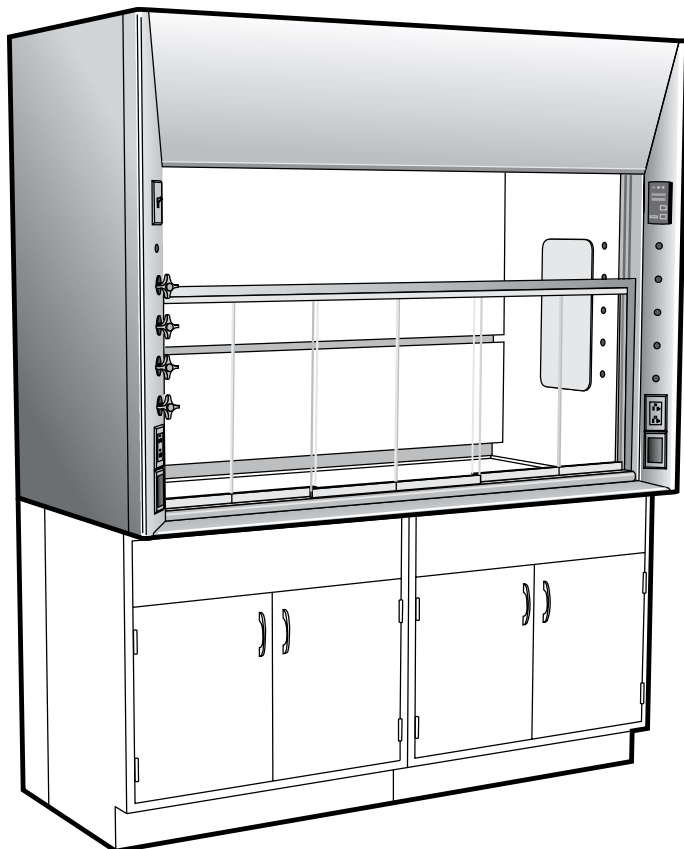


# Ultra Low Constant Volume Fume Hood

with Telescoping 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  
or Stainless Steel liner  
Lighting  
Stainless Steel Deflector Vane  
Tempered Sash Glass  
Tissue Screen  
Fire Extinguisher  
Distillation Rack  
Stainless Steel Duct Collar

## Features:

- Requires over 70 percent less exhaust air volume than a traditional by-pass fume hood.
- Double telescoping vertical sash design allows full view into hood interior and 37" 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

# H50

## Specifications:

Dynamic Barrier Supreme Air Bench Fume Hoods are furnished with a choice of liner and baffles with center and lower exhaust slots. Each fume hood is complete with a lower deflector vane, lower sash frame fitted with six 1/4" combination safety glass

panels, interlocking upper frameless 1/4" combination safety glass sash, 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, 7<sup>15</sup>/<sub>16</sub>" O.D. (8 foot hoods are furnished with two duct collars.)

Dynamic Barrier Supreme Air Bench Hoods are not designed for use with auxiliary air chambers.

## Additional Parts Required to Make Up a Complete Fume Hood Assembly

Work Top	see page 49
Base Cabinets	see page 63
Service Fittings	see page 54
Cupsink	see page 53
Fan/Blower	see page 82

## Liner Options:

- T** = Phenolic Resin  
**G** = Kemglass  
 Fiberglass reinforced polyester  
**S** = Type 304 Stainless Steel

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

**Example:** H50T5448-00 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	37"	40"	52"	64"	88"	...
Work Top	37" *	40"	52"	64"	88"	25 1/2"
Clearance (sash up)	98 3/4" *	...	...	...	...	...

\* Subtract 1" in height if wood base cabinets are used.

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 <sup>2</sup> *	Velocity	W	H	Ft <sup>2</sup> *	Velocity	CFM	S.P.
4'-0" / 48"	14 1/2"	22"	2.25	100 fpm	40"	10"	2.78	81 fpm	225	0.11"
5'-0" / 60"	18"	22"	2.80	100 fpm	52"	10"	3.61	80 fpm	280	0.15"
6'-0" / 72"	22"	22"	3.50	100 fpm	64"	10"	4.44	80 fpm	350	0.21"
8'-0" / 96"	30"	22"	4.85	100 fpm	88"	10"	6.11	80 fpm	485	0.11"

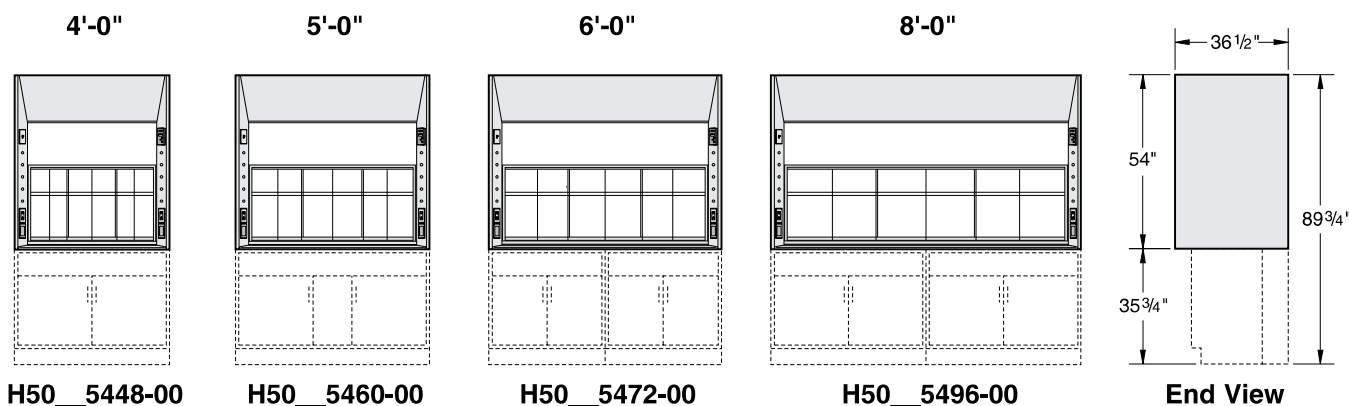
\* Includes free area contributions from sash clearance spaces and by-pass opening.

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, work top, cupsink, and base units must be ordered separately.**

## Dynamic Barrier Bench Fume Hoods — Telescoping Combination Vertical Rising/Horizontal Sash



**Note:** See page 44 for chart of available options.