

General Purpose Walk-In Fume Hood

with Vertical Rising Sash



Available Option:

Adjustable Baffles
Air Flow and Static Pressure Alarms
Service Fittings and Piping
Electrical Fixtures and Wiring
UL listed when pre-wired per UL 61010A-1
1805 UL classified with Kemglass, Stainless Steel, or Phenolic Resin liner
Vapor Proof and Explosion Proof Lighting
Stainless Steel Deflector Vane
Alternate Sash Handles
Sash Frame
Tempered Sash Glass
Tissue Screen
Fire Extinguisher
Distillation Rack
Sash Stop
Stainless Steel Duct Collar
Work Floor & Removable Work Shelf

Available Models:

Open By-Pass
Restricted By-Pass
Auxiliary Air

Features:

- Radiused corner posts and airfoils for smooth air movement assures high level of comfort, safety and efficiency.
- 4" thick endwalls provide more interior work space and clean-lined uncluttered design.
- Interior baffles designed to minimize turbulence and optimize containment.
- Frameless sashes with full-length formed steel handle for neat, clean appearance and streamline air features.
- Low profile PVC sash tracks and exclusive sash leveling and alignment features assure easy-smooth sash operation
- Large friction-fit interior access panels provide easy access to piping and service fittings.
- Heavy gauge cold rolled steel exterior panels with independent rigid structural frame.
- Designed and tested using ASHRAE 110-1995, BS 7258, and DIN 12 924 standards.

Supreme Air Fume Hood

H30

Specifications:

Supreme Air General Purpose Walk-In Fume Hoods are furnished with a choice of liner and baffles with upper, center, and lower exhaust slots. Each fume hood is complete with two counter-balanced, frameless sashes of 1/4" combination safety glass and

interior plumbing access panels. Hood exteriors are fabricated of cold rolled steel, phosphate coated with a baked chemical resistant, synthetic resin finish. The exhaust duct collar is polyethylene, 11¹⁵/₁₆" O.D. (8 foot hoods are furnished with two duct

collars.) Supreme Air Walk-In Hoods are available with either an Open By-Pass or a Restricted By-Pass for VAV use. An auxiliary air chamber is available for use on the Open By-Pass hood.

Additional Parts Required to Make Up a Complete Fume Hood Assembly

Optional Work Floor see page 59
Optional Work Shelf see page 50
Service Fittings see page 54
Fan/Blower see page 80

DIMENSIONS	HEIGHT	LENGTH				DEPTH
Overall Dimension	89 3/4"	48"	60"	72"	96"	36"
Sash Opening	28" *	40"	52"	64"	88"	...
Optional Work Shelf	37"	40"	52"	64"	88"	24 1/2"
Clearance (sash up)	103"	...	...	...	...	...

* Upper sash opening height above lower sash. Add 1" in height to calculate sash opening area.

Overall Hood Length	Sash Opening Sq. Ft.	Total CFM and Static Pressure					
		80 FPM	S.P.	100 FPM	S.P.	120 FPM	S.P.
4'-0" / 48"	8.1 *	650	0.15"	810	0.25"	980	0.35"
5'-0" / 60"	10.5 *	840	0.20"	1050	0.30"	1260	0.45"
6'-0" / 72"	12.9 *	1040	0.25"	1290	0.40"	1550	0.60"
8'-0" / 96"	17.7 *	1420	0.15"	1770	0.25"	2130	0.35"

* Includes Upper Sash Opening only and 1" opening below lower sash.

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.

Note: CFM requirements shown above are for **Open By-Pass** hoods. The CFM requirements for a **Restricted By-Pass** hood with the sash fully open is the same as above. The by-pass opening with the sash closed is 20% of that with the sash fully open.

Accessories Include: Two 120 volt AC 20 amp GFI receptacles, single-tube, T-5 fluorescent light fixture with bulb and 20 amp light switch. **No wiring for the electrical fixtures is included unless H-Option is selected.**

Optional Accessories: Each front post and interior end liner is punched for up to five (5) remote control service fittings. The right hand post is punched for a second electrical fixture at the top which may be used for a fan switch or other electrical device. **Service fittings, fan, fan switch, optional work floor, and removable work shelf must be ordered separately.**

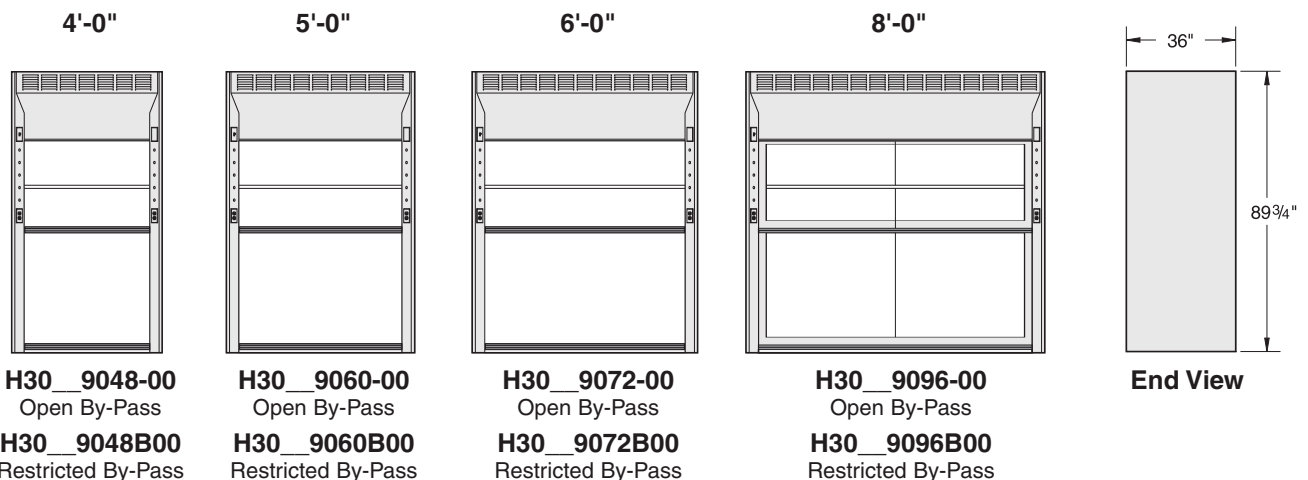
Liner Options:

- T** = Phenolic Resin
- G** = Kemglass
Fiberglass reinforced polyester
- K** = KMER
Kewaunee Modified Epoxy Resin
- S** = Type 304 Stainless Steel

The blank left in the fume hood catalog numbers is for designating the desired lining.

Example: H30T5448-00 would designate a 4' hood with a Phenolic Resin lining.

General Purpose Walk-In Fume Hoods — Vertical Rising Sash



8' Walk-In Hood available with framed sash only.

Auxiliary Air

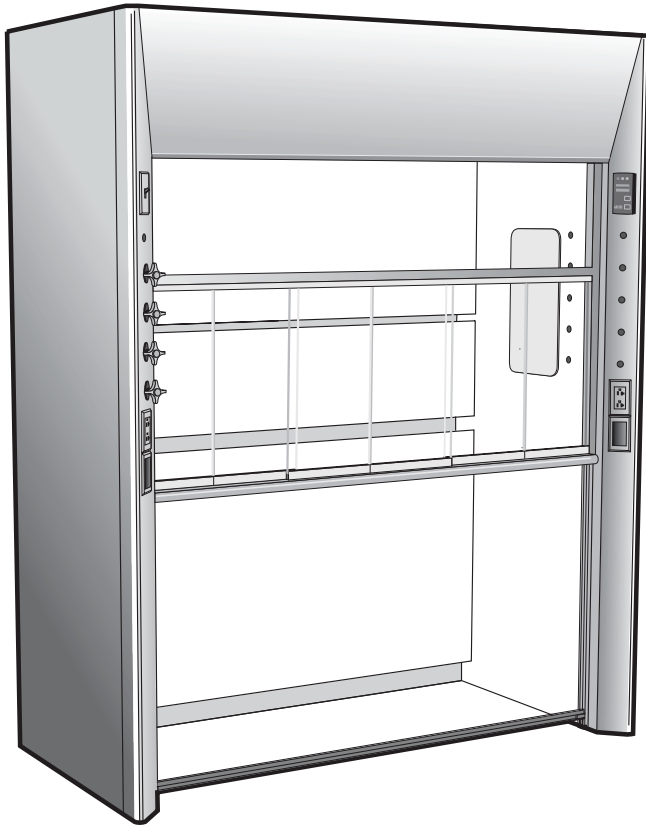
All Open By-Pass hoods can be Auxiliary Air hoods by adding an Auxiliary Air Chamber. See page 43 for catalog numbers.

Note: See page 44 for chart of available options.

Note: Open By-Pass Fume Hood shown. Restricted By-Pass Fume Hoods do not have louvered top front panel.

Ultra Low Constant Volume Fume Hood

with Low-flow Combination Vertical Rising/Horizontal Sash



Available Models:
Dynamic Barrier By-Pass

Available Option:

Service Fittings and Piping
Electrical Fixtures and Wiring
UL listed when pre-wired per UL 61010A-1
1805 UL classified with Kemglass, Stainless Steel, or Phenolic Resin liner
Lighting
Stainless Steel Deflector Vane
Tempered Sash Glass
Tissue Screen
Fire Extinguisher
Distillation Rack
Stainless Steel Duct Collar
Removable Work Shelf

Features:

- Requires over 60 percent less exhaust air volume than a traditional by-pass fume hood.
- Extra large vertical sash design allows full view into hood interior and 73" opening height for apparatus setup.
- Radiused corner posts and airfoils for smooth air movement assures high level of comfort, safety and efficiency.
- 4" thick endwalls provide more interior work space and clean-lined uncluttered design.
- Low profile sash frame for easy access through horizontal panels.
- Service ports provide convenient, safe passage for equipment connections.
- Exclusive Air Alert 600 Monitor provides a visual one-hour timeline of fume hood performance.
- Exclusive static pressure averaging mechanism provides accurate face velocity readings regardless of sash opening.
- Quiet fume hood operation, under 40 dBA with properly sized fans and ductwork.
- Designed and tested using ASHRAE 110-1995, BS 7258, and DIN 12 924 standards.

Dynamic Barrier Fume Hood

H52

Specifications:

Dynamic Barrier Supreme Air Walk-In Fume Hoods are furnished with a choice of liner and baffles with center and lower exhaust slots and interior plumbing access panels. Each fume hood is complete with a counter balanced, extra large, low-flow narrow framed upper sash with six horizontal panels,

and a frameless lower sash of 1/4" combination safety glass, and an Air Alert 600 Monitor with static pressure averaging. Hood exteriors are fabricated of cold rolled steel, phosphate coated with a baked chemical resistant, synthetic resin finish. The exhaust duct collar is

polyethylene, 7¹⁵/₁₆" O.D. (8 foot hoods are furnished with two duct collars.)

Dynamic Barrier Supreme Air Walk-In Hoods are not designed for use with auxiliary air chambers.

Additional Parts Required to Make Up a Complete Fume Hood Assembly

- Optional Work Floor see page 50
- Optional Work Shelf see page 50
- Service Fittings see page 54
- Fan/Blower see page 80

DIMENSIONS	HEIGHT	LENGTH				DEPTH
Overall Dimension	89 3/4"	48"	60"	72"	96"	36"
Sash Opening	37"	40"	52"	64"	88"	...
Optional Work Shelf	37"	40"	52"	64"	88"	24 1/2"
Clearance (sash up)	113"	...	...	...	...	...

Liner Options:

- T = Phenolic Resin
- G = Kemglass
Fiberglass reinforced polyester
- K = KMER
Kewaunee Modified Epoxy Resin
- S = Type 304 Stainless Steel

The blank left in the fume hood catalog numbers is for designating the desired lining.

Example: H52T5448-00 would designate a 4' hood with a Phenolic Resin lining.

Overall Hood Length	Maximum Face Opening of Horizontal Sashes				Face Opening with Vertical Sash at 10" Sash Stop				Total CFM and Static Pressure	
	W	H	Ft ² *	Velocity	W	H	Ft ² *	Velocity	CFM	S.P.
4'-0" / 48"	14 ¹ / ₂ "	22"	3.00	100 fpm	40"	10"	3.53	85 fpm	300	0.17"
5'-0" / 60"	18"	22"	4.00	100 fpm	52"	10"	4.81	85 fpm	400	0.23"
6'-0" / 72"	22"	22"	5.00	100 fpm	64"	10"	5.94	85 fpm	500	0.37"
8'-0" / 96"	30"	22"	6.75	100 fpm	88"	10"	8.01	85 fpm	675	0.20"

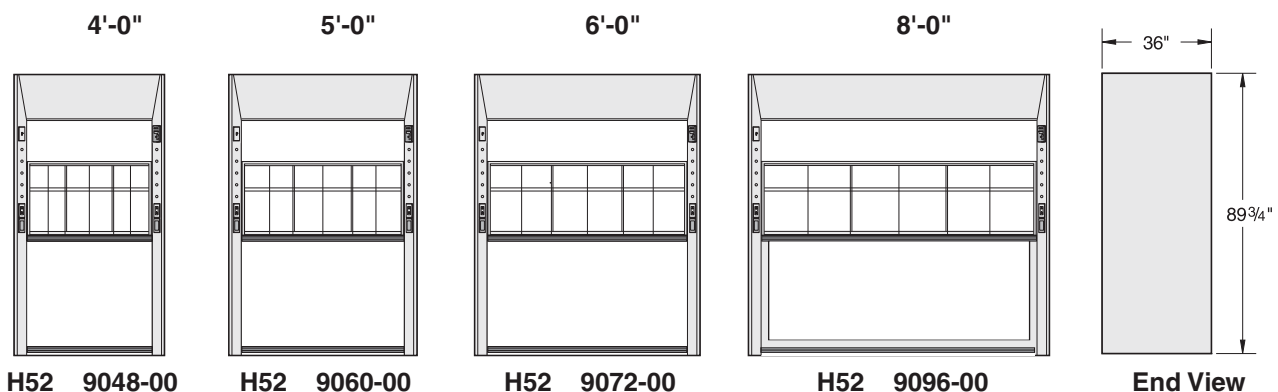
* Includes free area contributions from sash clearance spaces and by-pass opening.

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.

Accessories Include: Two 120 volt AC 20 amp GFI receptacles, single-tube, T-5 fluorescent light fixture with bulb and 20 amp light switch, Air Alert 600 Air Flow Monitor and two cord ports. **No wiring for the electrical fixtures is included unless H-Option is added to part number.**

Optional Accessories: Each front post and interior end liner is punched for up to five (5) remote control service fittings. **Service fittings, fan, fan switch, optional work floor and work shelf must be ordered separately.**

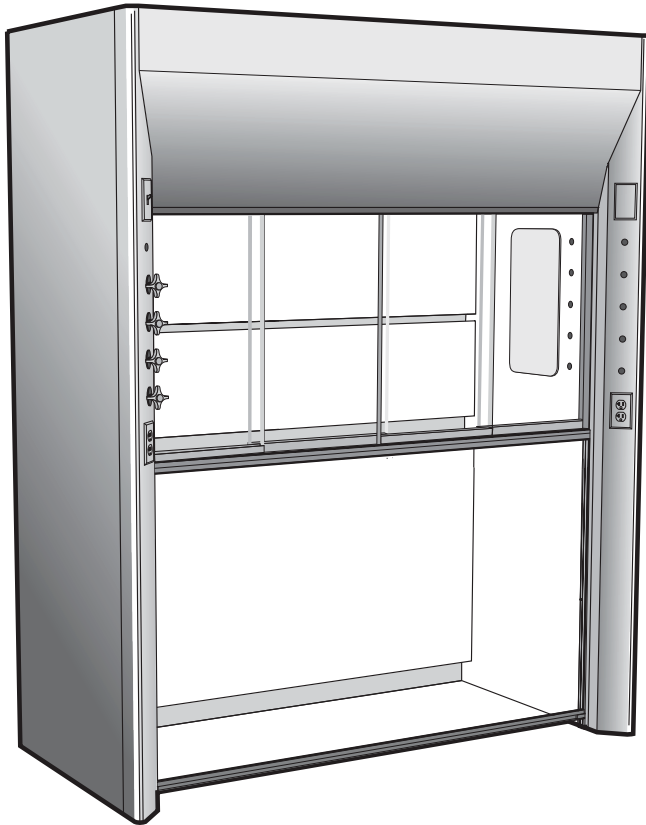
Dynamic Barrier Walk-In Fume Hoods — Low-flow Combination Vertical Rising/Horizontal Sash



Note: See page 44 for chart of available options.

Combination Sash – Walk-In Fume Hood

with Combination Vertical Rising/Horizontal Sash



Available Option:

- Adjustable Baffles
- Air Flow and Static Pressure Alarms
- Service Fittings and Piping
- Electrical Fixtures and Wiring
- UL listed when pre-wired per UL 61010A-1
- 1805 UL classified with Kemglass, Stainless Steel, or Phenolic Resin liner
- Vapor Proof and Explosion Proof Lighting
- Stainless Steel Deflector Vane
- Sash Frame
- Tempered Sash Glass
- Tissue Screen
- Fire Extinguisher
- Distillation Rack
- Sash Stop
- Stainless Steel Duct Collar
- Work Floor & Removable Work Shelf

Available Models:

Restricted By-Pass

Open By-Pass
(by special request only)

Features:

- Radiused corner posts and airfoils for smooth air movement assures high level of comfort, safety and efficiency.
- 4" thick endwalls provide more interior work space and clean-lined uncluttered design.
- Interior baffles designed to minimize turbulence and optimize containment.
- Narrow framed upper sash with four horizontal glass panels on two tracks, frameless lower sash with full-length formed steel handle for neat, clean appearance and streamline air features.
- Low profile PVC sash tracks and exclusive sash leveling and alignment features assure easy-smooth sash operation
- Large friction-fit interior access panels provide easy access to piping and service fittings.
- Heavy gauge cold rolled steel exterior panels with independent rigid structural frame.
- Designed and tested using ASHRAE 110-1995, BS 7258, and DIN 12 924 standards.

Supreme Air Fume Hood

H32

Specifications:

Supreme Air Combination Sash Walk-In Fume Hoods are furnished with a choice of liner and baffles with upper, center, and lower exhaust slots. Each fume hood is complete with a counter balanced, narrow framed upper sash with horizontal panels, and a frameless lower sash of 1/4" combination safety glass and interior plumbing access panels. Hood exteriors are fabricated

of cold rolled steel, phosphate coated with a baked chemical resistant, synthetic resin finish. The exhaust duct collar is polyethylene, 1 15/16" O.D. (8 foot hoods are furnished with two duct collars.)

Combination Sash Walk-In Hoods are furnished with a Restricted By-Pass to match the restricted sash opening. They are designed for use with both constant volume and VAV applications. An Open By-Pass is available on request for applications where the hood is operated with the sash fully open. Combination Sash Walk-In Hoods are not designed for use with Auxiliary Air Chambers.

Additional Parts Required to Make Up a Complete Fume Hood Assembly

- Optional Work Floor** see page 50
- Optional Work Shelf** see page 50
- Service Fittings** see page 54
- Fan/Blower** see page 80

Liner Options:

- T** = Phenolic Resin
- G** = Kemglass
Fiberglass reinforced polyester
- K** = KMER
Kewaunee Modified Epoxy Resin
- S** = Type 304 Stainless Steel

The blank left in the fume hood catalog numbers is for designating the desired lining.

Example: H32T5448B00 would designate a 4' hood with a Phenolic Resin lining.

DIMENSIONS	HEIGHT	LENGTH				DEPTH
Overall Dimension	89 3/4"	48"	60"	72"	96"	36"
Sash Opening	28" *	40"	52"	64"	88"	...
Optional Work Shelf	37"	40"	52"	64"	88"	24 1/2"
Clearance (sash up)	103"	...	...	...	...	...

* Upper sash opening height above lower sash.

Overall Hood Length	Sash Opening Sq. Ft. *	Total CFM and Static Pressure					
		80 FPM	S.P.	100 FPM	S.P.	120 FPM	S.P.
4'-0" / 48"	4.8	380	0.05"	480	0.10"	580	0.15"
5'-0" / 60"	6.3	500	0.10"	630	0.15"	760	0.20"
6'-0" / 72"	7.8	620	0.10"	780	0.15"	940	0.25"
8'-0" / 96"	10.9	870	0.10"	1090	0.10"	1310	0.15"

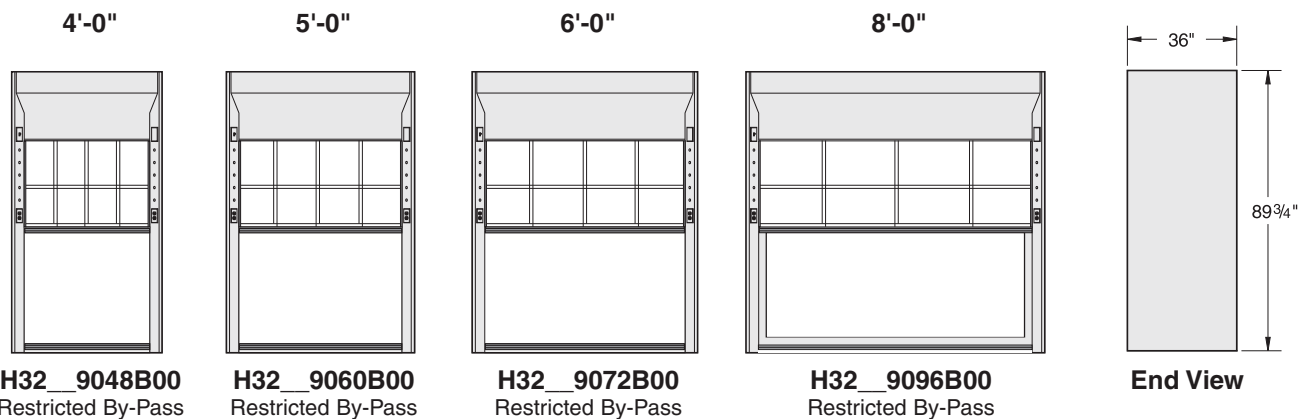
* Maximum sash opening with vertical sash down and horizontal panels fully open. Includes By-Pass opening and 1" below deflector vane.

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.

Accessories Include: Two 120 volt AC 20 amp GFI receptacles, single-tube, T-5 fluorescent light fixture with bulb and 20 amp light switch. **No wiring for the electrical fixtures is included unless H-Option is selected.**

Optional Accessories: Each front post and interior end liner is punched for up to five (5) remote control service fittings. The right hand post is punched for a second electrical fixture at the top which may be used for a fan switch or other electrical device. **Service fittings, fan, fan switch, optional work floor, and removable work shelf must be ordered separately.**

Combination Sash Walk-In Fume Hoods — Combination Vertical Rising/Horizontal Sash



Open By-Pass by special request

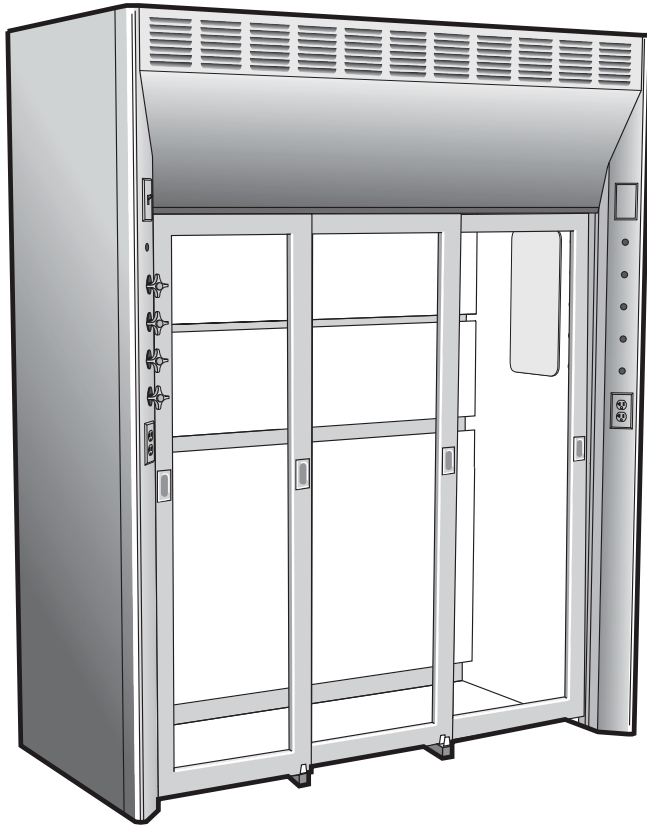
8' Walk-In Hood available with framed sash only.

Note: See page 44 for chart of available options.

Note: Restricted By-Pass Fume Hood shown. Open By-Pass Fume Hoods have louvered top front panel.

Horizontal Sash – Walk-In Fume Hood

with Three Panel Horizontal Sash



Available Models: Restricted By-Pass

Available Option:

Adjustable Baffles
Air Flow and Static Pressure Alarms
Service Fittings and Piping
Electrical Fixtures and Wiring
UL listed when pre-wired per UL 61010A-1
1805 UL classified with Kemglass, Stainless Steel, or Phenolic Resin liner
Vapor Proof and Explosion Proof Lighting
Stainless Steel Deflector Vane
Stainless Steel Sash Frame
Tempered Sash Glass
Tissue Screen
Fire Extinguisher
Distillation Rack
Sash Stop
Stainless Steel Duct Collar
Work Floor & Removable Work Shelf

Features:

- Radiused corner posts and airfoils for smooth air movement assures high level of comfort, safety and efficiency.
- 4" thick endwalls provide more interior work space and clean-lined uncluttered design.
- Interior baffles designed to minimize turbulence and optimize containment.
- Three panel framed sash, hung from full length triple track overhead carrier on nylon rollers for smooth operation and easy access.
- Large friction-fit interior access panels provide easy access to piping and service fittings.
- Heavy gauge cold rolled steel exterior panels with independent rigid structural frame.
- Designed and tested using ASHRAE 110-1995, BS 7258, and DIN 12 924 standards.

Supreme Air Fume Hood

H34

Specifications:

Supreme Air Horizontal Sash Walk-In Fume Hoods are furnished with a choice of liner and baffles with upper, center, and lower exhaust slots. Each fume hood is complete with three panel framed sash of 1/4" combination safety glass, hanging

on a triple track overhead carrier and interior plumbing access panels. Hood exteriors are fabricated of cold rolled steel, phosphate coated with a baked chemical resistant, synthetic resin finish. They are furnished with two

polyethylene exhaust duct collars, 1 1/16" O.D.

Supreme Air Horizontal Sash Walk-In Fume Hoods are available with a Restricted By-Pass only. They may be used either with or without a VAV system.

Additional Parts Required to Make Up a Complete Fume Hood Assembly

Optional Work Floor see page 50
Optional Work Shelf see page 50
Service Fittings see page 54
Fan/Blower see page 80

DIMENSIONS	HEIGHT	LENGTH			DEPTH
Overall Dimension	89 3/4"	72"	96"	120"	36"
Sash Opening	67 3/4"	41"	57"	73"	...
Optional Work Shelf	37"	64"	64"	112"	22 1/2"

Liner Options:

- T** = Phenolic Resin
- G** = Kemglass
Fiberglass reinforced polyester
- K** = KMER
Kewaunee Modified Epoxy Resin
- S** = Type 304 Stainless Steel

The blank left in the fume hood catalog numbers is for designating the desired lining.

Example: H34T5472-00 would designate a 6' hood with a Phenolic Resin lining.

Overall Hood Length	Sash Opening Sq. Ft.	Total CFM and Static Pressure					
		80 FPM	S.P.	100 FPM	S.P.	120 FPM	S.P.
6'-0" / 72"	22.1 *	1770	0.35"	2210	0.50"	2650	0.70"
8'-0" / 96"	30.7 *	2460	0.45"	3070	0.70"	3680	1.00"
10'-0" / 120"	39.3 *	3140	0.65"	3930	1.00"	4710	1.40"

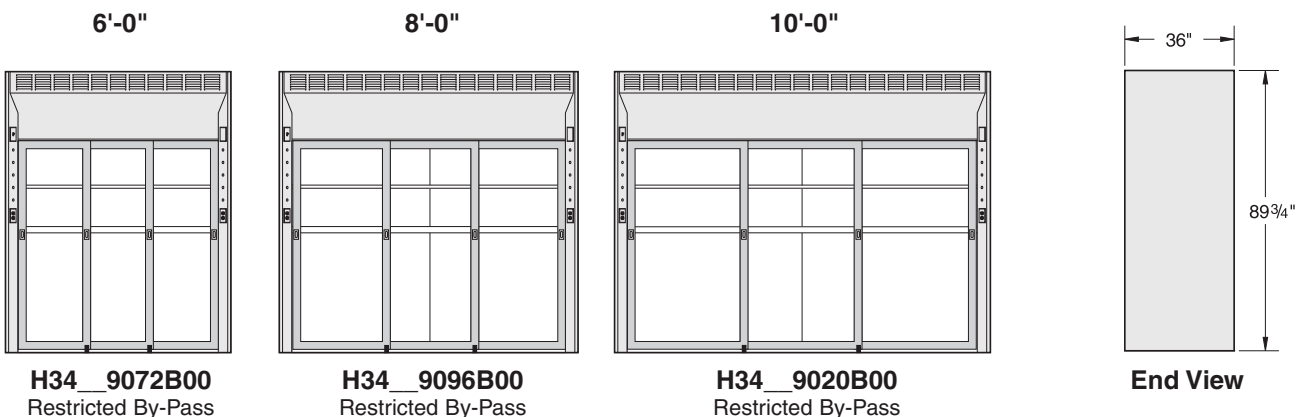
* Maximum sash opening plus By-Pass opening and 1" opening below sash.

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.

Accessories Include: Two 120 volt AC 20 amp GFI receptacles, single-tube, T-5 fluorescent light fixture with bulb and 20 amp light switch. **No wiring for the electrical fixtures is included unless H-Option is selected.**

Optional Accessories: Each front post and interior end liner is punched for up to five (5) remote control service fittings. The right hand post is punched for a second electrical fixture at the top which may be used for a fan switch or other electrical device. **Service fittings, fan, fan switch, optional work floor and removable work shelf must be ordered separately.**

Horizontal Sash Walk-In Fume Hood — With Three Panel Horizontal Sash



Consult your Kewaunee representative or the factory for other sash arrangements.

Note: See page 44 for chart of available options.