



Thermo Scientific Hamilton Concept[®] Laboratory Fume Hood

Innovative fume hood safety,
performance and styling

Thermo Scientific Hamilton Concept unique features:

- 35" sash viewing height provides improved viewing
- Thermo Scientific Hamilton AutoSash® automatic sash positioning system locates the sash for face and upper body protection
- Improved combination sash provides comfortable access at the work surface
- Low profile airfoil
- Secondary trough
- Chain drive sash counterbalance system
- Preset baffle system – no adjustment required
- Polyresin interior liner
- 60 to 100 FPM face velocities
- Extensive size offering



UL 1805 is a standard that defines requirements specific to laboratory fume hoods. The standard covers construction, materials, flammability and containment performance. The Thermo Fisher Scientific test facility is certified to test fume hoods for UL 1805 compliance.



Downdraft Bypass

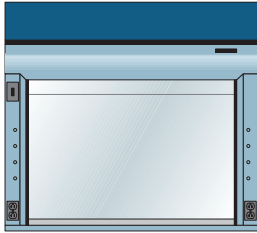
Air flows through the bypass area with increased volume and less resistance for quieter operation.



Bypass Vertical Rising - Unframed Sash

Add the following suffix to product numbers for side panel requirements:

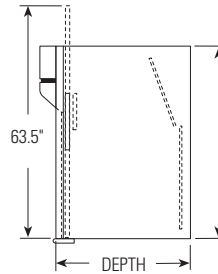
U = Without side panels
L = Left side only
R = Right side only
B = Both sides



Bypass and Restricted Bypass vertical rising sash

Product Numbers

31.25" Depth*	37.25" Depth	43.25" Depth	Width
54L2570PO	61L2570PO	62L2570PO	48"
54L2571PO	61L2571PO	62L2571PO	60"
54L2572PO	61L2572PO	62L2572PO	72"
54L2573PO	61L2573PO	62L2573PO	84"
54L2574PO	61L2574PO	62L2574PO	96"



Restricted Bypass Vertical Rising - Unframed Sash

Product Numbers

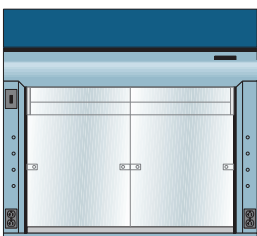
31.25" Depth*	37.25" Depth	43.25" Depth	Width
54L2750PO	61L2750PO	62L2750PO	48"
54L2751PO	61L2751PO	62L2751PO	60"
54L2752PO	61L2752PO	62L2752PO	72"
54L2753PO	61L2753PO	62L2753PO	84"
54L2754PO	61L2754PO	62L2754PO	96"



AutoSash Automatic Positioning System

The sash locks in the setup position and automatically returns to the maximum operational height when the lock is released.

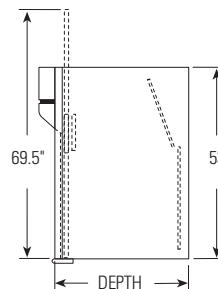
Restricted Bypass Combination Sash

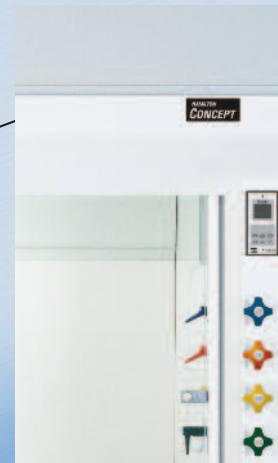


Restricted Bypass combination sash

Product Numbers

31.25" Depth*	37.25" Depth	43.25" Depth	Width
54L750PB	61L2750PB	62L2750PB	48"
54L751PB	61L2751PB	62L2751PB	60"
54L752PB	61L2752PB	62L2752PB	72"
54L753PB	61L2753PB	62L2753PB	84"
54L754PB	61L2754PB	62L2754PB	96"





35" High Sightline
Optimum visibility of the hood interior.

Secondary Trough
Additional safeguard for the containment of spills not secured by a dished work surface



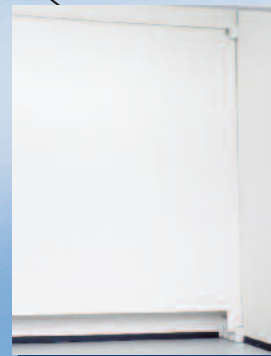
Low Profile Airfoil
Ergonomically designed to provide obstruction free access to the hood interior.



Improved Combination Sash
Top hung frameless sash panels with ball-bearing rollers for smooth operation. The reduced frame profile with a radiused bottom edge provides maximum interior visibility and minimum turbulence.



Chain & Sprocket Sash Support System
The counterbalance system features a chain and sprocket sash support system with alignment shaft and sash leveling system.



Fixed Baffle System
The baffle system requires no adjustment—it's factory tuned for optimal airflow characteristics.

Thermo Scientific Hamilton Concept Specifications

The fume hood shall be UL 1805 Classified, feature the UL 1805 label on the hood face and have been tested to the ASHRAE 110 Standard with a containment rating of 4.0AM 0.05PPM. The baffles shall be fixed to maximize the capture and airflow inside the fume hood while minimizing static pressure and noise levels. The sash shall be controlled by a single counterbalance, connected with a chain link system. This system must allow for adjustment. The sight line for this hood is 35" high. Sash shall lower automatically and stop at the 18" opening when released from full-open. A toggle lock has been installed to secure the sash at the full-open position while loading or unloading the fume hood. The sash shall be available as a frameless vertical rising sash or a top hung combination sash. The top hung combo sash utilizes a narrow frame and bottom rail to offer more viewing area and ease of access. The sash airfoil has a low profile to facilitate ease of access to the worksurface with room for electrical cords to fit beneath it.

These hoods are available in: 4, 5, 6, 7, and 8-foot widths, and depths of 31.25", 37.24" and 43.25".

Technical Data

With vertical sash

Hood Width	Exhaust Volume	Vertical Sash Opening Height	Face Velocity	Static Pressure	Exhaust Collar Size
48"	484	18* 28.5	100 60	.09"	6" x 15"
60"	634	18* 28.5	100 60	.09"	6" x 23"
72"	784	18* 28.5	100 60	.13"	6" x 23"
84"	934	18* 28.5	100 60	.15"	6" x 26"
96"	1084	18* 28.5	100 60	.09"	6" x 30"

*28-1/2" and 24" opening is for setup only, operating position is an 18" high sash opening.

With combination sash

Hood Width	Exhaust Volume	Sash Opening			Face Velocity		Static Pressure	Exhaust Collar Size
		Vertical Sash Height	Horizontal Sash Opening	Sliding Sash Panels	Vertical**	Horizontal		
48"	400	18* 24	27 x 17.375	2	80 60	100	.07"	6" x 15"
60"	540	18* 24	27 x 23.375	2	80 60	100	.07"	6" x 23"
72"	650	18* 24	27 x 28.250	4	80 60	100	.11"	6" x 23"
84"	790	18* 24	27 x 34.250	4	80 60	100	.13"	6" x 26"
96"	930	18* 24	27 x 40.250	4	80 60	100	.07"	6" x 30"

**Vertical face velocities – nominal.



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