator 400 SERIES: Walk-In Hood



For Those Tall Experiments

The Eliminator 400 series, with a double-hung sash configuration and 72" high opening, is designed to accommodate a large-apparatus application, up to 85" in height. Posts are 5" (127 mm) wide. Many heights and depths are available. Contact AMS to find the right size hood for your application.

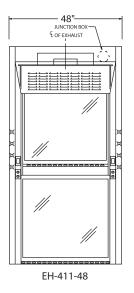
And with the AMS exclusive knock-down ability, even a hood this big is a breeze to install, maintain, repair and move.

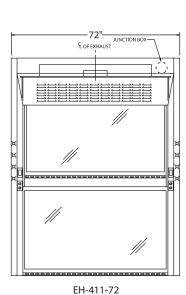


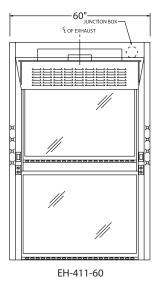
standard features

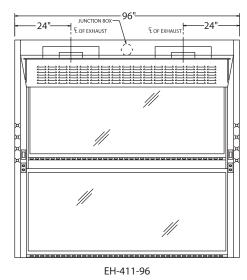
Powder coat finishFull frame construction

- I uli II allie collsti uctioi
- Shaft drive sash
- U.L. listed poly resin liner
- T-8 fluorescent light with bulbs
- Knock down capability
- Full-length finger lift
- Louvered front for by-pass









Superstructure **Hood Opening** Approx. CFM@18" CFM @ 36"* CFM @ 72" SP Part Number Blower Model # Shipping Weight W D W EH-411-48 48" 93" 35" 38" 72" 445 990 1979 .25 BL-400-48 560 EH-411-60 60" 93" 35" 72" 675 50" 653 1306 2613 .34 BL-400-60 EH-411-72 72" 72" 812 BL-400-72 790 93" 35" 62" 1623 3246 .34 EH-411-96 96" 93" 35" 72" 1128 2256 4513 .34 BL-400-96 1025 86"

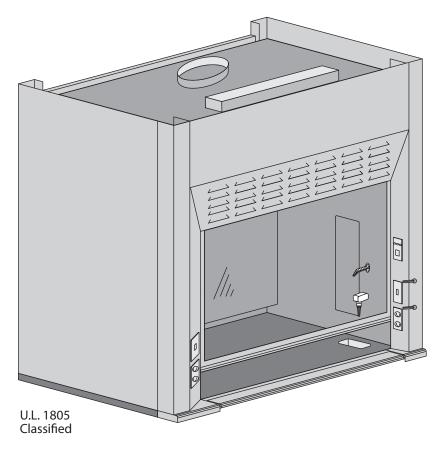
ITEM	AMS PT#	PAGE #
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Alarms	ALARM	32
Blowers	BL	Call
Pre-Plumbing	PREP	
Pre-Wiring	PREW	

ITEM	AMS PT#	PAGE #
Sash Stops	SASHSTOP	38
Chain and Sprocket Drive	CHNSPK	Call
Stainless Steel Sash	SS SASH	38
Horizontal Hanging Doors	HHD	38
Combination Sash	H&V	38
Lattice Assembly	LATTICE	Call
SS Ramp	RAMP	Call



^{*}Height of open sash; CFM calculated at 100 FPM For VAV Hoods, add -VAV to the part number. Many custom sizes available.

The Eliminator 500 SERIES: ADA Design



Meets ADA Dimensional Guidelines

The Eliminator 500 series is an airfoil-type fume hood designed to meet ADA dimensional guidelines.

A 45-degree angle around the fascia and a flushmount radiused airfoil across the bottom result in minimized turbulence and increased performance.

The ADA hood's airfoil flips back out of the way for cleanup. Under the airfoil is a containment trough to capture accidental spills that may flow over the dished work surface.

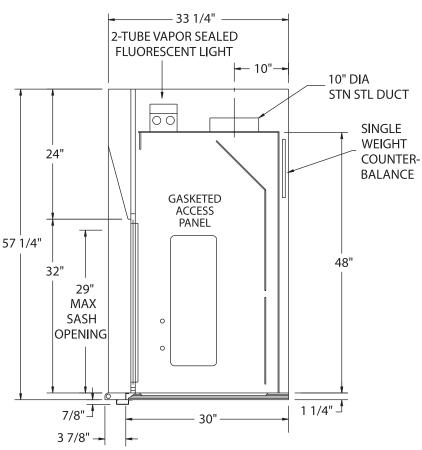
The trough assembly is fabricated from chemicalresistant 16-gauge cold rolled steel.

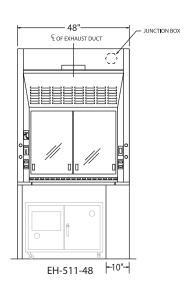
ADA kneespace-configured base cabinets, pictured at right, are available. See page 33 for cabinet options.

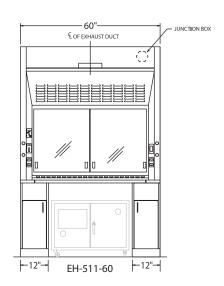
KNOCK DOWN— SEE PAGE 44

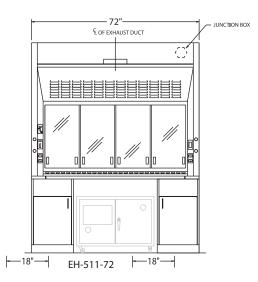
CABINET OPTIONS— SEE PAGES 36–37

- Powder coat finish
- Full frame construction
- Shaft drive sash
- •U.L. listed poly resin liner
- T-8 fluorescent light with bulbs
- Flush-mount airfoil
- Knock down capability
- Full-length finger lift
- Louvered front for by-pass
- Painted steel trough assembly
- Sash stop
- •1/4 turn ball valves





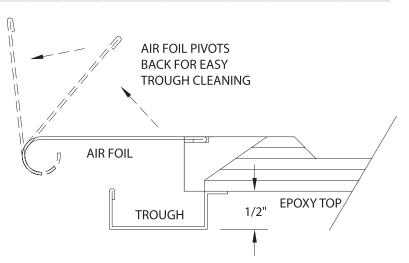




^{**}Optional combination sashes shown in drawings. Base frames and cabinets sold separately. See page 33.

Daut Numbau	Sı	ıperstru	cture		Worktop		Hood (pening	CFM	CFM	CD	Blower	Shipping
Part Number	W	Н	D	W	Н	D	W	Н	@ 29"*	@ 29"*	SP	Model #	Weight
EH-511-48	48"	56"	33-1/4"	48"	1-1/4"	30"	38"	29"	833	521	.25	BL-500-48	395
EH-511-60	60"	56"	33-1/4"	60"	1-1/4"	30"	50"	29"	1100	688	.34	BL-500-60	450
EH-511-72	72"	56"	33-1/4"	72"	1-1/4"	30"	62"	29"	1367	854	.34	BL-500-72	525

*Height of open sash; CFM calculated at 100 FPM For VAV Hoods, add -VAV to the part number.

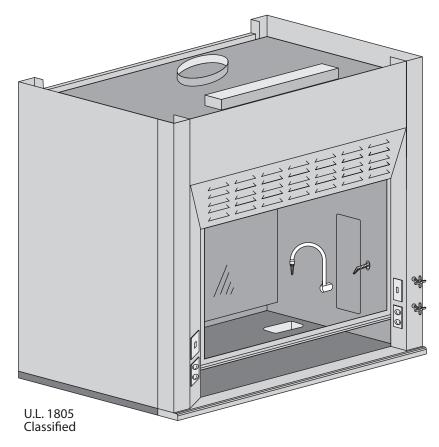


ITEM	AMS PT#	PAGE#
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Epoxy Tops	ET	39
Alarms	ALARM	32
Base Cabinets	ВС	36
Roll Out Base	ROB	Call
Blowers	BL	Call
Pre-Plumbing	PREP	

ITEM	AMS PT#	PAGE#
Pre-Wiring	PREW	
Chain and Sprocket Drive	CHNSPK	Call
Stainless Steel Sash	SS SASH	38
Stainless Steel Airfoil	SS AF	
Push Button Sash	PUSH BUTTON	38
Automatic Sash Return	AUTO RETURN	38
Lattice Assembly	LATTICE	Call
LED Lights	LED	
Base Frames and Cabinets		36



The Eliminator 600 SERIES: Radio Isotope Hood



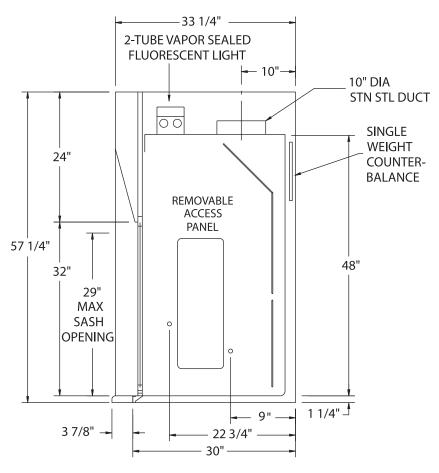
For Safe Handling of Radiochemicals

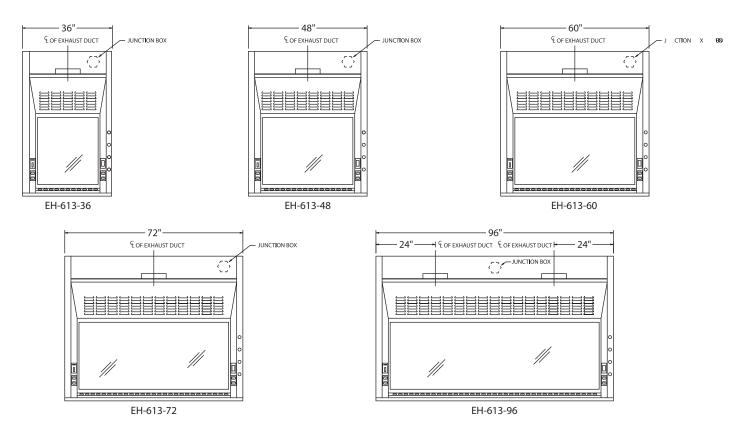
The Eliminator 600 Radio Isotope Hood is specifically engineered and built to handle applications involving radiochemicals. It has the same aerodynamic design as the standard airfoil hood, with the added feature of a one-piece stainless steel liner and countertop with radius construction to prevent absorption of radioactive and corrosive chemicals.

The interior of the hood and integral countertop are fabricated of 304 stainless steel, buffed and polished to a smooth #4 finish. This reduces the chance of chemical buildup and simplifies decontamination. The flush-mount radiused airfoil is also type 304 stainless steel, as is the standard vertical rising sash. A combination sash is available as an option.

Five available sizes and many optional accessories meet all your design needs and the end user's application requirements.

- Powder coat finish
- Full frame construction
- Shaft drive sash
- T-8 fluorescent light with bulbs
- •Flush-mount airfoil
- Interior access to light
- Full-length finger lift
- Louvered front for by-pass
- 304 stainless steel one-piece integral work surface and liner
- Stainless steel sash
- Stainless steel airfoil





Part Number	Sı	ıperstru	cture	Inte	egral Work	ctop	Hood (Opening	CFM	CFM	SP	Blower	Shipping
Part Number	W	Н	D	W	Н	D	W	Н	@ 29"*	@ 18"*) 3r	Model #	Weight
EH-613-36	36"	56"	33-1/4"	36"	1-1/4"	30"	26"	29"	567	354	.25	BL-600-36	190
EH-613-48	48"	56"	33-1/4"	48"	1-1/4"	30"	38"	29"	833	521	.25	BL-600-48	560
EH-613-60	60"	56"	33-1/4"	60"	1-1/4"	30"	50"	29"	1100	688	.34	BL-600-60	675
EH-613-72	72"	56"	33-1/4"	72"	1-1/4"	30"	62"	29"	1367	854	.34	BL-600-72	790
EH-613-96	96"	56"	33-1/4"	96"	1-1/4"	30"	86"	29"	1900	1188	.40	BL-600-96	1025

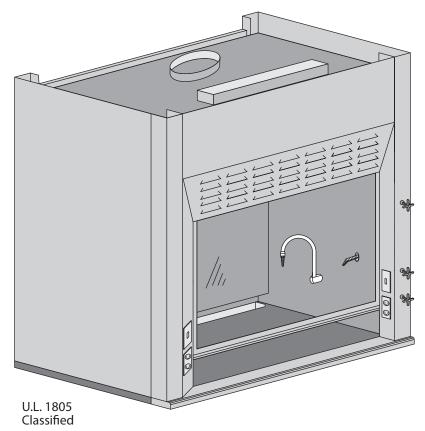
^{*}Height of open sash; CFM calculated at 100 FPM For VAV Hoods, add -VAV to the part number.

ITEM	AMS PT#	PAGE #
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Alarms	ALARM	32
Base Cabinets	ВС	36
Blowers	BL	Call
Pre-Plumbing	PREP	

ITEM	AMS PT#	PAGE #
Pre-Wiring	PREW	
Sash Stops	SASHSTOP	38
Chain and Sprocket Drive	CHNSPK	Call
Push Button Sash	PUSH BUTTON	38
Combination Sash	H&V	38
Automatic Sash Return	AUTO RETURN	38
Lattice Assembly	LATTICE	Call



The Eliminator 700 SERIES: Perchloric Acid Hood



Safe Handling of Perchloric Acid

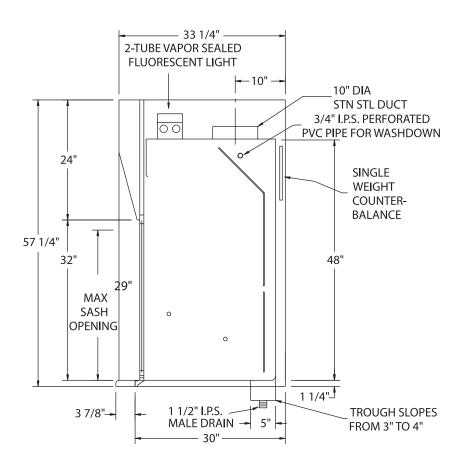
The Eliminator 700 Perchloric Acid Hood has the same aerodynamic design as the 100 series, with a 45-degree angle around the fascia and a flush-mount radiused airfoil across the bottom to minimize turbulence and provide increased performance.

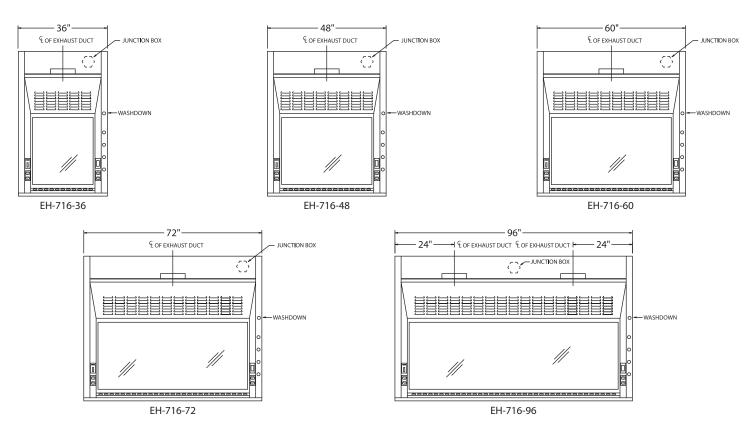
This hard-working hood also features a built-in trough to capture runoff in washdown procedures where perchloric acid is in use. In addition, there is a manual washdown feature for the areas behind the baffles as well as the duct-collar areas.

The interior is fabricated of type 316 stainless steel, integrally welded to a 316 stainless steel work surface, then buffed and polished to a #4 finish. The top is 1-1/4" with a 1/4" dish to retain spills. The airfoil and sash are also made of 316 stainless steel.

The EH-700 is built tough to withstand the daily use of perchloric acid, while keeping the workplace safe.

- Powder coat finish
- Full frame construction
- Shaft drive sash
- T-8 fluorescent light with bulbs
- Flush-mount airfoil
- Full-length finger lift
- Louvered front for by-pass
- 316 stainless steel one-piece integral work surface and liner
- Built-in trough
- Manual washdown
- Stainless steel sash
- Stainless steel airfoil





Part Number Superstru	ıperstru	cture	Inte	egral Worl	ktop	Hood (Opening	CFM	CFM	SP	Blower	Shipping	
Part Number	W	Н	D	W	Н	D	W	Н	@ 29"*	@ 18"*	35	Model #	Weight
EH-716-36	36"	56"	33-1/4"	36"	1-1/4"	30"	26"	29"	567	354	.25	BL-700-36	190
EH-716-48	48"	56"	33-1/4"	48"	1-1/4"	30"	38"	29"	833	521	.33	BL-700-48	560
EH-716-60	60"	56"	33-1/4"	60"	1-1/4"	30"	50"	29"	1100	688	.34	BL-700-60	675
EH-716-72	72"	56"	33-1/4"	72"	1-1/4"	30"	62"	29"	1367	854	.34	BL-700-72	790
EH-716-96	96"	56"	33-1/4"	96"	1-1/4"	30"	86"	29"	1900	1188	.40	BL-700-96	1025

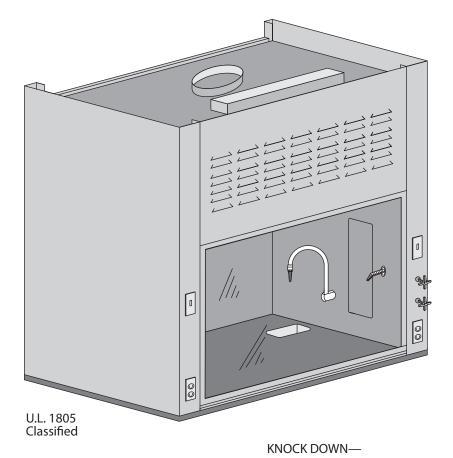
^{*}Height of open sash; CFM calculated at 100 FPM

ITEM	AMS PT#	PAGE #
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Alarms	ALARM	32
Base Cabinets	ВС	36
Blowers	BL	Call
Pre-Plumbing	PREP	

ITEM	AMS PT#	PAGE #
Pre-Wiring	PREW	
Sash Stops	SASHSTOP	38
Chain and Sprocket Drive	CHNSPK	Call
Push Button Sash	PUSH BUTTON	38
Combination Sash	H&V	38
Automatic Sash Return	AUTO RETURN	38
Lattice Assembly	LATTICE	Call



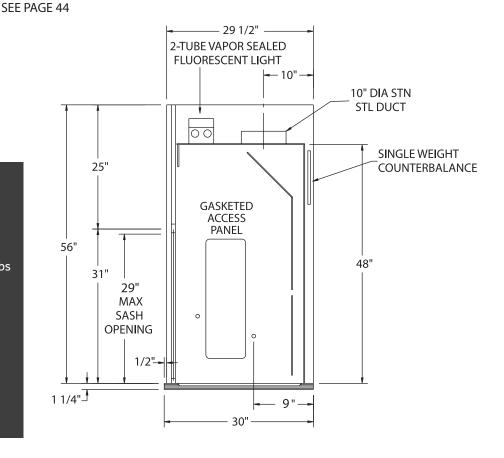
The Eliminator 800 SERIES: Flat Front

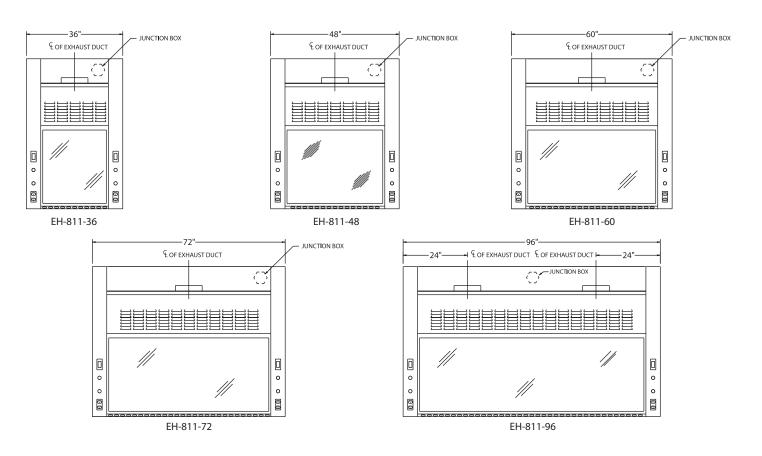


Economical School Hood

A basic fume hood for K-12 educational applications, the EH-800 series is similar in design and construction to the EH-300 (Thin Wall) hood, but with 5" (127 mm) posts to provide plumbing and electrical fixtures on the face of the hood. This hood has many of the same features found in other AMS hoods, but it is economically priced for secondary school budgets.

- Powder coat finish
- Full frame construction
- Shaft drive sash
- •U.L. listed poly resin liner
- T-8 fluorescent light with bulbs
- Knock down capability
- Full-length finger lift
- Louvered front for by-pass
- •10" round duct





Part Number	Sı	ıperstru	cture		Worktop		Hood (pening	CFM	CFM	SP	Blower Model #	Shipping
Part Number	W	Н	D	W	Н	D	W	Н	@ 29"*	@ 18"*	31		Weight
EH-811-36	36"	56"	29-1/2"	36"	1-1/4"	30"	26"	29"	567	354	.25	BL-100-36	300
EH-811-48	48"	56"	29-1/2"	48"	1-1/4"	30"	38"	29"	833	521	.33	BL-100-48	360
EH-811-60	60"	56"	29-1/2"	60"	1-1/4"	30"	50"	29"	1100	688	.34	BL-100-60	440
EH-811-72	72"	56"	29-1/2"	72"	1-1/4"	30"	62"	29"	1367	854	.34	BL-100-72	520
EH-811-96	96"	56"	29-1/2"	96"	1-1/4"	30"	86"	29"	1900	1188	.40	BL-100-96	680

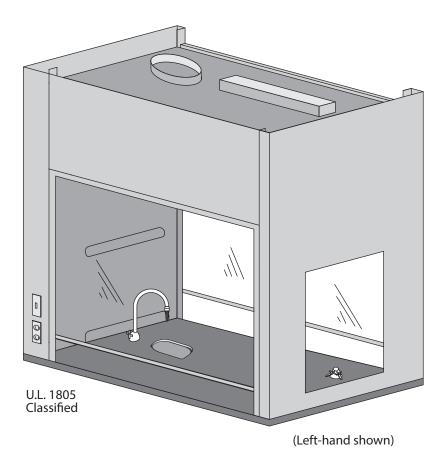
^{*}Height of open sash; CFM calculated at 100 FPM

ITEM	AMS PT#	PAGE#
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Epoxy Tops	ET	39
Alarms	ALARM	32
Base Cabinets	ВС	36
Blowers	BL	Call
Pre-Plumbing	PREP	

ITEM	AMS PT#	PAGE #
Pre-Wiring	PREW	
Sash Stops	SASHSTOP	38
Chain and Sprocket Drive	CHNSPK	Call
Stainless Steel Sash	SS SASH	38
Push Button Sash	PUSH BUTTON	38
Combination Sash	H&V	38
Automatic Sash Return	AUTO RETURN	38
Lattice Assembly	LATTICE	Call



The Eliminator 900 SERIES: Demonstration Hood



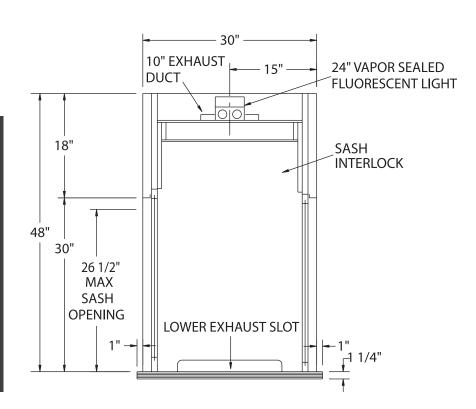
Three Windows for Optimum Viewing

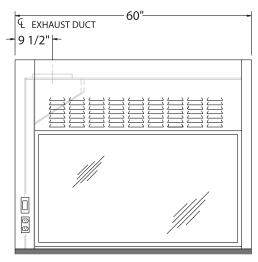
The EH-900 series is an educational viewing fume hood with one slimmed down (2" or 51 mm) front post and one standard (5" or 127 mm) post to allow for more workspace and electrical services. Plumbing service must be deck mounted.

The EH-900 is available in either right-hand or left-hand orientation. This hood features a two-sash configuration and a third (end) viewing window, making it ideal for use in high schools or any environment where demonstration of experiments is desired. The end window may be eliminated for through-wall installations.

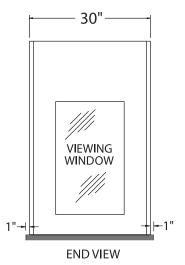
standard features

Powder coat finish Full frame construction U.L. listed poly resin liner T-8 fluorescent light with bulbs Knock down capability Full-length finger lift Louvered front for by-pass 10" round duct Sash interlock





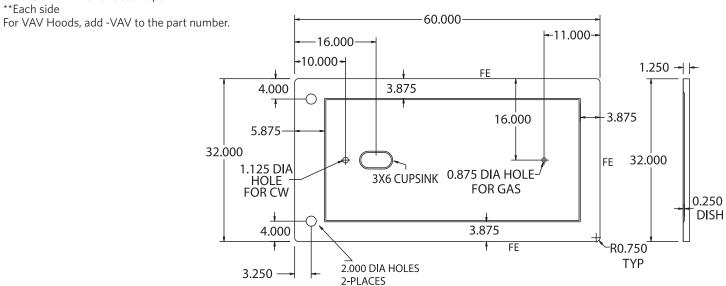
EH-911-60L (switches on left as shown) EH-911-60R (switches on right; not shown)



To order without a viewing window, please add -OEW to the part number

Dawt Niveahau	Su	perstructi	ure		Worktop		Hood	Opening	CFM	CFM		Blower Model #	Shipping
Part Number	W	Н	D	W	Н	D	W	Н	@ 26.5"*	@ 18"*			Weight
EH-911-60	60"	48"	30"	60"	1-1/4"	32"	53"	26.5"**	1030	722	.75	BL-900-60	500

Please specify Left or Right (Left shown)



ITEM	AMS PT#	PAGE#
Ceiling Enclosures	CE	33
Plumbing Accessories		34
Electrical Accessories		35
Epoxy Tops	ET	39
Alarms	ALARM	32
Base Cabinets	ВС	36
Blowers	BL	Call
Pre-Plumbing	PREP	

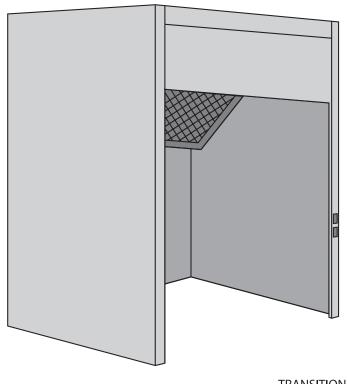
ITEM	AMS PT#	PAGE #
Pre-Wiring	PREW	
Sash Stops	SASHSTOP	38
Stainless Steel Sash	SS SASH	38
Push Button Sash	PUSH BUTTON	38
Combination Sash	H&V	38
Automatic Sash Return	AUTO RETURN	38
Lattice Assembly	LATTICE	Call



^{*}Height of open sash; CFM calculated

at 100 FPM with one sash open

The Eliminator Paint (Spray) Booth

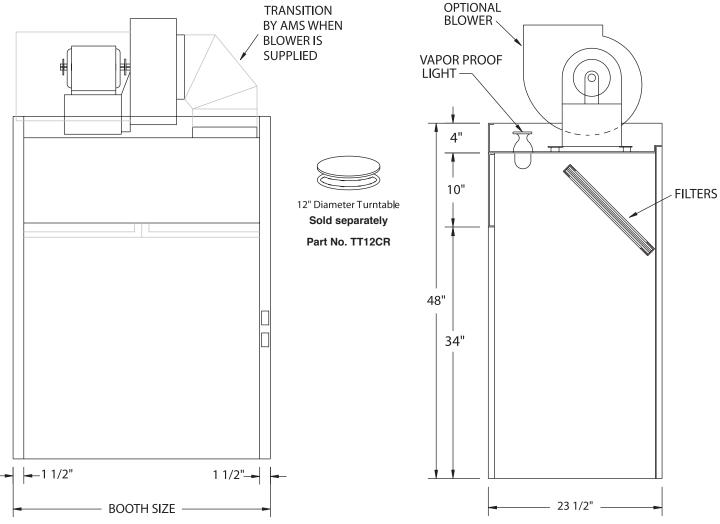


The AMS Paint Booth is fabricated of 18-gauge steel with a corrosion resistant, powder coat baked epoxy finish. The upper booth enclosure includes a standard vapor-proof light as well as two filters set in an easy-to-change flange bracket system. The globed interior light is mounted with bulb included.

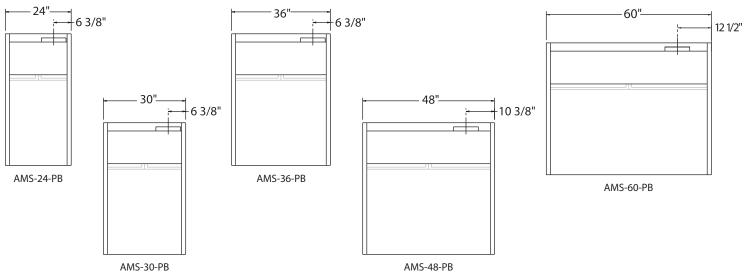
The optional blower motor operates at an RPM designed to provide 100 LFM and approximately 3/4" of static pressure. If the blower is ordered, it will be mounted on the booth and wired to the common junction box with the light. The transition piece from the booth to blower will be provided and connected. Both the light and the blower can be pre-wired to switches in the front post area of the booth when required.

Dimensions:

Paint booths are available in widths of 24'', 30'', 36'', 48'' and 60'' All are 48'' H x 23-1/2'' D. Special sizes available upon request.



The Eliminator Paint (Spray) Booth



NOTE: Explosion-proof (X-P) switches must mount on the exterior of booth or be shipped loose for remote operation.

Paint (Spray) Booth

Part Number	Description	CFM @ 100 FPM
AMS-24-PB	24" Paint (Spray) Booth	472
AMS-30-PB	30" Paint (Spray) Booth	613
AMS-36-PB	36" Paint (Spray) Booth	755
AMS-48-PB	48" Paint (Spray) Booth	1040
AMS-60-PB	60" Paint (Spray) Booth	1322

Paint (Spray) Booth w/ Blower

Part Number	Description	CFM @ 100 FPM
AMS-24-PBW	24" Booth and Blower	472
AMS-30-PBW	30" Booth and Blower	613
AMS-36-PBW	36" Booth and Blower	755
AMS-48-PBW	48" Booth and Blower	1040
AMS-60-PBW	60" Booth and Blower	1322

Explosion-Proof options

Part Number	Description	CFM @ 100 FPM
AMS-24-XPB	24" Booth w/X-P Light	472
AMS-30-XPB	30" Booth w/X-P Light	613
AMS-36-XPB	36" Booth w/X-P Light	755
AMS-48-XPB	48" Booth w/X-P Light	1040
AMS-60-XPB	60" Booth w/X-P Light	1322

Paint (Spray) Booth w/ Explosion-Proof Light/Blower

Part Number	Description	CFM @ 100 FPM
AMS-24-XPBW	24" Booth w/X-P Light and Blower	472
AMS-30-XPBW	30" Booth w/X-P Light and Blower	613
AMS-36-XPBW	36" Booth w/X-P Light and Blower	755
AMS-48-XPBW	48" Booth w/X-P Light and Blower	1040
AMS-60-XPBW	60" Booth w/X-P Light and Blower	1322

ITEM	AMS PT#	PAGE#
Light Switch	LTSW	35
Blower Switch	BLSW	35
Stainless Steel Top		39

ITEM	AMS PT#	PAGE #	
Galvanized Top		Call	
Pre-Wire Service	PREWIRE		



AMS Portable Hoods

This AMS hood is portable, but must be connected to an HVAC system. The backward-curved 120 volt blower has a variable speed control to maximize efficiency and minimize motor noise. The blower unit sits atop a fully welded tube chamber with plexiglas windows for viewing from all four sides. The front has a fold-up door to allow for loading and unloading of apparatus and experiments.

HINGED 1/4" CLEAR PLEXIGLASS PANEL REMOVABLE 1" DEEP PAN REMOVABLE 1" DEEP PAN WHITE POLYETHYLENE 3" DIA CUPSINK WITH 3/4" TO 1" SPIGOT END

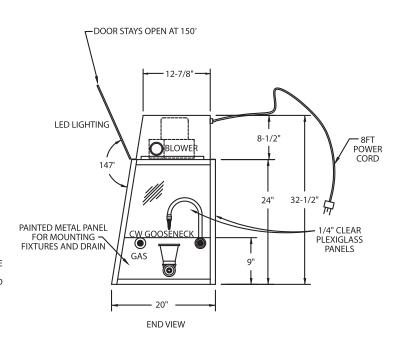
Model numbers:

AMS-36-CRPH hood only

AMS-36-CRPHT hood with epoxy top

AMS-36-CRPHTC hood with top and cart

For stainless steel construction use the prefix SS

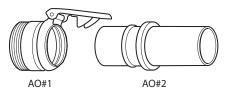


standard features

FRONT VIEW

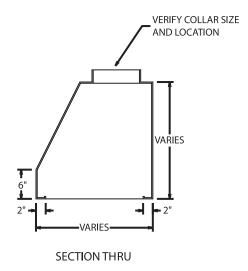
Painted steel contruction Energy-saving LED light fixture Combination light/blower switch GFI duplex outlet Pre-wired 8' power cord 2" dia. x 48" flex exhaust duct

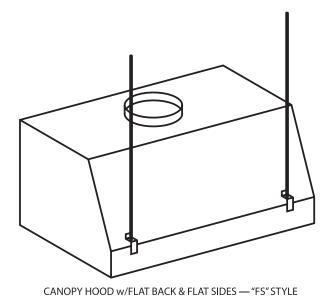
Portable Hood Adaptor Option

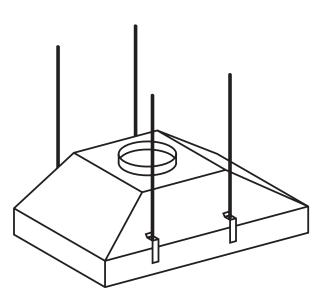


Note: AO#1 & AO#2 are mating parts.

Canopy Hoods







CENTER CANOPY HOOD — ISLAND "IL" STYLE

AMS canopy hoods are designed to collect and exhaust heat, steam and odors when mounted above hot plates, water baths or portable equipment. They are available in three different models as pictured here and in six standard widths: 24", 30", 36", 48", 60", and 72". Custom sizes are also available.

Standard canopy hoods are available in 18-gauge cold rolled steel, finished with acid wash and powder coat epoxy paint. (See inside back cover for available standard colors.) Stainless canopy hoods are fabricated of 18-gauge 304 stainless steel with a #4 smooth grain finish.

Two stainless steel threaded rods come with FS and SE models; four are supplied with IL models.

To order canopy hoods:

CH-FS for flat back and flat sides

CH-IL for center style

CH-SE for flat back and sloped sides

For stainless steel option, add -SS"

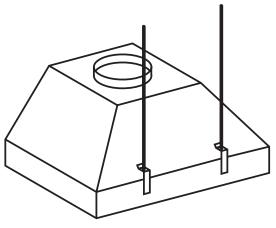
For example:

CH-FS-4824 is a painted steel, 48" wide, 24" deep

canopy hood with flat back and flat sides.

CH-IL-6030-SS is a 60" wide, 30" deep island canopy with

stainless steel construction.

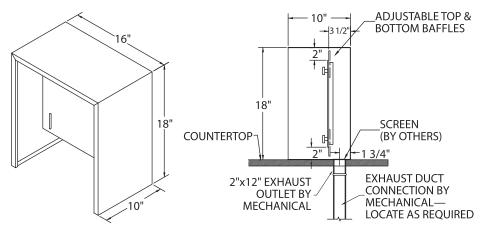


CANOPY HOOD — "SE" STYLE

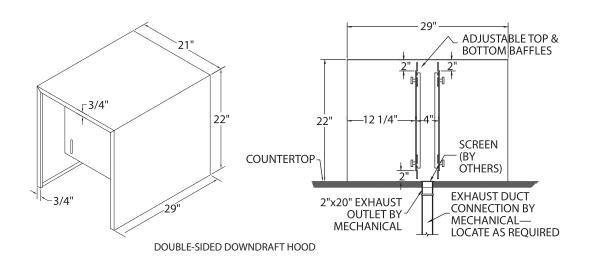


Updraft/Downdraft Hoods

Inexpensive hoods designed to increase operator safety by ridding fumes such as formalin, smoke or any other non-hazardous media. Many sizes are available; please contact your Air Master Systems representative for further information.



SINGLE-SIDED DOWNDRAFT HOOD



16" — 2 3/4" — 4"x6" OUTLET

SINGLE-SIDED UPDRAFT HOOD

Air Monitor Alarms



AFA 500 Mk3 Fume Hood Airflow Monitor Specifications

Alarm range 30-400 fpm (.15 -2.0 m/s)
Accuracy Face velocity accuracy +/- 10%
Airflow sensor On-board or remote sensor

Calibration Single or 2-point (Installer selectable)

Low Air Alarm delay Fixed 5 secs
Relay output 1 -- (Low Air alarm)
Analog output Not available

Relay input 2 – Night setback and sash high

Comm. Port RS232 – Can be connected via serial interface to LAN network

(Full hood performance software reporting available) Yes – using a Micro switch or Proximity switch input With repeat alarm feature factory set to 5 min. (Can be adjusted via laptop up to 30 mins)

Night setback Yes – using a relay input

External alarm indication Not available

Sash high indication

Power Requirement Input—120VAC, 60Hz Output—15VDC, 500ma

Display—visual
Alarm indication

LEDs: red, alarm; green, normal
Red LED and audible alarm

Horn silence Yes – temporary
Mounting Semi Flush
Operating temperature 55-86 F (13-30 C)
Storage temperature -40-150 F (-40-65 C)

Instrument dimensions Instrument Case: 5.2" H x 3.19" W x 1.97" D

(132mm H x 81mm W x 50mm D)

Agency listings UL and CE



AFA 1000/1 Mk3 Fume Hood Airflow Monitor Specifications

Display range 0-999 fpm (0-5.0 m/s) Alarm range 0-999 fpm (0-5.0 m/s)

Field set-up 2-point velocity calibration (with on-screen instructions)

Accuracy Sensor / Display resolution 1 fpm Face velocity accuracy +/-10% Alarm delays User configurable - 0 to 60secs

Relay output 4 (1 on board – 3 on optional plug in relay interface unit)

Analog output 0-10V output, directly proportional to velocity (Optional)

Relay input 3

Comm. Port RS232 - Can be connected via Serial interface to LAN network

(Full software available)

Sash high indication Yes, with separate plug-in connection

Night setback Yes External alarm indication Yes

Alarm indication

Horn silence

Power Requirement Input-120VAC, 60Hz Output-15VDC, 500ma

Units English and Metric (user selectable)
Display-visual Analog bar graph or Fault Timeline

LEDs: red, alarm; yellow, caution; green, normal Digital display of velocity reading (can be turned off) Red LED and audible alarm (to a certain sound spec) Yes (temporary / permanent/automatic depending on

type of alarm or external input)

Mounting Semi Flush
Operating temperature 55-86 F (13-30 C)

Operating temperature 55-86 F (13-30 C)
Storage temperature -40-150 F (-40-65 C)

Instrument dimensions Instrument Case: 5.2" H x 3.19" W x 1.14" D

(132mm H x 81mm W x 29mm D)

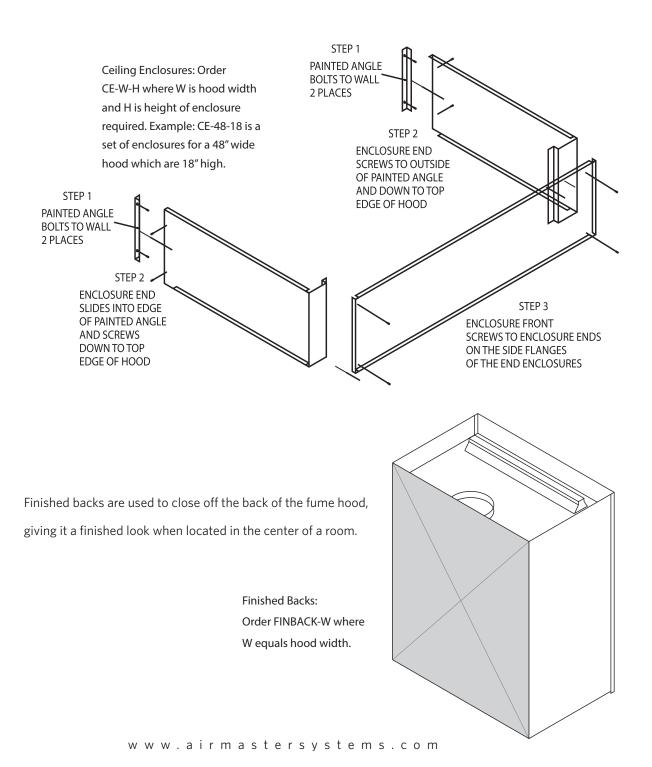
Agency listings UL and CE



Ceiling Enclosures and Finished Backs

Air Master Systems Corporation offers ceiling enclosures and finished backs to provide a professional, finished design in any setting. Ceiling enclosures and finished backs are fabricated of cold rolled steel and finished to match the fume hood superstructure.

The ceiling enclosures are available in two types: for standard fume hoods and also for those fume hoods utilizing the optional Air Chamber. Both enclosures conceal and protect the hood ductwork, electrical conduit and other supply lines.

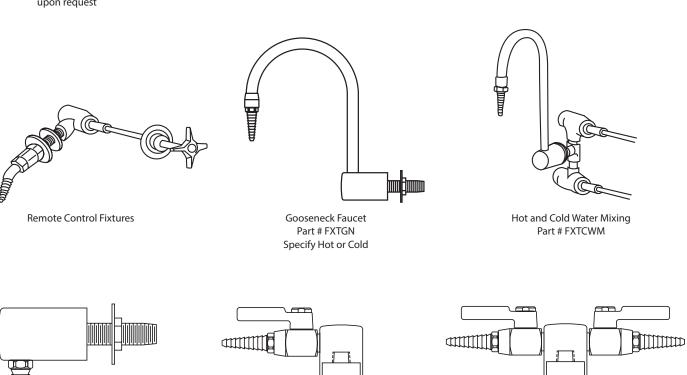


Plumbing Accessories

Description	Part #	
Gas	FXTGAS	
Air	FXTAIR	
Vacuum	FXTVAC	
Nitrogen	FXTNIT	
Cold water	FXTCW	

Others available upon request

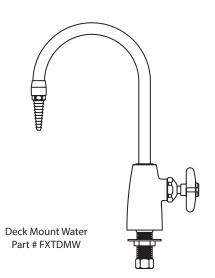
All Air Master Systems Corporation remote-operated fixtures come standard with four-prong handles, baked color-coded epoxy upper assemblies and control rods cut to length. Chrome and other styles are available upon request. Preplumbed services are 1/2" OD copper tubing for water, air, gas and vacuum. All type "L" copper connections & elbows are made with Vega Pro-Press fittings.



Deck Mount Gas

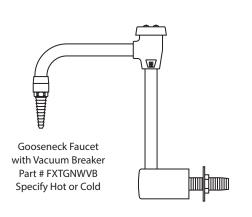
Single Outlet

Part# FXTDMG1



90° Water Faucet

Part # FXTDS



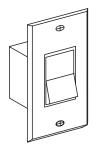
Deck Mount Gas

Double Outlet

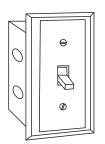
Part # FXTDMG2



Electrical Accessories and Specifications



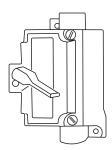
Single Pole 15 Amp Light Switch Standard Black Color and Cover Plate Part# LTSW



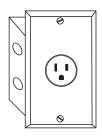
Red Illuminated Toggle Switch with Black Cover Plate Part# BLSW



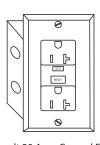
Explosion Proof Outlet Class 1, Group 1 Part# XPO



Explosion Proof Switch Class 1, Group 1 Part# XSW



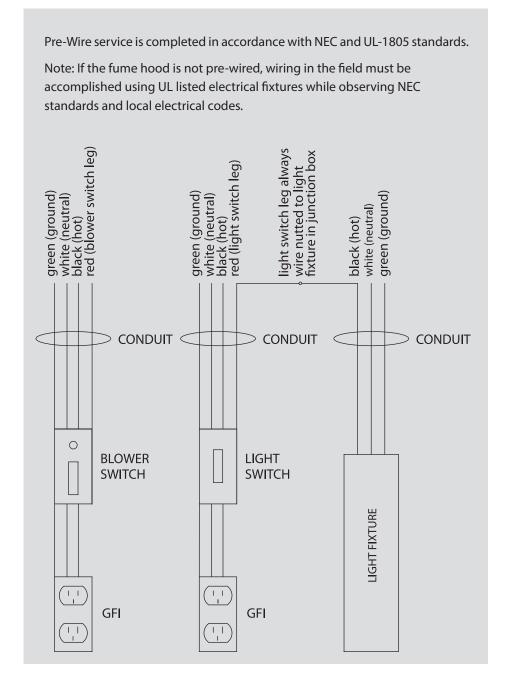
208 Volt, 20 Amp Single Pole Receptacle 230, 277 or other available upon request Part# 208



120 volt 20 Amp Ground Fault Interrupter (GFI) Duplex Outlet Standard Black color with cover Part# GFI



Explosion Proof Light Class 1, Group 1 Available in incandescent or fluorescent Part# XPL

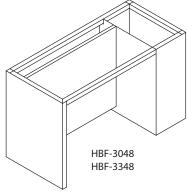


Base Cabinets

Although AMS is your fume hood expert, we do offer a selection of inset metal wall and base cabinets in 29", 33" and 35" heights. When a large quantity of standard laboratory cabinets is required, please contact us for an approved distributor.

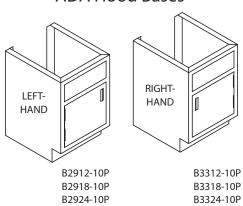
AMS fume hood base cabinets conform to the method of testing and performance requirements set forth in the Scientific Equipment Furniture Association (SEFA). All ADA and hood base cabinets can be manufactured in stainless steel.

ADA Base Frames



Must be specified left- or right-hand; right-hand shown

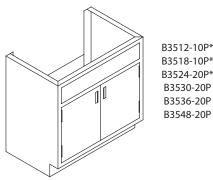
ADA Hood Bases



Must be specified left- or right-hand

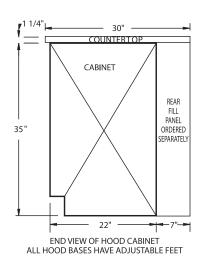
NOTE: ADA cabinet configurations come in both 30" and 33" high.

Hood Bases



EXAMPLE: HB-3630 = 36"h x 30"w NOTE: These cabinets also come

in 33" high and 29" high



*Single door; specify left- or right-hand

NOTE: Other metal base cabinets available upon request.



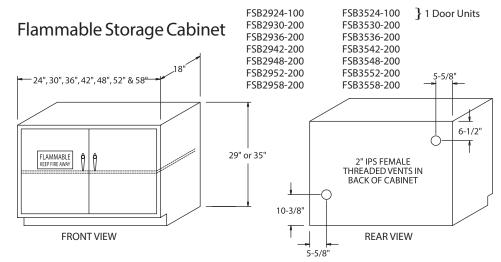
Flammable and Acid Storage Cabinets; Vacuum Pump Cabinet

The Flammable Liquid Storage
Cabinet is a "cabinet-withina-cabinet" design with fully
welded 18ga interior and
exterior units. Both cabinets
are completely powder coated
inside and out, offering greater
protection against corrosion
then the standard double panel
construction. This design creates
a 1.5" airspace on all four sides as
well as top and bottom for heat
resistance up to 2400 degrees F.

The interior of the cabinet contains one fully adjustable shelf and a 2" deep removable drip pan to capture any spills or leaks inside the cabinet. Exterior depth of the cabinet is 18" and interior depth is 14". A 2" x 2" 12ga support angle is shipped with each cabinet for countertop installation.

Doors have a continuous hinge and lever type handles with a hidden 3-point lock mechanism. If a self-closing feature is required, a hydraulic closure will be attached to the doors and a custom closing system attached to the interior cabinet. The back of the cabinet has two venting holes that are plugged with 2" barrel bungs.

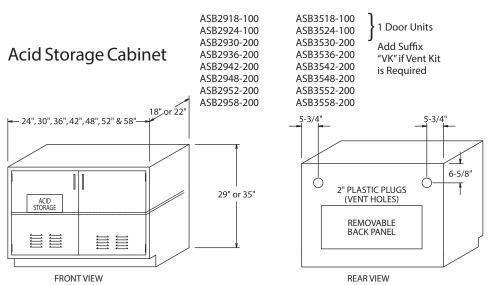
AMS Flammable Liquid Storage Cabinets are constructed in accordance with OSHA and NFPA 30, and are UL listed.



Flammable storage cabinets can be painted any standard color or safety yellow.

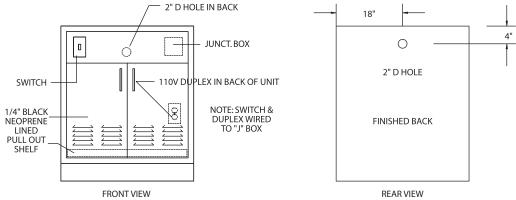
For synchronized self-closing doors, add -SCC to the part number.

For 22" deep,replace -200 with -220. For mobile cabinet, contact your AMS representative.



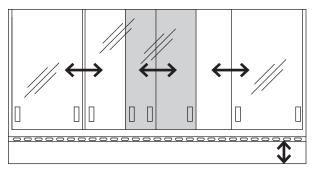
Acid cabinet can be painted any standard color or safety blue.

Vacuum Pump Cabinet

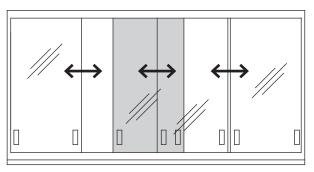


Sash Options

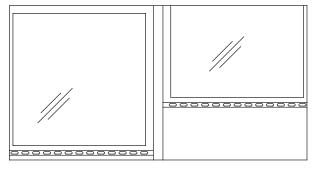
To order these optional sashes, please refer to the Ordering Guide on the back cover of this catalog. The large, underlined number in each of the part numbers below is the Sash Style number to use when ordering.



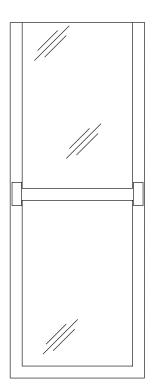
Combo Horizontal/Vertical Sash



Horizontal Sash Only



Interlocking Sash



Hanging Horizontal Doors

Additional Sash Options

- SASH ALARM: a red light alarm activated when sash is opened above a pre-set height
- SASH STOP: a device to limit sash opening, with manual override
- AUTO SASH RETURN: returns sash to 18" working height when opened beyond set height
- SASH INTERLOCK: allows only one sash to be opened at any time on a double-sided hood
- DOUBLE HUNG SASH: for larger openings with ceiling height limitations
- SASH LOCK: a keyed lock that keeps the sash closed if needed in a classroom setting
- PUSHBUTTON SASH*: opens and closes sash with the push of a button
- AUTO-SENSING SASH*: automatically closes sash when operator walks away

*These two types of sashes have a wide range of capabilities. Please call an Air Master Systems representative or the factory to determine which application is right for your needs.



Epoxy Resin and Stainless Steel Surfaces

Work Surfaces

Another key component of effective and efficient fume hood utilization is the type of work surface to use. Inappropriate work surfaces can interfere with lab processes and be a potential danger to lab personnel. Air Master Systems Corporation provides durable, high-performance epoxy resin and stainless steel surfaces that feature top quality materials and workmanship.

Epoxy Resin

Epoxy resin fume hood surfaces provide a durable, chemical resistant worksurface for the harshest laboratory environment. The worksurface is surrounded by a 3/8" (10mm) integrally-molded containment rim designed to ease clean-ups and prevent hood and casework damage from large chemical spills.

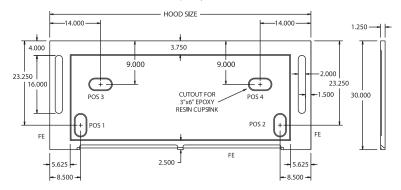
Oval 3" \times 6" (7.65 \times 15.3cm) cup sinks are standard; locations must be specified when ordering. Other sinks sizes are available upon request.

Stainless Steel

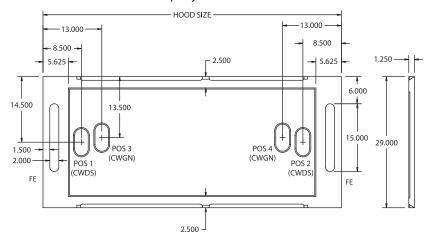
Stainless steel work surfaces are fabricated of 304 stainless steel*, are 1-1/4" (3.2 cm) thick and dished 3/8" with a #4 smooth satin finish. Square 3" x 6" (7.65 x 15.3 cm) welded cup sinks are standard; locations must be specified when ordering.

*In perchloric acid applications, 316 stainless steel is used for lab safety.

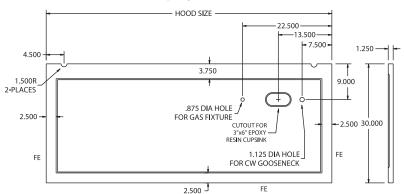
100 and 500 Series Epoxy Work Surfaces



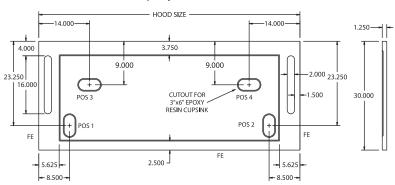
200 Series Epoxy Work Surfaces



300 Series Epoxy Work Surfaces



800 Series Epoxy Work Surfaces

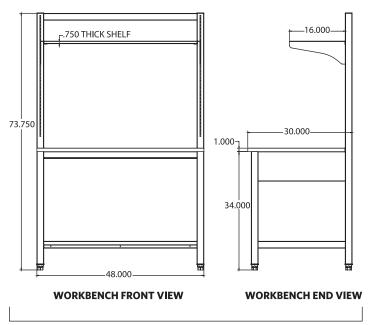


Solution Series Workbench and Table Frame

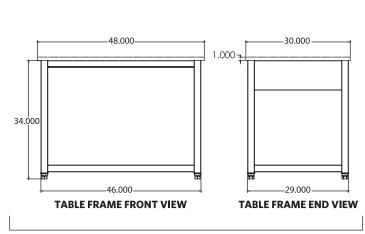
The complete flexibility of the Solution Series[™] Workbench (WB) and Table Frame (TF) systems will handle a multitude of functions in the laboratory environment. From clean rooms and research facilities to teaching labs, there is a configuration to meet your needs. Both the workbench and table frame share the same key features detailed below, and the workbench incorporates slotted tubing uprights for shelving options.

so adaptable.

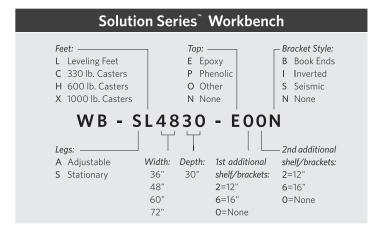
- Wall and island configurations can be readily created and easily changed as well as moved for new applications or changing space
- Can be used in conjunction with suspended, mobile or floormounted casework
- Solid welded construction
- Stationary models include a fineadjust leveling foot
- Can be ordered as mobile models with 330, 600 or 1000 lb. casters
- Static load capacity of 1000 lbs. (on stationary models)
- Standard working height is 36" with a depth of 30"
- Adjustable height from 29-38"
- Available in 36, 48, 60 and 72" widths
- Cabinets or apron assemblies ordered separately
- Countertop options available
- WB includes one shelf on 16" inverted shelf brackets
- WB shelving adjustable in 1" increments (additional shelving available)

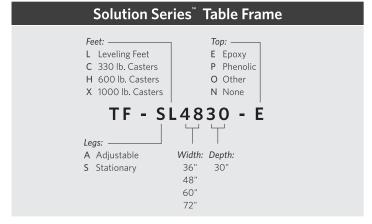


WB-SL4830-E00N (model as shown)



TS-SL4830-E (model as shown)





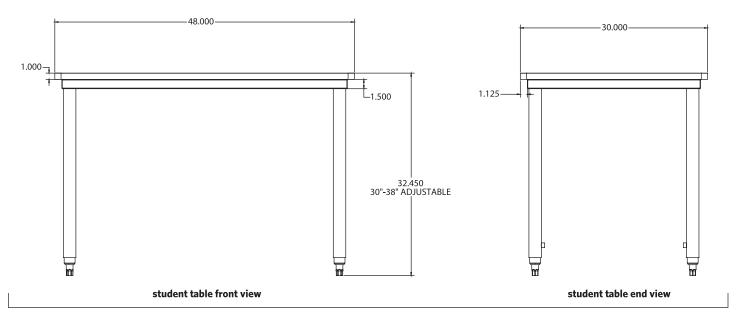


Solution Series Student Table

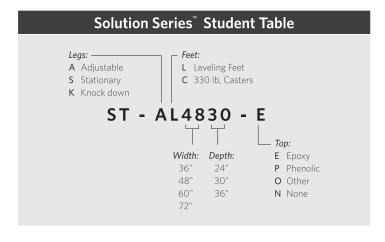
The complete flexibility of the Solution Series[™] Student Table (ST) will handle a multitude of functions in the laboratory environment. From clean rooms and research facilities to teaching labs, there is a configuration to meet your needs. The student table is available in a multitude of sizes and can be ordered in stationary, adjustable height and knock down versions.

so adaptable.

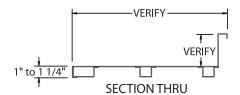
- Wall and island configurations can be readily created and easily changed as well as moved for new applications or changing space
- Can be used in conjunction with mobile or floor-mounted casework
- Solid welded construction
- Stationary models include a fineadjust leveling foot
- Can be ordered as mobile models with 330 lb. casters
- Static load capacity of 1000 lbs. (on stationary models)
- Standard working height is 36"
- Adjustable height from 30-38"
- Available in 36, 48, 60 and 72" widths
- Available in 24, 30 and 36" depths
- Cabinets ordered separately
- Countertop options available
- Adjustable height models include a leg lock-down bolt and adjust in 1" increments

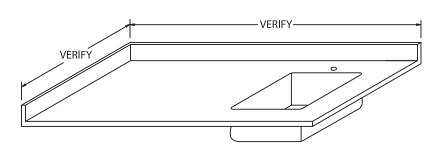


ST-AL4830-E (model as shown)



Custom Stainless Steel Countertops



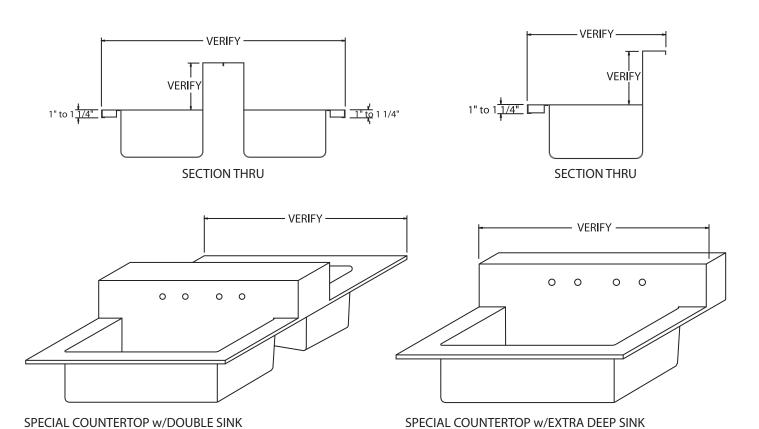


MARINE EDGE COUNTERTOPS ALSO AVAILABLE

Primarily used for all general purpose fume hoods and base cabinets, standard stainless steel countertops are fabricated of 16-gauge 304* stainless steel with a #4 smooth grain finish and are 1-1/4" (3.2 cm) thick and dished 3/8" (0.97 cm). A 4" integral backsplash comes standard and, when sinks or end splashes are required, they are continuously welded to the top and professionally buffed to a #4 finish. Countertop standard depth is 30" and can be made up to any length required to include a field joint or continual counter depending on the specific job requirements. The tops also have a rubberized sound deadening material applied to soften the sound of the top and make it more acoustically appealing.

Rectangular 3" \times 6" (7.65 \times 15.3 cm) welded cup sinks are standard; locations must be specified when ordering.

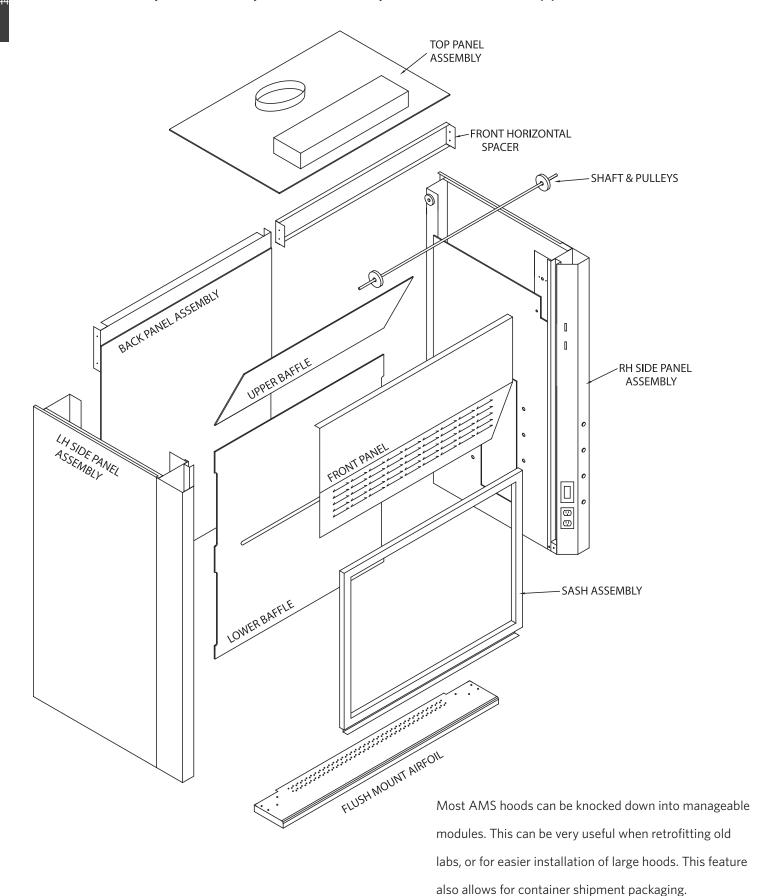
*Use of perchlorics requires use of 316 stainless steel for lab safety.





Knock Down Hoods

Easy disassembly and reassembly for a multitude of applications



Fume Hood General Design Requirements

1.01 FUME HOOD GENERAL DESIGN REQUIREMENTS

- A. Fume hoods shall function as ventilated, enclosed workspaces, designed to capture, confine and exhaust fumes, vapors and particulate matter produced or generated within the enclosure.
- B. Design fume hoods for consistent and safe air flow through the hood face. Negative variations of face velocity shall not exceed 20% of the average face velocity at any designated measuring point as defined in this section.
- C. Average illumination of work area: Minimum 80 foot-candles. Work area shall be defined as the area inside the superstructure from side to side and from face of baffle to the inside face of the sash, and from the working surface to a height of 28 inches.
- D. Fume hood shall be designed to minimize static pressure loss with adequate slot area and stainless steal exhaust collar configuration. Maximum average static pressure loss readings taken three diameters above the hood outlet from four points, 90 degrees apart, shall not exceed the following maximums.

Face Velocity Measured S. P. L. (W.G)

100 F.P.M. .30 inches 125 F.P.M. .45 inches 150 F.P.M. .60 inches

1.02 SUBMITTALS

- A. Shop Drawings: Indicate equipment locations, largescale plans, elevations, and cross sections, rough in and anchor placement dimensions and tolerances and all required clearances.
- B. Product Data: Submit manufacturer's data for each component and item of laboratory equipment specified. Include component dimensions, configurations, construction details, joint details, and attachments, utility and service requirements and locations.
- C. Samples: Submit 3" x 6" inch samples of finish for fume hood, work surfaces and for other pre finished equipment and accessories for selection by Architect.
- D. Test Reports: Submit test reports verifying conformance to test performances specified. Submit independent tests as specified.

1.03 QUALITY ASSURANCE

- A. Single source responsibility: Fume hood casework, work surfaces, and other laboratory equipment and accessories shall be manufactured or furnished by a single laboratory furniture company.
- B. Manufacturer's qualifications: Modern plant with proper tools, dies, fixtures and skilled worker to produce high quality laboratory casework and equipment, and shall meet the following minimum requirements:
 - Ten years or more experience in manufacturing of laboratory casework and equipment of type specified.
 - 2. Ten installations of equal or larger size and requirements.
- C. Installer's qualifications: Factory certified by the manufacturer.
- D. Product shall be manufactured and assembled in the United States of America.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Schedule delivery of equipment so that spaces are sufficiently complete that equipment can be installed immediately following delivery.
- B. Protect finished surfaces from soiling or damage during handling and installation. Keep covered with polyethylene film or other protective coating.
- C. Protect all work surfaces throughout construction period with 1/4" corrugated cardboard completely covering the top and securely taped to edges. Mark cardboard in large lettering No Standing."

1.05 PROJECT CONDITIONS

- A. Do not deliver or install equipment until the following conditions have been met:
 - 1. Windows and doors are installed and the building is secure and weather tight.
 - Plumbing, overhead ductwork and lighting are installed.
 - 3. All painting is completed and floor tile located below casework is installed.



Fume Hood General Design Requirements (continued)

2.01 FUME HOOD MATERIALS

- A. Steel: High quality, cold rolled, mild steel meeting requirements of ASTM A366; gauges U.S. Standard.
- B. Stainless Steel: Type 304 or 316; gauges U.S. Standard.
- C. Ceiling closure panels: Minimum 18 gauge; finish to match hood exterior.
- D. Bypass grilles: Low resistant type, 18 gauge steel, upward directional louvers.
- E. Safety glass: 7/32" thick laminated safety glass.
- F. Sash cables: 7 x 7 steel, coated, 1/8" diameter coated to 5/32". (Military spec. quality.)
- G. Sash guides: A full length extruded corrosion resistant polyvinyl chloride or powder coated steel with PVC guides to protect against metal to metal contact.
- H. Pulley assembly for sash cable: 2" diameter, steel construction, ball bearing type, with cable retaining device.
- I. Sash pull: Full width 16 gauge steel to match hood color.
- J. Interior access panels: To be made of the same material as the fume hood liner with an easily removable PVC gasket.

K. Fastenings:

- 1. Exterior structural members attachments: Sheet metal screws, zinc plated.
- 2. Interior fastening devices concealed. Exposed screws not acceptable.
- 3. Exterior panel member fastening devices to be corrosion resistant non-metallic material. Exposed screws not acceptable.

2.02 FUME HOOD CONSTRUCTION

- A. Superstructure: Rigid, self-supporting assembly of double wall construction, maximum 5-1/4" thick.
 - Wall consists of a sheet steel outer shell and a corrosion resistant inner liner, and houses remote operating service fixture mechanisms and electrical services.
 - 2. Access to fixture valves concealed in wall provided by exterior removable access panels, gasketed access panels on the inside liner walls, or through removable front posts.
 - 3. Hoods must be of full frame construction. Hoods that use metal brackets and spacers to hold interior and exterior panel in place are unacceptable.

- B. Exhaust outlet: 10" round, 20 gauge stainless steel exhaust collars.
- C. Access opening perimeter: Top and sides of face opening to be radiuses or angled.
 - Bottom horizontal: foil shall be a flush-mount type and provide a 1" bypass to insure a clean sweep and to minimize eddies along the work surface when sash is in the closed position. For ADA fume hoods, a secondary containment trough with flush mount airfoil to be provided.
 - 2. Bottom sash rail: 1-1/2" frame section, 16-gauge steel or PVC. Provide pull, full width of bottom rail.
 - 3. Set safety glass into rails in deep form, extruded polyvinyl chloride or neoprene glazing channels if a steel sash frame is being used.
 - 4. Counter balance system: Single weight, pulley, cable, counter balance system which prevents sash tilting by means of a shaft driven" system and permits one finger operation at any point along full width pull. Sash not using this type of counter balance systems are unacceptable. Maximum 9 pounds pull required to raise or lower sash throughout its full length of travel. Design system to hold sash at any position without creep and to prevent sash drop in the event of cable failure.
 - 5. Open and close sash against rubber bumper stops.
- D. Fume hood liner: 3/16" Polyresin: Reinforced polyester panel smooth finish and white color in final appearance. Flexural strength: 14,000 psi. Flame spread: 15 or less per U.L. 723 and ASTM E84-80.
- E. Baffles: Fabricate fixed baffles providing controlled air vectors into and through the fume hood of the same material as the liner. Hoods with adjustable baffles are unacceptable. All baffle support brackets to be non-metallic.
- F. Service fixtures and fittings: Color-coded hose nozzle outlets and valves mounted inside the fume hood and controlled from the exterior with color-coded index handles (when specified).
 - 1. Valves: Rod-driven needlepoint type with selfcentering cone tip and seat of hardened stainless steel.
 - 2. Provide pre-piping for all service fixtures from valve to common point for final connection by respective trades. 1/2" OD copper tubing for water, air, gas and vacuum. All type "L" copper connections & elbows are made with Vega Pro-Press fittings.

Fume Hood General Design Requirements (continued)

- 3. Fixtures exposed to hood interior: Brass with chemically resistant powder coating.
- 4. Remote control handles: Prong type, easy to grasp.
- 5. Services: To be determined by Architect/Planner.
- G. Hood light fixtures: Two lamp, rapid start, T-8 UL listed fluorescent light fixture with sound rated ballast installed on top panel.
 - 1. Interior of fixture: White, high reflecting plastic enamel.
 - 2. Size of fixture: Largest possible up to 48" for hoods with superstructures up to six feet. Provide two 24" fixtures for hoods with eight foot superstructures.
 - 3. Include lamps with fixtures.
 - 4. Illumination: Per performance values, part 1 of this section.
 - 5. Provide switch with black acid resistant thermoplastic (when specified).
 - 6. 3-way switch on each side of double sided hoods (when specified).
- H. Electrical services: Provide on each front post of hoods. Three wire grounding type receptacles rated at 120v GFI, 20 amperes where specified. Flush Plates: Black acid resistant thermoplastic.
- I. Work surfaces: 1-1/4" thick dished a nominal 1/4" to contain spills.
 - 1. Molded resin work surfaces for hoods with white Resisto Roc or Poly-resin liners. Front raised edge no more than 1/2" wide.
- J. Safety Monitor/Alarm System: Provide safety Monitor/Alarm system that monitors face velocity and provides audible and visual alarm if face velocity drops below safe levels. The technology used in the TEL 500 will be based on thermally compensated thermistor based in the alarm module. As the internal fume hood pressure changes as the sash opening is closed and opened, the flow passing over the thermistor is calibrated to a face velocity that is displayed on the front of the monitor.
 - Safety monitor: UL listed, tamper proof, with all alarm circuits, electric components, external tubing, and manifolds furnished complete and factory installed. Monitor shall have light emitting diode display that provides clear indication of airflow conditions.
 - 2. Calibration is the responsibility of the owner and is required once the hood is stationed and the hood exhausts and room supply systems

- are balanced. A secondary calibration has been factory set into the alarm's memory only to determine that the alarm is functional and ready for shipment. The primary calibration must be completed in the field.
- 3. Airflow sensor: Thermally compensated glass beaded thermistor, factory connected to a sidewall port on the interior of the fume hood.
- 4. Alarm Signal: Audible signal and visual, red light emitting diode:
 - a. Silence pushbutton, which disables the audible alarm, shall be accessible on the front of the safety monitor.
 - b. Provide alternate mode in which visible alarm is silenced indefinitely but visual alarm remains activated until the alarm condition is corrected.
 - When alarm condition is corrected and face velocity and volume return to specified levels, the Safety Monitor will automatically reset and begin routine monitoring.
 - d. Provide test circuit to verify proper Safety Monitor operation.
 - e. Electrical rating: Maximum 12 VDC, and maximum current rating of 20 OMA.
 - f. Provide a option for a sash alarm / sensor if required.
- 2.03 CEILING ENCLOSURE: Provide ceiling enclosure from top of hood to accommodate a ceiling height (verify). Fabricate enclosure from 18 gauge steel to match the hood material and finish.
 - A. Preparation: Spray clean metal with a heated cleaner/phosphate solution.
 - B. Application: Electro statically apply powder coat of selected color and baked in controlled high temperature oven to assure a smooth, hard satin finish. Surfaces shall have a chemical resistant, high grade laboratory furniture quality finish of the following thickness:
 - 1. Exterior and interior surfaces exposed to view: 1.5 mil average and 1.2 mil minimum.

2.04 SOURCE QUALITY CONTROL

A. Demonstrate fume hood performance by means of documentation of a third party testing company to the ASHRAE 110-1995 methods of testing.



Fume Hood Technology — Glossary of Terms

Airfoil: Shaped or streamlined member at hood entrance designed to enhance movement of air into the hood.

Air Volume: Rate of airflow, normally expressed in cubic feet per minute (CFM).

ASHRAE: American Society of Heating, Refrigerating, and Air Conditioning Engineers, a professional organization that sets industry standards for fume hood testing procedures.

Auxiliary Air: Supply or makeup air delivered external to the chamber of a fume hood to reduce air consumption.

Baffle: Panels located across back of hood interior, which control pattern of air moving through the hood.

Blower: Air moving device (or fan) consisting of motor, impeller, and scroll.

Bypass: Compensating opening that helps maintain constant volume exhaust from fume hood, regardless of sash position.

Canopy Hood: Ceiling or wall suspended ventilating device for noncritical use with heat, water vapor, odors, etc.

CFM: Cubic Feet Per Minute, a unit of measurement of air volume.

Combination Sash: Horizontal panels in a vertically rising frame; see sash.

Constant Volume: Type of fume hood exhaust system that exhausts the same volume of air, regardless of sash position.

Containment: Extent to which fumes are confined within the hood compartment.

Damper: Device installed in duct to control air volume.

Demonstration Hood: Fume hood with glass panels on two or three sides to improve visibility for demonstrating experiments in a classroom setting.

Exhaust Volume/Parameters: Quantity of air exhausted by the fume hood; quantity of air required to maintain desired face velocity, expressed in cubic feet per minute (CFM).

Face Velocity: Speed of air moving into the fume hood through the face opening (through the sash), measured in feet per minute (FPM).

FPM: Feet per minute; measurement of air velocity.

Liner: Fume hood interior sides, back, and top, including baffle.

Lintel: Portion of fume hood front located above access opening

Louvers: Slit-like openings in the lintel that allow bypass air to enter the hood when the sash is closed.

NFPA: National Fire Protection Association.

Negative Pressure: Pressures lower than one atmosphere.

Positive Pressure: Pressures higher than one atmosphere.

Restricted Bypass Fume Hood: Fume hood operating type, designed with limited bypass area; commonly used in conjunction with Variable Air Volume (VAV) exhaust systems and restricted sash opening designs.

Sash: Sliding glass panel set in the fume hood face that provides access to the hood interior.

Service Fitting/Plumbing: Water faucets and gas valves mounted on or fastened to the fume hood.

Static Pressure: Air pressure, or resistance, in fume hood or duct, expressed in inches of water.

U.L. 1805: Underwriters Laboratories certification that verifies conformance to electrical, mechanical, and airflow standards.

Variable Air Volume (VAV): Type of fume hood exhaust system that typically maintains constant fume hood face velocity by adjusting blower motor speed or a balance damper in response to changes in sash position.

Velocity: Speed of air, measured in feet per minute (FPM).

Velocity Pressure: Force per square inch applied by moving air.

Volume: Quantity of air, usually measured in cubic feet per minute (CFM).

Work Surface: Top material; area in fume hood where apparatus rests and where work takes place.