

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	•	•		•	•	•	•	•	•
Type 316L Stainless Steel Sash Frame	L									
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	•	•	•	•	•			•	•
Front Load Fittings TruView	F4									
Front Load Fittings ADA	F5									
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 (<i>one provided in each side post</i>)	P1	•	•	•	•	•	•	•	•	•
Work Shelf Supports	W									
Vapor Proof Light	B1	•	•	•	•	•	•	•	•	•
Explosion Proof Light	B2	•	•	•	•	•	•	•	•	•
Fan/Blower Switch (<i>1hp motor rated</i>)	K	•	•	•	•	•	•	•	•	•
Pre-wired/UL 61010A-1 (<i>to a single circuit</i>)	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		TruView Teaching						Floor Mounted					
		V30	V36	V40	V45	V50	V51	V52	V53	V55	V56	V57	V58	V65	V66	V67	V90
Kemglass Liner (1/4")	G	•	•			•	•	•	•	•	•	•	•	•	•	•	•
KMER Liner (1/4")	K	•	•										•	•	•	•	•
Type 316L S/S Liner (16 ga)	L	•	•		•								•	•	•	•	•
Type 304L S/S Liner (16 ga)	S	•	•	•									•	•	•	•	•
Phenolic Resin Liner (1/4")	T	•	•										•	•	•	•	•
Frameless Sash	N			•	•	•		•			•		•	•	•	•	•
Powder Coat Steel Sash Frame	G	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
Type 304L S/S Sash Frame	S	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
Type 316L S/S Frame	L				•												•
Laminated Safety Glass Sash	G1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tempered Glass Sash	G2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polycarbonate	G3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rod Ctrl Needle Valve Fittings	F1	•	•										•	•	•	•	•
Rod Ctrl Ball Valve Fittings	F2																
Front Load Fittings	F3	•	•	•	•								•	•	•	•	•
Front Load Fittings TruView	F4					•	•	•	•	•	•	•	•	•	•	•	•
Front Load Fittings ADA	F5						•	•				•	•				
Spec. GFCI Receptacles	S_	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hospital GFCI Receptacles	H_	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Variable Air Volume (VAV)	V	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air Alert 600 - Vertical Sash	A1	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air Alert 600 - Combo Sash	A2		•				•			•		•		•		•	
Air Alert 300 Alarm	A3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Sash Stop/Sash Open Label	L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Distillation Rack - Preparation	D	•	•			•	•	•	•	•	•	•	•	•	•	•	•
Fire Suppression System	E	•	•			•	•	•	•	•	•	•	•	•	•	•	•
Safety Shield	S	•	•	•	•								•	•	•	•	•
Tissue Screen	T	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cord Ports	P1	•	•														•
Work Shelf Supports	W												• ⁴	• ⁴	• ⁴		
Vapor Proof Light	B1	•	•	•	std	•	•	•	•	•	•	•	•	•	•	•	•
Explosion Proof Light	B2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Fan/Blower Switch	K	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pre-wired/UL 61010A-1	U/U2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Type 304L S/S Airfoil	O	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Type 316L S/S Airfoil	O2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Type 304L S/S Sash Pulls	Q	•	•	•	•	•	•	•	•	•	•	•	• ^a	• ^a	•	• ^a	•
Type 316L S/S Duct Collar	C	• ¹	• ¹	std	std	•	•	•	•	•	•	•	• ¹	• 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

^a Pulls on lower sash only
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

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

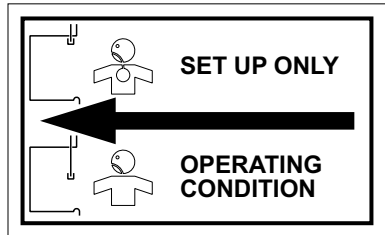


Air Alert 300 consists of a thermistor sensor mounted through the end wall of the hood, and a control monitor that gives both a visual and audible alarm. The alarm monitors the fume hood face velocity and sounds an alarm when the airflow falls below safe levels. A glowing green light signals when conditions 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

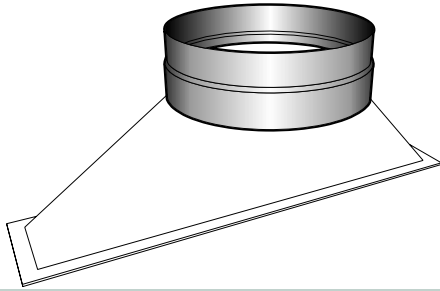


Label Size 2⁵/₈" x 1⁵/₈"

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.

Venturi Fume Hood Options

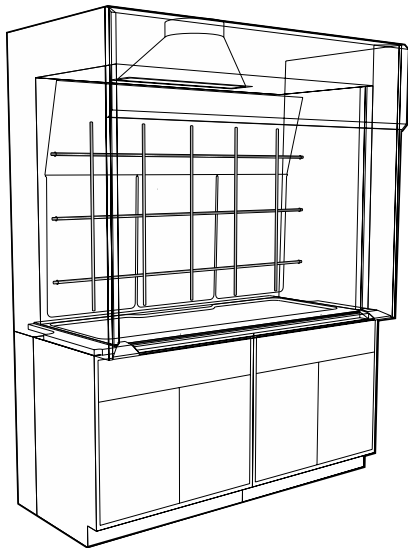
Stainless Steel Duct Collar – Option C



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)

Adds 4" to the height of plenum duct collar assembly.

Distillation Rack Preparation – Option D



See page 84 for Distillation Rack Part numbers for TruView hoods.

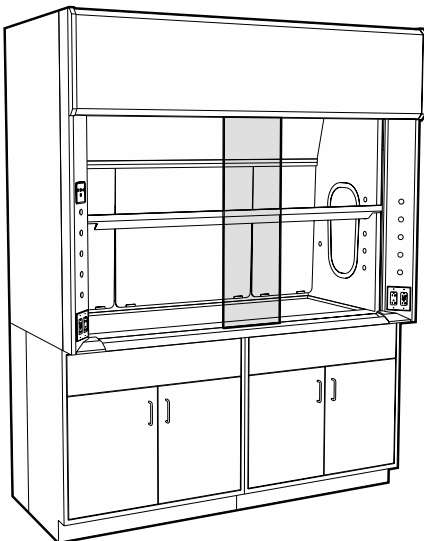
Venturi Fume Hoods may be prepared to accept a lattice style distillation rack. The rack consists of vertical and horizontal 1/2" diameter rods, fastened with rod clamps to form a lattice of approximate 12" squares. Rods are available in Stainless Steel, Duralumin, or Fiberglass Reinforced Polyester (FRP) rods.

Rod Assemblies must be Ordered Separately. (see below)

Type 304 Stainless Steel Rods		Hood Length	FRP Rods	
Bench Hoods 48"-60" High Interior	Floor & Distillation 80"-84" High Interior		Bench Hoods 48"-60" High Interior	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		Hood Length
Bench Hoods 48"-60" High Interior	Floor & Distillation 80"-84" High Interior	
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

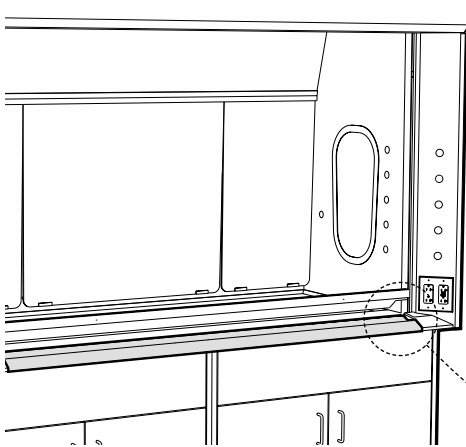


Sliding Safety Shield designed to provide protection to fume hood users from small explosions, splattering of chemicals, breaking glass, etc. Designed to be used on Vertical Rising Sash Bench Hoods only, this 12" wide x 1/4" thick polycarbonate shield slides the full length of the hood face opening on 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.

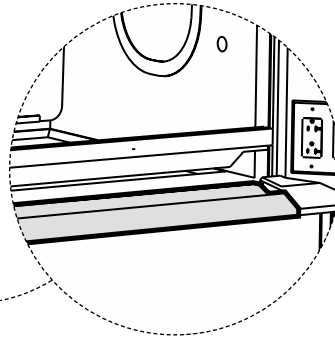
Venturi Fume Hood Options

Stainless Steel Airfoil – Option O & O2

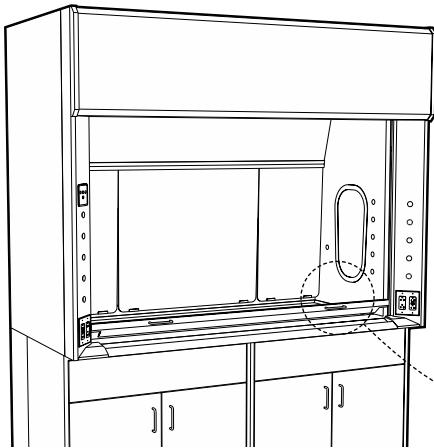


Stainless Steel Airfoil in lieu of standard powder coated steel airfoil.

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

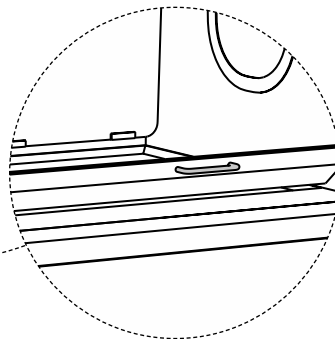


Stainless Steel Sash Pulls – Option Q

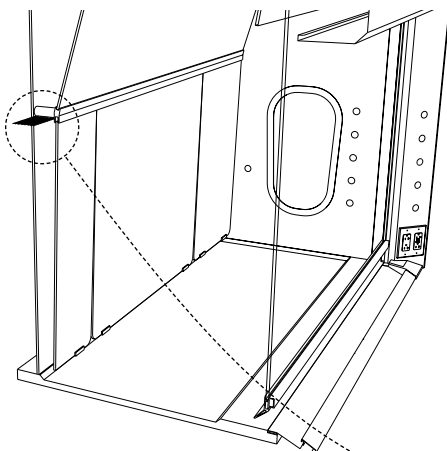


Stainless Steel Pulls integrated into spoiler shaped sash foil. (Type 304 Stainless Steel)

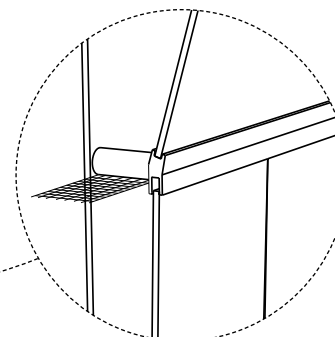
on lower sash only of floor mounted and distillation hoods



Tissue Screen – Option T



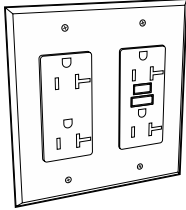
Tissue Screen protects the back baffle area just above the safety slot. Fabricated of perforated type 304 stainless steel, the screen blocks tissue and other light material from being swept up behind the upper baffle and into the exhaust system.



Venturi Fume Hood Options

Electrical Fixture Options

Specification Grade GFCI – Option S_

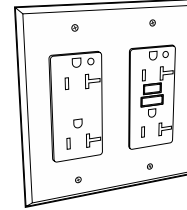


- SK** = GFCI Specification Grade – Black
- SV** = GFCI Specification Grade – Ivory
- SW** = GFCI Specification Grade – White
- SG** = GFCI Specification Grade – Grey
- SR** = GFCI Specification Grade – Red

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_

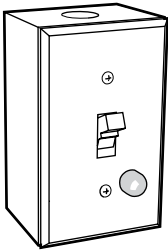


- HK** = GFCI Hospital Grade – Black
- HV** = GFCI Hospital Grade – Ivory
- HW** = GFCI Hospital Grade – White
- HG** = GFCI Hospital Grade – Grey
- HR** = GFCI Hospital Grade – Red

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 overload 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.

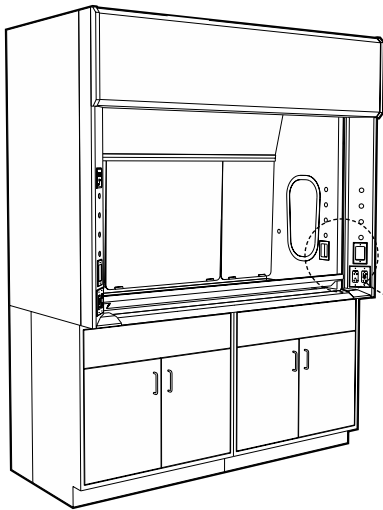
(see page 73 for more information)

U = Pre-wiring for hoods with standard LED lighting

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

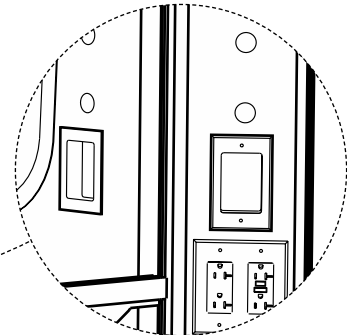
Venturi Fume Hood Options

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.

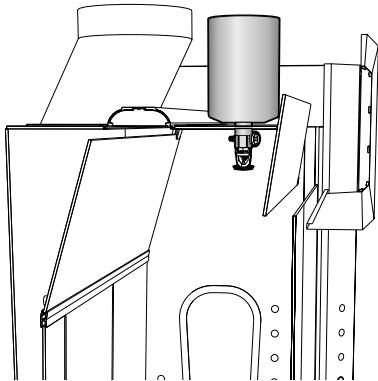
In addition to the motion sensor, a photoelectric sensor placed on the sash creates a light beam which scans the sash area for obstructions in the path of the sash. When an obstruction exists, the sash will halt its descent, and a warning light will signal that an obstruction exists.

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

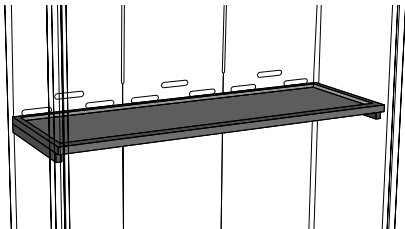
Fire Suppression System – Option E



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

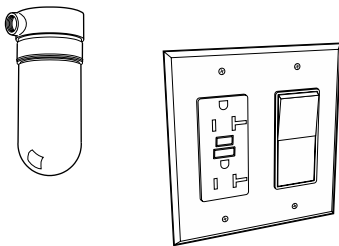


Venturi Floor Mounted Fume Hoods may be fitted with a removable Work Shelf mounted at 36" above the floor. The Work Shelf requires reinforcements in the fume end walls to attach the Work Shelf Cleats and

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

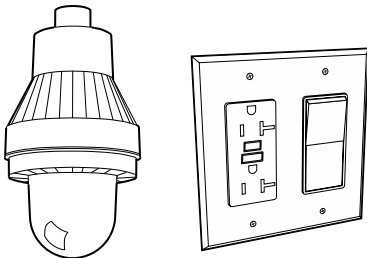


Option B1 replaces the standard LED light, light controller, and double GFCI double duplex receptacles on the left hand sash post with an 150 watt vapor proof light and a combination single duplex, 120 volt AC, 20 amp, GFCI receptacle and a single pole, 120/240 volt AC, 20 amp light switch.

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 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)

(Light switch is not explosion proof)

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.