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Fume Hoods

BROCHURE



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Fume Hood 110

Single-Sided Fume Hood, Bench-Mounted

Fume Hoods 110 is a bench-mounted, single-sided fume hood designed for everyday laboratory applications requiring dependable containment, clear visibility, and efficient use of space. The streamlined posts, radiused airfoil, and 36-inch high viewing area create a softer visual profile compared to conventional laboratory fume hoods.
Flow 110 features a full-frame steel construction with a durable powder-coated finish engineered for long-term laboratory use. The frameless sash design and flush-mounted airfoil improve visibility while promoting smooth airflow across the work surface. A chain-and-sprocket sash drive provides balanced, reliable operation, while the high viewing area enhances user comfort and safety. Designed to support both constant volume (CV) and variable air volume (VAV) systems, Flow 110 integrates seamlessly into new construction and renovation projects alike.

Design & Construction

Fume Hoods 110 features a full-frame steel construction with a durable powder-coated finish engineered for long-term laboratory use. The frameless sash design and flush-mounted airfoil improve visibility while promoting smooth airflow across the work surface. A chain-and-sprocket sash drive provides balanced, reliable operation, while the high viewing area enhances user comfort and safety.

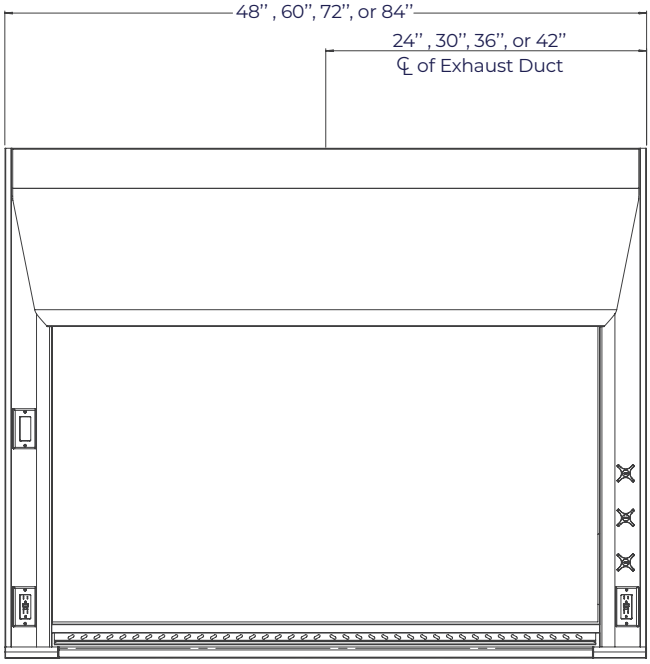


Fume Hood 110

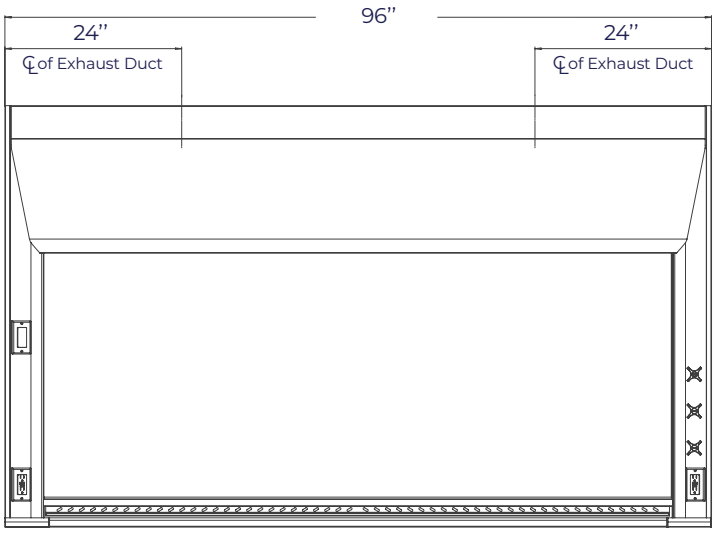
- Designed for CV or VAV systems
- Optimal interior working depth
- Chain and sprocket shaft drive sash
- 10" Round SS Duct Collar(s)
- Full Frame Construction
- Powder Coated Finish
- UL1805 Listed
- Flush mount airfoil
- LED Lights
- Full-length finger lift
- Knock down ready
- 36" High Sightline
- Frameless Sash

Available Sizes

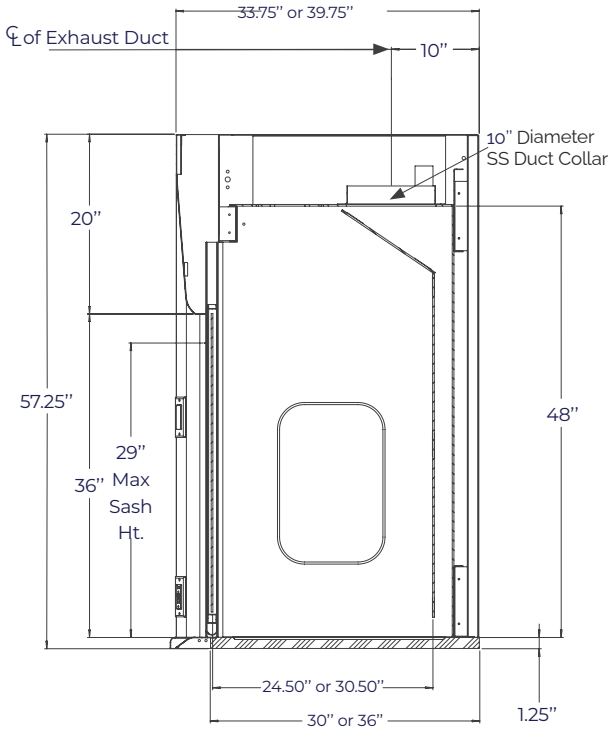
Widths: 48", 60", 72", 96"
Depths: 30" or 36"
Height: 57 ¼"



Fume Hood 110 48" - 72" Front View



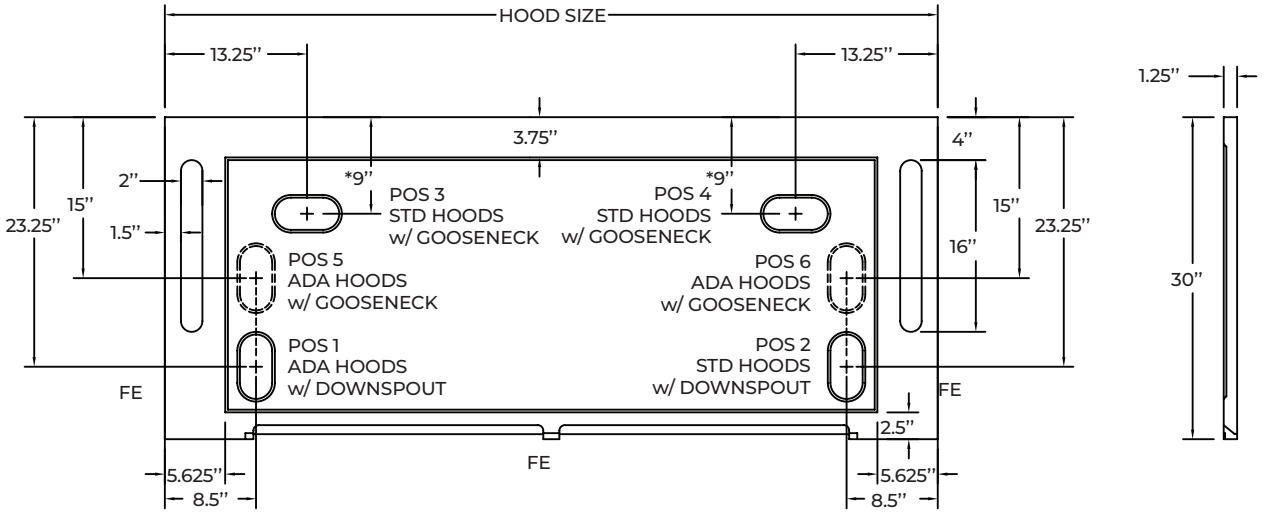
Fume Hood 110 96" Front View



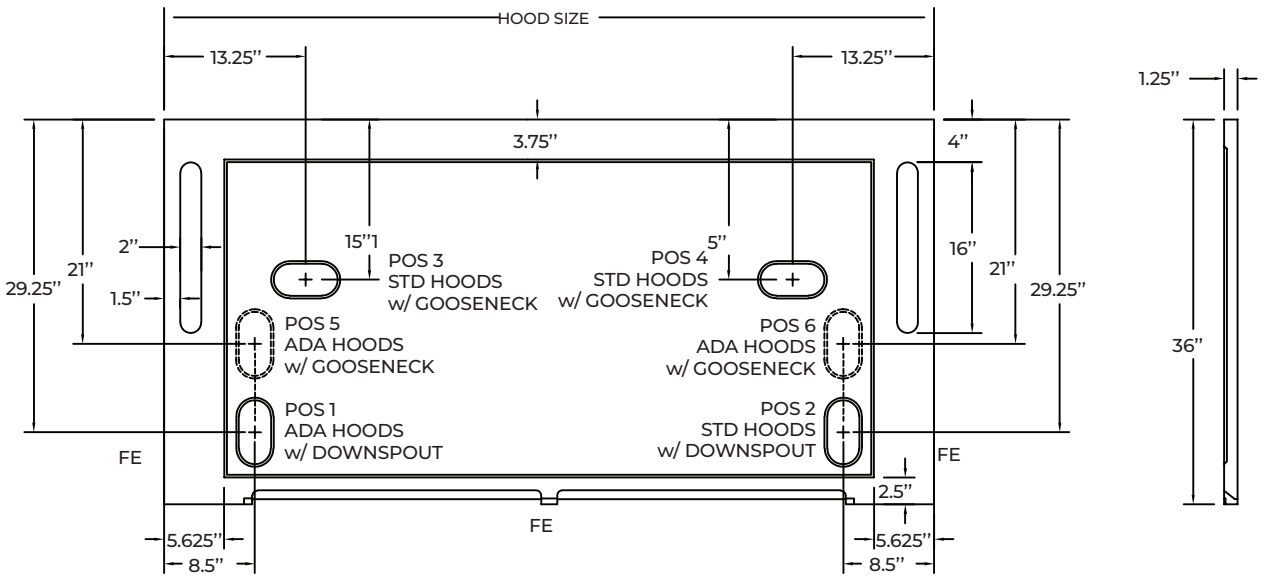
Fume Hood 110 Side View

Fume Hood 110

Solution 30" Countertop Depth



Solution 36" Countertop Depth



Fume Hood 110

Performance & Safety

Fume Hood 110 platform is engineered to meet modern laboratory airflow standards and supports face velocities typically ranging from 60–100 FPM, depending on system design. Optimized interior depth and airflow geometry support consistent containment across common operating conditions.

Fume Hoods 110 has been evaluated through third-party testing and meets applicable NIH, EPA, and ASHRAE 110 performance criteria at both 100 FPM and 60 FPM, with testing conducted at full sash opening and at an 18" operating height. A 36-inch high viewing area enhances visibility while maintaining reliable containment. All services are positioned outside the primary airflow path to enhance user safety and simplify maintenance.

Performance Characteristics

Face Velocity Range	HVAC Compatibility	Standard Sash Heights	Exhaust Collar
60 - 100FPM	CV and VAV	18'' and 28''	10'' round stainless steel(standard)

Technical Info

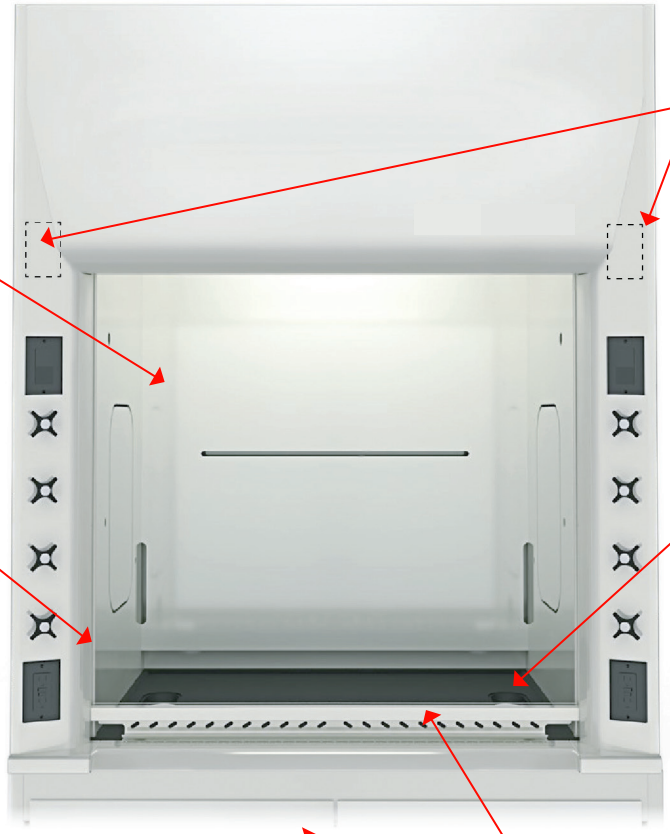
Fume Hood 110 is available in a broad range of sizes and configuration options to support diverse laboratory requirements and planning standards. The system is designed to accommodate multiple accessory, liner, and service configurations, allowing each hood to be tailored to specific project needs.

All utility services are mounted on the exterior of the hood structure, supporting a safer working environment by keeping controls accessible without interfering with the primary airflow zone. This exterior service strategy simplifies operation and maintenance while reinforcing safe laboratory practices. Flow 110 is suitable for integration with both constant volume (CV) and variable air volume (VAV) HVAC systems and is designed to perform consistently across a wide range of laboratory applications.

Part Number*	18'' Sash Height		28'' Sash Height	
	CFM @ 100 FPM / Static Pressure	CFM @ 60 FPM / Static Pressure	CFM @ 100 FPM / Static Pressure	CFM @ 60 FPM / Static Pressure
Solution-48	475/0.10	285/0.04	739/0.26	433/0.09
Solution-60	625/0.12	375/0.05	972/0.32	583/0.12
Solution-72	775/0.16	465/0.06	1206/0.41	723/0.15
Solution-96	1075/0.11	645/0.04	1672/0.29	1003/0.10

Fume Hood 110

Standard Accessories



Liner Material

Poly Resin (Standard)
304 Stainless Steel
316 Stainless Steel
PVC
PTFE
Special

Blower Switch

Service Type

Ball Valve w/ Lever
Needle Valve w/ Four-arm
Front Mount Valve w/ Four-arm

120V GFI Duplex

Fittings & Fixtures

Alarm 500
Alarm 1000
VAV (Cutout Only)

Light Switch

Cupsink Options

3" x 6"
3" x 9"
1/4" Raised Rim
No Cupsink

120V GFI Duplex

Base Cabinet Options

Corrosive Cabinet
Flammable Cabinet
Vacuum Pump Cabinet
Hood Base Frame
Sink Base Cabinet

Work Surface Material

Black Epoxy (Standard)
Type 304 Stainless Steel
Type 316 Stainless Steel
Other Colors available

Typical Applications

Wet Laboratories
General chemistry labs
Research laboratories
Teaching and instructional labs

Fume Hood 210

Double-Sided Shared Workstation Fume Hood, Bench-Mounted

Fume Hood 210 is a double-sided, bench-mounted fume hood designed for shared laboratory workstations and collaborative environments. By allowing two users to work back-to-back, Flow 210 maximizes floor space efficiency while maintaining strong containment performance, excellent visibility, and safe access to services from both sides.
Engineered to support instructional and collaborative lab settings, Flow 210 provides clear sightlines through generous glazing, making it especially well suited for undergraduate teaching labs, shared research spaces, and environments where demonstration and observation are essential.

Design & Construction

Fume Hood 210 features a full-frame steel construction with streamlined vertical posts and dual frameless sash assemblies that provide unobstructed, 360-degree viewing through the work zone. Large glass panels maximize ambient light penetration, improving visibility for users and observers while supporting effective instruction and demonstration.

All plumbing fixtures and service controls are front-loaded and positioned within arm's reach, eliminating the need for users to place their head or upper body inside the hood to access utilities. The hood is engineered to support both back-to-back and side-by-side installations, allowing layouts to evolve as program needs change.

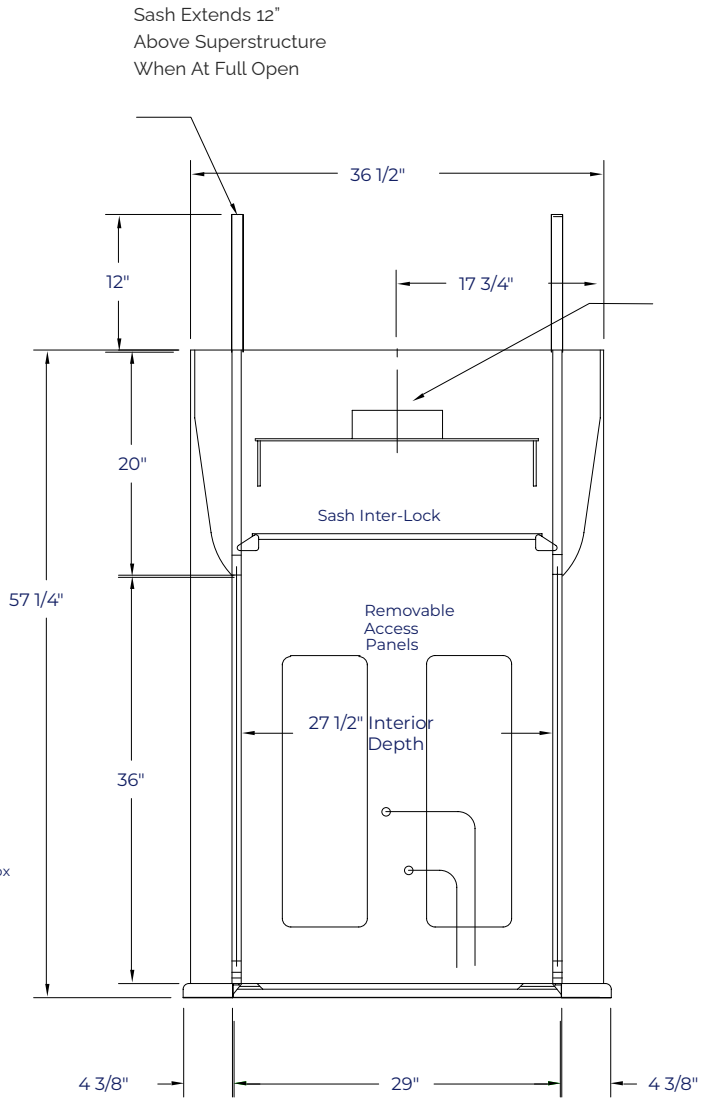


Fume Hood 210

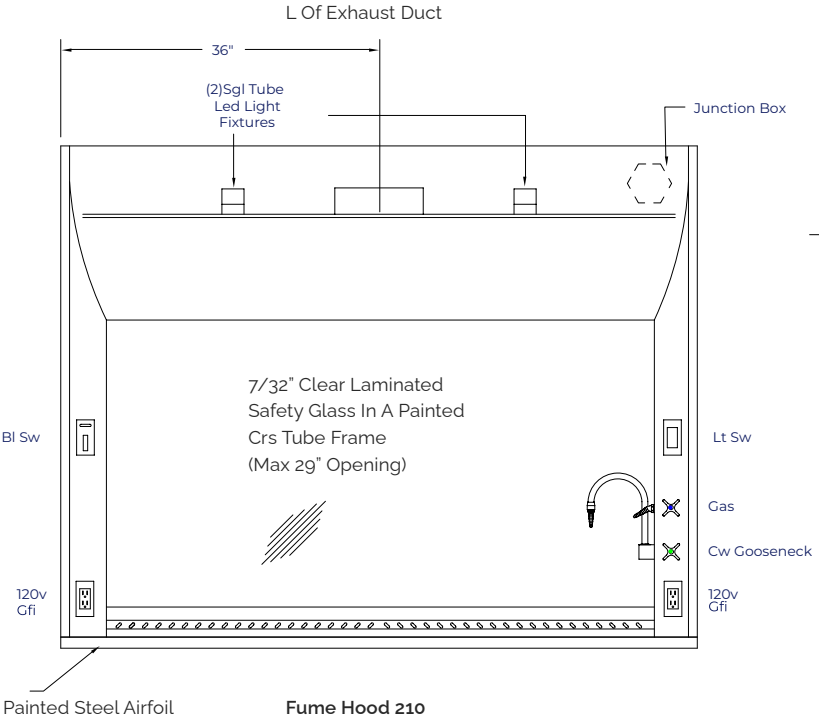
- Powder coat finish
- Full frame construction
- U.L. listed poly resin liner
- Flush-mount airfoil
- Knock down capability
- LED light with bulbs
- Full-length finger lift
- Louvered front for by-pass
- 10'' round S/S duct collar

Available Sizes

Widths: 36", 48", 60", 72", 96"
Depths: 29"
Height: 57 ¼"



Fume Hood 210
Vertical Side View



Fume Hood 210
Front View

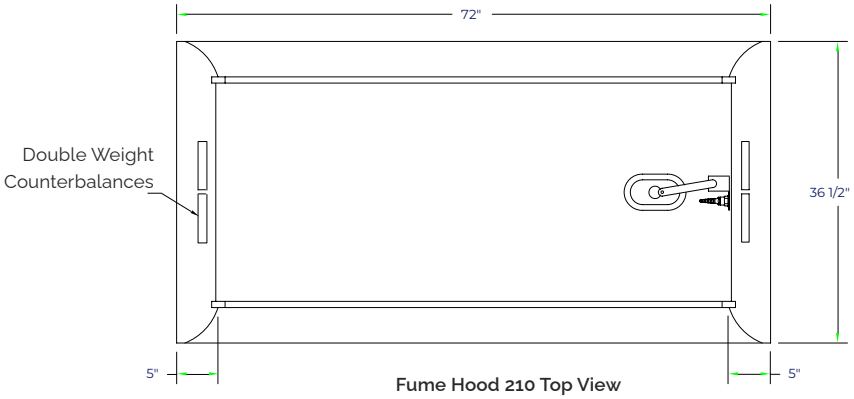
Fume Hood 210

Performance & Safety

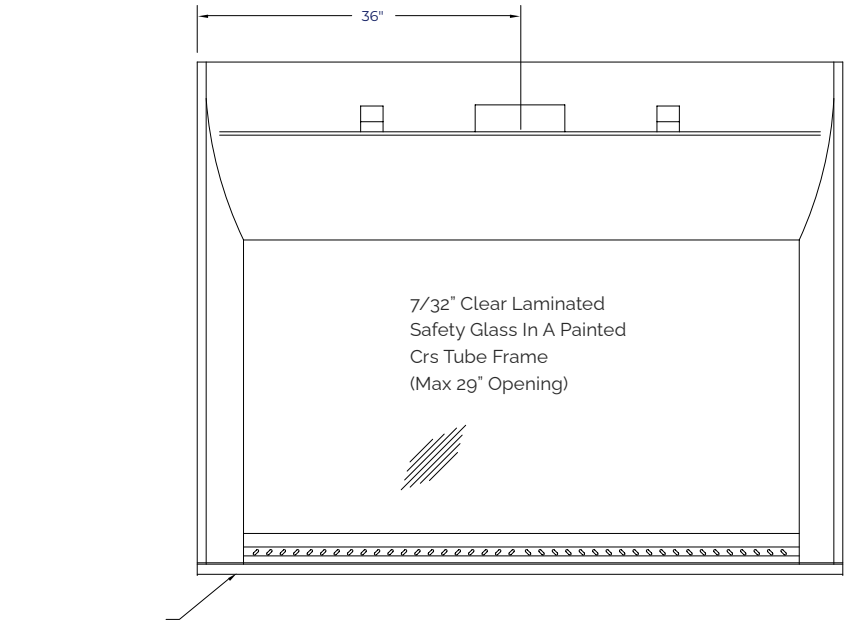
Designed for compatibility with both constant volume (CV) and variable air volume (VAV) HVAC systems, Fume Hood 210 maintains consistent airflow and containment performance across both work faces. Optimized sash geometry, airflow management, and interior depth support stable face velocities while accommodating multiple users operating simultaneously.
Clear laminated safety glass panels enhance protection for users and nearby occupants, while organized service zones and exterior-mounted controls reinforce safe laboratory practices.

Hood Exhaust Ratings

At Full Open @ 100 Lfm, 1206 CFM
.41 Static Pressure At Fume Hood Duct Collar
At 18" Open @ 100 Lfm, 775 CFM
.16 Static Pressure At Fume Hood Duct Collar



Fume Hood 210 Top View



Fume Hood 210 Back View

Fume Hood 210

Technical Info

Fume Hood 210 incorporates clear 7/32" laminated safety glass side panels that provide physical protection while maintaining full visual access to the work area. Dual integrated LED light fixtures deliver consistent interior illumination to support clear visibility during experiments and demonstrations.
A 37.5" vertical hood opening accommodates taller instructional equipment and apparatus commonly used in teaching and collaborative laboratory environments. Service valves and electrical outlets are front-mounted and positioned within arm's reach, supporting safe operation and convenient access to utilities without requiring users to enter the hood workspace.

Part Number*	Superstructure			Worktop			Hood Opening		CFM @ 29"	CFM @ 18"	CP	Blower Model #	Shipping Weight
	W	H	D	W	H	D	W	H					
EH-211-36	36"	56'	35-1/2"	36"	1-1/4"	29"	26"	29"	567	354	.25	BL-100-36	400
EH-211-48	48'	56'	35-1/2"	48'	1-1/4"	29"	38"	29"	833	521	.33	BL-100-48	450
EH-211-60	60"	56'	35-1/2"	60"	1-1/4"	29"	50"	29"	1100	688	.34	BL-100-60	500
EH-211-72	72"	56'	35-1/2"	72"	1-1/4"	29"	62"	29"	1367	854	.34	BL-100-72	550
EH-211-96	96"	56'	35-1/2"	96"	1-1/4"	29"	86"	29"	1900	1188	.40	BL-100-96	650

Standard Accessories



Fixtures

Alarm 500
Alarm 1000
VAV (Cutout Only)

Service Type

Ball Valve w Lever
Needle Valve w/ Four-arm
Front Mount Valve w/Four-arm

Service Fittings

Air
Gas
Water

Cupsink Options

3" x 6"
3" x 9"
1/4" Raised Rim
No Cupsink

(Optional) 120V GFI Duplex
or
(Optional) Light Switch

Work Surface Material

Black Epoxy (Standard)
Type 304 Stainless Steel
Type 316 Stainless Steel
*Other Colors available

Base Cabinet Options

Acid Cabinet
Flammable Cabinet
Vacuum Pump Cabinet
Hood Base Frame
Sink Base Cabinet

Fume Hood 210

Typical Applications

Undergraduate teaching laboratories
Collaborative research labs
Shared academis workstations
Demonstration-based lab environments



Fume Hood 410

Walk-In & Large Apparatus Fume Hood, Floor-Mountedv

Fume Hood 410 is a floor-mounted fume hood engineered to accommodate large equipment, tall apparatus, and walk-in laboratory processes. Featuring a double-hung sash configuration with a 72" high vertical opening, Fume Hood 410 supports applications that exceed the capacity of standard bench-mounted hoods while maintaining dependable containment performance. Designed for demanding environments, Fume Hood 410 is well suited for pilot-scale research, industrial laboratories, and specialty chemical applications requiring increased vertical clearance.

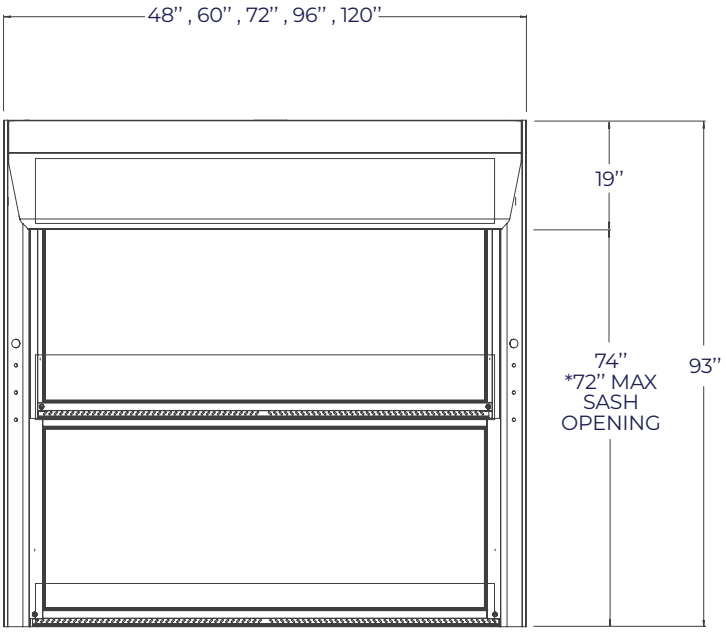
Design & Construction

Fume Hood 410 features a robust steel frame with 5" (127 mm) wide vertical posts engineered to provide structural stability at increased heights. The double-hung sash system offers operational flexibility when loading, adjusting, or operating tall equipment, while the high sightline design maintains visibility across the full opening.

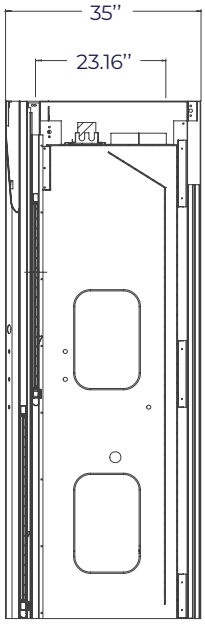


Fume Hood 410

- Designed for CV or VAV systems
- Optimal interior working depth
- Chain and sprocket shaft drive sash
- 10" Round SS Duct Collar(s)
- Powder Coated Finish
- UL1805 Listed
- LED Lights
- Full-length finger lift
- Knock down ready
- Louvered front for bypass
- 60-100 FPM
- 36'' High Sightline
- Frameless Sash



Fume Hood 410 Front View



Fume Hood 410 Side View

Available Sizes

Widths: 48", 60", 72", 84", 96", 120"
Depths: 30" or 36
Height: 93"

Typical Applications

Industrial laboratories
Pilot-scale research facilities
Large-apparatus testing
Specialty and high-volume chemical processes

Performance & Safety

Flow 410 supports both constant volume (CV) and variable air volume (VAV) HVAC systems and is designed to maintain stable airflow across large vertical openings.
Louvered bypass airflow and optimized interior geometry help balance containment performance and energy efficiency, even when operating with oversized apparatus or partial sash openings.

Custom Fume Hood

Engineered for Specialized Applications

When standard configurations are not enough, Workbenches.com custom Fume Hoods are engineered to meet exact project requirements. From non-standard dimensions to specialized airflow strategies, materials, and safety features, our team collaborates closely with clients, architects, and engineers to deliver purpose-built containment solutions. Custom configurations may include wet lab floor-mounted systems, laminar flow fume hoods, or hybrid containment solutions designed around unique workflows and equipment.

Design Approach

Each custom hood begins with a detailed application review to define airflow needs, equipment clearance, materials compatibility, and integration with building systems. The result is a solution that supports safety, performance, and long-term adaptability.



Colors

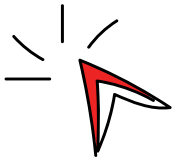
Powder Coat Finishes

Powder coating is a durable, cost-effective, and environmentally friendly finishing solution that outperforms traditional paint. At Workbenches.com, we offer high-quality powder coating services designed for industrial and professional applications. Our finishes provide superior resistance to wear, chemicals, and corrosion—ensuring long-lasting performance for your workspace.

Gray Dark (RAL 7045)	Black Semi Gloss (BK-266)	Black Texture (BK-59)	Blue Light (RAL5012)	Blue Sapphire (RAL5003)	Blue Traffic (RAL5017)
Gray Steel Pearlescent (T028-GR02)	Gray Light (RAL 7035)	Red (RD-01)	Silver Sparkle (049/90450)	White Gloss Smooth (WH11)	White Semi Gloss Textured (WH120)



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