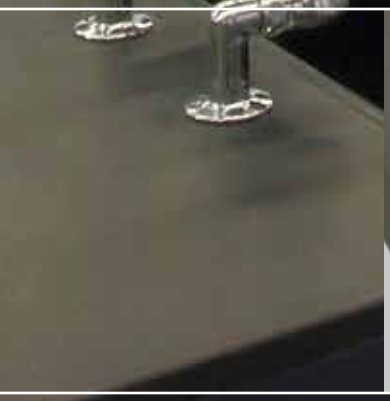
Supreme Air Venturi

Laboratory Fume Hoods

KEWAUNEE®

encouraging new discovery...*Worldwide*

VENTURI



Venturi Effect

"A short tube with tapering constriction in the middle that causes an increase in velocity of flow…or creating suction." *Oxford Dictionary*

Giovanni Batista Venturi – (1746-1822)

The Venturi Port accelerates the airflow in the lower corners of the hood opening. *patent pending*

VENTURI

Supreme Air | Kewaunee Scientific Corporation

Kewaunee's Venturi Fume Hood Offering

- Constant Volume
- Variable Air Volume
- Bench Mounted Hoods
  - 24"- 30"- 36" interior depths
  - 48" and 60" interior heights
  - 28" and 35" sash heights
- Floor Mounted Hoods
  - 24"- 30"- 36" -48" interior depths
  - 83" interior height
  - 74" viewing height
- ADA Accessible
- Sash offerings
  - Vertical
  - Split Vertical
  - Horizontal
  - Combination
  - Split Combination
- Liner Options:
  - KMER Epoxy Resin
  - Kemglass – FRP
  - Stainless Steel
  - Phenolic Resin

Contents

Venturi Fume Hood Features 2
Venturi Selection Guide 3
Part Number Explanation 4
Guide to Fume Selection 6
General Purpose Bench Hoods .. 8
Split Sash Bench Hoods 14
ADA Bench Hoods 18
LX Series Bench Hoods 22
LX Series Split Sash Hoods 30
V40 - Isotope Hoods 38
V45 - Perchloric Acid Hoods .. 40
Floor Mounted Hoods 42
Distillation Hoods 48
Venturi Fume Hood Options ... 50
Electrical Fixtures 55
Pre-wired 55
Work Tops 58
Cupsinks 60
Ceiling Enclosures 61
Service Fittings 62
Base Cabinets 66
Trim 70
Fume Hood Accessories 71
Pre-wired & Pre-piped 73
Recommended Work Practices 74
Glossary of Term & Definitions 78
Index 82
Typical Installations 84
Fume Hood Testing Facilities ... 85

Supreme Air Venturi V05 Vertical Rising Sash Bench Hood

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Venturi Fume Hood Features

Light & Sash Stop Controller

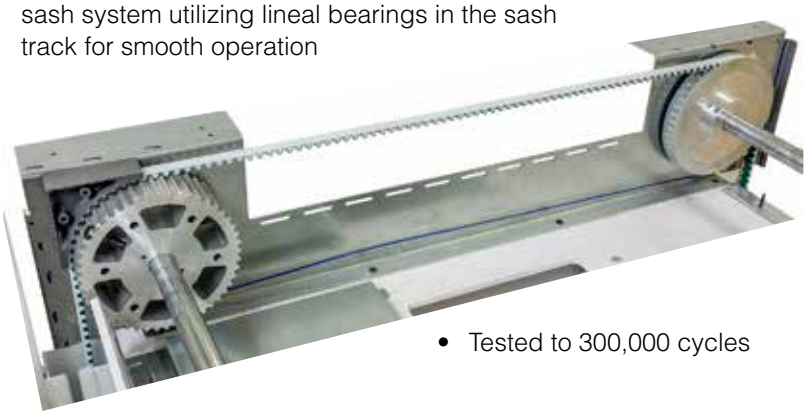
General Features

- LED interior lighting with 15 intensity and 3 color settings
- Large viewing height
- Unparalleled containment
- Low Flow/High Performance
- Energy Efficient
- Venturi post design improves corner airflow
- Electromechanical sash stop integrated into sash track
  (mechanical sash stop on floor mounted hoods)
- Flush airfoil for easy user access
- Easily removable, gasketed Access Panels
- Two GFCI protected duplex receptacles in each corner post
- Room for five service fittings per side post
- Sash handle notched at each end for cord pass-through

Venturi Port & Notched Sash Handle

Belt Driven Sash & Pulley System

- Low maintenance, dual shaft, belt and gear driven, sash system utilizing lineal bearings in the sash track for smooth operation



- Tested to 300,000 cycles

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Venturi Fume Hood Selection Guide

Bench Mounted Fume Hoods

	Interior Height	Sash Type	Sash Opening Height	Available Interior Depths				Available Exterior Lengths						
General Purpose Hoods				24"	30"	36"	48"	48"	60"	72"	96"	120"	144"	
V05	48"	Vertical	28"	•	•	•		•	•	•	•			page 8-9
V06	48"	Combination	28"	•	•	•		•	•	•	•			page 10-11
V07	48"	Horizontal	31"	•	•	•		•	•	•	•			page 12-13
Split Sash Hoods (Extra Length)				24"	30"	36"	48"	48"	60"	72"	96"	120"	144"	
V10	48"	Vertical	28"	•	•	•					•	•	•	page 14-15
V11	48"	Combination	28"	•	•	•					•	•	•	page 16-17
LX Series Fume Hoods (Extra Height)				24"	30"	36"	48"	48"	60"	72"	96"	120"	144"	
V25	60"	Vertical	28" - 35"	•	•	•		•	•	•	•			page 22-25
V26	60"	Combination	28" - 35"	•	•	•		•	•	•	•			page 26-29
LX Series Split Sash Hoods (Extra Length & Extra Height)				24"	30"	36"	48"	48"	60"	72"	96"	120"	144"	
V30	60"	Vertical	28" - 35"	•	•	•					•	•	•	page 30-33
V36	60"	Combination	28" - 35"	•	•	•					•	•	•	page 34-37
ADA Hoods				24"	30"	36"	48"	48"	60"	72"	96"	120"	144"	
V15	51"	Vertical	28"	•				•	•	•				page 18-19
V16	51"	Combination	28"	•				•	•	•				page 20-21
Specialty Hoods				24"	30"	36"	48"	48"	60"	72"	96"	120"	144"	
V40 Isotope	48"	Vertical	28"	•				•	•	•	•			page 38-39
V45 Perchloric Acid	48"	Vertical	28"	•				•	•	•				page 40-41

Floor Mounted Fume Hoods

	Interior Height	Sash Type	Sash Height Opening	Available Interior Depths				Available Exterior Lengths						
General Purpose Hoods				24"	30"	36"	48"	48"	60"	72"	96"	120"	144"	
V65	83¾"	Vertical	64¼"	•	•	•	•	•	•	•	•			page 42-43
V66	83¾"	Combination	64¼"	•	•	•	•	•	•	•	•			page 44-45
V67	83¾"	Horizontal	68"	•	•	•	•			•	•	•		page 46-47
Distillation Fume Hoods				24"	30"	36"	48"	48"	60"	72"	96"	120"	144"	
V90	83"	Vertical	63"	•	•	•		•	•	•	•			page 48-49

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Part Number Explanation

Venturi Fume Hood Catalog Number Explanation

Base Part Number | Required Styles | Options

V05 F 28 24 72 K N - G1, F1, SK - A1, V . . .

Fume Hood Type

Bench Fume Hoods

V05 = Vertical Sash
V06 = Combination Sash
V07 = Horizontal Sash

V10 = Split Vertical Sash
V11 = Split Combo Sash

V15 = ADA Vertical Sash
V16 = ADA Combo Sash

V25 = LX Vertical Sash
V26 = LX Combo Sash

V30 = LX Split Vertical Sash
V36 = LX Split Combo Sash

V40 = Isotope - Vertical Sash
V45 = Perchloric Acid - Vertical Sash

Floor Mounted Fume Hoods

V65 = Vertical Sash
V66 = Combination Sash
V67 = Horizontal Sash

Distillation Fume Hoods

V90 = Vertical Sash

Hood Construction Style

F = Venturi Fume Hood

Sash Opening Height

28 = Bench Hood
31 = Horizontal Sash Bench Hood
35 = LX Bench Hood
63 = Distillation Hood
64 = Floor Mounted Hood
68 = Floor Mounted Horizontal Sash

Hood Interior Depth

24 = 24"
30 = 30"
36 = 36"
48 = 48”

Hood Length

4' / 48" = **48**
5' / 60" = **60**
6' / 72" = **72**
8' / 96" = **96**
10' / 120" = **20**
12' / 144" = **44**

Interior Liner Material

(1/4") Kemglass (fiberglass reinforced polyester) = **G**
(1/4") KMER (Kewaunee Modified Epoxy Resin) = **K**
(16 ga) Type 316L Stainless Steel = **L**
(16 ga) Type 304L Stainless Steel = **S**
(1/4") Phenolic Resin = **T**

Sash Frame

Frameless = **N**
Powder Coated Steel = **M**
Type 304L Stainless Steel = **S**

Sash Glass Type

Laminated Safety Glass = **G1**
Tempered Glass = **G2**
Polycarbonate = **G3**

Service Fitting Holes

Rod Controlled Needle Valves = **F1**
Rod Controlled Ball Valves = **F2**
Front Load Needle Valves = **F3**

Electrical Fixtures

See list below

Options

See page 5

Electrical Fixtures:

V05 F 28 24 72 K N - G1, F1, SK - A1, V . . .

Receptacle Grade & Type

S = Specification Grade – 20 amp-120 VAC – GFCI
H = Hospital Grade – 20 Amp-120 VAC– GFCI

Receptacle Color

Black = **K**
Ivory = **V**
White = **W**
Grey = **G**
Red = **R**

Part Number Explanation

Venturi Fume Hood Catalog Number Explanation

V 0 5 F 28 24 72 K N - G1, F1, SK- A1, V . . .

Options
See list below

Option Codes:

Airflow Modification

V	= VAV Bypass	page 52

Airflow Safety

A1	= Air Alert 600 for Vertical Sash	page 52
A2	= Air Alert 600 for Combo Sash	page 52
A3	= Air Alert 300	page 52
L	= Sash Stop Label	page 52

Fittings & Fixtures

B1	= Vapor Proof Light & Switch	page 57
B2	= Explosion Proof Light & Switch	page 57
K	= Fan/Blower Switch	page 55
P1	= Cord Port (one in each post)	page 56
U/U2	= Pre-wired/UL Listed	page 55

Stainless Steel Parts

C	= Stainless Steel Duct Collar (Type 316)	page 53
O	= Stainless Steel Airfoil (Type 304)	page 54
O2	= Stainless Steel Airfoil (Type 316)	page 54
Q	= Stainless Steel Sash Pull (Type 304)	page 54

Sash Operators

R1	= Auto Sash Return	page 56
R2	= Push Button Sash Operator	page 56
R3	= Proximity Sash Operator	page 56

Miscellaneous Options

D	= Distillation Rack Preparation	page 53
E	= Fire Supression System	page 57
S	= Safety Shield	page 53
T	= Tissue Screen	page 54
W	= Work Shelf Supports	page 57

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Guide to Fume Hood Selection

Introduction

Selection of the proper type of fume hood to use in a laboratory should be based upon two interrelated considerations:

1. The hood must allow the user to perform the work in a safe, efficient manner.
2. The need to reduce air conditioning cost.

The hood must be large enough to accommodate the required apparatus within the prescribed safe work area of the hood (6" behind the plane of the sash and 2" in front of the back baffle). The configuration of the hood should be such that apparatus can be moved in and out of the hood easily. The sash opening of the hood must allow sufficient access for safely manipulating the apparatus within the hood. The interior of the hood must resist the corrosive effects of chemicals. The hood understructure should provide for storage of the required chemicals and/or apparatus for the work being done in the hood.

The total operating cost of a hood is greatly affected by its exhaust air requirements. The annual cost of heating and cooling the air exhausted by the hood can be as high as the initial cost of the hood itself. Choosing the proper hood type, sash configuration, and ventilation system can significantly reduce these costs.

Low Exhaust Volume Hoods

Low Exhaust Volume (LEV) fume hoods are designed to have a lower exhaust requirement than a traditional fume hood of the same size running at 100 FPM with a fully opened sash by operating with a face velocity of 60 FPM or less through the same sash opening and offering containment levels equal to, or superior to, the traditional fume hood. LEV hoods are required by SEFA to be able to pass ASHRAE 110 with a performance rating equal to or better than 4.0 AM 0.05, and 4.0 AI/AU 0.10. LEV fume hoods offer a suite of new features not found on traditional fume hoods, such as innovative bypass designs, baffle conformations, and aerodynamic flush airfoils and radiused fascias. These fume hoods are designed to go anywhere a traditional fume hood might go. They are able to be incorporated into either Constant Air Volume (CAV) or Variable Air Volume (VAV) systems.

Dynamic Barrier Bypasses are designed for LEV fume hoods being used in a CAV system. In a CAV system the exhaust volume to the hood is always the same, so as the sash height increases or decreases, the velocity decreases or increases, respectively. This type of bypass has a dynamic slot that opens wider as the sash is closed. This works with constant volume fume hoods since it allows additional air to enter the bypass above the sash, otherwise there would be a much larger increase in velocity when the sash is fully closed. The design of the Dynamic Barrier Bypass directs the air entering the fume hood so that it sweeps down the back of the sash, providing an extra barrier of protection for the user.

Vertical Bypasses are designed for LEV fume hoods being used in a VAV system. VAV systems are designed to vary the fume hoods exhaust rate so when the sash is open, the face velocity is always the same and when the sash is closed, the exhaust rate decreases to a minimum value decided by the users EHS or Safety Management department based on ANSI/AIHA Z9.5. This type of bypass is designed to have a small opening that doesn't change size regardless of sash height with the bypass panel running parallel to the sash. This opening is required by the VAV system so that it can operate as designed.

Face Velocity

In a laboratory fume hood, the control of contaminants is achieved by drawing air through the face (sash) opening. The face velocity is defined as the average velocity of the air in this opening and is expressed in units of feet per minute (FPM). The Occupational Safety and Health Administration (OSHA) in its Laboratory Standard does not specify a required fume hood face velocity. As a result, hood users must look to published guidelines for recommendations on proper face velocities. The most authoritative of these published guidelines is the ANSI/AIHA Z9.5 American National Standard for Laboratory Ventilation. This publication recommends using an average face velocity of between 60 and 120 feet per minute.

Newer technologies (like Kewaunee's Venturi series) have allowed face velocities below 60 FPM to show good containment. Part of the reasoning for these newer, lower face velocities is that the face velocity by itself does not define the protection level of a fume hood. There are other factors which are as important such as: the design of the hood, the location of the hood within the laboratory, the quality of the supply air distribution, and most importantly the work practices of the user. The ANSI/AIHA Z9.5 recommendation assumes that these factors have been optimized through proper design and work rules.

Where local and state codes require the use of a specific face velocity, these codes should be followed.

Baffle Design

Venturi fume hoods come with fixed slots in the rear baffles. The size of the slots are optimized to provide the best performance for general purpose use. The Venturi baffle technology works in both heavier-than-air and lighter-than-air applications. Therefore there is not a need for baffle adjustment.

For answers to frequently asked questions about Kewaunee fume hoods visit the Kewaunee web site at:
http://www.kewaunee.com/lab/knowledge-center/faqs/fume-hoods.aspx

Guide to Fume Hood Selection (continued)

Configurations

Bench hoods are set on a worksurface approximately 36" above the floor and provide a convenient work area for the standing position.

Floor mounted hoods are used where taller apparatus is required or equipment is rolled into the hood.

Distillation hoods are used where taller apparatus is required and convenient access to the floor of the hood is needed.

ADA fume hoods are designed in accordance with the guidelines for the Americans with Disabilities Act with controls lowered to improve accessibility. These hoods are also used when a sitting position is desired for work at the hood. They provide the same size work area as the corresponding bench hoods.

Sash Arrangements

Vertical sash hoods provide the best horizontal and vertical access to the hood interior but they also have the highest exhaust requirements. The exhaust requirements can be reduced by using a sash stop, although, this restricts the vertical access into the work area. Split sash hoods can be used where two work areas are needed.

Auto-Return Vertical Sash hoods use a vertical sash that will automatically return to a pre-set position if released from a higher position. A full-open lock-out is provided for set-ups.

Horizontal sash hoods provide good access into the hood vertically and allow for lower exhaust requirements. These sashes do restrict the access across the hood for loading of wide equipment and apparatus. This limitation becomes less significant in larger hoods.

Combination vertical rising/horizontal sash hoods, as the name implies, provide the benefits of both the vertical and horizontal sash hoods. For normal operation the sash can be partially raised vertically, or the horizontal panels can be used. The sash can be fully opened vertically for loading equipment into the hood.

Special Purpose Fume Hoods

Isotope hoods are designed for use with radioactive materials. The Type 304L stainless steel cove corner seamless welded construction eases cleaning and decontamination.

Perchloric Acid hoods are required when this acid is heated above ambient temperature. The Type 316L stainless steel liner is fabricated to eliminate the possibility of formation of perchloric acid deposits. This hood includes a water wash down feature.

Liner Material

KMER, **Kemglass**, and **Phenolic Resin** are general purpose liners with very good to excellent chemical resistance. **Stainless Steel** is usually used where cleanability and/or heat resistance are the prime requirements.

Phenolic Resin (T) liner is reinforced with cellulose fibers and is surfaced with white melamine material. The brown phenolic resin is visible at the edges of the sheet material.

Kemglass (G) is white fiberglass reinforced polyester sheet material.

KMER (K) is a white modified epoxy resin sheet, reinforced with glass fibers,

Type 304L Stainless Steel (S) and **Type 316L Stainless Steel (L)** is 14 gauge stainless steel sheet with a No. 4 finish.

HOOD LINER CHARACTERISTICS

LINER MATERIAL	RESISTANCE TO HEAT	CHEMICAL RESISTANCE ACIDS	CHEMICAL RESISTANCE SOLVENTS	CLEANABILITY
Phenolic Resin	G	E	E	G
Kemglass	G	E	G	G
KMER	G	E	E	G
Stainless Steel	E	F	E	E

E = Excellent G = Good F = Fair P = Poor

Work Tops

Epoxy Resin work tops are available in four colors, have excellent chemical resistance, and good heat resistance. They are the normal choice for general purpose hoods and highly corrosive applications.

Stainless Steel work tops are available in Types 304L and 316L. They are used where cleanability and heat resistance are important. Type 316 is preferred where improved chemical resistance is desired.

The work top is specified by a separate part number for all hoods except Isotope and Perchloric Acid hoods.

For answers to frequently asked questions about Kewaunee fume hoods visit the Kewaunee web site at: **www.kewaunee.com/fume/faq.shtml**

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V05 – General Purpose Bench Fume Hood

with Vertical Rising Sash

Accessories Included:

4	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	LED light fixture with illumination and color controller
1	Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Frameless	**N**
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)			
V05F	**28**					**-**		**,**		**,**		**-**		**,**		**, ...**

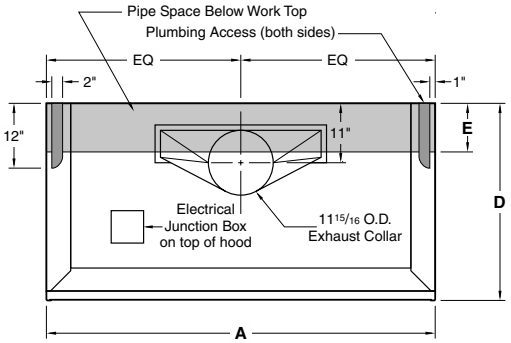
Technical Information V05

Airflow (CFM) Requirements

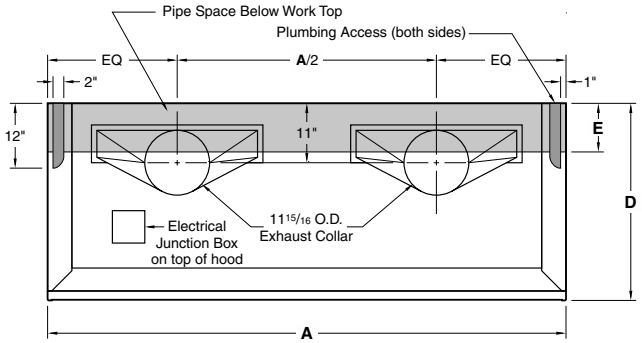
Face Velocity	28" High Sash Opening								18" High Sash Opening							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	790	0.40	1030	0.50	1270	0.60	1750	0.45	510	0.20	670	0.25	830	0.30	1150	0.20
80 FPM	630	0.25	820	0.35	1020	0.40	1400	0.30	410	0.15	540	0.15	670	0.20	920	0.15
60 FPM	470	0.15	620	0.20	760	0.25	1050	0.20	310	0.10	400	0.10	500	0.10	690	0.10
50 FPM	390	0.10	510	0.15	630	0.15	880	0.10	260	0.05	340	0.10	420	0.10	570	0.05

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

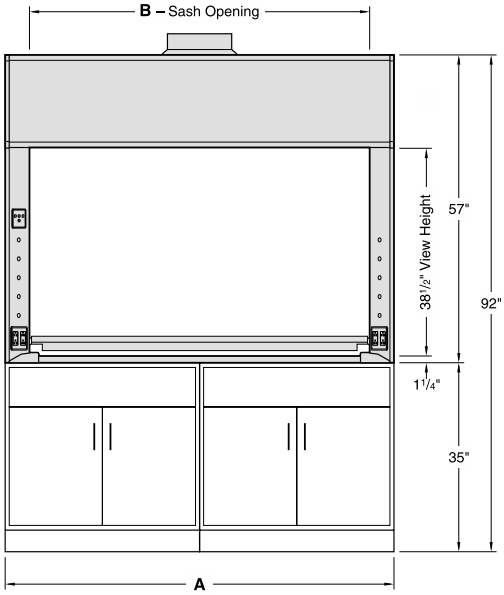
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	80 CFM	100 CFM	120 CFM	170 CFM	190 CFM	240 CFM	300 CFM	410 CFM
30" deep	90 CFM	120 CFM	150 CFM	200 CFM	230 CFM	290 CFM	360 CFM	500 CFM
36" deep	110 CFM	140 CFM	170 CFM	240 CFM	270 CFM	350 CFM	430 CFM	590 CFM



4'-5'-6' Rough-in

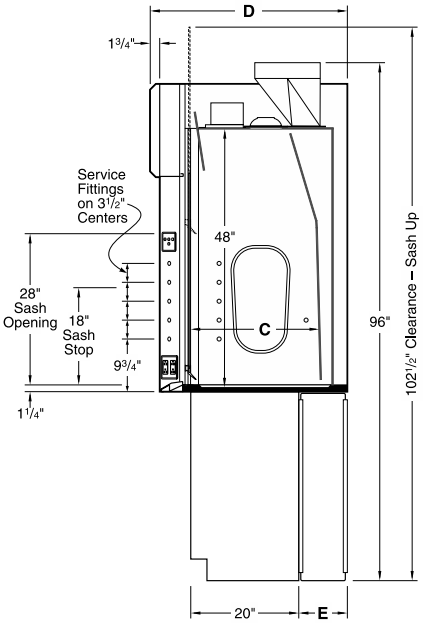


8' Rough-in



Elevation

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"



Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

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V06 – General Purpose Bench Fume Hood

with Combination Vertical Rising/Horizontal Sash

Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

1 LED light fixture with illumination and color controller

1 Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)			
V06F	**28**					**-**		**,**		**,**		**-**		**,**		**, ...**

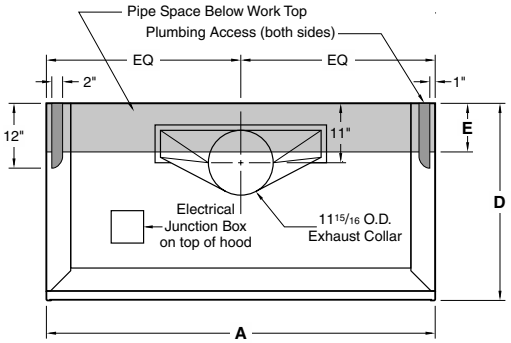
Technical Information V06

Airflow (CFM) Requirements

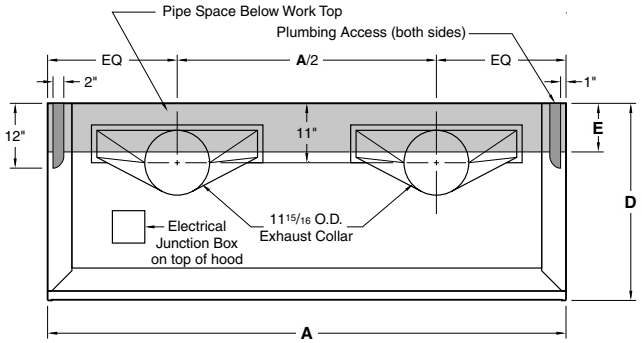
Face Velocity	18" High Sash Opening								Sash Closed – Panels Full Open							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	500	0.20	660	0.25	810	0.30	1120	0.20	460	0.15	600	0.20	750	0.20	1030	0.20
80 FPM	400	0.15	520	0.15	650	0.20	890	0.15	370	0.10	480	0.15	600	0.15	830	0.15
60 FPM	300	0.10	390	0.10	490	0.10	670	0.10	280	0.05	360	0.10	450	0.10	620	0.10
50 FPM	250	0.05	330	0.10	410	0.10	560	0.05	230	0.05	300	0.05	380	0.10	520	0.05

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

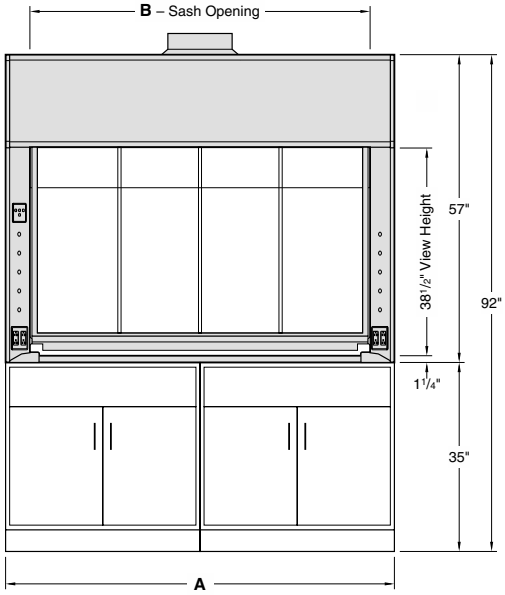
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	80 CFM	100 CFM	120 CFM	170 CFM	190 CFM	240 CFM	300 CFM	410 CFM
30" deep	90 CFM	120 CFM	150 CFM	200 CFM	230 CFM	290 CFM	360 CFM	500 CFM
36" deep	110 CFM	140 CFM	170 CFM	240 CFM	270 CFM	350 CFM	430 CFM	590 CFM



4'-5'-6' Rough-in

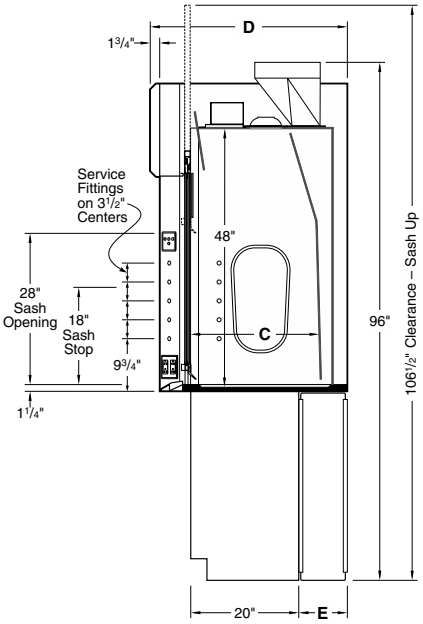


8' Rough-in



Elevation

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"



Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V07 – General Purpose Bench Fume Hood

with Horizontal Sash

Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

1 LED light fixture with illumination and color controller

Available Sizes:	part no. code
Sash Opening Height:	
31 inches / 787mm	**31**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Frameless	**N**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame	Sash Glass	Fitting Holes	Electrical Fixture	Option Choices (separated by commas)
V07F 31	☐☐	☐☐	☐	☐	- ☐☐,	☐☐,	☐☐	- ☐☐, ☐☐, ...

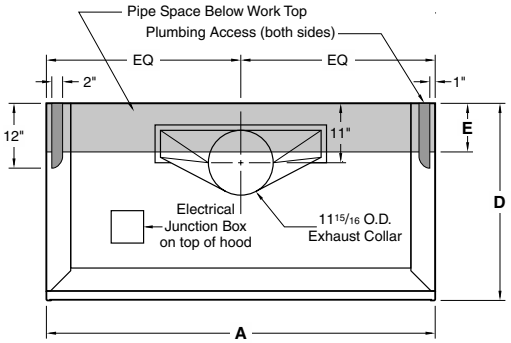
Technical Information V07

Airflow (CFM) Requirements

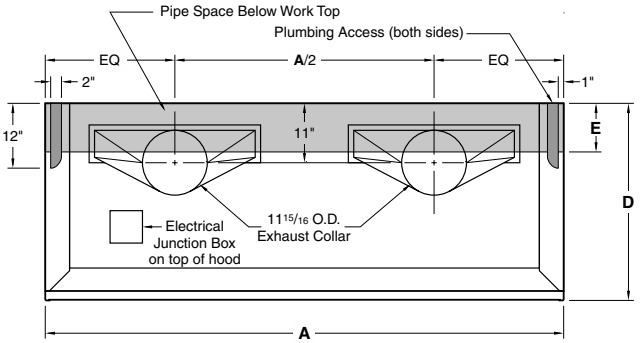
Face Velocity	Panels Fully Open							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	560	0.20	740	0.25	910	0.30	1260	0.25
80 FPM	450	0.15	590	0.20	730	0.20	1010	0.15
60 FPM	340	0.10	440	0.10	550	0.15	760	0.10
50 FPM	280	0.05	370	0.10	460	0.10	630	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

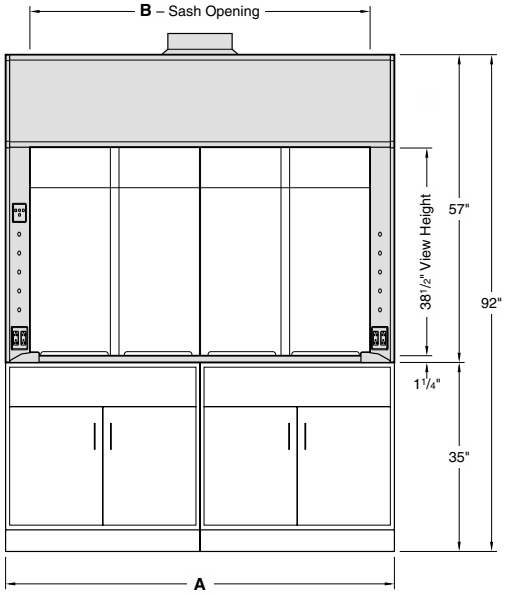
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	80 CFM	100 CFM	120 CFM	170 CFM	190 CFM	240 CFM	300 CFM	410 CFM
30" deep	90 CFM	120 CFM	150 CFM	200 CFM	230 CFM	290 CFM	360 CFM	500 CFM
36" deep	110 CFM	140 CFM	170 CFM	240 CFM	270 CFM	350 CFM	430 CFM	590 CFM



4'-5'-6' Rough-in

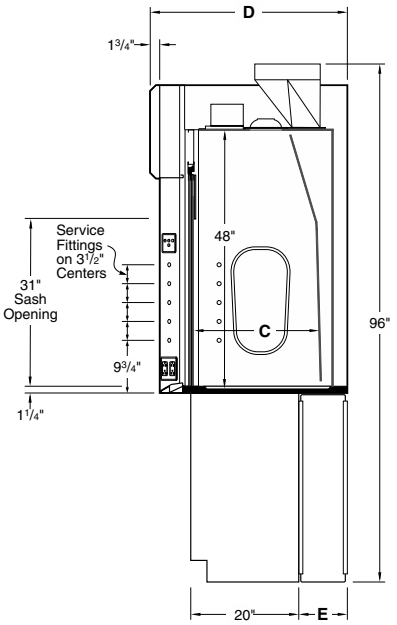


8' Rough-in



Elevation

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"



Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V10 – General Purpose Bench Fume Hood

with Split Vertical Rising Sash

Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

2 LED light fixture with illumination and color controller

2 Electromechanical sash stops with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
96 inches / 2438mm	**96**
120 inches / 3048mm	**20**
144 inches / 3658mm	**44**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)			
V10F	**28**	☐☐	☐☐	☐	☐	-	☐☐	,	☐☐	,	☐☐	-	☐☐	,	☐☐	, ...

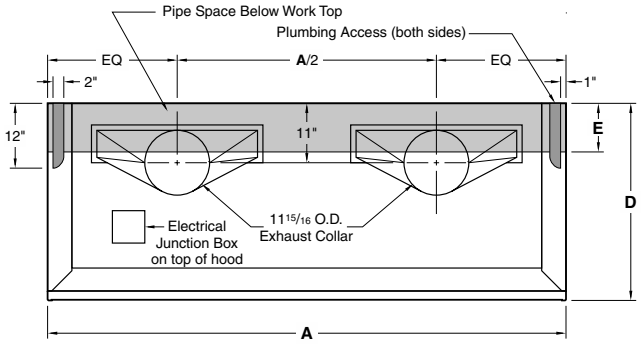
Technical Information V10

Airflow (CFM) Requirements

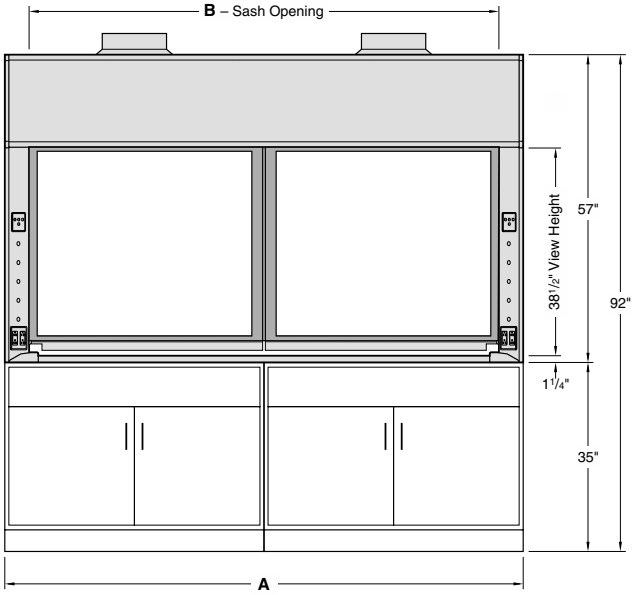
Face Velocity	28" High Sash Opening						18" High Sash Opening					
	8'-0" / 96"		10'-0" / 120"		12'-0" / 144"		8'-0" / 96"		10'-0" / 120"		12'-0" / 144"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	1750	0.45	2240	0.55	2720	0.65	1150	0.20	1460	0.25	1780	0.30
80 FPM	1400	0.30	1790	0.35	2180	0.45	920	0.15	1170	0.15	1430	0.25
60 FPM	1050	0.20	1340	0.25	1630	0.30	690	0.10	880	0.10	1070	0.15
50 FPM	880	0.10	1120	0.15	1360	0.20	570	0.05	730	0.10	890	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

ANSI Z9.5 Minimum Flow Rate						
Inside Depth	150 Air Changes/Hour			375 Air Changes/Hour		
	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"
24" deep	170 CFM	210 CFM	260 CFM	410 CFM	520 CFM	630 CFM
30" deep	200 CFM	260 CFM	310 CFM	500 CFM	630 CFM	770 CFM
36" deep	240 CFM	300 CFM	370 CFM	590 CFM	750 CFM	910 CFM

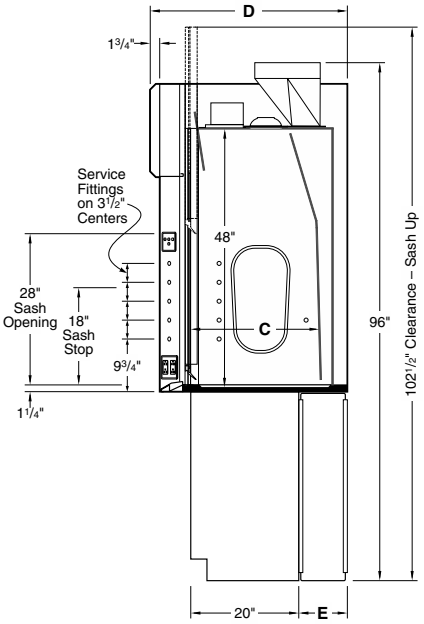


8'-10'-12' Rough-in



Elevation

Dimensions – Length			
A	96"	120"	144"
B	39"	111"	135"



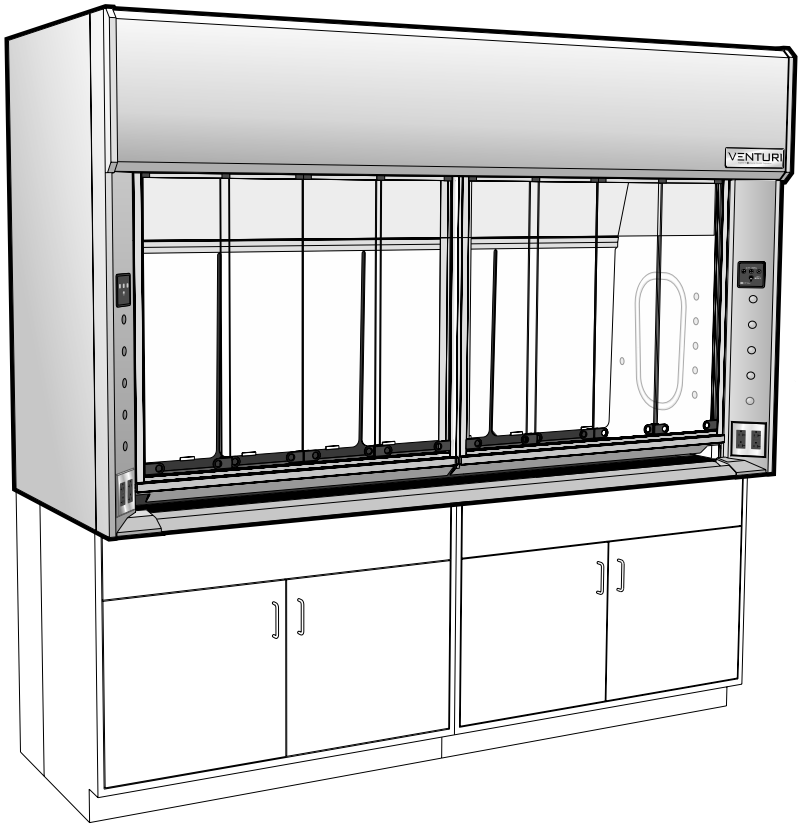
Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V11 – General Purpose Bench Fume Hood

with Split Combination Vertical Rising/Horizontal Sash



Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

2 LED light fixture with illumination and color controller

2 Electromechanical sash stops with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
96 inches / 2438mm	**96**
120 inches / 3048mm	**20**
144 inches / 3658mm	**44**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)			
V11F	**28**					**-**		**,**		**,**		**-**		**,**		**, ...**

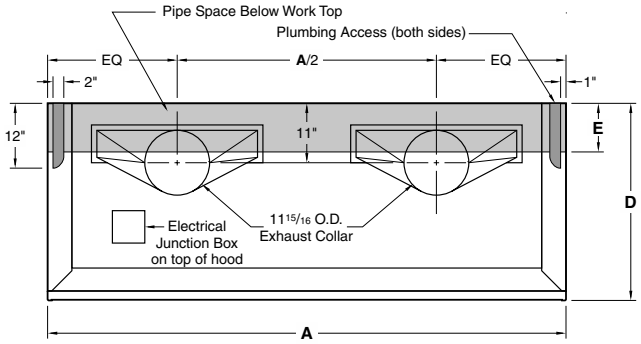
Technical Information V11

Airflow (CFM) Requirements

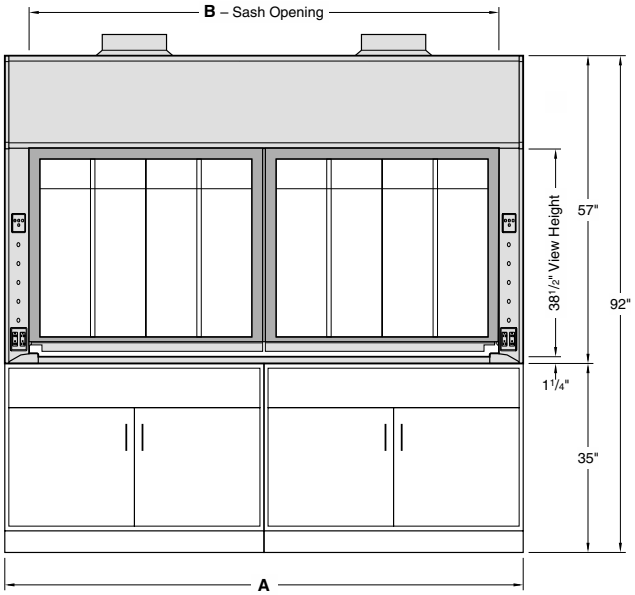
Face Velocity	18" High Sash Opening						Sash Closed – Panels Full Open					
	8'-0" / 96"		10'-0" / 120"		12'-0" / 144"		8'-0" / 96"		10'-0" / 120"		12'-0" / 144"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	1120	0.20	1430	0.25	1740	0.30	930	0.15	1220	0.20	1500	0.25
80 FPM	890	0.15	1140	0.15	1390	0.25	750	0.10	970	0.15	1200	0.15
60 FPM	670	0.10	860	0.10	1040	0.15	560	0.05	730	0.10	900	0.10
50 FPM	560	0.05	710	0.10	870	0.10	470	0.05	610	0.05	750	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

Inside Depth	ANSI Z9.5 Minimum Flow Rate					
	150 Air Changes/Hour			375 Air Changes/Hour		
	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"
24" deep	170 CFM	210 CFM	260 CFM	410 CFM	520 CFM	630 CFM
30" deep	200 CFM	260 CFM	310 CFM	500 CFM	630 CFM	770 CFM
36" deep	240 CFM	300 CFM	370 CFM	590 CFM	750 CFM	910 CFM

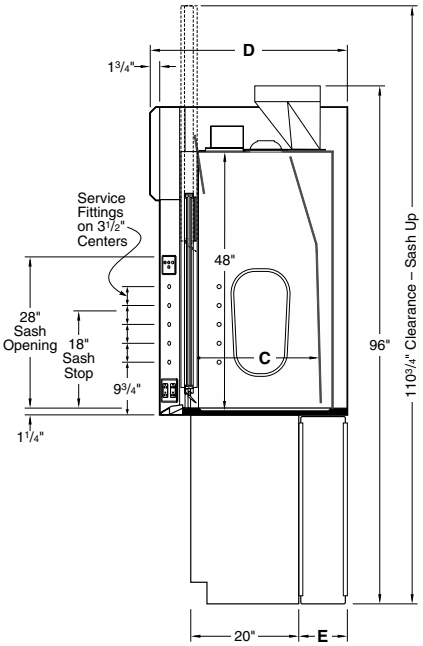


8'-10'-12' Rough-in



Elevation

Dimensions – Length			
A	96"	120"	144"
B	39"	111"	135"



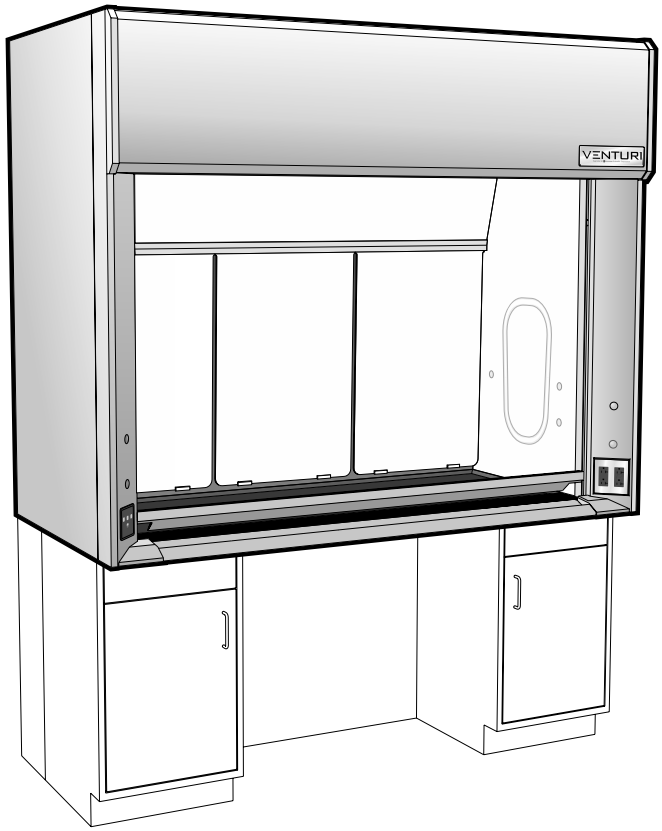
Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V15 – ADA Bench Fume Hood

with Vertical Rising Sash



Accessories Included:

2 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

1 LED light fixture with illumination and color controller

1 Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Frameless	**N**
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)				
V15F	**2**	**8**	**2**	**4**				**-**			**,**	**G**	**2**	**,**			**-**			**,**			**, ...**

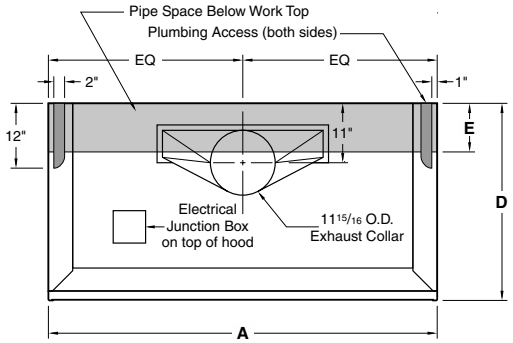
Technical Information V15

Airflow (CFM) Requirements

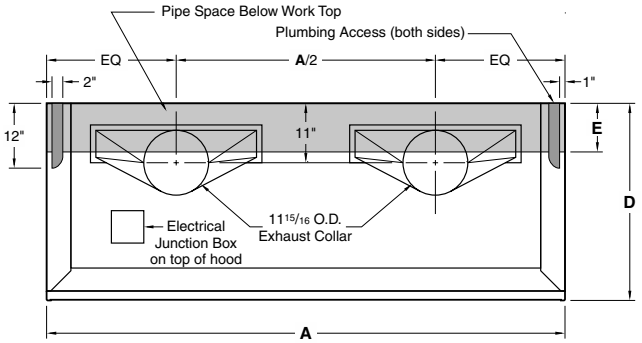
Face Velocity	28" High Sash Opening								18" High Sash Opening							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	790	0.40	1030	0.50	1270	0.60	1750	0.45	510	0.20	670	0.25	830	0.30	1150	0.20
80 FPM	630	0.25	820	0.35	1020	0.40	1400	0.30	410	0.15	540	0.15	670	0.20	920	0.15
60 FPM	470	0.15	620	0.20	760	0.25	1050	0.20	310	0.10	400	0.10	500	0.10	690	0.10
50 FPM	390	0.10	510	0.15	630	0.15	880	0.10	260	0.05	340	0.10	420	0.10	570	0.05

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

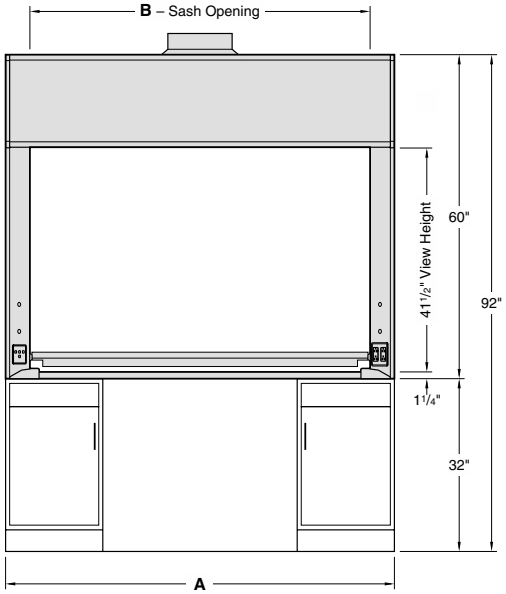
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	80 CFM	110 CFM	130 CFM	190 CFM	200 CFM	260 CFM	320 CFM	440 CFM



4'-5'-6' Rough-in

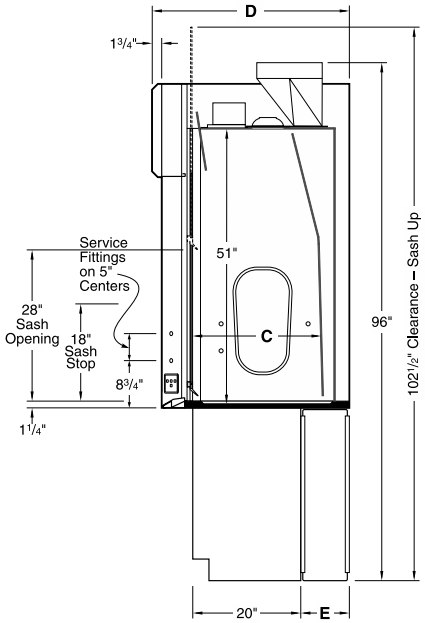


8' Rough-in



Elevation

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"



Vertical Section

Dimensions – Depth	
C	24"
D	36 1/2"
E	9"

KEWAUNEE® Scientific Corporation

V16 – ADA Bench Fume Hood

with Combination Vertical Rising/Horizontal Sash

Accessories Included:

2 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

1 LED light fixture with illumination and color controller

1 Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame	Sash Glass	Fitting Holes	Electrical Fixture	Option Choices (separated by commas)
V16F 28	**24**	☐☐	☐	☐ -	☐☐ ,	**G2** ,	☐☐ -	☐☐ , ☐☐ , ...

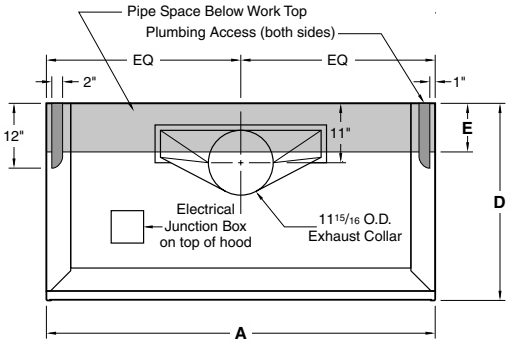
Technical Information V16

Airflow (CFM) Requirements

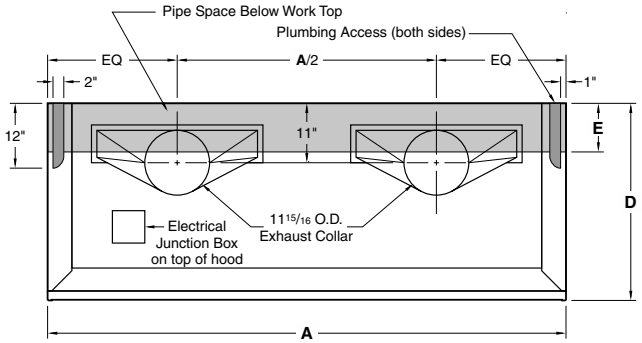
Face Velocity	18" High Sash Opening								Sash Closed – Panels Full Open							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	500	0.20	660	0.25	810	0.30	1120	0.20	460	0.15	600	0.20	750	0.20	1030	0.20
80 FPM	400	0.15	520	0.15	650	0.20	890	0.15	370	0.10	480	0.15	600	0.15	830	0.15
60 FPM	300	0.10	390	0.10	490	0.10	670	0.10	280	0.05	360	0.10	450	0.10	620	0.10
50 FPM	250	0.05	330	0.10	410	0.10	560	0.05	230	0.05	300	0.05	380	0.10	520	0.05

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

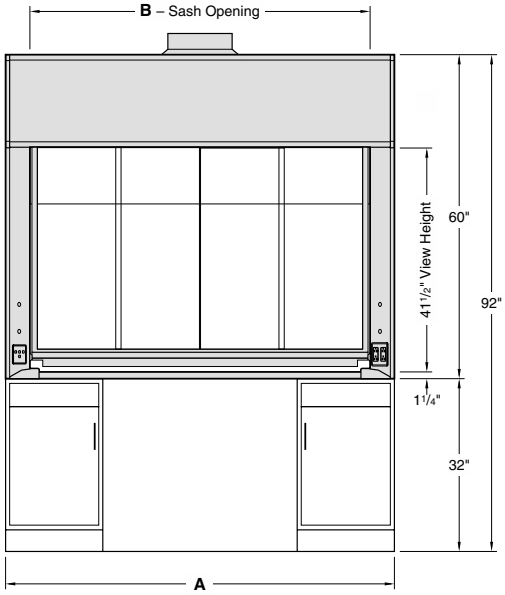
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	80 CFM	110 CFM	130 CFM	190 CFM	200 CFM	260 CFM	320 CFM	440 CFM



4'-5'-6' Rough-in

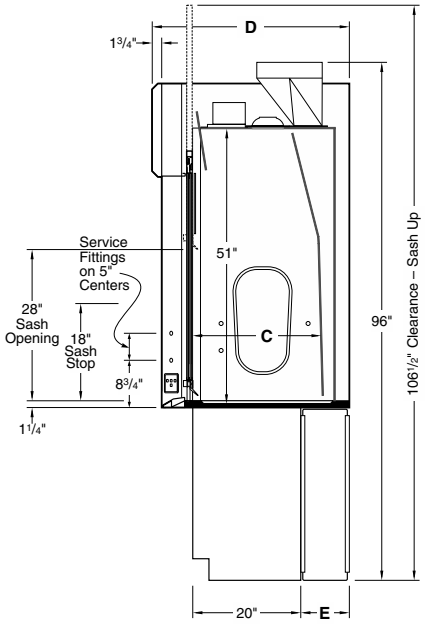


8' Rough-in



Elevation

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"



Vertical Section

Dimensions – Depth	
C	24"
D	36 1/2"
E	9"

KEWAUNEE® Scientific Corporation

V25 – LX Series Bench Fume Hood

60" Interior Height with 28" High Vertical Rising Sash

Accessories Included:	
4	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	LED light fixture with illumination and color controller
1	Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Frameless	**N**
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame	Sash Glass	Fitting Holes	Electrical Fixture	Option Choices (separated by commas)
V25F 28	☐☐	☐☐	☐	☐	- ☐☐,	☐☐,	☐☐	- ☐☐, ☐☐, ...

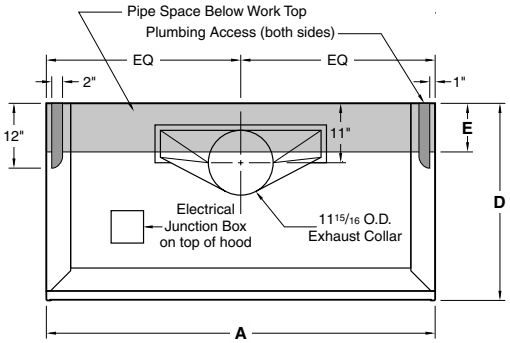
Technical Information V25

Airflow (CFM) Requirements

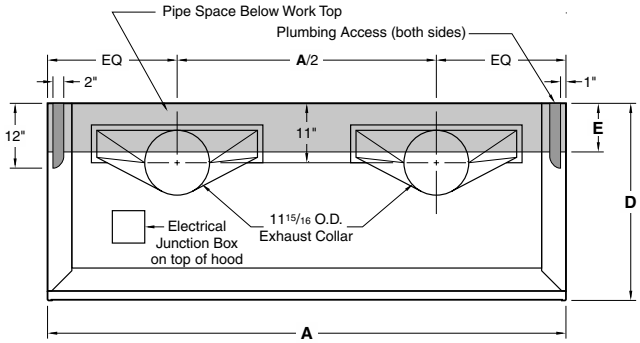
Face Velocity	28" High Sash Opening								18" High Sash Opening							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	790	0.40	1030	0.50	1270	0.60	1750	0.45	510	0.20	670	0.25	830	0.30	1150	0.20
80 FPM	630	0.25	820	0.35	1020	0.40	1400	0.30	410	0.15	540	0.15	670	0.20	920	0.15
60 FPM	470	0.15	620	0.20	760	0.25	1050	0.20	310	0.10	400	0.10	500	0.10	690	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

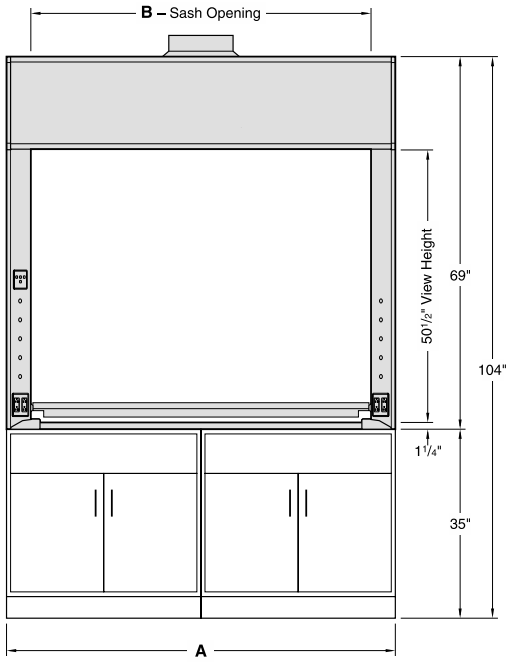
Inside Depth	ANSI Z9.5 Minimum Flow Rate							
	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	100 CFM	120 CFM	150 CFM	210 CFM	230 CFM	300 CFM	370 CFM	510 CFM
30" deep	120 CFM	150 CFM	180 CFM	250 CFM	280 CFM	370 CFM	450 CFM	620 CFM
36" deep	140 CFM	180 CFM	220 CFM	300 CFM	330 CFM	430 CFM	530 CFM	740 CFM



4'-5'-6' Rough-in

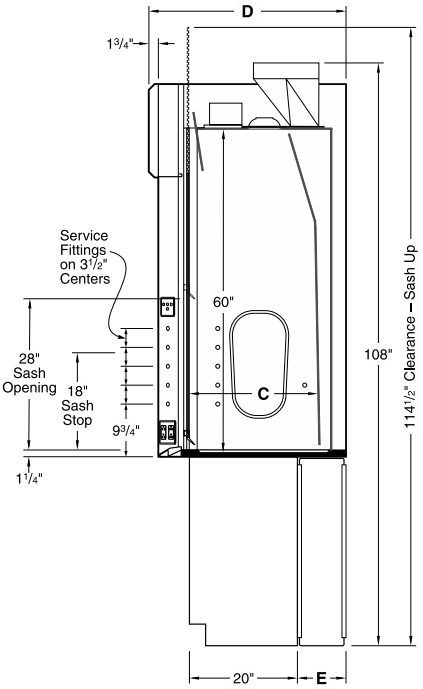


8' Rough-in



Elevation

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"



Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V25 – LX Series Bench Fume Hood

60" Interior Height with 35" High Vertical Rising Sash

Accessories Included:	
4	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	LED light fixture with illumination and color controller
1	Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
35 inches /889mm	**35**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Frameless	**N**
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame	Sash Glass	Fitting Holes	Electrical Fixture	Option Choices (separated by commas)
V25F 35	☐☐	☐☐	☐	☐	- ☐☐	, ☐☐	, ☐☐	- ☐☐, ☐☐, ...

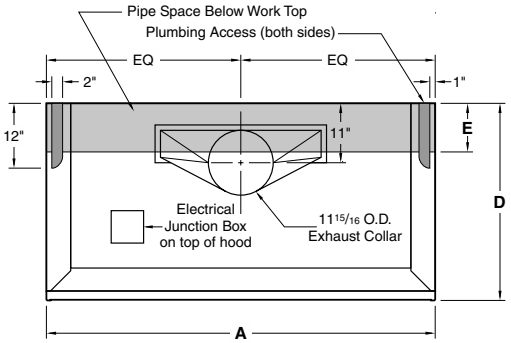
Technical Information V25

Airflow (CFM) Requirements

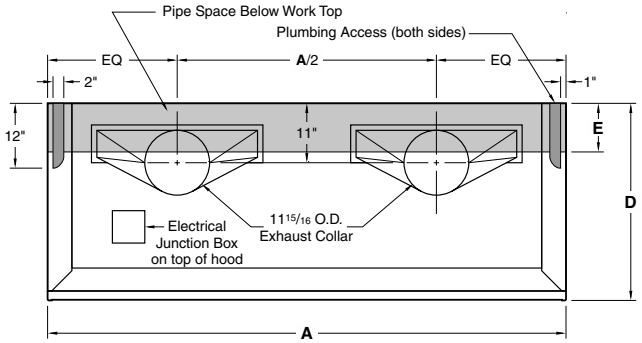
Face Velocity	35" High Sash Opening								18" High Sash Opening							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	980	0.60	1280	0.70	1580	0.90	2180	0.65	510	0.20	670	0.25	830	0.30	1150	0.20
80 FPM	780	0.40	1020	0.50	1260	0.60	1740	0.45	410	0.15	540	0.15	670	0.20	920	0.15
60 FPM	590	0.25	770	0.30	950	0.35	1310	0.25	310	0.10	400	0.10	500	0.10	690	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

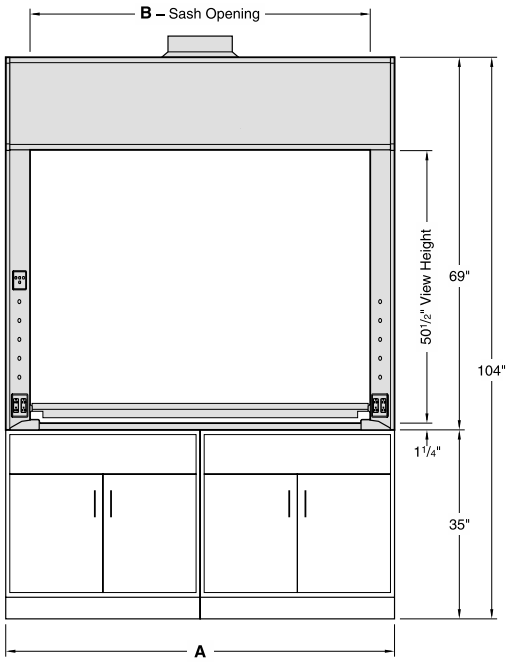
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	100 CFM	120 CFM	150 CFM	210 CFM	230 CFM	300 CFM	370 CFM	510 CFM
30" deep	120 CFM	150 CFM	180 CFM	250 CFM	280 CFM	370 CFM	450 CFM	620 CFM
36" deep	140 CFM	180 CFM	220 CFM	300 CFM	330 CFM	430 CFM	530 CFM	740 CFM



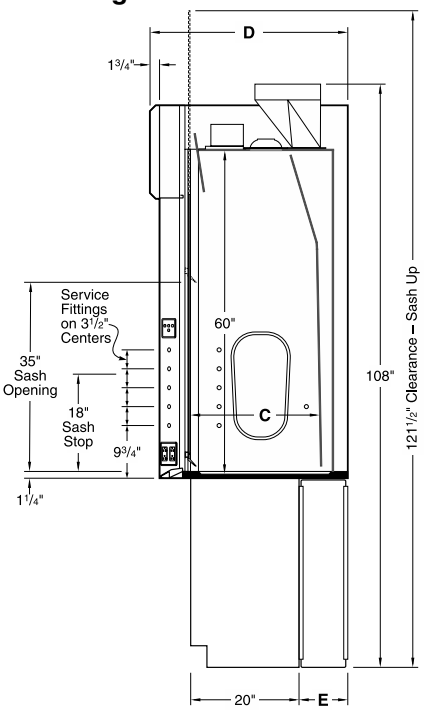
4'-5'-6' Rough-in



8' Rough-in



Elevation



Vertical Section

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V26 – LX Series Bench Fume Hood

60" Interior Height with 28" High Combination Sash

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

1 LED light fixture with illumination and color controller

1 Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame	Sash Glass	Fitting Holes	Electrical Fixture	Option Choices (separated by commas)
V26F 28					-	,	-	, ...

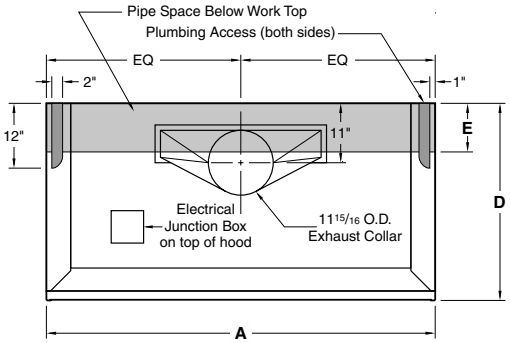
Technical Information V26

Airflow (CFM) Requirements

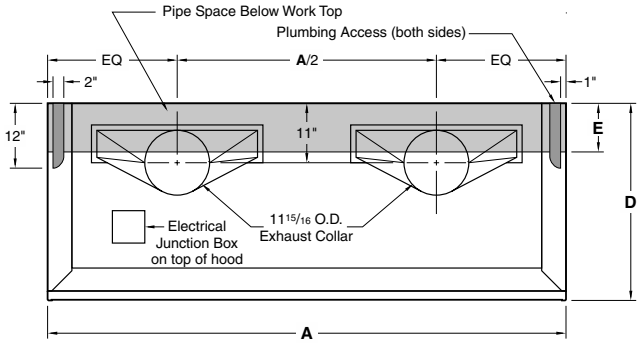
Face Velocity	18" High Sash Opening								Sash Closed – Panels Full Open							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	500	0.20	660	0.25	810	0.30	1120	0.20	460	0.15	600	0.20	750	0.25	1030	0.20
80 FPM	400	0.15	540	0.15	650	0.20	920	0.15	370	0.10	480	0.15	600	0.15	830	0.15
60 FPM	300	0.10	410	0.10	490	0.10	690	0.10	280	0.05	360	0.10	450	0.10	620	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

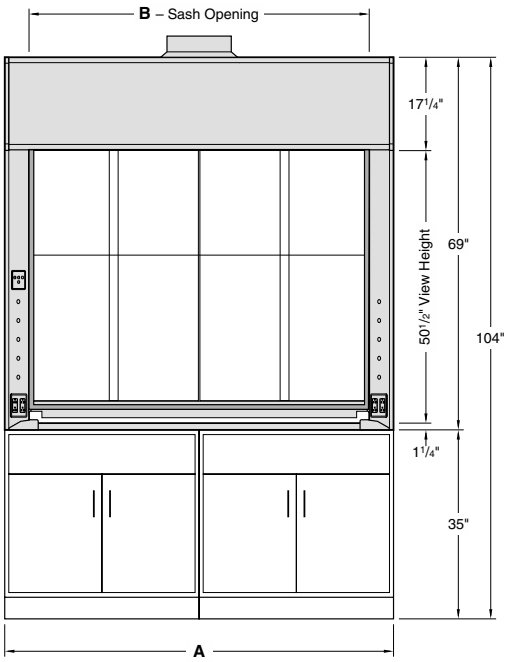
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	100 CFM	120 CFM	150 CFM	210 CFM	230 CFM	300 CFM	370 CFM	510 CFM
30" deep	120 CFM	150 CFM	180 CFM	250 CFM	280 CFM	370 CFM	450 CFM	620 CFM
36" deep	140 CFM	180 CFM	220 CFM	300 CFM	330 CFM	430 CFM	530 CFM	740 CFM



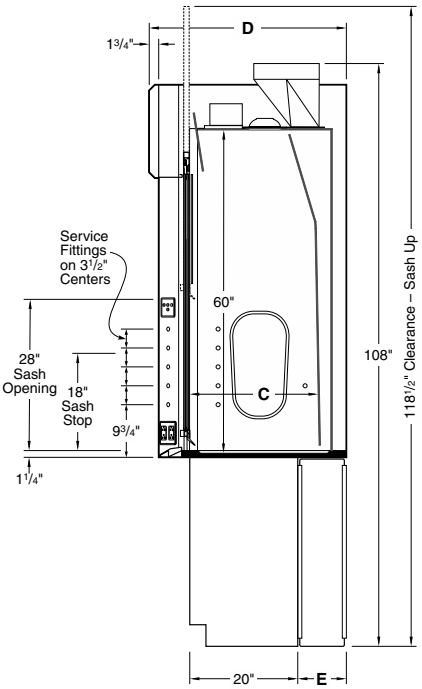
4'-5'-6' Rough-in



8' Rough-in



Elevation



Vertical Section

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V26 – LX Series Bench Fume Hood

60" Interior Height with 35" High Combination Sash

Accessories Included:	
4	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	LED light fixture with illumination and color controller
1	Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
35 inches / 889mm	**35**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame	Sash Glass	Fitting Holes	Electrical Fixture	Option Choices (separated by commas)
V26F 35	☐☐	☐☐	☐	☐	- ☐☐	, ☐☐	, ☐☐	- ☐☐ , ☐☐ , ...

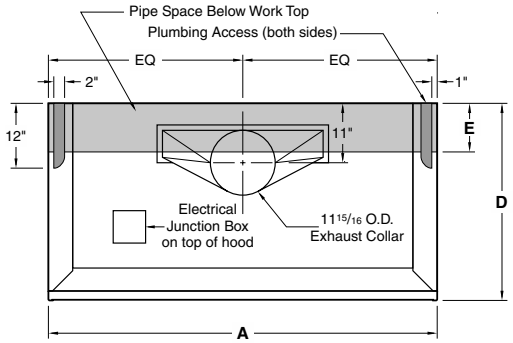
Technical Information V26

Airflow (CFM) Requirements

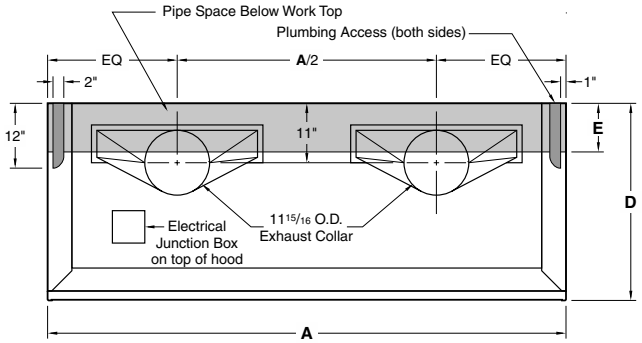
Face Velocity	18" High Sash Opening								Sash Closed – Panels Full Open							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	500	0.20	660	0.25	810	0.30	1120	0.20	550	0.20	720	0.25	900	0.30	1240	0.20
80 FPM	400	0.15	520	0.15	650	0.20	890	0.15	440	0.15	580	0.15	720	0.20	990	0.15
60 FPM	300	0.10	390	0.10	490	0.10	670	0.10	330	0.10	440	0.10	540	0.15	750	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

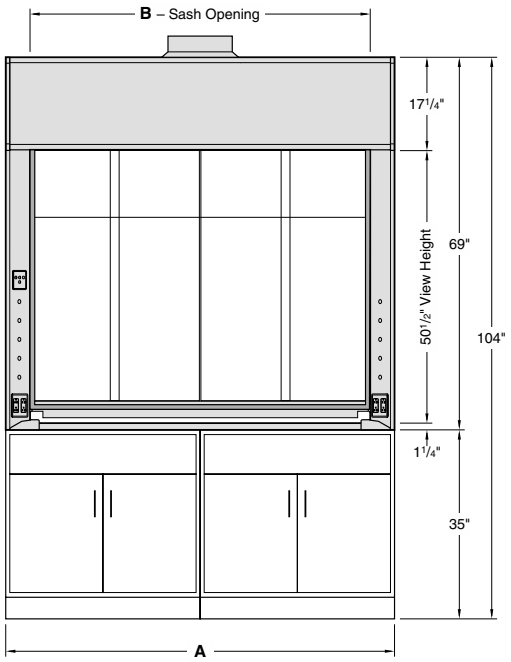
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	100 CFM	120 CFM	150 CFM	210 CFM	230 CFM	300 CFM	370 CFM	510 CFM
30" deep	120 CFM	150 CFM	180 CFM	250 CFM	280 CFM	370 CFM	450 CFM	620 CFM
36" deep	140 CFM	180 CFM	220 CFM	300 CFM	330 CFM	430 CFM	530 CFM	740 CFM



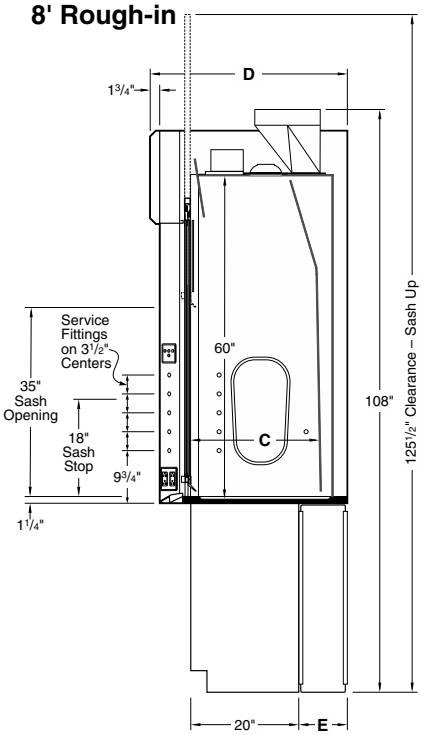
4'-5'-6' Rough-in



8' Rough-in



Elevation



Vertical Section

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V30 – LX Series Bench Fume Hood

60" Interior Height with 28" High Split Vertical Rising Sash

Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

2 LED light fixture with illumination and color controller

2 Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
96 inches / 2438mm	**96**
120 inches / 3048mm	**20**
144 inches / 3658mm	**44**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)				
V30F	**2 8**	☐☐	☐☐	☐	☐	-	☐☐	,	☐☐	,	☐☐	-	☐☐	,	☐☐	,	...

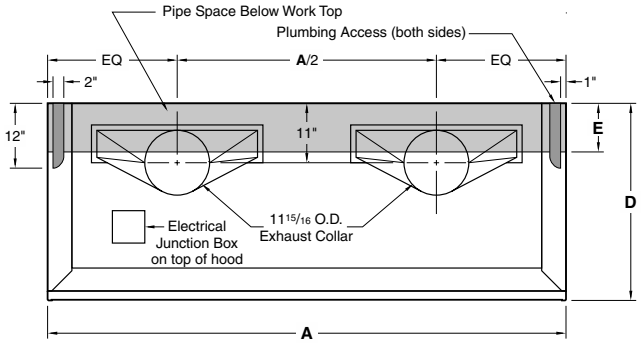
Technical Information V30

Airflow (CFM) Requirements

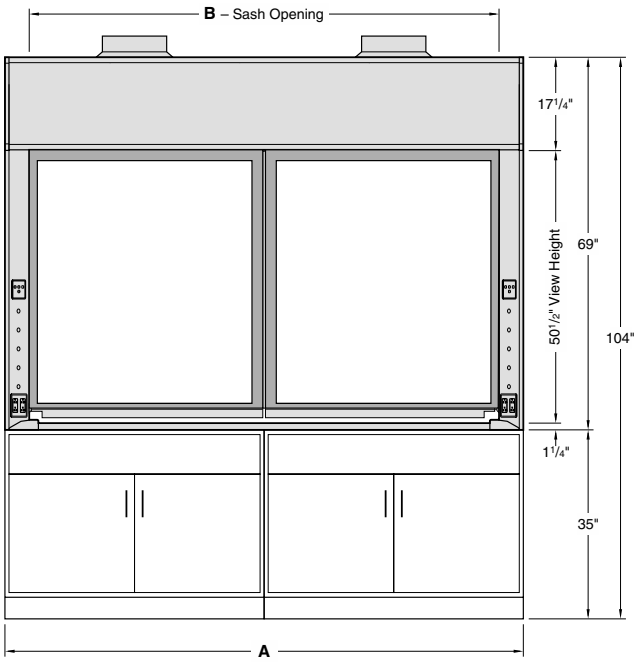
Face Velocity	28" High Sash Opening						18" High Sash Opening					
	8'-0" / 96"		10'-0" / 120"		12'-0" / 144"		8'-0" / 96"		10'-0" / 120"		12'-0" / 144"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	1750	0.45	2240	0.55	2720	0.65	1150	0.20	1460	0.25	1780	0.30
80 FPM	1400	0.30	1790	0.35	2180	0.45	920	0.15	1170	0.15	1430	0.25
60 FPM	1050	0.20	1340	0.25	1630	0.30	690	0.10	880	0.10	1070	0.15

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

ANSI Z9.5 Minimum Flow Rate						
Inside Depth	150 Air Changes/Hour			375 Air Changes/Hour		
	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"	8'-0" / 96"	10'-0" / 120"	12'-0" /144"
24" deep	210 CFM	260 CFM	320 CFM	510 CFM	650 CFM	790 CFM
30" deep	250 CFM	320 CFM	390 CFM	620 CFM	790 CFM	960 CFM
36" deep	300 CFM	380 CFM	460 CFM	740 CFM	940 CFM	1140 CFM

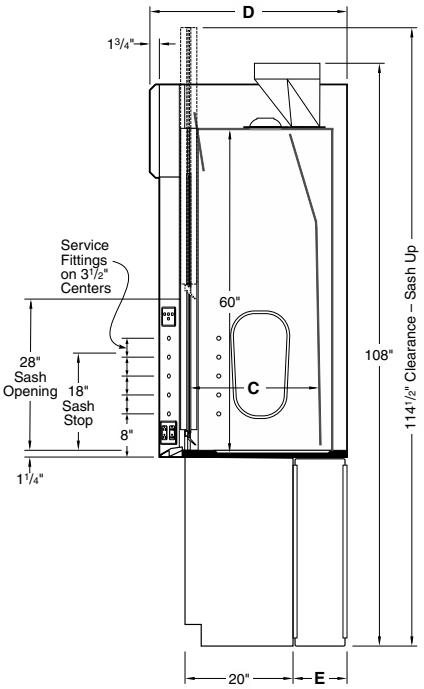


8'-10'-12' Rough-in



Elevation

Dimensions – Length			
A	96"	120"	144"
B	39"	111"	135"



Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V30 – LX Series Bench Fume Hood

60" Interior Height with 35" High Split Vertical Rising Sash

Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

2 LED light fixture with illumination and color controller

2 Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
35 inches /889mm	**35**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
96 inches / 2438mm	**96**
120 inches / 3048mm	**20**
144 inches / 3658mm	**44**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)				
V30F	**35**					**-**		**,**		**,**		**-**		**,**		**, ...**	

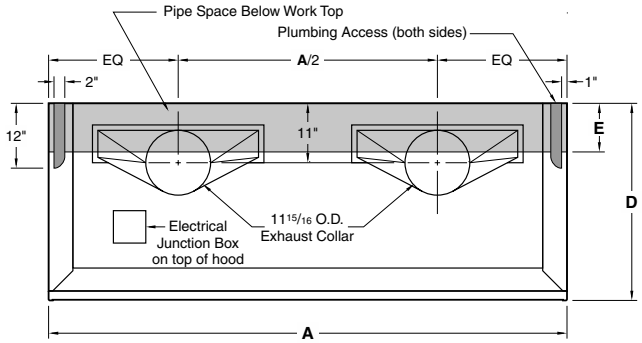
Technical Information V30

Airflow (CFM) Requirements

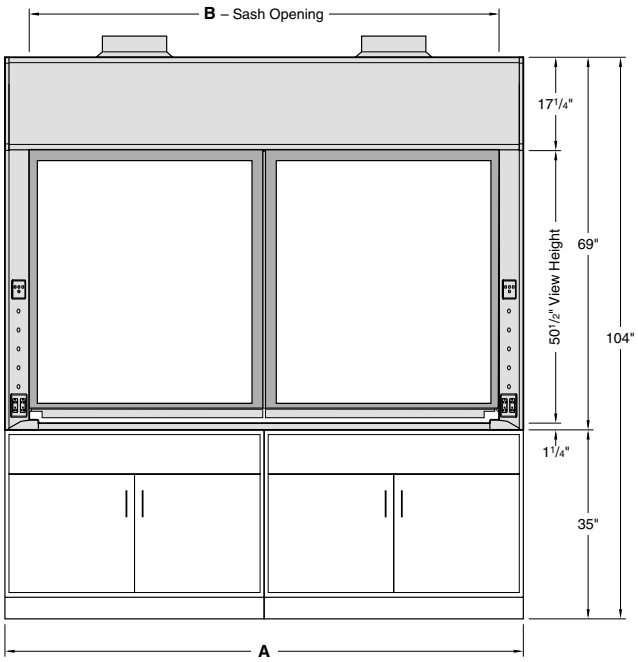
Face Velocity	35" High Sash Opening						18" High Sash Opening					
	8'-0" / 96"		10'-0" / 120"		12'-0" / 144"		8'-0" / 96"		10'-0" / 120"		12'-0" / 144"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	2180	0.65	2780	0.80	3380	1.00	1150	0.20	1460	0.25	1780	0.30
80 FPM	1740	0.45	2220	0.55	2700	0.65	920	0.15	1170	0.15	1430	0.25
60 FPM	1310	0.25	1670	0.35	2030	0.40	690	0.10	880	0.10	1070	0.15

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

Inside Depth	ANSI Z9.5 Minimum Flow Rate					
	150 Air Changes/Hour			375 Air Changes/Hour		
	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"	8'-0" / 96"	10'-0" / 120"	12'-0" /144"
24" deep	210 CFM	260 CFM	320 CFM	510 CFM	650 CFM	790 CFM
30" deep	250 CFM	320 CFM	390 CFM	620 CFM	790 CFM	960 CFM
36" deep	300 CFM	380 CFM	460 CFM	740 CFM	940 CFM	1140 CFM

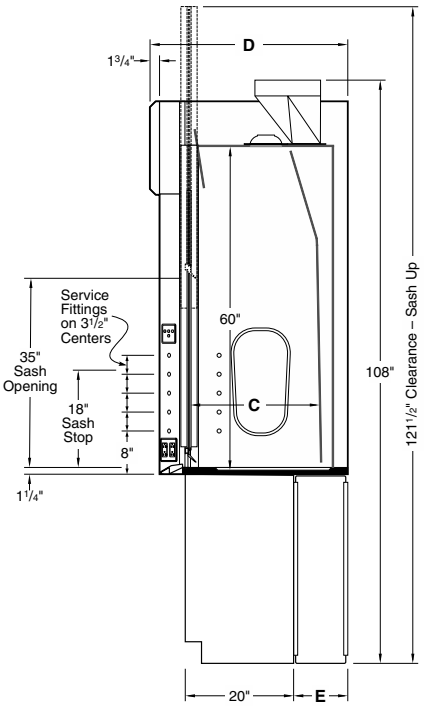


8'-10'-12' Rough-in



Elevation

Dimensions – Length			
A	96"	120"	144"
B	39"	111"	135"



Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V36 – LX Series Bench Fume Hood

60" Interior Height with 28" High Split Combination Sash

Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

2 LED light fixture with illumination and color controller

2 Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 7119mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
96 inches / 2438mm	**96**
120 inches / 3048mm	**20**
144 inches / 3658mm	**44**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)				
V36F	**28**	☐☐	☐☐	☐	☐	**-**	☐☐	**,**	☐☐	**,**	☐☐	**-**	☐☐	**,**	☐☐	**, ...**	

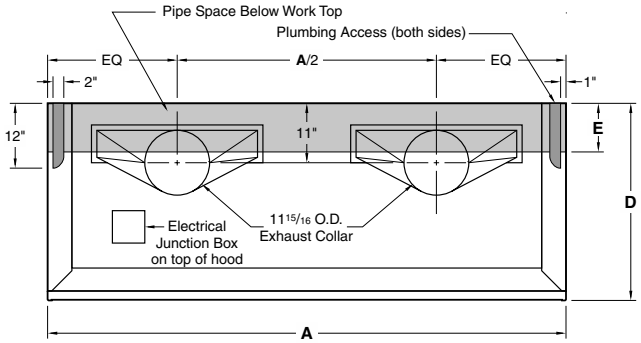
Technical Information V36

Airflow (CFM) Requirements

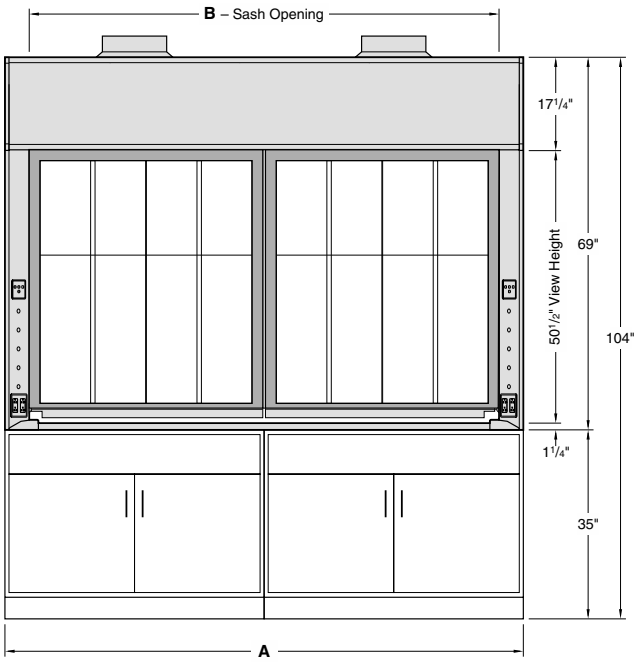
Face Velocity	18" High Sash Opening						Sash Closed – Panel Full Oen					
	8'-0" / 96"		10'-0" / 120"		12'-0" / 144"		8'-0" / 96"		10'-0" / 120"		12'-0" / 144"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	1120	0.20	1430	0.25	1740	0.30	930	0.15	1220	0.20	1500	0.25
80 FPM	890	0.15	1140	0.15	1390	0.25	750	0.10	970	0.15	1200	0.15
60 FPM	670	0.10	860	0.10	1040	0.15	560	0.05	730	0.10	900	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

ANSI Z9.5 Minimum Flow Rate						
Inside Depth	150 Air Changes/Hour			375 Air Changes/Hour		
	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"	8'-0" / 96"	10'-0" / 120"	12'-0" /144"
24" deep	210 CFM	260 CFM	320 CFM	510 CFM	650 CFM	790 CFM
30" deep	250 CFM	320 CFM	390 CFM	620 CFM	790 CFM	960 CFM
36" deep	300 CFM	380 CFM	460 CFM	740 CFM	940 CFM	1140 CFM

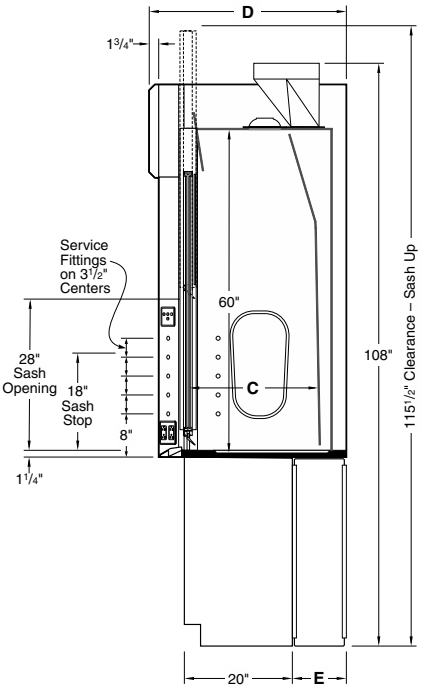


8'-10'-12' Rough-in



Elevation

Dimensions – Length			
A	96"	120"	144"
B	39"	111"	135"



Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V36 – LX Series Bench Fume Hood

60" Interior Height with 35" High Split Combination Sash

Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

2 LED light fixture with illumination and color controller

2 Electromechanical sash stop with push button override

Available Sizes:	part no. code
Sash Opening Height:	
35 inches / 889mm	**35**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
96 inches / 2438mm	**96**
120 inches / 3048mm	**20**
144 inches / 3658mm	**44**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)				
V36F	**3 5**	☐☐	☐☐	☐	☐	-	☐☐	,	☐☐	,	☐☐	-	☐☐	,	☐☐	,	...

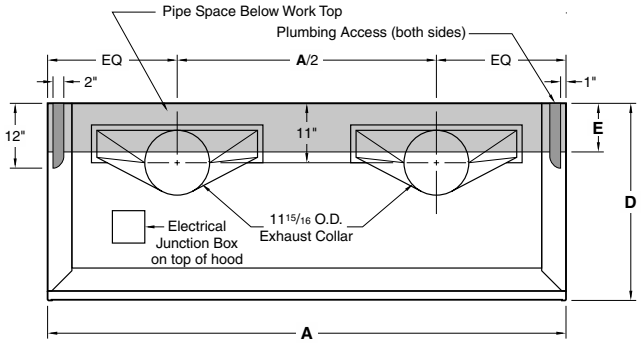
Technical Information V36

Airflow (CFM) Requirements

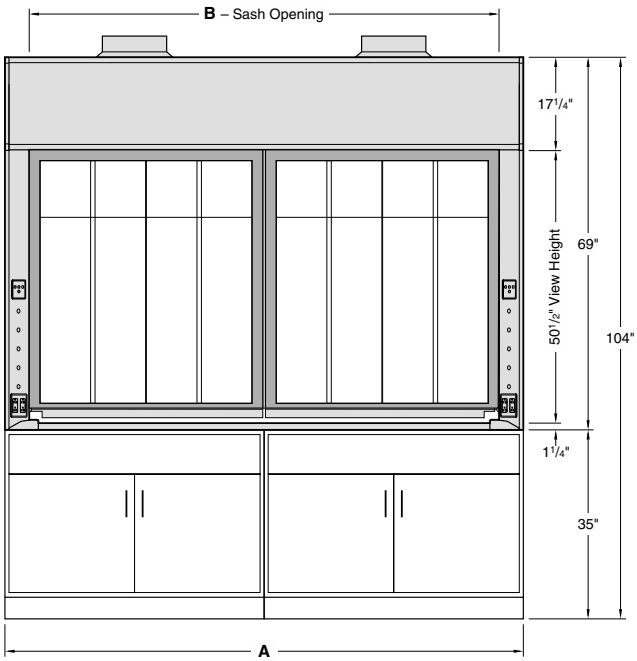
Face Velocity	18" High Sash Opening						Sash Closed – Panels Full Open					
	8'-0" / 96"		10'-0" / 120"		12'-0" / 144"		8'-0" / 96"		10'-0" / 120"		12'-0" / 144"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
100 FPM	1120	0.20	1430	0.25	1740	0.30	930	0.15	1220	0.20	1500	0.25
80 FPM	890	0.15	1140	0.15	1390	0.25	750	0.10	970	0.15	1200	0.15
60 FPM	670	0.10	860	0.10	1040	0.15	560	0.05	730	0.10	900	0.10

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

ANSI Z9.5 Minimum Flow Rate						
Inside Depth	150 Air Changes/Hour			375 Air Changes/Hour		
	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"	8'-0" / 96"	10'-0" / 120"	12'-0" /144"
24" deep	210 CFM	260 CFM	320 CFM	510 CFM	650 CFM	790 CFM
30" deep	250 CFM	320 CFM	390 CFM	620 CFM	790 CFM	960 CFM
36" deep	300 CFM	380 CFM	460 CFM	740 CFM	940 CFM	1140 CFM

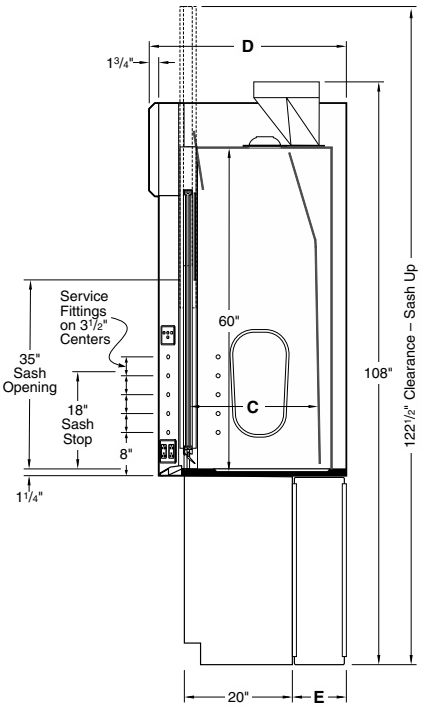


8'-10'-12' Rough-in



Elevation

Dimensions – Length			
A	96"	120"	144"
B	39"	111"	135"



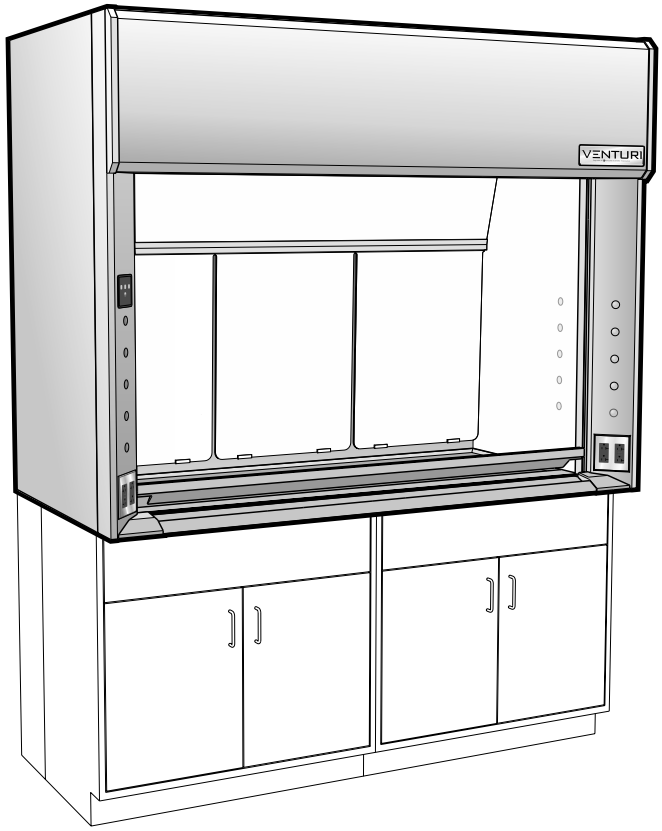
Vertical Section

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

V40 – Isotope Bench Fume Hood

with Vertical Rising Sash



Accessories Included:

4 120 VAC 20 amp GFCI* protected duplex receptacles
** when wired to a single circuit, as standard with Option U*

1 LED light fixture with illumination and color controller

1 Electromechanical sash stop with push button override.

1 Reinforced stainless steel work top seamlessly coved welded to side and back liners.

1 5" diameter stainless steel cupsink welded into left rear corner of work top.

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Type 304L Stainless Steel 1805 UL Classified	**S**

Available Sash Frames:	part no. code
Frameless	**N**
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly

Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)				
V40F	**2**	**8**	**2**	**4**			**S**		**-**			**,**	**G**	**3**	**,**		**-**			**,**			**, ...**

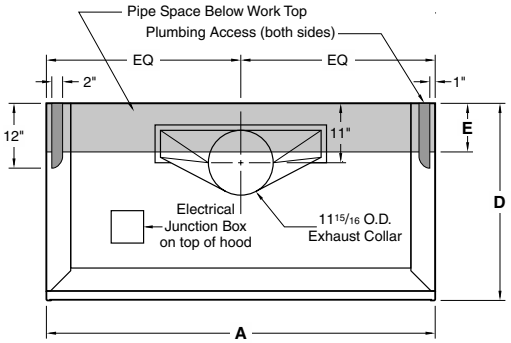
Technical Information V40

Airflow (CFM) Requirements

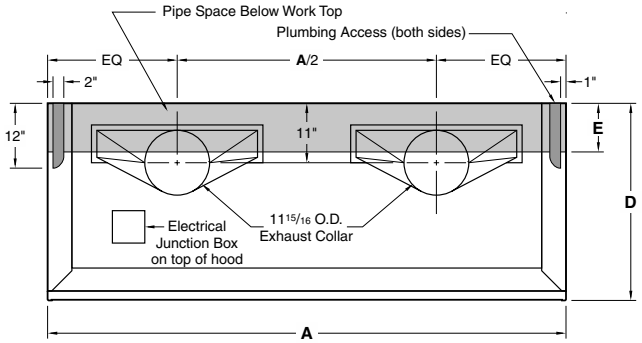
Face Velocity	28" High Sash Opening								18" High Sash Opening							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
120 FPM	950	0.50	1240	0.65	1530	0.80	2110	0.55	620	0.25	810	0.30	1000	0.35	1380	0.25
100 FPM	790	0.40	1030	0.50	1270	0.60	1750	0.45	510	0.20	670	0.25	830	0.30	1150	0.20
80 FPM	not recommended		not recommended		not recommended		not recommended		not recommended		not recommended		not recommended		not recommended	

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

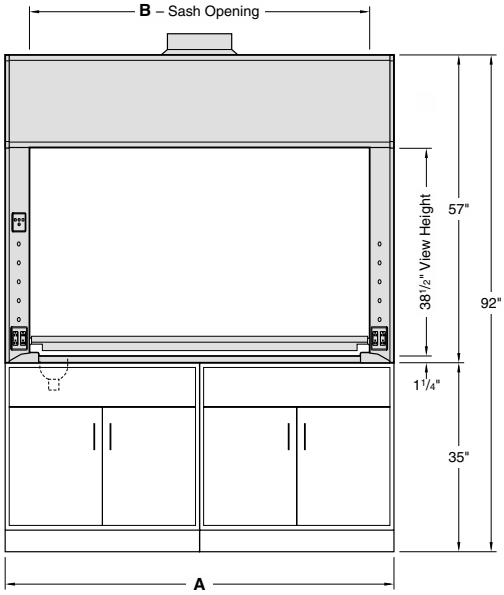
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	80 CFM	100 CFM	120 CFM	170 CFM	190 CFM	240 CFM	300 CFM	410 CFM



4'-5'-6' Rough-in

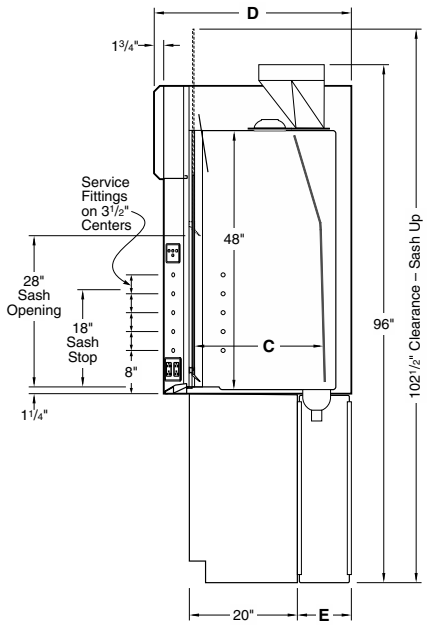


8' Rough-in



Elevation

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"



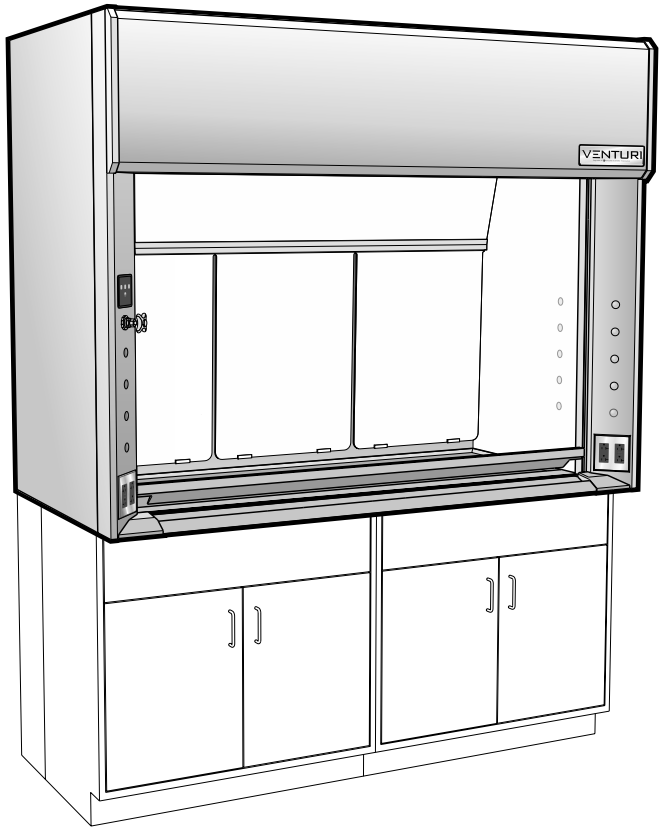
Vertical Section

Dimensions – Depth	
C	24"
D	36 1/2"
E	9"

KEWAUNEE® Scientific Corporation

V45 – Perchloric Acid Bench Fume Hood

with Vertical Rising Sash



Accessories Included:

3	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	Vapor proof light fixture with 120 VAC, 20 amp light switch
1	Electromechanical sash stop with push button override
1	Stainless steel work top with integral drain trough in rear.
1	Washdown fitting with hood interior washdown spray.

Available Sizes:	part no. code
Sash Opening Height:	
28 inches / 711mm	**28**
Inside Depth:	
24 inches / 610mm	**24**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Type 316L Stainless Steel 1805 UL Classified	**L**

Available Sash Frames:	part no. code
Frameless	**N**
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly

Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 66

Note: Acid storage and vacuum pump storage cabinets can not be vented through perchloric acid fume hood work tops.

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)				
V45F	28	24		L		-		,	G3	,		-		,		, ...

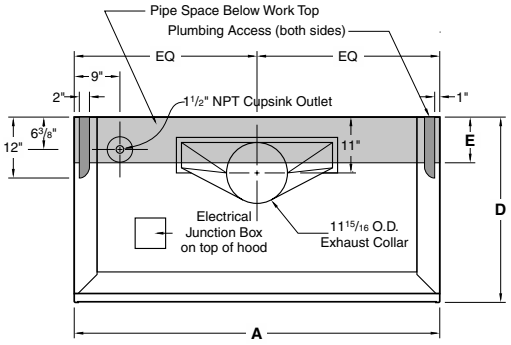
Technical Information V45

Airflow (CFM) Requirements

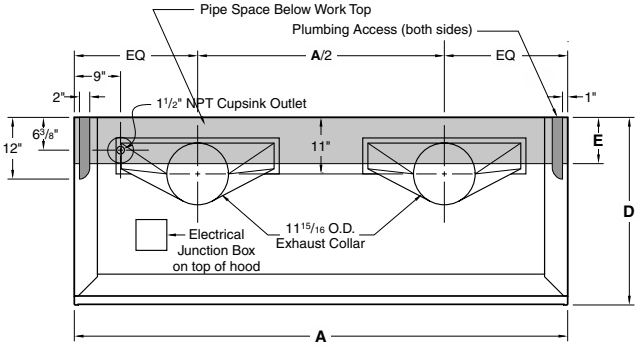
Face Velocity	28" High Sash Opening								18" High Sash Opening							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
120 FPM	950	0.50	1240	0.65	1530	0.80	2110	0.55	620	0.25	810	0.30	1000	0.35	1380	0.25
100 FPM	790	0.40	1030	0.50	1270	0.60	1750	0.45	510	0.20	670	0.25	830	0.30	1150	0.20
80 FPM	not recommended		not recommended		not recommended		not recommended		not recommended		not recommended		not recommended		not recommended	

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

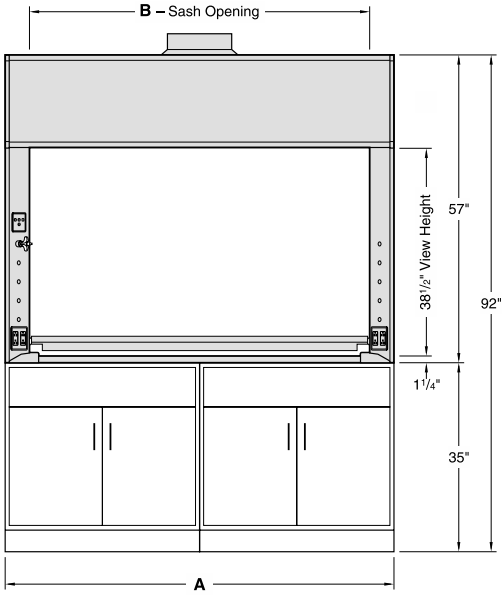
Inside Depth	ANSI Z9.5 Minimum Flow Rate							
	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	80 CFM	100 CFM	120 CFM	170 CFM	190 CFM	240 CFM	300 CFM	410 CFM



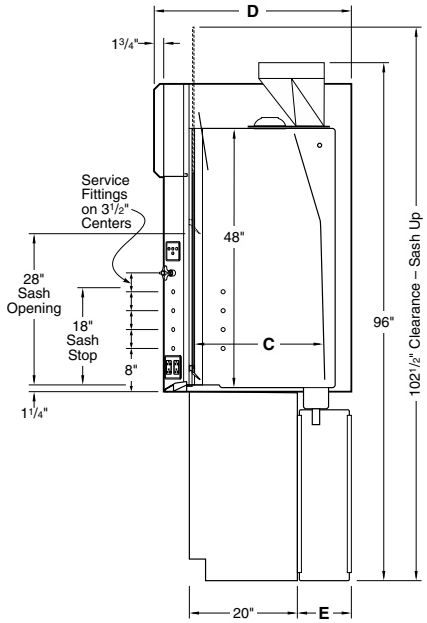
4'-5'-6' Rough-in



8' Rough-in



Elevation



Vertical Section

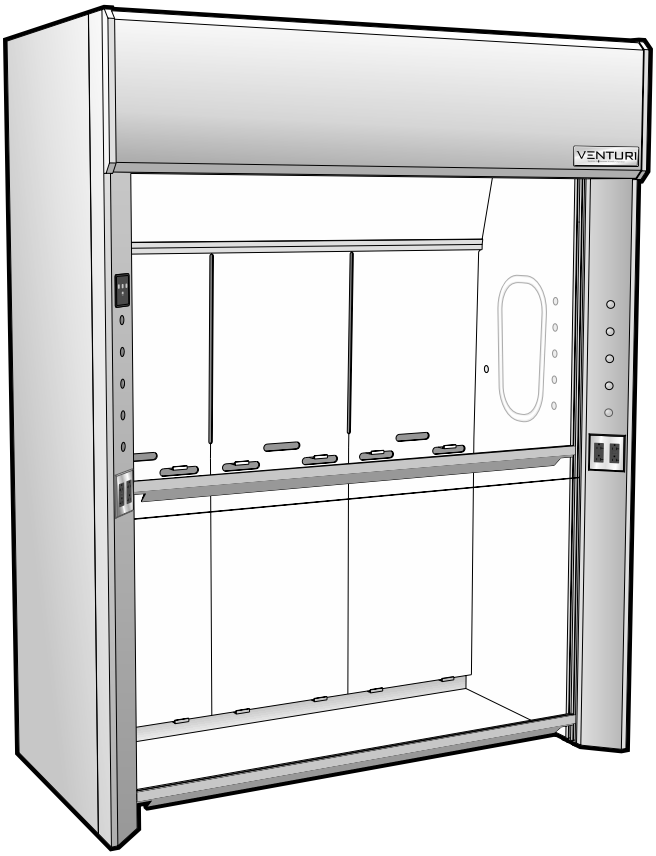
Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"

Dimensions – Depth	
C	24"
D	36½"
E	9"

KEWAUNEE® Scientific Corporation

V65 – Floor Mounted Fume Hood

with Vertical Rising Sash



Accessories Included:	
4	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	LED light fixture with illumination and color controller
1	Mechanical sash stop

Available Sizes:	part no. code
Sash Opening Height:	
64 1/4 inches / 1632mm	**64**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
48 inches / 1219mm	**48**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Frameless	**N**
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Floor & Shelf	see page 58
Ceiling Enclosure	see page 61
Service Fittings	see page 62

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame	Sash Glass	Fitting Holes	Electrical Fixture	Option Choices (separated by commas)
V65F 64	☐☐	☐☐	☐	☐	- ☐☐,	☐☐,	☐☐	- ☐☐, ☐☐, ...

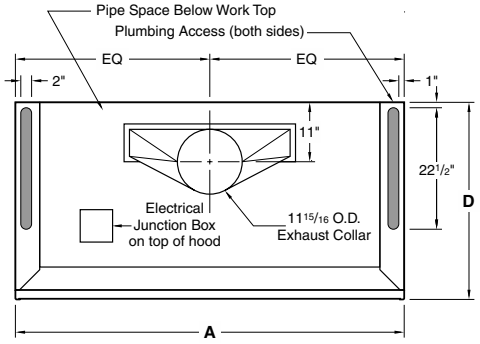
Technical Information V65

Airflow (CFM) Requirements

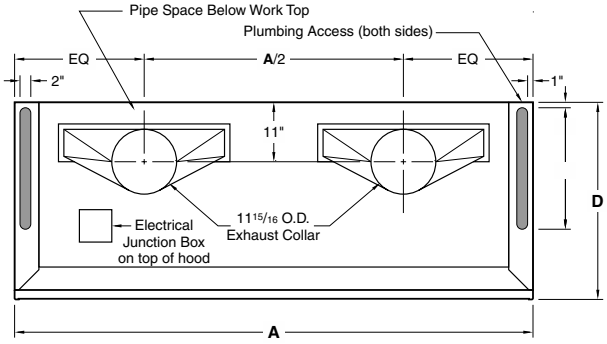
Face Velocity	28" High Sash Opening								18" High Sash Opening							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
120 FPM	980	0.55	1280	0.70	1580	0.90	2180	0.70	660	0.25	850	0.35	1050	0.40	1450	0.30
100 FPM	820	0.40	1070	0.55	1330	0.65	1830	0.45	550	0.20	720	0.25	890	0.30	1230	0.20
80 FPM	660	0.30	860	0.35	1060	0.45	1460	0.30	440	0.15	580	0.20	710	0.20	980	0.15

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

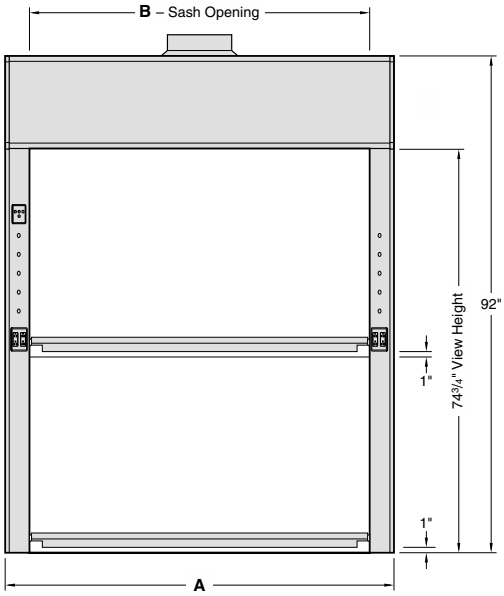
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	130 CFM	170 CFM	210 CFM	290 CFM	320 CFM	420 CFM	520 CFM	720 CFM
30" deep	160 CFM	210 CFM	260 CFM	350 CFM	390 CFM	510 CFM	630 CFM	870 CFM
36" deep	190 CFM	250 CFM	300 CFM	420 CFM	470 CFM	610 CFM	750 CFM	1030 CFM
48" deep	250 CFM	320 CFM	390 CFM	540 CFM	610 CFM	790 CFM	980 CFM	1350 CFM



4'-5'-6' Rough-in

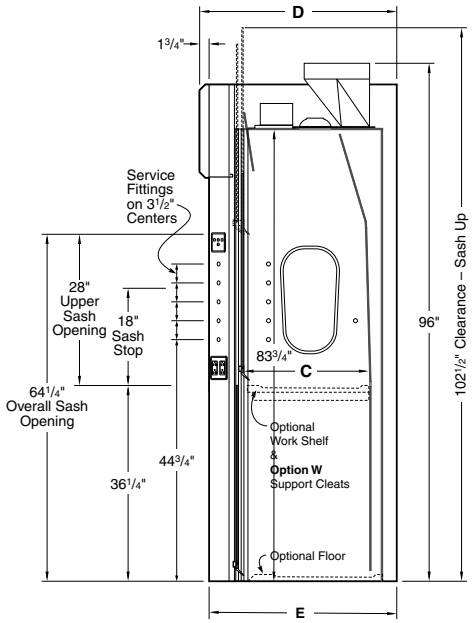


8' Rough-in



Elevation

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"



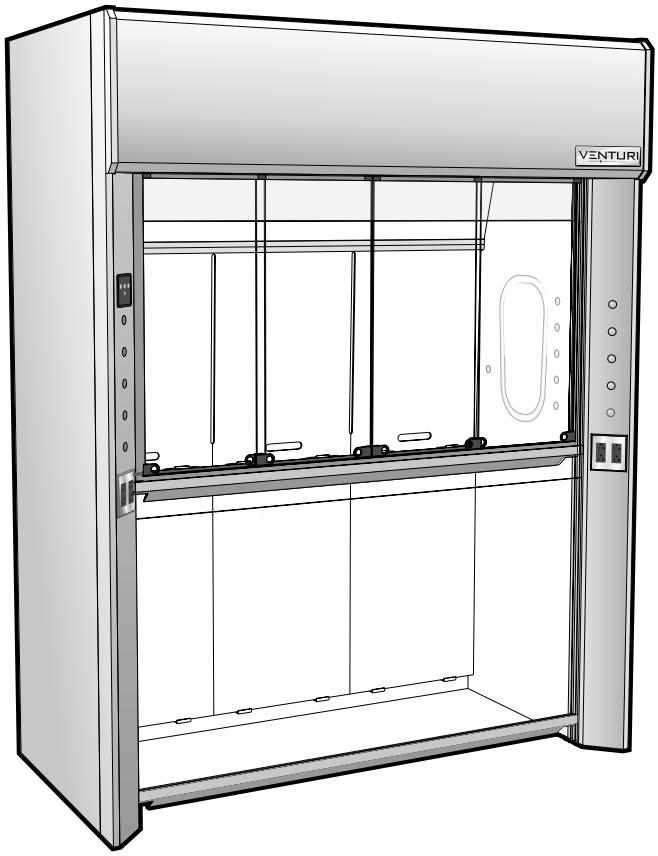
Vertical Section

Dimensions – Depth				
C	24"	30"	36"	48"
D	36½"	42½"	48½"	60½"
E	34¾"	40¾"	46¾"	58¾"

KEWAUNEE® Scientific Corporation

V66 – Floor Mounted Fume Hood

with Combination Vertical Rising/Horizontal Sash



Accessories Included:	
4	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	LED light fixture with illumination and color controller
1	Mechanical sash stop

Available Sizes:	part no. code
Sash Opening Height:	
64 1/4 inches / 1632mm	**64**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
48 inches / 1219mm	**48**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Floor & Shelf	see page 58
Ceiling Enclosure	see page 61
Service Fittings	see page 62

Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame	Sash Glass	Fitting Holes	Electrical Fixture	Option Choices (separated by commas)
V66F 64					-	,	-	, ...

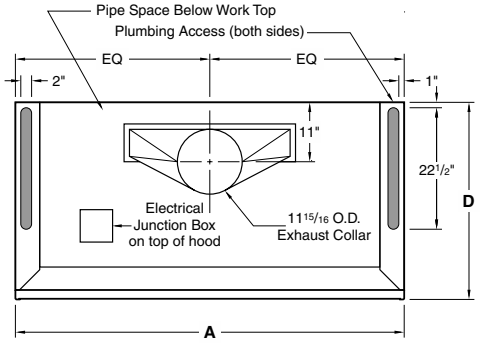
Technical Information V66

Airflow (CFM) Requirements

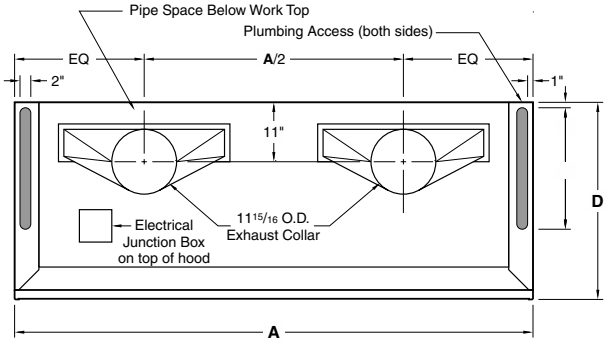
Face Velocity	18" High Sash Opening								Sash Closed – Panels Full Open							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
120 FPM	630	0.25	830	0.30	1020	0.40	1410	0.30	580	0.20	760	0.25	940	0.35	1300	0.25
100 FPM	540	0.20	710	0.25	880	0.30	1210	0.20	500	0.15	660	0.20	810	0.25	1120	0.20
80 FPM	430	0.15	570	0.20	700	0.20	970	0.15	400	0.10	530	0.15	650	0.20	900	0.15

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

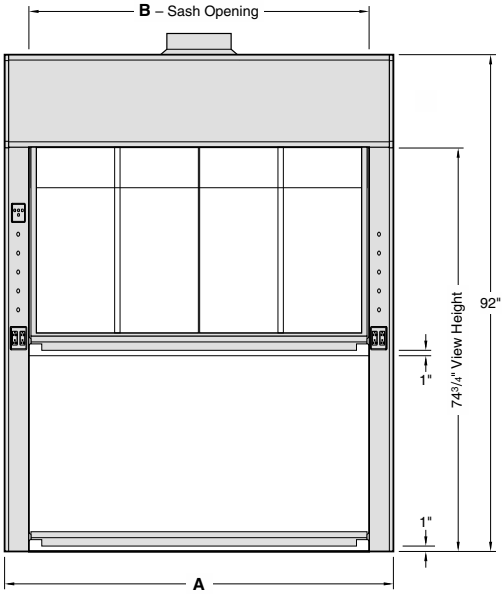
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	130 CFM	170 CFM	210 CFM	290 CFM	320 CFM	420 CFM	520 CFM	720 CFM
30" deep	160 CFM	210 CFM	260 CFM	350 CFM	390 CFM	510 CFM	630 CFM	870 CFM
36" deep	190 CFM	250 CFM	300 CFM	420 CFM	470 CFM	610 CFM	750 CFM	1030 CFM
48" deep	250 CFM	320 CFM	390 CFM	540 CFM	610 CFM	790 CFM	980 CFM	1350 CFM



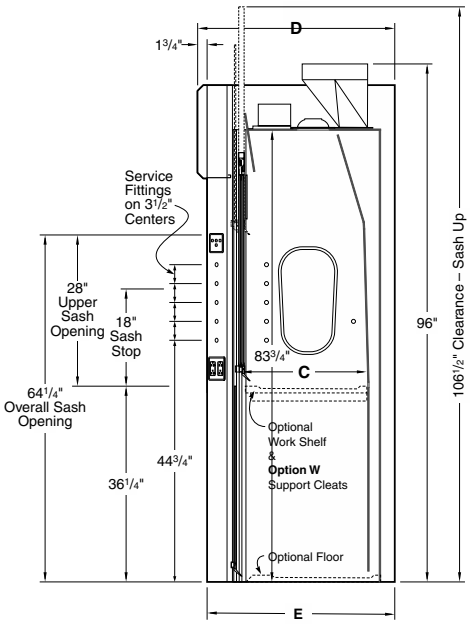
4'-5'-6' Rough-in



8' Rough-in



Elevation



Vertical Section

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"

Dimensions – Depth				
C	24"	30"	36"	48"
D	36½"	42½"	48½"	60½"
E	34¾"	40¾"	46¾"	58¾"

KEWAUNEE® Scientific Corporation

V67 – Floor Mounted Fume Hood

with Horizontal Sash

Accessories Included:	
4	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	LED light fixture with illumination and color controller

Available Sizes:	part no. code
Sash Opening Height:	
68 inches / 1727mm	**68**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
48 inches / 1219mm	**48**
Overall Length:	
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**
120 inches / 3040mm	**20**
144 inches / 3658mm	**44**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Floor & Shelf	see page 58
Ceiling Enclosure	see page 61
Service Fittings	see page 62

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)			
V67F	**6 8**	☐☐	☐☐	☐	☐	**-**	☐☐	**,**	☐☐	**,**	☐☐	**-**	☐☐	**,**	☐☐	**, ...**

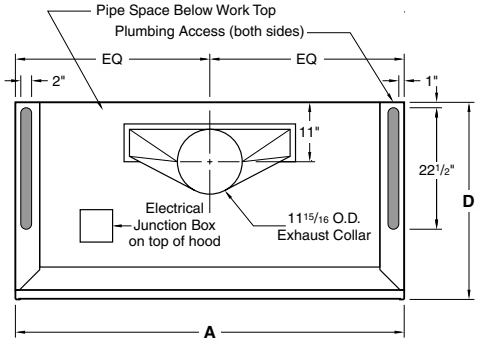
Technical Information V67

Airflow (CFM) Requirements

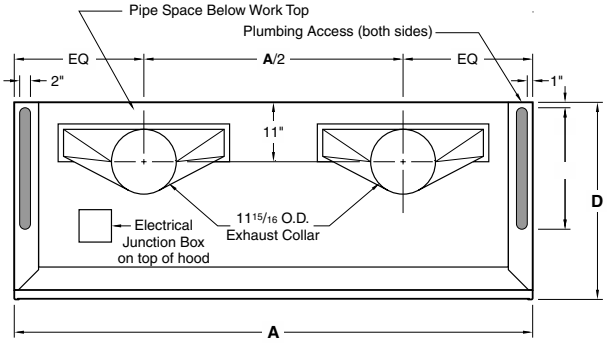
Face Velocity	Panels Fully Open							
	6'-0" / 72"		8'-0" / 96"		10'-0" / 120"		12'-0" / 144"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP
120 FPM	2680	1.35	3690	1.65	4710	2.05	5720	2.50
100 FPM	2230	1.65	3080	1.15	3920	1.45	4770	1.80
80 FPM	1790	1.10	2460	0.75	3170	0.95	3820	1.20

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

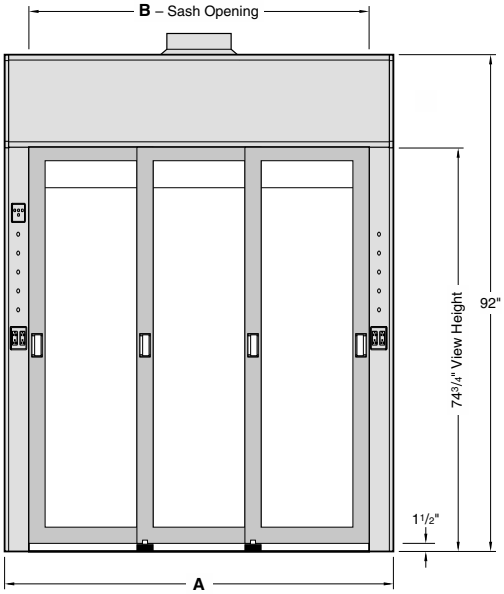
ANSI Z9.5 Minimum Flow Rate								
Inside Depth	150 Air Changes/Hour				375 Air Changes/Hour			
	6'-0" / 72"	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"	6'-0" / 72"	8'-0" / 96"	10'-0" / 120"	12'-0" / 144"
24" deep	210 CFM	290 CFM	370 CFM	450 CFM	520 CFM	720 CFM	910 CFM	1110 CFM
30" deep	260 CFM	350 CFM	450 CFM	540 CFM	630 CFM	870 CFM	1110 CFM	1350 CFM
36" deep	300 CFM	420 CFM	530 CFM	640 CFM	750 CFM	1030 CFM	1320 CFM	1600 CFM
48" deep	390 CFM	540 CFM	690 CFM	840 CFM	980 CFM	1350 CFM	1720 CFM	2090 CFM



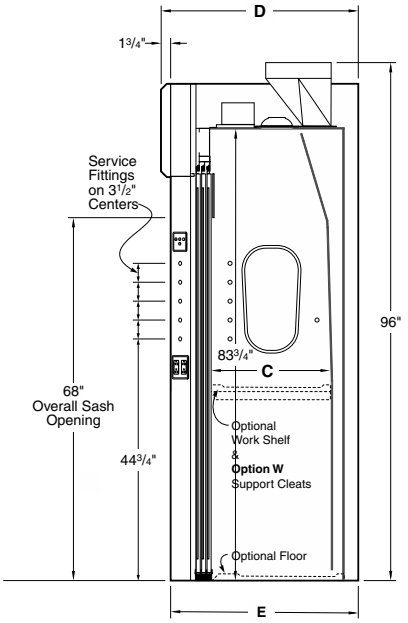
6' Rough-in



8'-10'-12' Rough-in



Elevation



Vertical Section

Dimensions – Length				
A	72"	96"	120"	144"
B	63"	87"	111"	135"

Dimensions – Depth				
C	24"	30"	36"	48"
D	36½"	42½"	48½"	60½"
E	34¾"	40¾"	46¾"	58¾"

KEWAUNEE® Scientific Corporation

V90 – Distillation Fume Hood

with Vertical Rising Sash

Accessories Included:	
4	120 VAC 20 amp GFCI* protected duplex receptacles ** when wired to a single circuit, as standard with Option U*
1	LED light fixture with illumination and color controller
1	Mechanical sash stop

Available Sizes:	part no. code
Full Sash Opening Height:	
63 inches / 16001mm	**63**
Inside Depth:	
24 inches / 610mm	**24**
30 inches / 762mm	**30**
36 inches / 914mm	**36**
Overall Length:	
48 inches / 1219mm	**48**
60 inches / 1524mm	**60**
72 inches / 1829mm	**72**
96 inches / 2438mm	**96**

Available Liner Types:	part no. code
Kemglass Fiberglass reinforced polyester 1805 UL classified	**G**
KMER Kewaunee Modified Epoxy Resin	**K**
Type 316L Stainless Steel 1805 UL classified	**L**
Type 304L Stainless Steel 1805 UL classified	**S**
Phenolic Resin	**T**

Available Sash Frames:	part no. code
Frameless	**N**
Powder Coated Steel	**M**
Type 304L Stainless Steel	**S**

Additional Parts Required for a Complete Fume Hood Assembly	
Work Top	see page 58
Cupsink	see page 60
Ceiling Enclosure	see page 61
Service Fittings	see page 62
Base Cabinets	see page 70

	Sash Opening Height	Inside Depth	Overall Length	Liner Type	Sash Frame		Sash Glass		Fitting Holes		Electrical Fixture		Option Choices (separated by commas)				
V90F	**63**	☐☐	☐☐	☐	☐	**-**	☐☐	**,**	☐☐	**,**	☐☐	**-**	☐☐	**,**	☐☐	**, ...**	

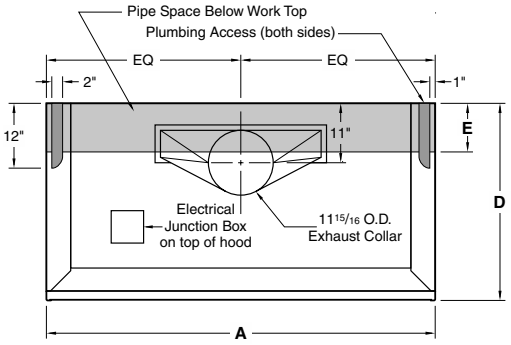
Technical Information V90

Airflow (CFM) Requirements

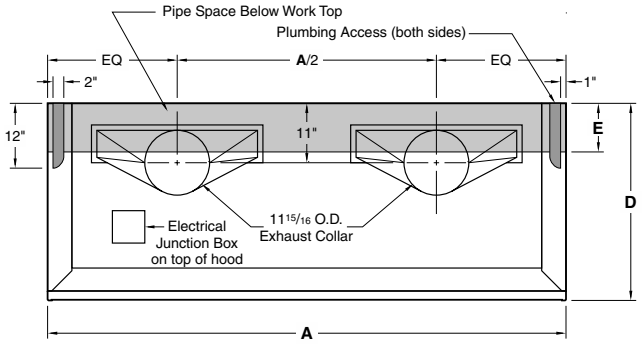
Face Velocity	28" High Upper Sash Opening								18" High Lower Sash Opening							
	4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"		4'-0" / 48"		5'-0" / 60"		6'-0" / 72"		8'-0" / 96"	
	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
120 FPM	980	0.60	1280	0.70	1580	0.90	2180	0.60	620	0.25	810	0.30	1000	0.40	1380	0.25
100 FPM	820	0.40	1070	0.50	1320	0.65	1820	0.45	520	0.20	680	0.25	840	0.30	1150	0.20
80 FPM	650	0.25	850	0.35	1050	0.40	1450	0.30	420	0.15	540	0.15	670	0.20	920	0.15

Static pressures shown are for the pressure drop through the hoods only. The total pressure drop through the hood and the duct system must be calculated to select the proper exhaust fan.

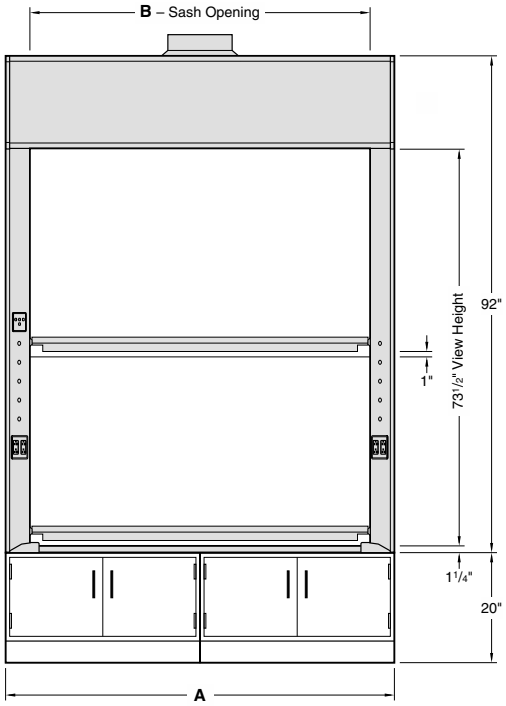
Inside Depth	ANSI Z9.5 Minimum Flow Rate							
	150 Air Changes/Hour				375 Air Changes/Hour			
	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"	4'-0" / 48"	5'-0" / 60"	6'-0" / 72"	8'-0" / 96"
24" deep	120 CFM	160 CFM	200 CFM	270 CFM	300 CFM	390 CFM	480 CFM	660 CFM
30" deep	150 CFM	200 CFM	240 CFM	330 CFM	370 CFM	480 CFM	590 CFM	820 CFM
36" deep	180 CFM	230 CFM	290 CFM	390 CFM	440 CFM	570 CFM	710 CFM	970 CFM



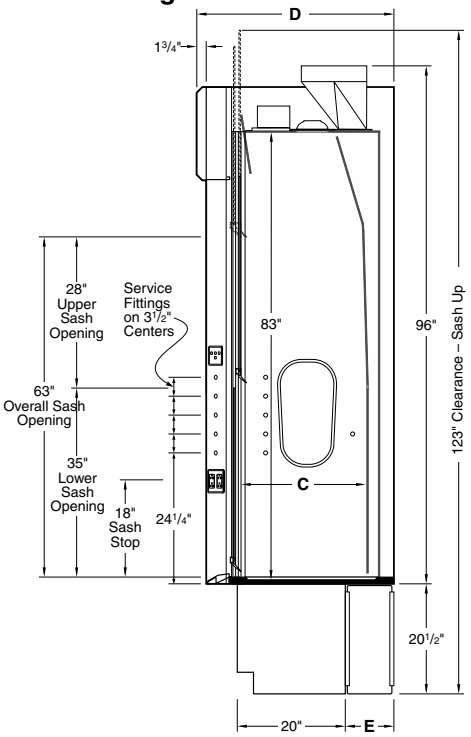
4'-5'-6' Rough-in



8' Rough-in



Elevation



Vertical Section

Dimensions – Length				
A	48"	60"	72"	96"
B	39"	51"	63"	87"

Dimensions – Depth			
C	24"	30"	36"
D	36 1/2"	42 1/2"	48 1/2"
E	9"	15"	21"

KEWAUNEE® Scientific Corporation

Fume Hood Style & Option Availability

			General Purpose			Split Sash		ADA		LX Series	
			V05	**V06**	**V07**	**V10**	**V11**	**V15**	**V16**	**V25**	**V26**
Kemglass Liner	(1/4")	**G**	●	●	●	●	●	●	●	●	●
KMER Liner	(1/4")	**K**	●	●	●	●	●	●	●	●	●
Type 316L Stainless Steel Liner	(16 ga)	**L**	●	●	●	●	●	●	●	●	●
Type 304L Stainless Steel Liner	(16 ga)	**S**	●	●	●	●	●	●	●	●	●
Phenolic Resin Liner	(1/4")	**T**	●	●	●	●	●	●	●	●	●
Frameless Sash		**N**	●		●			●		●	
Powder Coated Steel Sash Frame		**G**	●	●		●	●	●	●	●	●
Type 304L Stainless Steel Sash Frame		**S**	●	●		●	●	●	●	●	●
Laminated Safety Glass Sash		**G1**	●	●	●	●	●	●	●	●	●
Tempered Glass Sash		**G2**	●	●	●	●	●	●	●	●	●
Polycarbonate		**G3**	●	●	●	●	●	●	●	●	●
Rod Driven Needle Valve Fittings		**F1**	●	●	●	●	●			●	●
Rod Driven Ball Valve Fittings		**F2**						●	●		
Front Load Needle Valve Fittings		**F3**	●	●	●	●	●			●	●
Specification Grade GFCI Receptacles		**S_**	●	●	●	●	●	●	●	●	●
Hospital Grade GFCI Receptacles		**H_**	●	●	●	●	●	●	●	●	●
Variable Air Volume (VAV)		**V**	●	●	●	●	●	●	●	●	●
Air Alert 600 Alarm - Vertical Sash		**A1**	●			●		●		●	
Air Alert 600 Alarm - Combo Sash		**A2**		●	●		●		●		●
Air Alert 300 Alarm		**A3**	●	●	●	●	●	●	●	●	●
Sash Stop/Sash Open Safety Label		**L**	●	●		●	●	●	●	●	●
Distillation Rack - Preparation		**D**	●	●	●	●	●	●	●	●	●
Fire Suppression System		**E**	●	●	●	●	●	●	●	●	●
Safety Shield		**S**	●			●		●		●	
Tissue Screen		**T**	●	●	●	●	●	●	●	●	●
Cord Ports *(one provided in each side post)*		**P1**	●	●	●	●	●	●	●	●	●
Work Shelf Supports		**W**									
Vapor Proof Light		**B1**	●	●	●	●	●	●	●	●	●
Explosion Proof Light		**B2**	●	●	●	●	●	●	●	●	●
Fan/Blower Switch *(1hp motor rated)*		**K**	●	●	●	●	●	●	●	●	●
Pre-wired/UL 61010A-1 *(to a single circuit)*		**U/U2**	●	●	●	●	●	●	●	●	●
Type 304L Stainless Steel Airfoil		**O**	●	●	●	●	●	●	●	●	●
Type 316L Stainless Steel Airfoil		**O2**	●	●	●	●	●	●	●	●	●
Type 304L Stainless Steel Sash Pulls		**Q**	●	●		●	●	●	●	●	●
Type 316L Stainless Steel Duct Collar		**C**	●[1]	●[1]	●[1]	●[1]	●[1]	●[1]	●[1]	●[1]	●[1]
Auto Sash Return		**R1**	●	●				●	●	●	●
Push Button Sash Operator		**R2**	●	●		●	●	●	●	●	●
Proximity Sash Operator		**R3**	●	●		●[3]	●[3]	●	●	●	●

[1] Standard on stainless steel lined hoods
[2] Controls top sash only
[3] Closes both sashes
[4] Available for 48", 60" & 72" long hoods only

Fume Hood Style & Option Availability

		LX Series		Specialty		Floor Mounted			Distillation
		V30	**V36**	**V40**	**V45**	**V65**	**V66**	**V67**	**V90**
Kemglass Liner (1/4")	**G**	●	●			●	●	●	●
KMER Liner (1/4")	**K**	●	●			●	●	●	●
Type 316L Stainless Steel Liner (16 ga)	**L**	●	●		●	●	●	●	●
Type 304L Stainless Steel Liner (16 ga)	**S**	●	●	●		●	●	●	●
Phenolic Resin Liner (1/4")	**T**	●	●			●	●	●	●
Frameless Sash	**N**			●	●	●			●
Powder Coated Steel Sash Frame	**G**	●	●	●	●	●	●	●	●
Type 304L Stainless Steel Sash Frame	**S**	●	●	●	●	●	●	●	●
Laminated Safety Glass Sash	**G1**	●	●	●	●	●	●	●	●
Tempered Glass Sash	**G2**	●	●	●	●	●	●	●	●
Polycarbonate	**G3**	●	●	●	●	●	●	●	●
Rod Control Needle Valve Fittings	**F1**	●	●			●	●	●	●
Rod Control Ball Valve Fittings	**F2**								
Front Load Fittings	**F3**	●	●	●	●	●	●	●	●
Specification Grade GFCI Receptacles	**S_**	●	●	●	●	●	●	●	●
Hospital Grade GFCI Receptacles	**H_**	●	●	●	●	●	●	●	●
Variable Air Volume (VAV)	**V**	●	●	●	●	●	●	●	●
Air Alert 600 Alarm - Vertical Sash	**A1**	●		●	●	●			●
Air Alert 600 Alarm - Combo Sash	**A2**		●				●	●	
Air Alert 300 Alarm	**A3**	●	●	●	●	●	●	●	●
Sash Stop/Sash Open Safety Label	**L**	●	●	●	●	●	●		●
Distillation Rack - Preparation	**D**	●	●			●	●	●	●
Fire Suppression System	**E**	●	●			●	●	●	●
Safety Shield	**S**	●		●	●				
Tissue Screen	**T**	●	●	●	●	●	●	●	●
Cord Ports *(one provided in each side post)*	**P1**	●	●			●	●	●	●
Work Shelf Supports	**W**					●[4]	●[4]	●[4]	
Vapor Proof Light	**B1**	●	●	●	std	●	●	●	●
Explosion Proof Light	**B2**	●	●	●	●	●	●	●	●
Fan/Blower Switch *(1hp motor rated)*	**K**	●	●	●	●	●	●	●	●
Pre-wired/UL 61010A-1 *(to a single circuit)*	**U/U2**	●	●	●	●	●	●	●	●
Type 304L Stainless Steel Airfoil	**O**	●	●	●	●	●	●	●	●
Type 316L Stainless Steel Airfoil	**O2**	●	●	●	●	●	●	●	●
Type 304L Stainless Steel Sash Pulls	**Q**	●	●	●	●	●	●		●
Type 316L Stainless Steel Duct Collar	**C**	●[1]	●[1]	std	std	●[1]	●[1]	●[1]	●[1]
Auto Sash Return	**R1**			●	●				
Push Button Sash (up/down)	**R2**	●	●	●	●	●[2]	●[2]		
Proximity Sash Operator	**R3**	●[3]	●[3]	●	●	●[3]	●[3]		●[3]

[1] Standard on stainless steel lined hoods
[2] Controls top sash only
[3] Closes both sashes
[4] Available for 48", 60" & 72" long hoods only

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Venturi Fume Hood Options

VAV Restricted Bypass - Option V

Venturi fume hoods are also designed for operation on Variable Air Volume (VAV) exhaust systems when used with a VAV control package (not provided with hood).

The fume hood will be modified for VAV system field installation (by VAV Controls Contractor).

The manufacturer and model number of the VAV controller along with the minimum flow rate requirement of the system must be provided at time of order to ensure the bypass is sized correctly for the exhaust system.

ANSI Z9.5 has defined a minimum flow rate range of 150 ACH - 375 ACH of the fume hood chamber.

Air Alert Fume Hood Monitor – Option A1 & A2

Air Alert 600 Fume Hood Monitor consists of a thermistor sensor mounted on the fume hood interior wall and connected to fume hood containment cavity by a sensor port. A tube to the fume hood fascia completes monitored air path. The monitor measures and records the fume hood face velocity and sounds an alarm when the airflow falls below safe levels. A LCD displays a velocity readout and a visual one-hour "Event Timeline" that records alarm occurrences and their length for a continually updated one-hour time interval. The display background displays green, amber, or red to signal safe, marginal, and low face velocity conditions. The alarm and display offers the hood user a variety of alarm features including, alarm set points, metric or classical units, alarm delay intervals, nighttime setback, and muting options. The Air Alert 600 operates on 9-30 volts AC or DC and comes complete with an adapter that can be plugged into any 120 VAC receptacle.

Option A1 — Air Alert 600 – Vertical Sash Fume Hoods

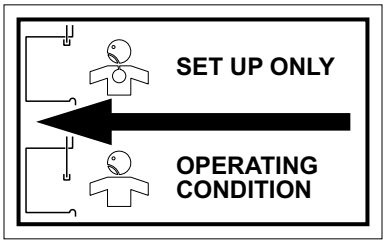
Option A2 — Air Alert 600 – Combination & Horizontal Sash Fume Hoods

Air Alert Fume Hood Monitor – Option A3

Air Alert 300 consists of a thermistor sensor mounted through the end wall of the hood, and a control monitor that gives both a visual and audible alarm. The alarm monitors the fume hood face velocity and sounds an alarm when the airflow falls below safe levels. A glowing green light signals when conditions are again safe. The control monitor, which is mounted on the hood fascia, also contains a test/reset button that allows the hood user to verify alarm readiness.

The Air Alert 300 operates on a 9 volt DC circuit and comes complete with an adapter that can be plugged into any 120 VAC receptacle.

Sash Stop Label – Option L

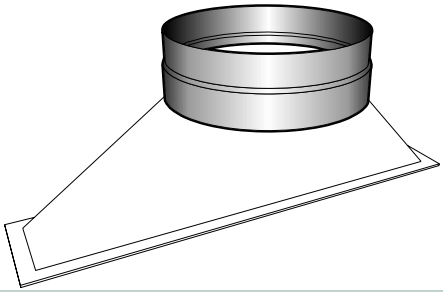


Label Size $2^5/_8$" x $1^5/_8$"

Sash Open Safety Label
May be used on any vertical or combination sash fume hood to indicate proper sash position for safe fume hood operation. Ideal for use when fans are sized for less than full sash open operation. Label is printed in black on white vinyl.

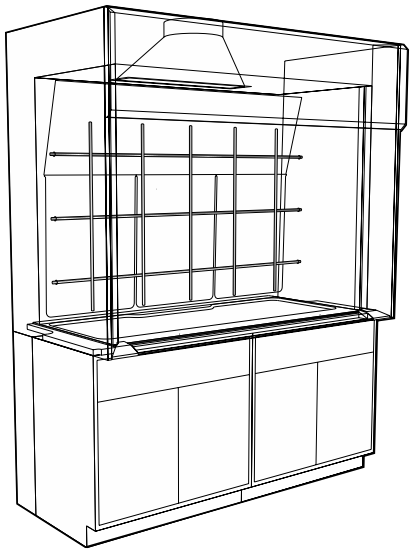
Ventrui Fume Hood Options

Stainless Steel Duct Collar – Option C



Stainless Steel Duct Collar may be specified on any Venturi fume hood as an addition to the standard FRP plenum and duct collar assembly. (Type 316 Stainless Steel)

Distillation Rack Preparation – Option D



Venturi Fume Hoods may be prepared to accept a lattice style distillation rack. The rack consists of vertical and horizontal ½" diameter rods, fastened with rod clamps to form a lattice of approximate 12" squares. Rods are available in Stainless Steel, Duralumin, or Fiberglass Reinforced Polyester (FRP) rods.

Rod Assemblies must be Ordered Separately. *(see below)*

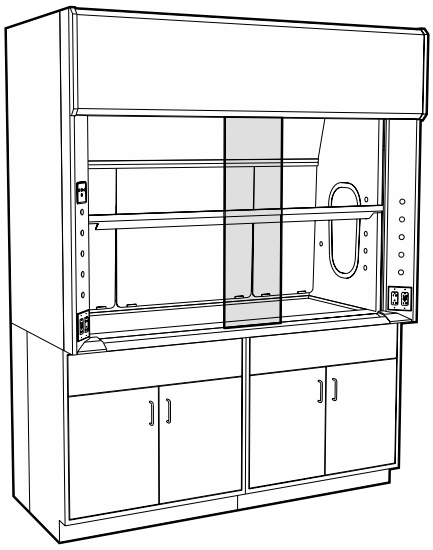
Type 304 Stainless Steel Rods

Bench Hoods *48"-60" High Interior*	Floor & Distillation *80"-84" High Interior*	Hood Length	FRP Rods: Bench Hoods *48"-60" High Interior*	FRP Rods: Floor & Distillation *80"-84" High Interior*
VDRS480148	**VDRS840148**	4'-0" / 48"	**VDRP480148**	**VDRP840148**
VDRS480160	**VDRS840160**	5'-0" / 60"	**VDRP480160**	**VDRP840160**
VDRS480172	**VDRS840172**	6'-0" / 72"	**VDRP480172**	**VDRP840172**
VDRS480196	**VDRS840196**	8'-0" / 96"	**VDRP480196**	**VDRP840196**
VDRS480120	**VDRS840120**	10'-0" / 120"	**VDRP480120**	**VDRP840120**
VDRS480144	**VDRS840144**	12'-0" / 144"	**VDRP480144**	**VDRP840144**

Duralumin Rods

Bench Hoods *48"-60" High Interior*	Floor & Distillation *80"-84" High Interior*	Hood Length
VDRA480148	**VDRA840148**	4'-0" / 48"
VDRA480160	**VDRA840160**	5'-0" / 60"
VDRA480172	**VDRA840172**	6'-0" / 72"
VDRA480196	**VDRA840196**	8'-0" / 96"
VDRA480120	**VDRA840120**	10'-0" / 120"
VDRA480144	**VDRA840144**	12'-0" / 144"

Sliding Safety Shield – Option S



Sliding Safety Shield designed to provide protection to fume hood users from small explosions, splattering of chemicals, breaking glass, etc. Designed to be used on Vertical Rising Sash Bench Hoods only, this 12" wide x ¼" thick polycarbonate shield slides the full length of the hood face opening on ball bearing rollers suspended from a track at the top of the sash opening, with a guide at the bottom to keep the shield from swinging. When the shield is not in use, it can be easily removed from the upper track and stored until it is needed again for safety purposes.

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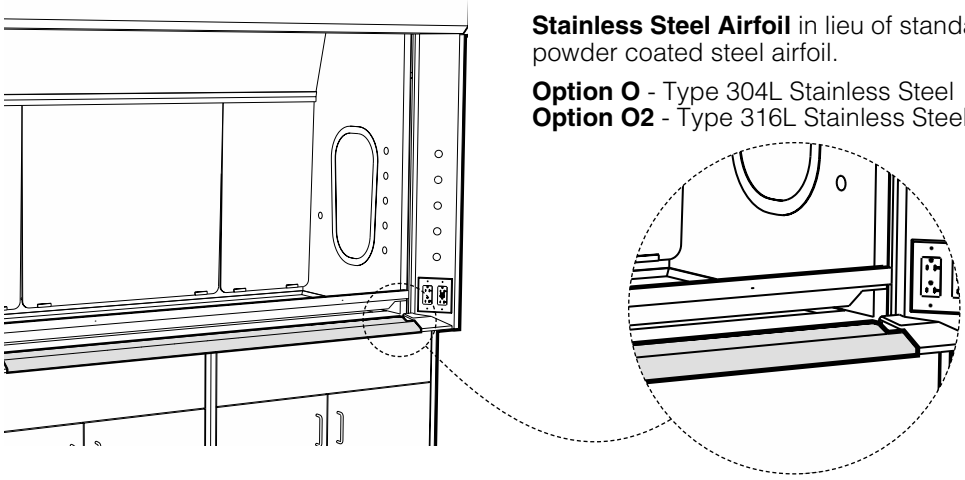
Venturi Fume Hood Options

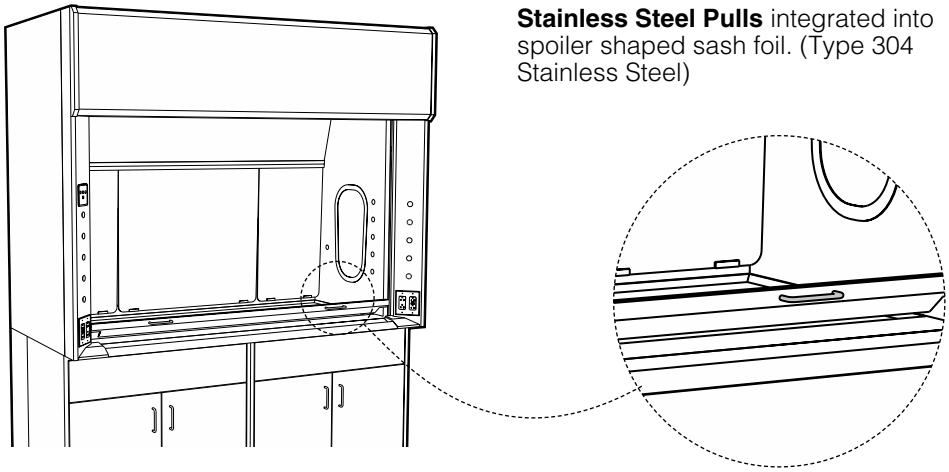
Stainless Steel Airfoil – Option O & O2



Stainless Steel Airfoil in lieu of standard powder coated steel airfoil.

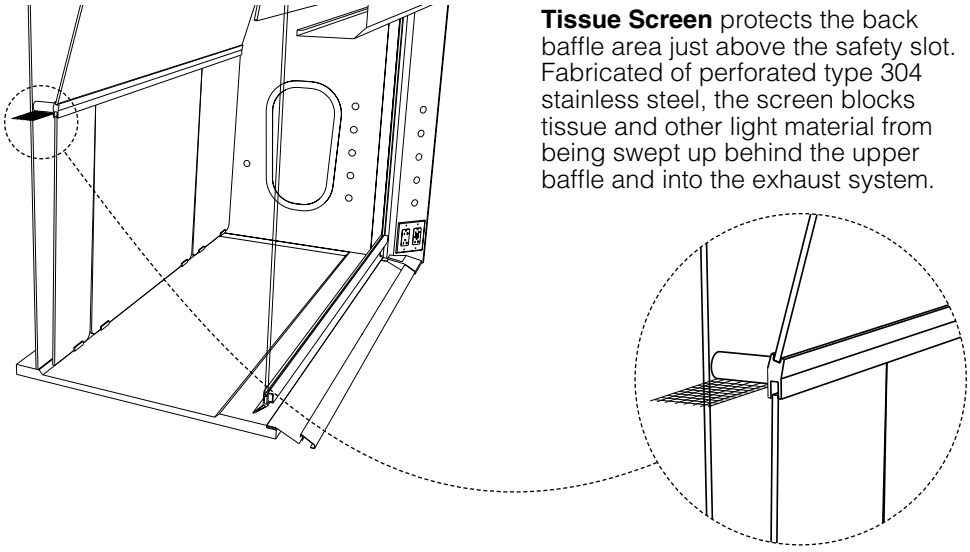
Option O - Type 304L Stainless Steel
Option O2 - Type 316L Stainless Steel

Stainless Steel Sash Pulls – Option Q



Stainless Steel Pulls integrated into spoiler shaped sash foil. (Type 304 Stainless Steel)

Tissue Screen – Option T

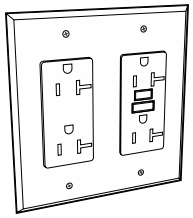


Tissue Screen protects the back baffle area just above the safety slot. Fabricated of perforated type 304 stainless steel, the screen blocks tissue and other light material from being swept up behind the upper baffle and into the exhaust system.

Venturi Fume Hood Options

Electrical Fixture Options

Specification Grade GFCI – Option S_

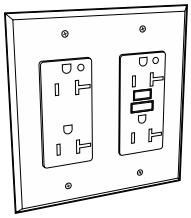


SK = GFCI Specification Grade – Black
SV = GFCI Specification Grade – Ivory
SW = GFCI Specification Grade – White
SG = GFCI Specification Grade – Grey
SR = GFCI Specification Grade – Red

120 volt GFCI specification grade, 20 amp, ground fault protected, double duplex receptacle.

Note: One ground fault circuit interrupter will protect the duplexes in each post when wired on the same circuit as standard.

Hospital Grade GFCI – Option H_

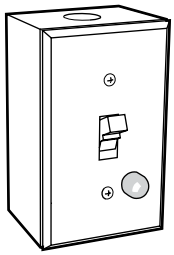


HK = GFCI Hospital Grade – Black
HV = GFCI Hospital Grade – Ivory
HW = GFCI Hospital Grade – White
HG = GFCI Hospital Grade – Grey
HR = GFCI Hospital Grade – Red

120 volt GFCI hospital grade, 20 amp, ground fault protected, double duplex receptacle.

Note: One ground fault circuit interrupter will protect the duplexes in each post when wired on the same circuit as standard.

Fan/Blower Switch – Option K



Motor rated starter switch with pilot light mounted in a single gang receptacle box complete with face plate, 120 volt pilot light, and double pole toggle switch with thermal over-load protection for up to 1 HP single phase, 60 hertz 120/240 volt AC motors. (Thermal unit not provided)

Mounted on left fascia post above Light/Sash Stop Release Controller panel.

K = Fan Switch

Pre-wired/UL 61010A-1 Listed – Option U & U2 (single circuit)

Pre-wired — All Venturi Fume Hoods may be pre-wired at the factory. Pre-wired hoods are wired using flexible metallic conduit to a single junction box located at the top of the hood for a single circuit, single point connection for a UL 61010A-1 listing.

Pre-wired hoods configured with a fan/blower switch (Option K) include a second junction box on the top of the hood.

(see page 73 for more information)

U = Pre-wiring for hoods with standard LED lighting

U2 = Prewiring for hoods with Vapor Proof (Option B1) or Explosion Proof (Option B2) lighting

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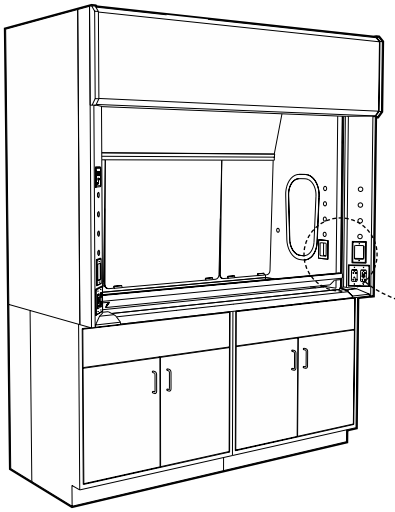
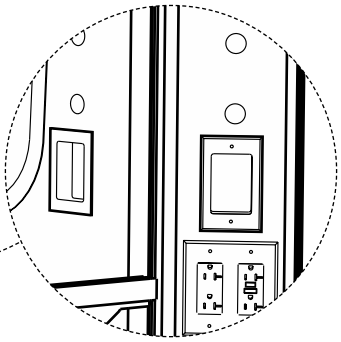
Venturi Fume Hood Options

Cord Ports – Option P1



Cord Ports — provide convenient, safe passage of wires and tubes for equipment connections.

One provided in each side post. Replaces lowest service fitting holes.



Auto Sash Return – Option R1

The Auto Sash Return option provides an automatic, gravity operated. sash return that lowers the sash to 18" from the full-open set-up position. When the sash is raised to the full open position a sash lock holds the sash open for set-up purposes. By pressing the electronic **Sash Stop Release Button**, the sash automatically closes to the 18" operating height.

Push Button Sash Operator – Option R2

The Push Button Sash Operator, located within the light control panel, is a motorized sash controller that opens or closes the sash.

From the closed position, a single push of the **Up Button** will open the sash to a preprogrammed sash stop height and another push of the **Up Button** will then fully open the sash.

From the open position, a single push of the **Down Button** will fully close the sash.

At any time a user may interrupt the mechanism, and stop sash travel, by pushing the **Stop Button**. In the event of a sash obstruction the sash will stop and retract a few inches so the object can be removed.

When the mechanism is not in operation, the sash can be manually opened or closed.

The Push Button Sash Operator replaces the standard electromechanical sash stop.

The Push Button Sash Operator is supplied installed and prewired to a junction box located on the top of the hood.

Split Sash Hoods are equipped with two sash controllers, one for each sash.

Proximity Sash Operator – Option R3

The Proximity Sash Operator uses an overhead motion sensor to monitor the area in front of the hood for the presence of lab personnel. Scanning at regular intervals, when it senses there has been no movement within the programmed period of time, it automatically closes the sash slowly and safely. When personnel are present, the sash is able to be opened and closed manually.

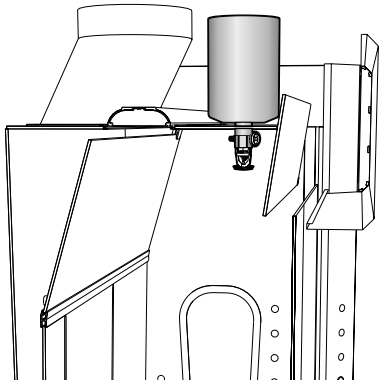
In addition to the motion sensor, a photoelectric sensor placed on the sash creates a light beam which scans the sash area for obstructions in the path of the sash. When an obstruction exists, the sash will halt its descent, and a warning light will signal that an obstruction exists.

Once the obstruction is removed, the sash operator warning light will reset, and the unit will re-engage.

The Proximity Sash Operator is factory installed on the fume hood with all required mechanical connections to the sash shaft for proper operation, and is pre-wired to a junction box located on the top of the hood.

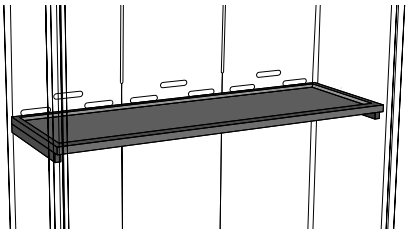
Venturi Fume Hood Options

Fire Suppression System – Option E



Venturi Fume Hoods may be fitted with a Fire Suppression System to control runaway experiments and the hazards of fire. The heart of the system is the patented CFF 800 Dual Agent ABC Dry Chemical Fire Suppression System Unit, vertically mounted in the top of the fume hood for complete coverage. The suppression unit is fully self-contained and may be easily removed for maintenance or replacement. Each fire suppression unit is equipped with a pressure gauge for easy status checking, a pressure switch that can be wired back to a monitoring or control panel (IE; burglar alarm) for 24 hour a day monitoring supervision and notification, and a 155F temperature bulb for automatic heat activation. To ensure complete coverage, four foot, five foot, six foot, and eight foot long fume hoods are protected with one fire suppression unit mounted in the center of the enclosure. Ten foot and twelve foot long fume hoods require two units for complete protection. Each CFF 800 unit is capable of protecting 8.2' x 8.2' x 12.2' or 820 cubic feet.

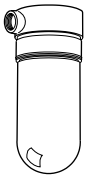
Work Shelf Supports – Option W

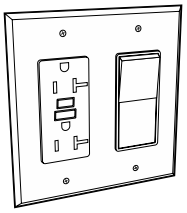


Venturi Floor Mounted Fume Hoods may be fitted with a removable Work Shelf mounted at 36" above the floor. The Work Shelf requires reinforcements in the fume end walls to attach the Work Shelf Cleats and to carry the weight of the Work Shelf. Option W adds the reinforcements to a Floor Mounted Fume Hood, but not the Work Shelf and cleats which must be ordered separately.

Available for 4 foot, 5 foot, and 6 foot Floor Mounted Hoods only

Vapor Proof Light – Option B1



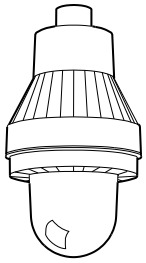


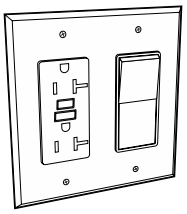
Option B1 replaces the standard LED light, light controller, and double GFCI double duplex receptacles on the left hand sash post with an 150 watt vapor proof light and a combination single duplex, 120 volt AC, 20 amp, GFCI receptacle and a single pole, 120/240 volt AC, 20 amp light switch.

Fixtures are furnished installed but not wired unless Option U2 (pre-wired is specified.

(Type A-16 bulb not included)

Explosion Proof Light – Option B2





Option B2 replaces the standard LED light, light controller, and double GFCI double duplex receptacles on the left hand sash post with an 150 watt explosion proof light and combination single duplex, 120 volt AC, 20 amp, GFCI receptacle and a single pole, 120/240 volt AC, 20 amp light switch.

(Light switch is not explosion proof)

Light switch and receptacles are furnished installed but not wired unless Option U2 (pre-wired) is specified. Explosion proof light is supplied loose for field installation when not pre-wired. (Globe ships loose.)

Explosion Proof Light
Class 1, Division 1 & 2, Group C & D
Class 2, Division 1 & 2, Group E, F, & G
Class 3
(Type A-21 bulb not included)

Sash Glass

Laminated Safety – Option G1
Tempered – Option G2
Polycarbonate – Option G3

Laminated Safety Glass
Laminated safety glass is made from two layers of float glass bound together by a layer of Polyvinyl Butyral (PVB). When broken, glass pieces will tend to adhere to the PVB layer instead of flying or falling into an adjacent user

Tempered Safety Glass
Tempered safety glass offers higher impact resistance. It performs well in areas of rapid and high temperature changes. If broken, it will shatter into small, safe pieces.

Polycarbonate

Polycarbonate is suggested when using Hydrofluoric Acid (HF) and provides superior resistance to chemical etching.

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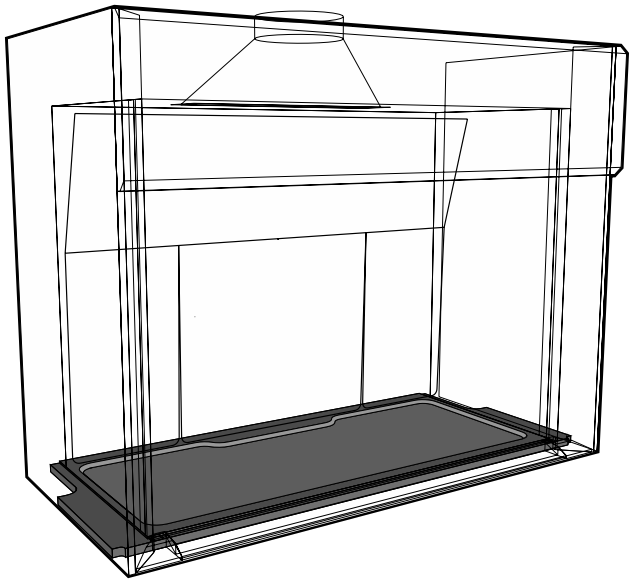
Venturi Fume Hood Tops

Work Tops – Work Shelves – Work Floor



Venturi Bench Hoods require a Work Top that must be ordered separately. Work Tops are available in either Kemresin or Stainless Steel, are dished 1/2" to retain spillage, and incorporate a 2" wide safety rim at the front.

They may include cutouts for cupsinks or vent pipes when specified with the cutout option.

Cupsinks must be ordered separately.

Venturi Floor Mounted Hoods may be ordered with a removable Work Shelf and/or a Work Floor that must be ordered separately. Both are available in either Kemresin or Stainless Steel, are dished 1/2" to retain spillage, incorporate a 2" wide safety rim at the front, and are not furnished with cutouts standard.

To mount the removable Work Shelf, the Venturi Floor Mounted Hood must be ordered with the **W** Option (see page 57).

Work tops and floors over 96 inches long are shipped in multiple sections.

Hood Type	Material	Thickness	Depth	Overall Length		Kemresin Color	Optional Cutouts (separated by commas) see next page							
V			01			-		,					,...	,

VH						

Hood Type

BT = Bench Work Top
HB = Horizontal Bench Work Top
WS = Work Shelf with Cleats
(for 4'- 5'- 6' Floor Mounted Hoods)
HF = Hood Floor
(for Floor Mounted Hoods)

Top Material

R = Kemresin
S = Type 304L Stainless Steel
L = Type 316L Stainless Steel

Top Thickness

01 = 1 1/4"

Required for Kemresin Tops Only

Work Top Color

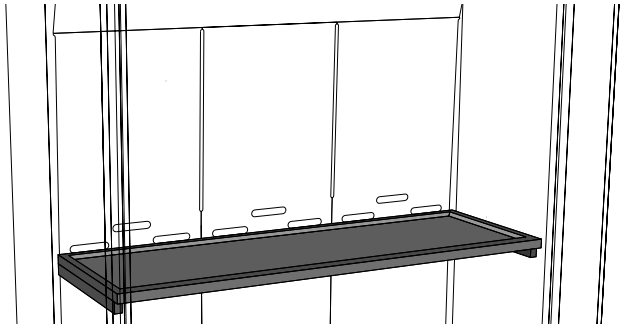
Black = **BK** Grey = **GR**
Putty = **PT** Slate = **SL**

Hood Overall Length

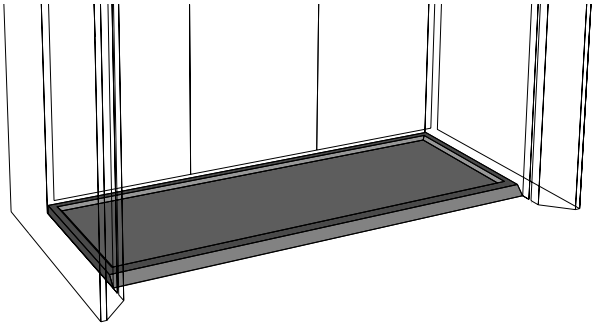
4'-0" / 48" = **48** 10'-0" / 120" = **20**
5'-0" / 60" = **60** 12'-0" / 144" = **44**
6'-0" / 72" = **72**
8'-0" / 96" = **96**

Floor Mounted Hood Work Shelf Work Shelf Depth — Bench Hood Work Tops & Floor Mounted Hood Floor Hood Interior Depth

18" = **18** 24" = **24** 30" = **30**
24" = **24** 36" = **36** 48" = **48**



Optional Work Shelf with Cleats
for 4 foot, 5 foot & 6 foot Floor Mount Hood



Optional Hood Work Floor
for Floor Mount Hood

Venturi Fume Hood Top

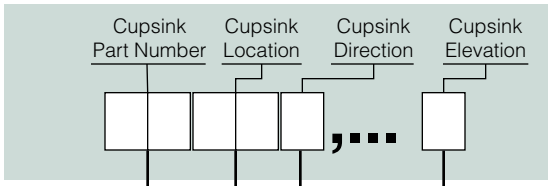
Cutout Options

Kemresin and poly cupsinks are shipped loose. Stainless steel cupsinks, when ordered with the top, are welded in place.

Note: Kemresin & poly cupsinks may only be used in Kemresin hood tops, type 304L stainless steel cupsinks may only be used in type 304L stainless steel tops, and type 316L stainless steel cupsinks may only be used in the type 316L tops.

Cupsinks must be ordered separately.

Cupsink Cutout



Cupsink Part Number

Kemresin/Poly

90 = 0490 3"x6" Oval
91 = 0491 3"x6" Oval
92 = 0492 3"x9" Oval
93 = 0493 Rectangular
99 = 0499 Rear Outlet
front vertical postion only

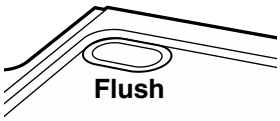
Stainless Steel

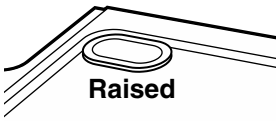
50 = 0950 Type 304L Round
51 = 0951 Type 316L Round
75 = 0975 Type 316L Oval

Cupsink Elevation

Flush = **F**
Raised = **R**

stainless steel cupsinks are only available flush mounted

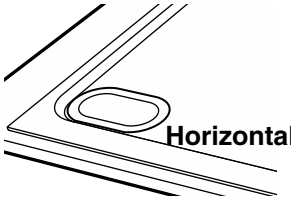


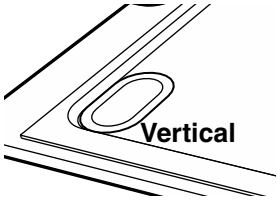


Cupsink Direction

Horizontal = **H**
Vertical = **V**

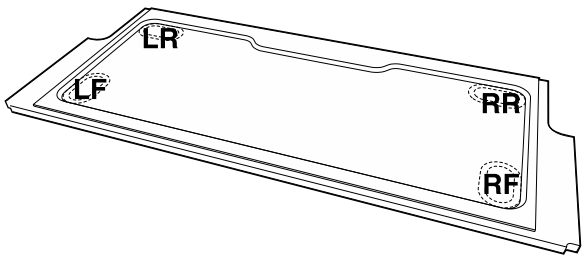
cupsinks can not be vertically mounted in the rear of 24" deep hoods



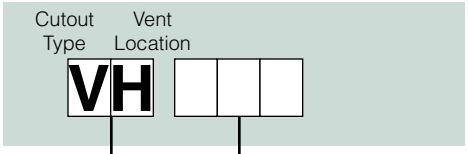


Cupsink Location

Left Front = **LF**
Left Rear = **LR**
Right Front = **RF**
Right Rear = **RR**



Vent Cutout



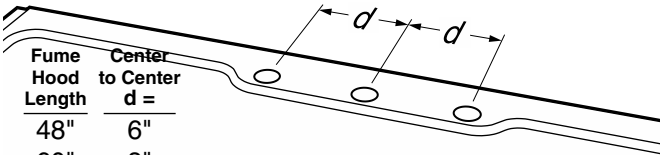
Cutout Type

VH = Vent Hole

Vent Locations

Left = **100**
Center = **010**
Right = **001**
Left & Center = **110**
Center & Right = **011**
Left & Right = **101**
Left, Right & Center = **111**

Work Tops may include up to three vent holes.



Fume Hood Length	Center to Center d =
48"	6"
60"	8"
72"	8"
96"	20"

Work tops over 8 feet long requires a drawing for vent hole locations

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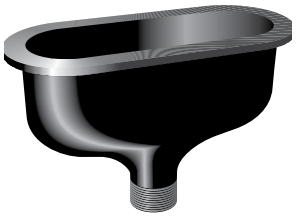
Cupsinks

Oval Cupsinks

0499-BP Black Poly
0499-GP Grey Poly
0499-PP Putty Poly
0499-SP Slate Poly
Complete with integral strainer, 12" horizontal tail-piece, and 90° elbow with 1½" IPS male straight thread outlet. Cupsink inside dimension, 5½" x 3½". (Overall height is 7", tailpiece and elbow not illustrated) **Designed for front, vertical position in hood work top.**

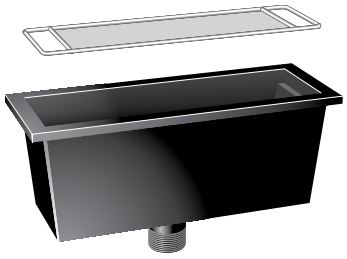
0490-BE Black Epoxy
0490-GE Grey Epoxy
0490-PE Putty Epoxy
0490-SE Slate Epoxy
Complete with removable strainer. 6"x 3" inside dimension. 1½" IPS male straight thread outlet. (Overall height is 7½")

0491-BP Black Poly
0491-GP Grey Poly
Complete with removable strainer. 6"x 3" inside dimension. 1½" IPS male straight thread outlet. (Overall height is 8½")



0492-BP Black Poly
0492-GP Grey Poly
Complete with removable strainer. 9"x 3" inside dimension. 1½" IPS male straight thread outlet. (Overall height is 7")

Rectangular Cupsink

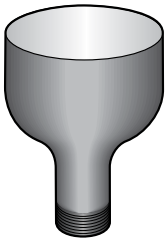


0493-BE Black Epoxy
0493-GE Grey Epoxy
0493-PE Putty Epoxy
0493-SE Slate Epoxy
Complete with gasket and removable type 316 stainless steel wire screen. 13⅜" x 4⅛" x 5¼" I.D. 1½" IPS male straight thread outlet. (Overall height is 8")

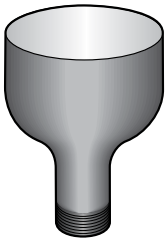
Side Mounted Cupsink

0476-BP Black Poly
Molded of black polyolefin resins. Complete with 90° union elbow. Designed to be mounted in a vertical panel not over ¼" thick. 6" x 3" inside dimension. 1½" IPS male straight thread outlet.

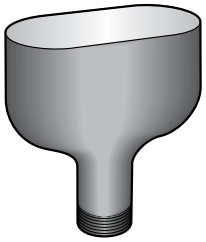
Stainless Steel Cupsinks



0950-00 Stainless Steel
Made of type 304 stainless steel and has integral cross bars. 5" I.D. 1½" IPS male straight thread outlet. Designed to be welded into stainless steel tops.



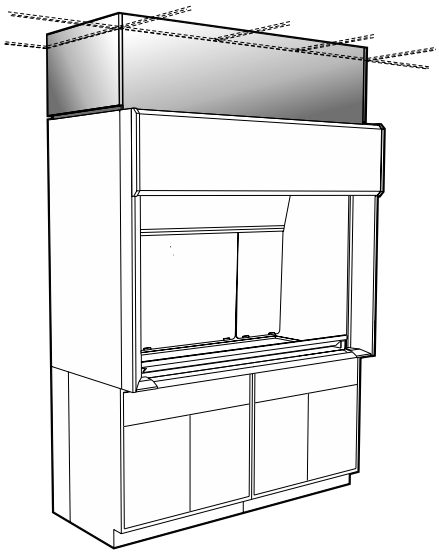
0951-00 Stainless Steel
Made of type 316 stainless steel and has integral cross bars. 5" I.D. 1½" IPS male straight thread outlet. Designed to be welded into stainless steel tops.



0975-00 Stainless Steel
Made of type 316 stainless steel and has integral cross bars. 6" x 3" I.D. 1½" IPS male straight thread outlet. Designed to be welded into stainless steel tops.

Hood Enclosures & Finished Backs

Fume Hood Ceiling Enclosures



Fume Hood Ceiling Enclosures are designed to fill the space between the top of the hood and the ceiling to provide a finished appearance. They are available in height from 18" to 30" in 1" increments and in lengths to match the hoods. All are provided with a removable front panel for easy access to the light fixture.

	Enclosure Type	Material	Enclosure Height	Enclosure Depth	Overall Length		Options (separated by commas)	
Ceiling Enclosure	**V**	**CE**	**M**				-	, ...

Enclosure Type

CE = Ceiling Enclosure

Material

M = Powder Coated Steel

Enclosure Height

09 through **30**

9" - 30" in 1" increments

Enclosure Depth

24 = 24" **30** = 30" **36** = 36" **48** = 48"

Options

Finished Back = **FB**

Combo Sash & Vertical Sash Floor Mounted Fume Hoods = **CS**

V06-V11-V16-V26
V36-V65-V66-V90

Hood Overall Length

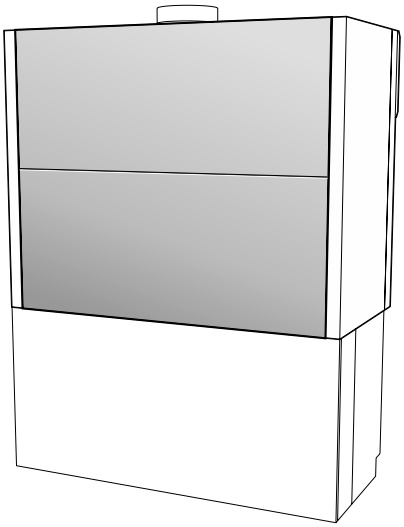
4'-0" / 48" = **48**
5'-0" / 60" = **60**
6'-0" / 72" = **72**
8'-0" / 96" = **96**
10'-0"/120" = **20**
12'-0"/144" = **44**

Styles

V05-V07-V10-V15-V25 = **S1**
V30-V40-V45-V67

V06-V11-V16-V26 = **S2**
V36-V65-V66-V90

Fume Hood Finished Backs



Fume Hood Finished Backs are furnished in two pieces

Fume Hood Finished Backs are designed to enclose the back of the fume hood when it is exposed to view and are removable without the use of tools for when access is required.

General Purpose Hood *57" High*	ADA Hood *60" High*	Length
VFBM570148	**VFBM600148**	4'-0" / 48"
VFBM570160	**VFBM600160**	5'-0" / 60"
VFBM570172	**VFBM600172**	6'-0" / 72"
VFBM570196	**VFBM600196**	8'-0" / 96"
VFBM570120		
VFBM570144		

LX Series Hood *69" High*	Floor Mounted Hood *92" High*	Length
VFBM690148	**VFBM920148**	4'-0" / 48"
VFBM690160	**VFBM920160**	5'-0" / 60"
VFBM690172	**VFBM920172**	6'-0" / 72"
VFBM690196	**VFBM920196**	8'-0" / 96"
VFBM690120	**VFBM920120**	10'-0" / 120"
VFBM690144	**VFBM920144**	12'-0" / 144"

KEWAUNEE Scientific Corporation

Venturi Fume Hood Service Fittings

Service Fittings Part Number

Valve Model	Service	Valve/Outlet Location	Valve Handle	Service Outlet	Back Outlet Location	Piping Options
V □□□□	□ -	□□ ,	□□ ,	□□ ,	□□□ -	□□

Valve Model

3185 = Rod Driven Needle Valve
4285 = Rod Driven Ball Valve
0739 = Front Load Needle Valve

Service

A = Air
G = Gas
V = Vacuum
N = Nitrogen
R = Argon
S = Steam
D = Distilled Water
W = Cold Water
H = Hot Water
M = H & C Water

Valve/Outlet Location

LF = Left Hand - Front of Hood
RF = Right Hand - Front of Hood
LB = Left Hand - Back of Hood
RB = Right Hand - Back of Hood

Valve Handle

4C = 4-arm Chrome Plated Brass
MN= Color Coded Molded Nylon
LC = 21/2" Chrome Plated Brass Lever

Piping Option

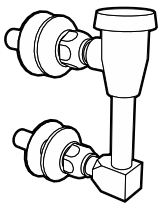
(no piping) Installed = **IN**
Installed & Piped Up = **PU**
Installed & Piped Down = **PD**
Installed & Piped Up = **SP**
to Single Point

Back Outlet Location

24" Deep Hood Interior = **L24**
30" Deep Hood Interior = **L30**
36" Deep Hood Interior = **L36**
48" Deep Hood Interior = **L48**

Service Outlet

Angled Color Coded Nylon = **AN**
Angled Color Coded Brass = **AB**
4 1/4" 90° Color Coded Brass = **4R**
4 1/4" 90° Color Coded Brass w/Vac. Breaker = **4RVB**
Color Coded 6" Gooseneck = **6G**
Color Coded 6" Vacuum Breaker Gooseneck = **6GVB**



Vacuum Breaker Assembly

for elevated mounting in top front panel of fume hood.

W-0112-00-P Pre-piped

3/8" I.P.S. inlet and outlet, includes brass nipples, locknuts, and washers.

Vacuum Breaker (not pictured)

for elevated mounting in side wall of fume hood

W-0539-00-P Pre-piped

3/8" I.P.S inlet and outlet

Service Fitting Colors & Index Symbols

Service	Fitting Color	Index Symbol	Index Color	Letter Color
Air	Orange	AIR	Orange	Black
Gas	Blue	GAS	Blue	White
Vacuum	Yellow	VAC	Yellow	Black
Nitrogen	Brown	NIT	Brown	White
Argon	Violet	AR	Violet	White
Steam	Black	STM	Black	White
Distilled Water	White	DW	White	Black
Cold Water	Green	CW	Green	White
Hot Water	Red	HW	Red	White
*H & C Water	Dark Grey			

* not available in Angled Color Coded Nylon

Pre-wired & Pre-piped

Pre-wired — All Venturi Fume Hoods may be Pre-wired at the factory. Pre-wired hoods are wired using flexible metallic conduit to a single junction box located at the top of the hood for a single point connection at the job site. Select Option U to specify the hood to be pre-wired.

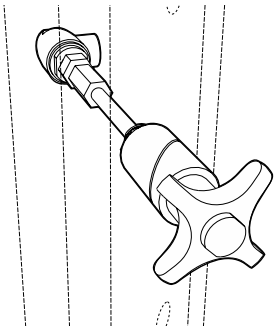
Pre-piped — In addition, all Venturi Fume Hood fittings may be Pre-piped at the factory when pre-piped fittings are selected. Piping is routed to the rear of the hood, in the side of the hood that the fittings are mounted. (If fittings are mounted in both ends, there are two connection points.) Piping may be routed either to the top or bottom of the hood as specified.

Standard 3/8" Piping Materials

Water — Hard Drawn Type L Copper
Gas — Black Steel
Vacuum — Hard Drawn Type L Copper
Air — Hard Drawn Type L Copper
DI Water — PVC
Other — Hard Drawn Type L Copper
(Copper connections made with lead free solder, black steel connections are threaded)

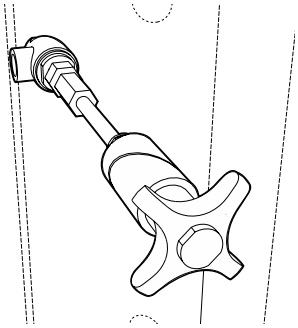
Venturi Fume Hood Service Fittings

Rod Driven Needle Valves — Front Location



3185
Needle Valve - Left Hand

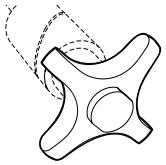
	Loc.	Handle	Outlet	Piping	
V3185A -	**F,**				Air
V3185G -	**F,**				Gas
V3185V -	**F,**				Vacuum
V3185N -	**F,**				Nitrogen
V3185R -	**F,**				Argon
V3185S -	**F,MN,AN -**				Steam
V3185D -	**F,**				Distilled Water
V3185W -	**F,**				Cold Water
V3185H -	**F,**				Hot Water
V3185M-	**F,**				H & C Water



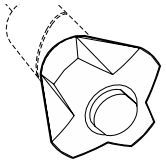
3185
Needle Valve - Right Hand

Minimum Spacing **3½"**
vertical distance between fittings

Valve Handles

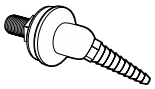


4C
4-Arm Handle
Chrome Plated Brass

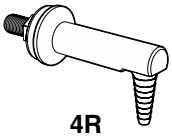


MN
Molded Nylon
Color Coded Handle

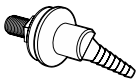
Service Outlets



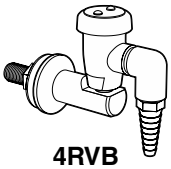
AN
Angled
Color Coded Nylon



4R
4¼" 90° Outlet
Color Coded Brass



AB
Angled
Color Coded Brass

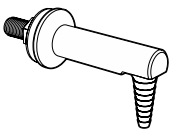


4RVB
4¼" 90° Outlet
with Vacuum Breaker
Color Coded Brass

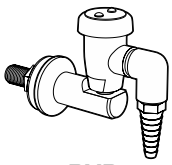
Rod Driven Needle Valves — Back Location

	Loc.	Handle	Outlet		Depth	Piping	
V3185W -	**B,**			**,L**			Cold Water
V3185H -	**B,**			**,L**			Hot Water
V3185M -	**B,**			**,L**			H & C Water

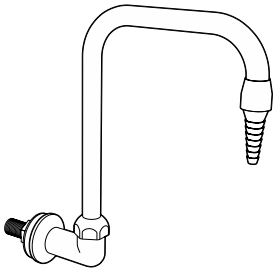
Back Location Water Outlets



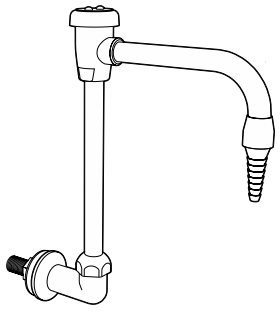
4R
4¼" 90° Outlet
Color Coded Brass



4RVB
4¼" 90° Outlet
with Vacuum Breaker
Color Coded Brass



6G
6" Rigid/Swing Gooseneck
Color Coded Brass

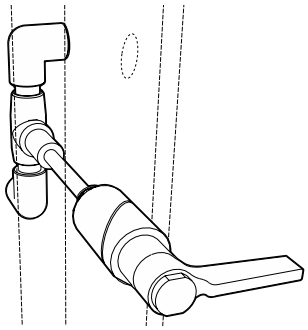


6GVB
6" Rigid/Swing Gooseneck
with Vacuum Breaker
Color Coded Brass

KEWAUNEE® Scientific Corporation

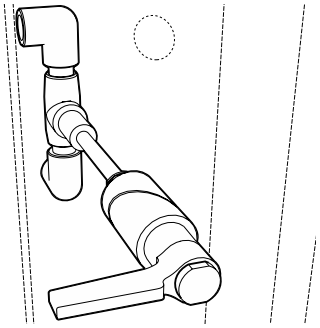
Venturi Fume Hood Service Fittings

Rod Driven Ball Valves — Front Location — for use on ADA Fume Hoods



4285
Ball Valve - Left Hand

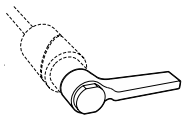
	Loc.	Handle	Outlet	Piping	
V4285A -	☐	**F,LC,**	☐☐	**-**☐☐	Air
V4285G -	☐	**F,LC,**	☐☐	**-**☐☐	Gas
V4285V -	☐	**F,LC,**	☐☐	**-**☐☐	Vacuum
V4285N -	☐	**F,LC,**	☐☐	**-**☐☐	Nitrogen
V4285R -	☐	**F,LC,**	☐☐	**-**☐☐	Argon
V4285D -	☐	**F,LC,**	☐☐	**-**☐☐	Distilled Water
V4285W -	☐	**F,LC,**	☐☐	**-**☐☐	Cold Water
V4285H -	☐	**F,LC,**	☐☐	**-**☐☐	Hot Water
V4285M -	☐	**F,LC,**	☐☐	**-**☐☐	H & C Water



4285
Ball Valve - Right Hand

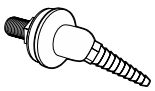
Minimum Spacing **5"**
vertical distance between fittings

Valve Handles

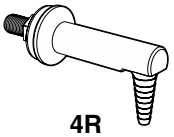


LC
Lever Handle
Chrome Plated Brass

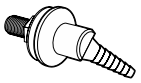
Service Outlets



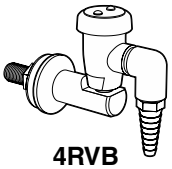
AN
Angled
Color Coded Nylon



4R
4 1/4" 90° Outlet
Color Coded Brass



AB
Angled
Color Coded Brass

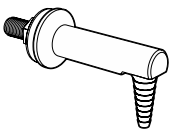


4RVB
4 1/4" 90° Outlet
with Vacuum Breaker
Color Coded Brass

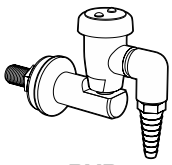
Rod Driven Ball Valves — Back Location — for use on ADA Fume Hoods

	Loc.	Handle	Outlet	Depth	Piping	
V4285W -	☐	**B,LC,**	☐☐	**,L**☐☐	**-**☐☐	Cold Water
V4285H -	☐	**B,LC,**	☐☐	**,L**☐☐	**-**☐☐	Hot Water
V4285M -	☐	**B,LC,**	☐☐	**,L**☐☐	**-**☐☐	H & C Water

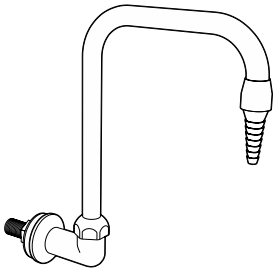
Back Location Water Outlets



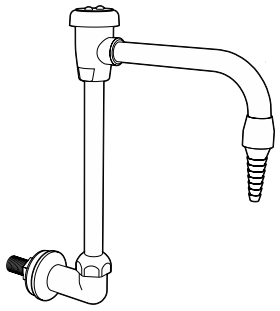
4R
4 1/4" 90° Outlet
Color Coded Brass



4RVB
4 1/4" 90° Outlet
with Vacuum Breaker
Color Coded Brass



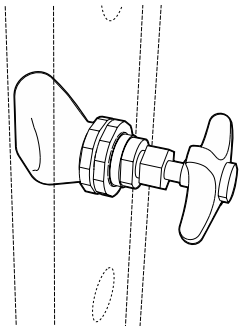
6G
6" Rigid/Swing Gooseneck
Color Coded Brass



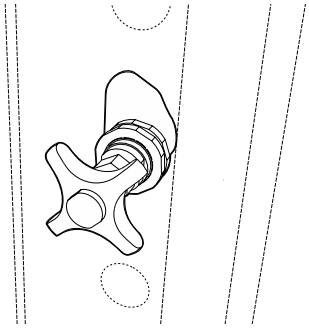
6GVB
6" Rigid/Swing Gooseneck
with Vacuum Breaker
Color Coded Brass

Venturi Fume Hood Service Fittings

Front Load Needle Valves — Front Location



0739
Front Load Valve - Left Hand

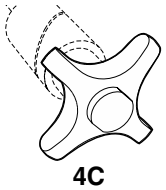


0739
Front Load Valve - Right Hand

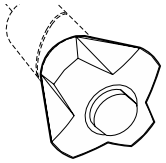
Minimum Spacing **3½"**
vertical distance between fittings

	Loc.	Handle	Outlet	Piping	
V0739A -	**F,**	□□	□□	-□□	Air
V0739G -	**F,**	□□	□□	-□□	Gas
V0739V -	**F,**	□□	□□	-□□	Vacuum
V0739N -	**F,**	□□	□□	-□□	Nitrogen
V0739R -	**F,**	□□	□□	-□□	Argon
V0739S -	**F,**	**MN, AN**		-□□	Steam
V0739D -	**F,**	□□	□□	-□□	Distilled Water
V0739W -	**F,**	□□	□□	-□□	Cold Water
V0739H -	**F,**	□□	□□	-□□	Hot Water
V0739M-	**F,**	□□	□□	-□□	H & C Water

Valve Handles

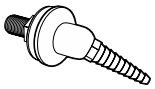


4C
4-Arm Handle
Chrome Plated Brass

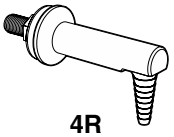


MN
Molded Nylon
Color Coded Handle

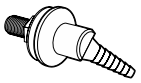
Service Outlets



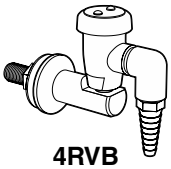
AN
Angled
Color Coded Nylon



4R
4¼" 90° Outlet
Color Coded Brass



AB
Angled
Color Coded Brass

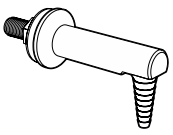


4RVB
4¼" 90° Outlet
with Vacuum Breaker
Color Coded Brass

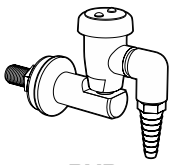
Front Load Needle Valves — Back Location

	Loc.	Handle	Outlet	Depth	Piping	
V0739W -	**B,**	□□	□□	**,L**□□	-□□	Cold Water
V0739H -	**B,**	□□	□□	**,L**□□	-□□	Hot Water
V0739M -	**B,**	□□	□□	**,L**□□	-□□	H & C Water

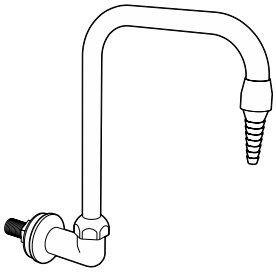
Back Location Water Outlets



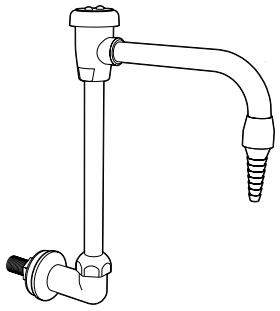
4R
4¼" 90° Outlet
Color Coded Brass



4RVB
4¼" 90° Outlet
with Vacuum Breaker
Color Coded Brass



6G
6" Rigid/Swing Gooseneck
Color Coded Brass

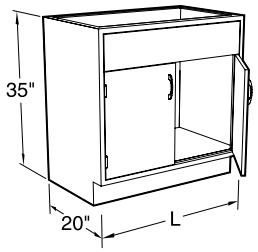


6GVB
6" Rigid/Swing Gooseneck
with Vacuum Breaker
Color Coded Brass

KEWAUNEE® Scientific Corporation

Fume Hood Base Cabinets

DIMENSIONAL VIEW

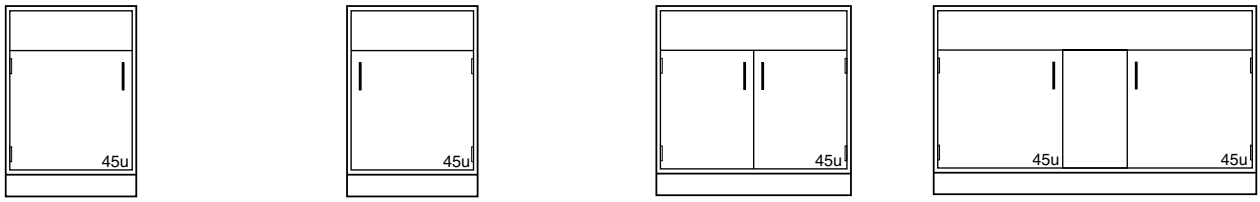


Specifications

Standing Height Steel and Wood Fume Hood Base Cabinets are 35" high and a nominal 20" deep. ADA Height Steel Fume Hood Base Cabinets are 32" high and 20" deep; ADA Height Wood Fume Hood Base Cabinets are 32½" high and nominal 20" deep. Lengths as shown.

Cabinet Style Option:
Specify cabinet door and hardware style when ordering by replacing blanks in last four digits of catalog number with style numbers.
See the Research Collection Steel and Signature Series Wood Catalogs for available styles and details.

Standing Height Fume Hood Base Cabinets



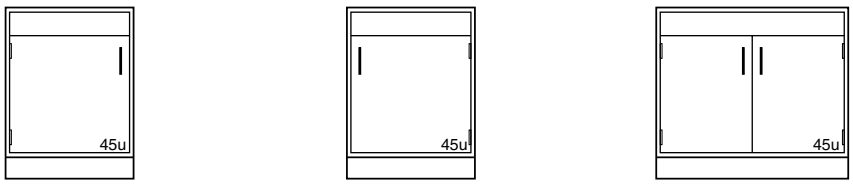
Steel Cabinets (35" High)

G08C352012L____	12"L	**G08C352012-____**	12"L	**G08C352030-____**	30"L	**G08C352060-____**	60"L
G08C352015L____	15"L	**G08C352015-____**	15"L	**G08C352036-____**	36"L		
G08C352018L____	18"L	**G08C352018-____**	18"L	**G08C352048-____**	48"L		
G08C352024L____	24"L	**G08C352024-____**	24"L				

Wood Cabinets (35" High)

G08W362012L____	12"L	**G08W362012-____**	12"L	**G08W362030-____**	30"L	**G08W362060-____**	60"L
G08W362015L____	15"L	**G08W362015-____**	15"L	**G08W362036-____**	36"L		
G08W362018L____	18"L	**G08W362018-____**	18"L	**G08W362048-____**	48"L		
G08W362024L____	24"L	**G08W362024-____**	24"L				

ADA Height Fume Hood Base Cabinets



Steel Cabinets (33" High)

G08C322012L____	12"L	**G08C322012-____**	12"L	**G08C322030-____**	30"L
G08C322015L____	15"L	**G08C322015-____**	15"L	**G08C322036-____**	36"L
G08C322018L____	18"L	**G08C322018-____**	18"L	**G08C322042-____**	42"L
G08C322024L____	24"L	**G08C322024-____**	24"L	**G08C322048-____**	48"L

Wood Cabinets (32½" High)

G08W342012L____	12"L	**G08W342012-____**	12"L	**G08W342030-____**	30"L
G08W342015L____	15"L	**G08W342015-____**	15"L	**G08W342036-____**	36"L
G08W342018L____	18"L	**G08W342018-____**	18"L	**G08W342042-____**	42"L
G08W342024L____	24"L	**G08W342024-____**	24"L	**G08W342048-____**	48"L

Solvent Storage Fume Hood Base Cabinets

Specifications

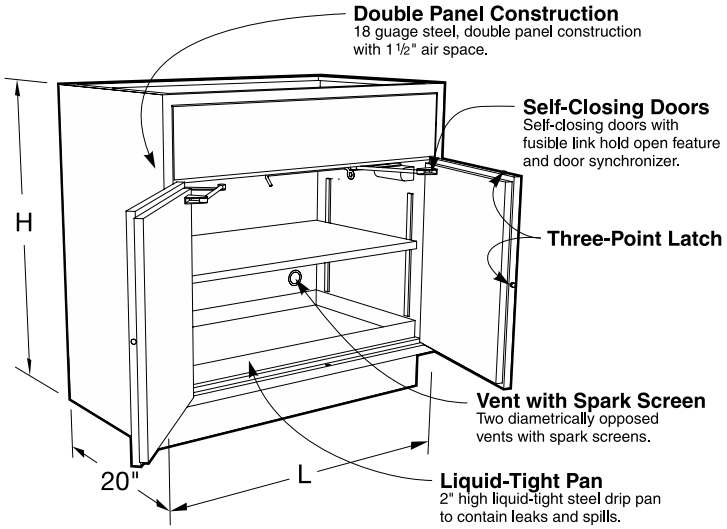
Solvent Storage Cabinets are specifically designed for the storage of flammable and combustible liquids. Both steel and wood cabinets meet UFC, OSHA and NFPA No. 30-1993 construction standards and are UL listed.

A 2" deep, steel, liquid-tight pan covers the entire bottom to contain liquid leaks and spills. A second pan is provided as a full-depth adjustable shelf.

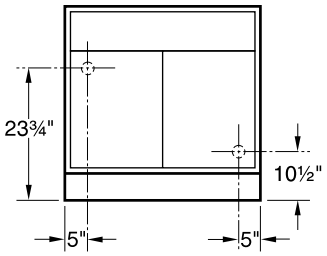
Two diametrically opposed vents with spark screens are provided in the back for cases when ventilation is required.

The steel cabinet is all18 gauge steel, double panel construction with self-closing doors, synchronized so that both doors will always fully close. The right hand door is equipped with a three-point latching system that automatically engages the cabinet frame. Each door is equipped with a fusible-link hold-open feature that ensures the doors close should the temperature outside the cabinet exceed 165°F. Steel cabinets are provided with a grounding screw at the rear.

All Solvent Storage Cabinets are labeled: CAUTION FLAMMABLE – KEEP FIRE AWAY in English, Spanish, and French.

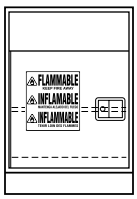


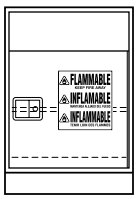
Vent Locations

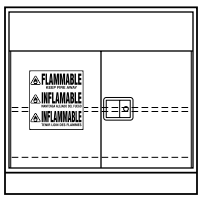


Steel Solvent Cabinets
Vent outlets 2" dia. Female NPT
Wood Solvent Cabinets
Vent outlets 1½" dia. Male NPT

Standing Height Solvent Storage Fume Hood Cabinets







Steel Cabinets (35" High)		Capacity			Capacity
G68C352024L_100	24"L	**G68C352024-_100**	24"L	12 gal	**G68C352030-_100** 30"L 12 gal **G68C352036-_100** 36"L 15 gal **G68C352048-_100** 48"L 20 gal

Steel Solvent Storage Cabinets are available in Style 0 and 1 only.
Style 1 - Full Overlay furnished with toespace 1" deeper

Wood Cabinets (35" High)		Capacity			Capacity
G68W362024L_0_0	24"L	**G68W362024-_0_0**	24"L	12 gal	**G68W362030-_0_0** 30"L 12 gal **G68W362036-_0_0** 36"L 15 gal **G68W362048-_0_0** 48"L 20 gal

Wood Solvent Storage Cabinets are available in Style 1 and 5 only

ADA Height Solvent Storage Fume Hood Cabinets

Steel Cabinets (32" High)		Capacity			Capacity
G68C322024L_100	24"L	**G68C322024-_100**	24"L	12 gal	**G68C322030-_100** 30"L 12 gal **G68C322036-_100** 36"L 15 gal **G68C322048-_100** 48"L 20 gal

Steel Solvent Storage Cabinets are available in Style 0 and 1 only.
Style 1 - Full Overlay furnished with toespace 1" deeper

Wood Cabinets (32½" High)		Capacity			Capacity
G68W342024L_0_0	24"L	**G68W342024-_0_0**	24"L	12 gal	**G68W342030-_0_0** 30"L 12 gal **G68W342036-_0_0** 36"L 15 gal **G68W342048-_0_0** 48"L 20 gal

Wood Solvent Storage Cabinets are available in Style 1 and 5 only

KEWAUNEE® Scientific Corporation

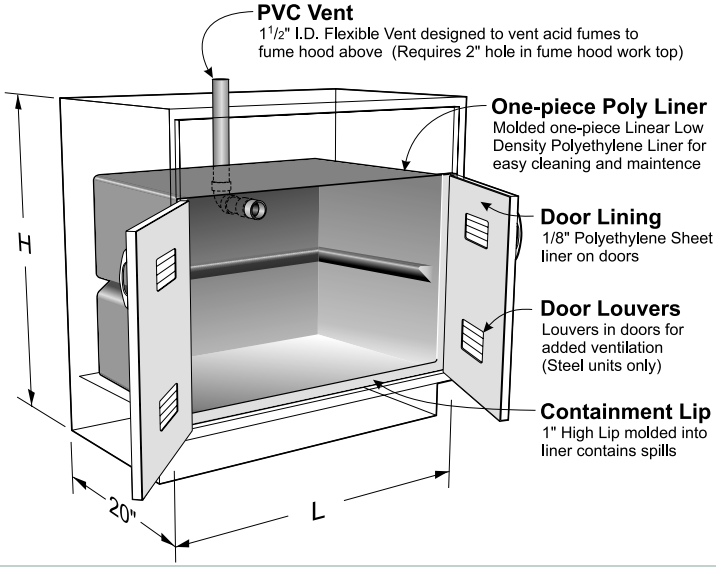
Acid Storage Fume Hood Base Cabinets

Specifications

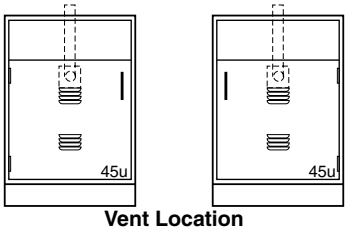
Acid Storage Fume Hood Base Cabinets are specifically designed for the storage of corrosive chemicals. They are available in either steel or wood. These cabinets are lined with a molded one piece linear low density polyethylene tub with coved corners and a 1" lip at the bottom front. The cabinet doors are lined with 1/8" sheet polyethylene and the doors are latched using a nylon roller catch. Each cabinet is furnished with a 1 1/2" I.D. flexible polyolefin tube for venting to the fume hood above. (Requires a 2" hole in the hood work top.)

Optional
Removable Half-Depth Shelf

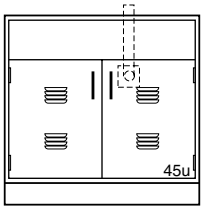
Part No.	
019624	Shelf for 24"cabinet
019625	Shelf for 30"cabinet
019626	Shelf for 36"cabinet
019627	Shelf for 48"cabinet



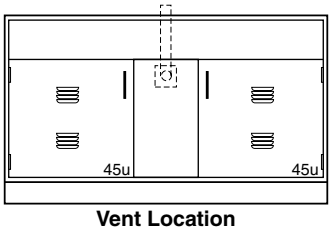
Standing Height Acid Storage Fume Hood Cabinets



Vent Location
On Center
11 5/8" from Top of Cabinet



Vent Location
30" – 7 5/8" Right of Center
36" & 48" – 5" Right of Center
11 5/8" from Top of Cabinet



Vent Location
On Center
11 5/8" from Top of Cabinet

Steel Cabinets (35" High)		
G80C352024L____ 24"L Left Hand	**G80C352030-____** 30"L	**G80C352060-____** 60"L
G80C352024-____ 24"L Right Hand	**G80C352036-____** 36"L **G80C352048-____** 48"L	
Wood Cabinets (35" High)		
G80W362024L____ 24"L Left Hand	**G80W362030-____** 30"L	**G80W362060-____** 60"L
G80W362024-____ 24"L Right Hand	**G80W362036-____** 36"L **G80W362048-____** 48"L	

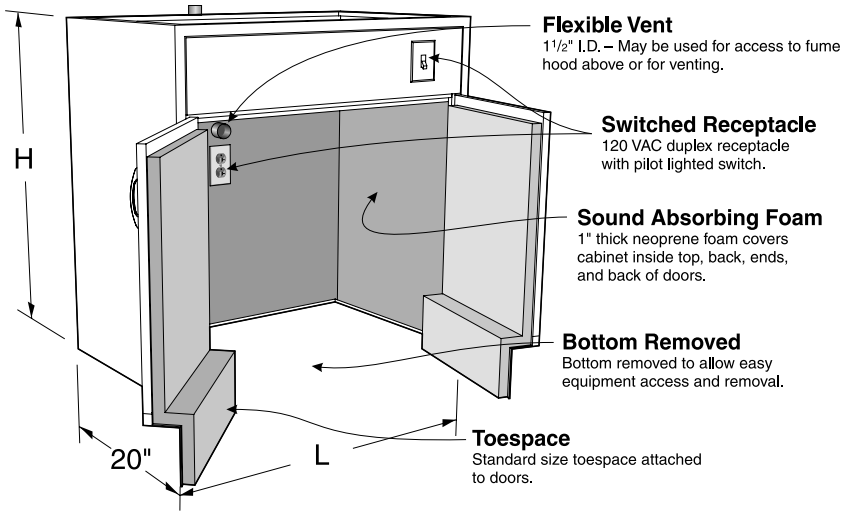
ADA Height Acid Storage Fume Hood Cabinets

Steel Cabinets (32" High)	
G80C322024L____ 24"L Left Hand	**G80C332030-____** 30"L
G80C322024-____ 24"L Right Hand	**G80C332036-____** 36"L **G80M332048-____** 48"L
Wood Cabinets (32 1/2" High)	
G80W342024L____ 24"L Left Hand	**G80W342030-____** 30"L
G80W342024-____ 24"L Right Hand	**G80W342036-____** 36"L **G80W342048-____** 48"L

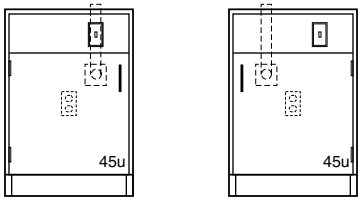
Vacuum Pump Storage Base Cabinets

Specifications

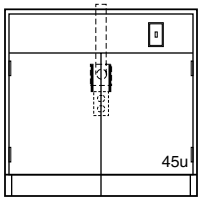
Vacuum Pump Storage Fume Hood Cabinets are designed without a bottom to allow vacuum pumps and other equipment to be rolled in or out of the cabinets. The interior is lined with 1" thick neoprene foam for sound deadening and easy cleaning. Each cabinet is furnished with a 120 VAC, 20 amp, duplex receptacle mounted on the inside cabinet back and a pilot lighted toggle switch mounted in the top front rail. (Wiring is not included.) Each cabinet is furnished with a 1½" I.D. flexible polyolefin tube for venting to the fume hood above. (Requires a 2" hole in the hood work top.) The toespace rail is attached to the door to allow total access to the cabinet. Cabinet inside clearance at the floor is 14½" front-to-back, 25" high, and 3" less than the overall cabinet length.



Standing Height Vacuum Pump Storage Fume Hood Cabinets



Vent Location
5" Off Center
11⅝" from Top of Cabinet



Vent Location
On Center
11⅝" from Top of Cabinet

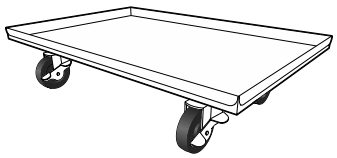
Steel Cabinets (35" High)				
G35C352024L____	24"L	Left Hand	**G35C352030-____**	30"L
			G35C352036-____	36"L
G35C352024-____	24"L	Right Hand	**G35C352048-____**	48"L
Wood Cabinets (35" High)				
G35W362024L____	24"L	Left Hand	**G35W362030-____**	30"L
			G35W362036-____	36"L
G35W362024-____	24"L	Right Hand	**G35W362048-____**	48"L

ADA Height Vacuum Storage Fume Hood Cabinets

Steel Cabinets (32" High)				
G35C322024L____	24"L	Left Hand	**G35C322030-____**	30"L
			G35C322036-____	36"L
G35C322024-____	24"L	Right Hand	**G35C322048-____**	48"L
Wood Cabinets (32½" High)				
G350W342024L____	24"L	Left Hand	**G35W342030-____**	30"L
			G35W342036-____	36"L
G350W342024-____	24"L	Right Hand	**G35W342048-____**	48"L

Vacuum Pump Cart

Vacuum Pump Carts are designed for use with Kewaunee's Vacuum Pump cabinets shown on this page. The cart consists of a 1" deep pan, fabricated from powder coated or stainless steel and mounted on 4" swivel casters.



Carts for 20" Deep Cabinets

Powder Coated Steel

Part Number	Length
VPCC061414-0000	14"
VPCC061420-0000	20"
VPCC061426-0000	26"
VPCC061432-0000	32"
VPCC061438-0000	38"
VPCC061444-0000	44"

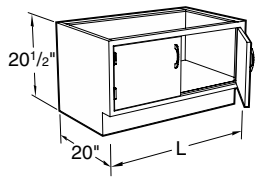
Stainless Steel

Part Number	Length
VPCC061414-0030	14"
VPCC061420-0030	20"
VPCC061426-0030	26"
VPCC061432-0030	32"
VPCC061438-0030	38"
VPCC061444-0030	44"

KEWAUNEE® Scientific Corporation

Distillation Hood Base Cabinets

DIMENSIONAL VIEW

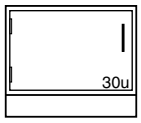


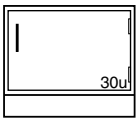
Specifications

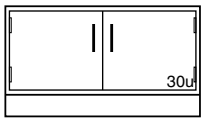
Distillation Fume Hood Steel and Wood Base Cabinets are designed to be used under distillation fume hoods. Both are 20½" high and are a nominal 20" deep. Lengths as shown.

Cabinet Style Option:
Specify cabinet door and hardware style when ordering by replacing blanks in last four digits of catalog number with style numbers.
See the Research Collection Steel and Signature Series Wood Catalogs for available styles and details.

Distillation Hood Base Cabinets







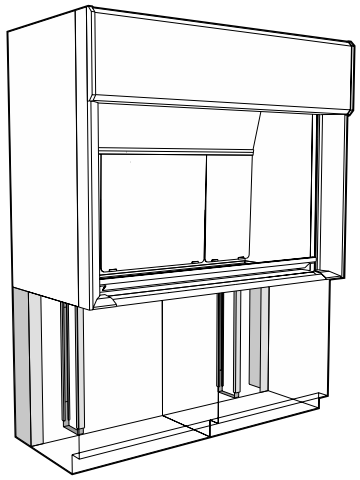
Steel Cabinets (20½" High)

G05C202012L____	12"L	**G05C202012-____**	12"L	**G05C202030-____**	30"L
G05C202015L____	15"L	**G05C202015-____**	15"L	**G05C202036-____**	36"L
G05C202018L____	18"L	**G05C202018-____**	18"L	**G05C202042-____**	42"L
G05C202024L____	24"L	**G05C202024-____**	24"L	**G05C202048-____**	48"L

Wood Cabinets (20½" High)

G05W202012L____	12"L	**G05W202012-____**	12"L	**G05W202030-____**	30"L
G05W202015L____	15"L	**G05W202015-____**	15"L	**G05W202036-____**	36"L
G05W202018L____	18"L	**G05W202018-____**	18"L	**G05W202042-____**	42"L
G05W202024L____	24"L	**G05W202024-____**	24"L	**G05W202048-____**	48"L

Venturi Fume Hood Accessories



Specifications

Base Cabinet Rear Fillers are designed to close opening between wall and rear of fume hood base cabinet. They are available in both steel and wood in sizes shown.

Kemstruts are steel frame assemblies consisting of steel channels and spacers designed to provide support and stability to the rear overhang of fume hood work tops and provides mounting struts for plumbing and electrical service lines.

Steel Rear Fillers

Part Number	D	H
BRSC200009-0000	9"	20½"
BRSC200015-0000	15"	20½"
BRSC200021-0000	21"	20½"
BRSC320009-0000	9"	32"
BRSC320010-0000	10"	32"
BRSC350009-0000	9"	35"
BRSC350010-0000	10"	35"
BRSC350015-0000	15"	35"
BRSC350016-0000	16"	35"
BRSC350021-0000	21"	35"
BRSC350022-0000	22"	35"

Wood Rear Fillers

Part Number	D	H
X-WP0936-00_0	9"	36"
X-WP1536-00_0	15"	36"
X-WP2136-00_0	21"	36"

Kemstruts

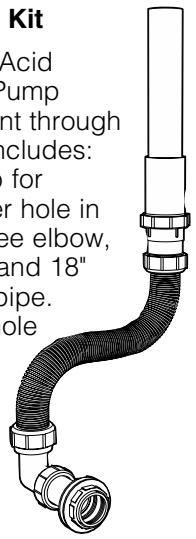
Part Number	D	H
K12-2009-0A	9"	20½"
K12-2015-0A	15"	20½"
K12-2021-0A	21"	20½"
K12-3209-0A	9"	32"
K12-3210-0A	10"	32"
K12-3509-0A	9"	35"
K12-3510-0A	10"	35"
K12-3515-0A	15"	35"
K12-3516-0A	16"	35"
K12-3521-0A	21"	35"
K12-3522-0A	22"	35"

KEWAUNEE® Scientific Corporation

Fume Hood Accessories & Canopy Hoods

Flexible Vent

F-9100-00-FIN Vent Kit



Designed for use with Acid Storage and Vacuum Pump Storage cabinets to vent through fume hood work top. Includes: 1 1/2" IPS threaded stub for mounting in 2" diameter hole in cabinet back, 90 degree elbow, 36" long flexible pipe, and 18" long 1 1/2" IPS straight pipe. (requires 2" diameter hole in work top) Both the flexible pipe and the straight pipe may be cut to size.

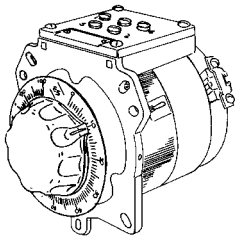
Variable Power Controller

0767-00 Powerstat
Variable Power Controller

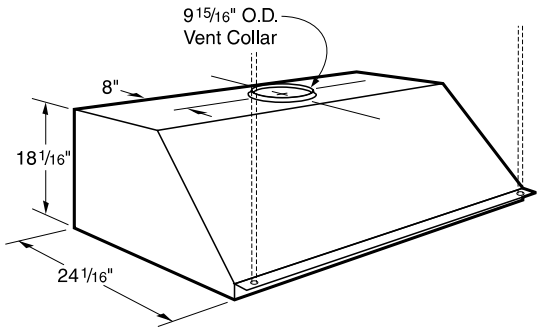
Ratings:

Input:	120 VAC 50/60 hertz, single phase
Output:	0-120 VAC or 0-240 VAC
Max. Load:	10 amp.

Requires separate on/off control.



Canopy Hoods



Canopy Hoods are useful for conducting heat out of laboratories, and can be mounted over tables where hot plates or other heat generating apparatus is located. They are fabricated of cold rolled steel, phosphate coated with a baked chemical resistant, synthetic resin finish, or of type 304 stainless steel. They are available 3 feet, 4 feet, 5 feet , 6 feet and 8 feet long. The painted steel canopys are available with or without a lining of 1/4" thick KMER. Each canopy hood is furnished a with 9 15/16" O.D. vent collar. (8 foot canopies are furnished with two duct collars, 48" on center.) (1/2" diameter support rods to the ceiling are not included.)

KMER Lined Painted Steel	Unlined Painted Steel	Unlined Stainless Steel	
2B-2818-3K-M	**2B-2818-30-M**	**2B-2818-30-S**	36"L
2B-2818-4K-M	**2B-2818-40-M**	**2B-2818-40-S**	48"L
2B-2818-5K-M	**2B-2818-50-M**	**2B-2818-50-S**	60"L
2B-2818-6K-M	**2B-2818-60-M**	**2B-2818-60-S**	72"L
2B-2818-8K-M	**2B-2818-80-M**	**2B-2818-80-S**	96"L

Pre-wired and Pre-piped

Specifications:

Pre-wired — All Supreme Air Fume Hoods may be Pre-wired at the factory. Pre-wired hoods are wired using flexible metallic conduit to a single junction box located at the top of the hood for a single point connection at the job site. UL listing is available on standard pre-wired configurations. Contact Kewaunee's Engineering Department for non-standard electrical requirements.

A "U" option must be selected for fume hoods to be UL 61010A-1 listed.

Pre-piped — In addition all Venturi Fume Hoods may Pre-piped at the factory when pre-piped fittings are selected. Piping is routed to the rear of the hood, in the side of the hood that the fittings are mounted. (If fittings are mounted in both ends, there are two connection points.)

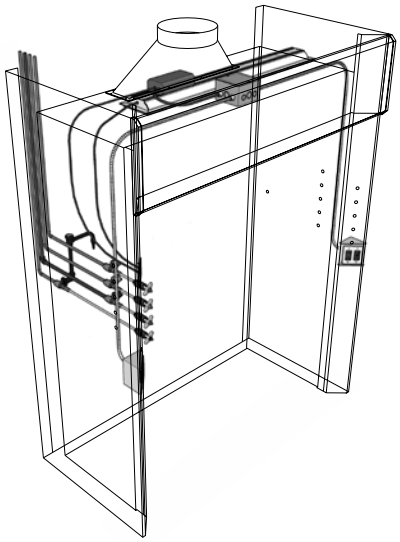
Piping may be routed either to the top or bottom of the hood as specified.

Standard 3/8" Piping Materials

Water — Hard Drawn Type L Copper
Gas — Black Steel
Vacuum — Hard Drawn Type L Copper
Air — Hard Drawn Type L Copper
DI Water — PVC
Other — Hard Drawn Type L Copper
(Copper connections made with lead free solder, black steel connections are threaded)

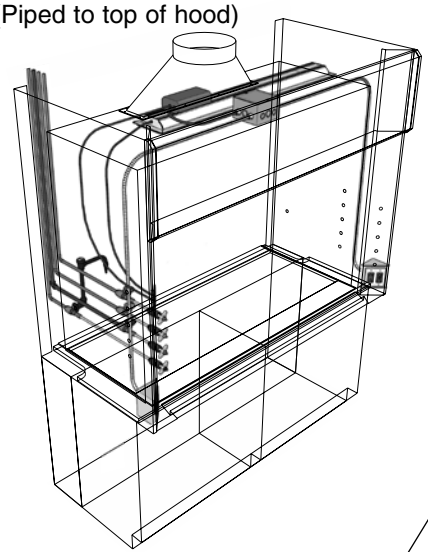
Typical Walk-In Hood

(Piped to top of hood)



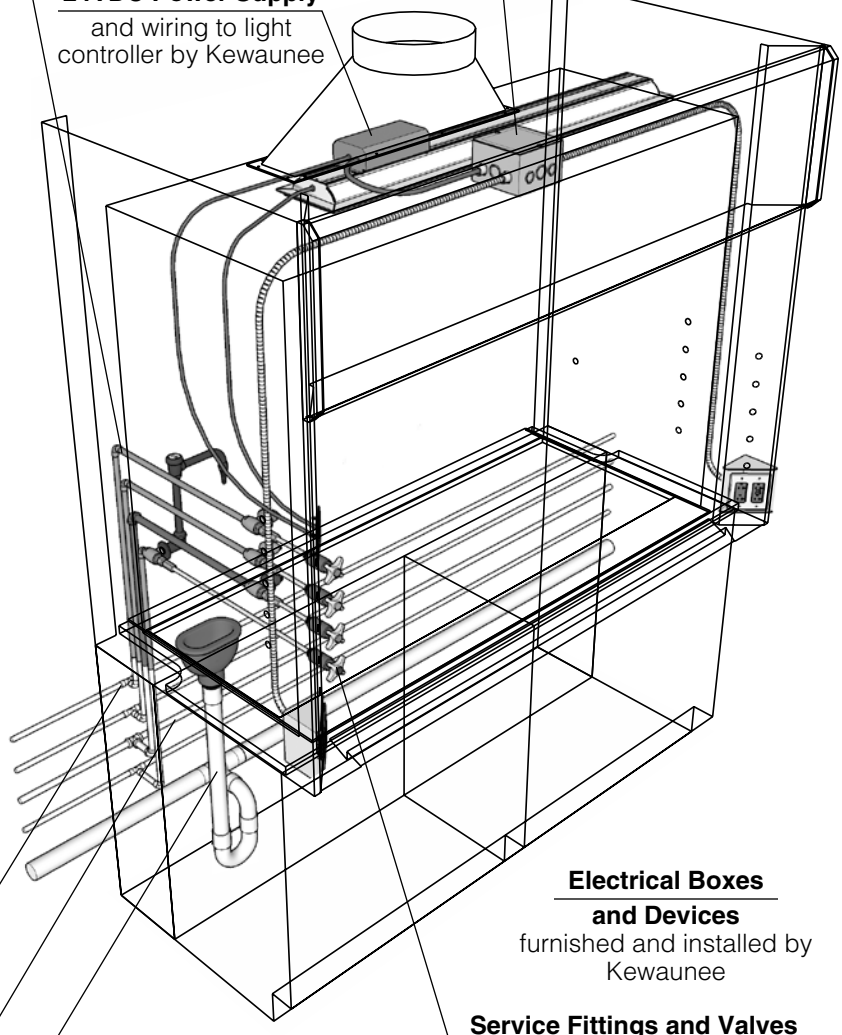
Typical Bench Hood

(Piped to top of hood)



Typical Fume Hood with Plumbing & Wiring Connections

(Piped to bottom of hood)



KEWAUNEE® Scientific Corporation

Recommended Fume Hood Work Practices

A Safe, Healthy Work Environment

Most people think of a scientific laboratory as a clean, safe place to work. But for the people who work there every day, the typical laboratory—filled with flammable and toxic chemicals, harmful vapors, gases and corrosive acids—can be an extremely hazardous place.

By containing harmful contaminants and venting them out of the work area, laboratory fume hoods help create and maintain a safe, healthy environment for you—the laboratory worker—and your co-workers.

Your fume hood is designed to protect you by providing an enclosed work area that has an air barrier between you and the harmful materials you work with. Behind this protective air barrier, the hood's directional air flow carries harmful contaminants away from you toward the rear of the hood. Also, the properly tuned hood and its exhaust system dilutes the contaminants with large volumes of air and safely exhausts them.

If anything interferes with the protective air barrier of the fume hood or disrupts the proper air flow, the hood's ability to protect you and your co-workers may be seriously reduced.

Since 1906, we at Kewaunee Scientific Corporation have been designing and building laboratory fume hoods to help keep laboratory work environments safe and healthy.

Based on our knowledge and experience, we've outlined a number of basic safety practices for you and your co-workers to follow when choosing, using and maintaining laboratory fume hoods. The following practices are based on the superior design found in Kewaunee Supreme Air Venturi hoods.

We urge you to familiarize yourself with these recommended fume hood work practices and with your facility's safety guidelines and standard operating procedures. We think you'll agree—it's the best way to help ensure a safe, healthy work area for you and your co-workers.

The Right Fume Hood for the Job

If your laboratory fume hood is to properly protect you, it must be designed for the type of work you're doing.

For example, if you work with radioisotopes, carcinogens or other toxic materials for which decontamination is important, you should always use a hood with a non-absorbent lining that is designed to be easily decontaminated.

If you work with large volumes of flammable substances, you may need a hood equipped with such features as a non-absorbent lining, explosion-proof lights and electrical receptacles, a fire-suppression system, and a spark-resistant exhaust fan.

If you use perchloric acid heated above ambient temperature then you need a fume hood and exhaust system specifically designed for this hazard.

To be sure your fume hood is the right one for the work you're doing, contact your local Kewaunee sales representative.

Venturi Fixed Baffle Configuration

Kewaunee Supreme Air Venturi fume hoods are provided with a fixed baffle configuration. **(See Figures 1 and 2.)** The slots in the baffle are optimized to provide the best performance.

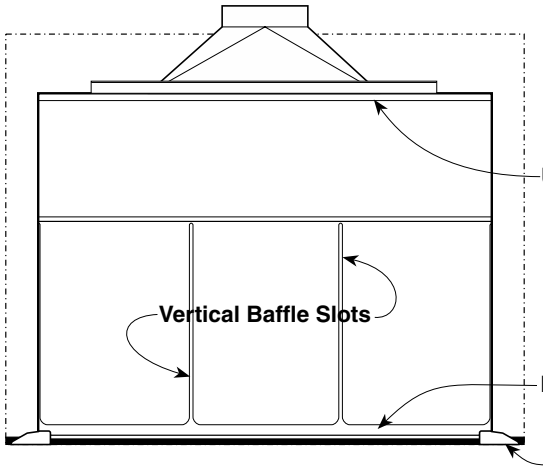


Figure 1. *Face Section View*

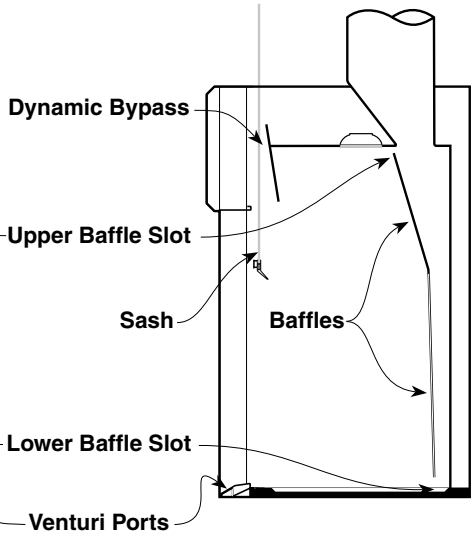


Figure 2. *End Section View*

Recommended Work Practices (continued)

Checking Fume Hood Performance

To confirm that your fume hood exhaust system is working properly, the Occupational Safety and Health Administration (OSHA) recommends that all hoods be equipped with an airflow monitor. Inspect both the monitor and the system periodically for malfunctions.

For some applications a pressure gauge connected to the exhaust duct is sufficient. The safe pressure range should be marked on the gauge. When using more hazardous contaminants, a fume hood alarm such as the Kewaunee Air Alert 300 or Air Alert 600 Digital Face Velocity Alarms should be used. These alarms provide both a visual and audible warning when the exhaust flow becomes unsafe.

If your hood is equipped with a variable air volume controller (VAV) with alarm capabilities, then an additional alarm is not necessary.

You should have a qualified technician thoroughly test your fume hood before you use it the first time and at least once a year after that. You should also have your hood tested after any modification to the laboratory ventilation system or other factors which may affect hood exhaust capability or room air flow patterns.

Maintaining the Protective Air Barrier for a Safe Work Area

When you stand in front of a laboratory fume hood, the air passing your body to enter the hood forms a zone of low air pressure directly in front of you which extends into the hood. Since contaminants may enter this turbulent area from inside the hood, you should keep all hazardous materials at least six inches inside the hood, behind the protective air barrier. **(See Figure 3.)**

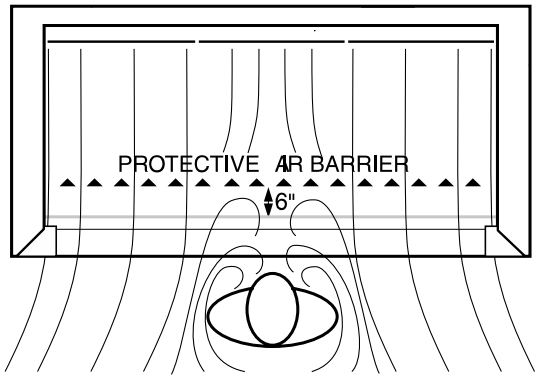


Figure 3

Formation of Protective Air Barrier

The farther behind the fume hood protective air barrier you place the source of contaminants, the greater the protection the hood provides. Therefore, place the equipment and contaminants as far back inside the hood as possible, being careful not to block the slots in the rear baffle. **(See Figure 4.)** Never place apparatus so far back that you have to put your head into the hood while the procedure is generating contaminants.

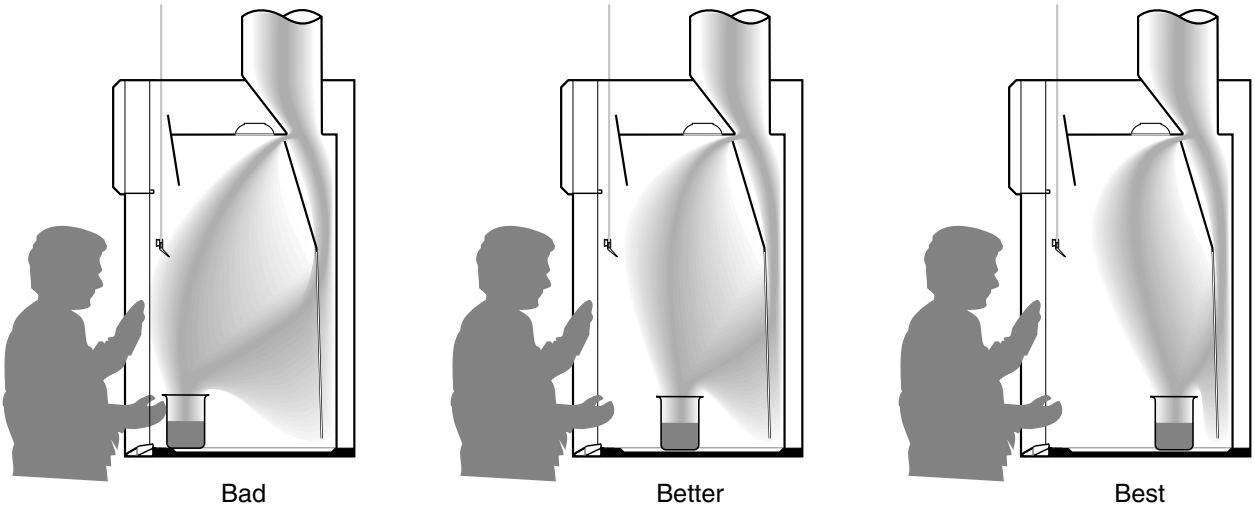


Figure 4

Effect of placement of contaminate source

Recommended Work Practices (continued)

Maintaining the Protective Air Barrier for a Safe Work Area (continued)

Large containers or equipment such as furnaces, incubators and oil baths often interfere with air flow inside the fume hood by causing lazy air and reverse flows which may affect airflow patterns. Placing large, bulky equipment on legs will help improve airflow patterns by allowing air to circulate beneath the equipment. **(See Figure 5.)**

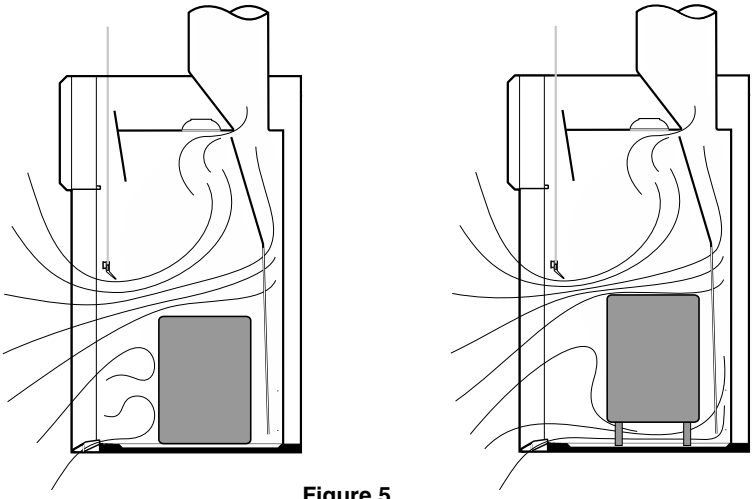


Figure 5
Effect of large equipment

The fume hood should not be used for storage of chemicals and apparatus. Remove all unnecessary containers and equipment from the hood.

The air velocities used to provide containment in fume hoods are relatively low and the air flow patterns are easily disrupted. Avoid making rapid movements while working at the hood or while walking past the hood.

When working at a fume hood, always open the sash only as far as needed to access to the work area. The lowered sash increases the distance **(D in Figure 6)** between your breathing zone and the area where contaminants may escape. In addition the smaller hood face area makes the hood less susceptible to room drafts and other external air disturbances.

The sash also provides protection by replacing part of the protective air barrier with a solid barrier against contaminants and splashing chemicals.

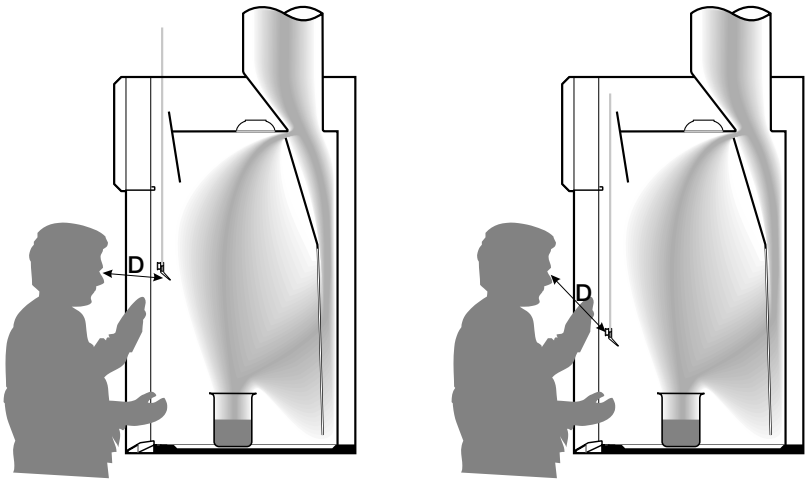


Figure 6
Effect of lowering the sash

If the hood has a sash stop to limit sash travel or is marked for a safe sash height, the sash should not be raised above this point while contaminants are being generated within the hood.

If continuous access is not needed to the inside of the fume hood, the sash should be closed completely. **(See Figure 7)** A closed sash provides protection from flying debris or a runaway reaction. It also eliminates the effects of room drafts or other adverse air currents.

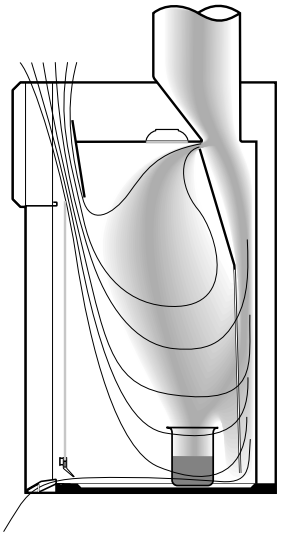


Figure 7 *Airflow through By-Pass with Sash Closed*

If your hood has horizontal sashes, be sure they are all in place when working with contaminants inside the hood. Operating the hood with any of the sashes removed reduces the protection they provide by decreasing the velocity of the air entering the hood face. If you remove any hood sashes while setting up equipment, be sure to replace them before beginning the actual procedure. On hoods with a combination vertical/horizontal sash, the hood should be operated either with the vertical frame closed while the horizontal panels are open or the horizontal panels closed while the vertical frame is open.

Recommended Work Practices (continued)

For More Information

We at Kewaunee Scientific hope these guidelines will be helpful to you as you choose, use and maintain your laboratory fume hood. If you have questions we haven't answered in this section, please contact your local Kewaunee sales representative.

Fume Hood Safety Checklist

- ☐ The hood is the correct type for the work to be performed.
- ☐ The airflow monitoring device indicates adequate airflow.
- ☐ There are no unnecessary chemicals or equipment in the fume hood.
- ☐ All chemicals and equipment are at least six inches behind the plane of the sash.
- ☐ All procedures are performed with the laboratory worker's head remaining outside the hood.
- ☐ Large equipment is placed on stands with legs.
- ☐ The sash is not above the safe operating height while the fume hood is in use.
- ☐ The sash is open only as far as needed.
- ☐ Safety equipment is close to the hood in case of fire or explosion.
- ☐ All laboratory workers are following the procedures outlined in these instructions, as well as any additional fume hood safety guidelines supplied by your laboratory safety manager.

KEWAUNEE® Scientific Corporation

Glossary of Hood Terms and Definitions

Access opening part of the fume hood or glove box through which work is performed - entrance.

ACGIH American Conference of Government Industrial Hygienists

Air foil curved or angular member at front of hood designed to reduce air turbulence.

Air volume quantity of air normally expressed in cubic feet per minute (cfm).

Anemometer instrument for measuring low air velocities.

ASHRAE American Society of Heating, Refrigerating and Air Conditioning Engineers

Auxiliary air air delivered directly to fume hood to reduce room air consumption — sometimes called supply or supplemental air.

Baffle panel or panels located at rear of the hood interior which aid in distributing the flow pattern of air into and through the hood.

By-pass hood hood which contains a by-pass and, usually, air foils — also called a constant volume hood.

CFM Cubic Feet per Minute — unit of air volume measurement.

Cross draft a flow of air that blows into or across the hood face.

Damper device installed in duct to control air volume — can either be pneumatically, electrically, or manually operated.

Differential Pressure difference in static pressure between two locations.

Duct round, square or rectangular tube used to enclose moving air.

Duct velocity speed of air moving in duct (measured in FPM).

Dynamic barrier by-pass a louvered front-to-back by-pass system located above the top sash that introduces by-pass air behind the operating sash plane to provide a buffer zone between the contaminated hood interior and the hood operator.

Face front opening of hood through which the user works.

Face velocity speed of air moving into fume hood at face opening usually expressed in units of feet per minute.

Fan air moving device consisting of a motor, impeller and housing – sometimes called a blower.

FPM Feet Per Minute – measurement of air velocity.

Fume hood a ventilated, enclosed work space, with an open front, intended to capture, contain and exhaust airborne contaminants generated within it — also called a laboratory hood.

LEV Hood Low Exhaust Volume Hood – sometimes called a high performance fume hood, are energy efficient fume hoods that contain when tested at 60 FPM or less with a sash full open.

Liner material used in the interior of the hood which is exposed to contaminants.

Louvered panel a panel with louvers to allow by-pass air to enter the hood when the sash is closed.

Make-up air free or available air needed to permit fume hood to develop face velocity.

Manometer device used to measure air pressure differential — usually calibrated in inches of water.

Negative Pressure pressures lower than atmospheric pressure.
(Less than one atmosphere.)

NFPA National Fire Protection Association

Glossary of Hood Terms and Definitions

OSHA Occupational Safety and Health Administration Government organization created to assure safe and healthful working conditions.

Perchloric Acid a colorless, syrupy hygroscopic liquid, $HClO_4$, used chiefly as a reagent in analytical chemistry. Explosively unstable when crystallize or when in contact with combustible materials at elevated temperatures.

Pitot tube device for measuring velocity of air in a duct.

Positive pressure pressures higher than atmospheric pressure. (More than one atmosphere.)

Restricted by-pass fume hood basic type of hood design with limited by-pass area. Commonly used in conjunction with "VAV" Variable Air Volume controls.

Safety shield horizontal sliding transparent panel at face of hood which the user places in front of his body to protect himself from small explosions inside of hood.

Sash movable panel set in hood face, usually transparent and can be either vertical rising or horizontal sliding.

SEFA Scientific Equipment & Furniture Association – an association founded to promote the scientific equipment and furniture industry and to improve the quality, safety and timely completion of laboratory facilities in accordance with customer requirements.

Side walls (End walls) The area between the interior hood liner, and the exterior end panel. (4" nominal dimension)

Smoke candle device producing large quantities of smoke for testing hoods — also called smoke bomb.

Static pressure air pressure exerted perpendicular to the direction of flow, usually expressed in units of inches of water.

Superstructure part of hood assembly that excludes work top, base cabinets, auxiliary air chamber, and plumbing and electrical fixtures.

Supplemental (supply) air air delivered directly to fume hood to reduce room air consumption — also called auxiliary air.

UFC Unified Facilities Criteria – a government program that unifies all technical criteria and standards pertaining to planning, design, construction, operation and maintenance of real property facilities.

V-Belt Drive Fan fan on which the motor is connected to the impeller wheel via, a v-belt, sheaves, and an impeller wheel shaft. Allows the impeller wheel speed to be varied by using a adjustable motor sheave.

Variable air volume (VAV) type of fume hood that utilizes controller to maintain constant face velocity by adjusting blower motor speed or balance damper in response to changes in sash position.

Velocity speed of air — measured in feet per minute.

Vertical Bypass An air management panel located within the hood structure designed to introduce air behind the operating sash plane to provide a buffer zone between the contaminated hood interior and the operator. Vertical bypasses are specifically designed for LEV hood use within a VAV system.

Walk-in hood floor-mounted, full height hood designed to accommodate tall apparatus and permit roll-in of instruments and equipment.

Notes:

Notes:

KEWAUNEE® Scientific Corporation

Numerical Index

Part Numbers			page
0476-BP			60
0490-BE	–	0490-SE	60
0491-BP	–	0491-GP	60
0492-BP	–	0492-GP	60
0493-BE	–	0493-SE	60
0499-BP	–	0499-SP	60
0767-00			72
0950-00			60
0951-00			60
0975-00			60
2B-2818-3K-M	–	2B-2818-80-S	72
BRSC200009-	–	BRSC350022-	71
F-9100-00			72
G05C202012L	–	G05W202048-	70
G08C322012L	–	G08W362048-	66
G35C322024L	–	G35W362048-	69
G68C322024L	–	G68W362048-	67
G80C322024L	–	G80W362048-	68
K12-2009-0A		K12-3522-0A	71
Option A1 - A2 - A3			52
Option B			57
Option C			53
Option D			53
Option E			57
Option G1 - G2 - G3			57
Option H			55
Option J			57
Option K			55
Option L			52
Option O1 & O2			54
Option P1			56
Option Q			54
Option R1-R3			56
Option S			53
Option S			55
Option T			54
Option U			55
Option W			57

Part Numbers			page
V05F282448GM-	–	V05F283696TS-	8-9
V06F282448GM-	–	V06F283696TS-	10-11
V0739A-		V0739W-	65
V07F312448GN-	–	V07F313696TN-	12-13
V10F282496GM-	–	V10F283644TS-	14-15
V11F282496GM-	–	V11F283644TS-	16-17
V15F282448GM-	–	V15F282496TS-	18-19
V16F282448GM-	–	V16F282496TS-	20-21
V25F282448GM-	–	V25F283696TS-	22-23
V25F352448GM-	–	V25F353696TS-	24-25
V26F282448GM-	–	V26F283696TS-	26-27
V26F352448GM-	–	V26F353696TS-	28-29
V30F282496GM-	–	V30F283644TS-	30-31
V30F352496GM-	–	V30F353644TS-	32-33
V3185A-	–	V3185W-	63
V36F282496GM-	–	V36F283644TS-	34-35
V36F352496GM-	–	V36F353644TS-	36-37
V40F282448SM-	–	V40F282496SS-	38-39
V4285A-	–	V4285W-	64
V45F282448LM-	–	V45F282472LS-	40-41
V65F642448GM-	–	V65F644896TS-	42-43
V66F642448GM-	–	V66F644896TS-	44-45
V67F682472GM-	–	V67F684844TS-	46-47
V90F632448GM-	–	V90F633696TS-	48-49
VBTL012448-	–	VBTS013644-	58-59
VCEM092448-	–	VCEM304844-	61
VFBM570148	–	VFBM920144	61
VHBL012448-	–	VHBS013696-	58-59
VHFL012448-	–	VHFS014820	58-59
VPCC061414-	–	VPCC061444-	69
VWSL011848-	–	VWSS012420-	58-59
X-WP0936-	–	X-WP3336-	71

Alphabetical Index

A
Accessories 71
Acid Storage Cabinets 68
ADA Combination Sash Hood 20
ADA Vertical Rising Sash Hood 18
Air Alert Fume Hood Monitor 52
Airfoil 54
Auto Sash Return 56

B
Baffle Design 6
Ball Valves - Rod Driven 64
Base Cabinets 66
Blower Switch 55

C
Canopy Hoods 72
Carts - Vacuum Pump 69
Ceiling Enclosures 61
Configuration 7
Cord Ports 56
Cupsink Cutouts 59
Cupsinks 60

D
Distillation Hood 48
Distillation Hood Base Cabinets 70
Distillation Rack 53

E
Electrical Fixtures 55
Explosion Proof Light 57

F
Face Velocity 6
Fan Switch 55
Features 2
Fillers 71
Finished Backs 62
Fire Suppression System 57
Flexible Vent 72
Floor Mounted Hoods 42
- Combination Sash 44
- Horizontal Sash 46
- Vertical Rising Sash 42

Front Load Service Fittings 65
Fume Hood Base Cabinets 66
Fume Hood Option Chart 50
Fume Hood Testing 86

G
General Purpose Bench Fume Hoods 8
- Combination Sash 10
- Horizontal Sash 12
- Split Combination Sash 16
- Split Vertical Sash 14
- Vertical Rising Sash 8

GFCI Electrical Fixtures 55
Glossary of Terms & Definitions 76
Guide to Fume Hood Selection 6

H
Hospital Grade Electrical Fixtures . . . 55

I
Isotope Bench Hood 38

K
Kemtruts 71

L
Laminated Safety Glass 57
Light 57
Liner Materials 7
Low Exhaust Volume Hoods 6
LX Series Fume Hoods
- Combination Sash - 28" 26
- Combination Sash - 35" 28
- Split Combination Sash -28" 34
- Split Combination Sash -35" 36
- Split Vertical Sash -28" 30
- Split Vertical Sash -35" 32
- Vertical Sash - 28" 22
- Vertical Sash - 35" 24

N
Needle Valves - Front Load 65
Needle Valves - Rod Driven 63

O
Option 01 & 02 54
Option A1 - A2 - A3 52
Option B1 & B2 57
Option C 53
Option D 53
Option E 57
Option G1 - G2 - G3 57
Option H_ 55
Option K 55
Option L 52
Option O & O1 54
Option P1 56
Option Q 54
Option R1 - R2 - R3 56
Option S 535
Option S_ 55
Option T 54
Option U 55
Option V 52
Option W 57

P
Part Number Explanation 4
Perchloric Acid Bench Hood 40
Polycarbonate Sash 57
Power Controller 72
Pre-piped 73
Pre-wired . . . . . 55 & 73
Proximity Sash Operator 56
Push Button Sash Operator 56

R
Recommended Work Practices 74

S
Safety Shield 53
Sash Arrangements 7
Sash Glass 57
Sash Pulls 54
Sash Stop Label 52
Selection Guide 3
Service Fittings 62
Sliding Safety Shield 53
Solvent Storage Cabinets 67
Special Purpose Hoods 7
Specification Grade Receptacles . . . 55
Stainless Steel Airfoil 54
Stainless Steel Duct Collar 53
Stainless Steel Sash Pulls 54

T
Tempered Safety Glass 57
Testing Facilities 86
Tissue Screen 54
Typical Fume Hood Installations 85

U
UL 61010A-1 Listed 55

V
Vacuum Pump Carts 69
Vacuum Pump Storage Cabinets . . . 69
Vapor Proof Light 57
Variable Power Controller 72
VAV Restricted Bypass 52
Vent Hole/Cutouts 59
Vents 72

W
Work Floor 58
Work Shelf Supports 57
Work Shelf 58
Work Tops . . . . . 7 & 58

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Typical Fume Hood Installations

Fume Hood Testing Facilities

Kewaunee's State-Of-The-Art
Fume Hood Testing Facility.
Statesville, North Carolina

Testing Protocols and Standards

ASHRAE 110 – 2016

ANSI / AIHA Z 9.5

EN 14175 – 3
(European Fume Hood Standard)

HAM
(Human as Mannequin) variant of **ASHRAE 110** (USEPA & UCal–Davis)

Our state-of-the-art testing facility is capable of duplicating most laboratory environments. It allows us to perform the rigorous testing protocols necessary to ensure safe performance of custom designs.

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