

**mott**  
MANUFACTURING

ISO 9001:2015 REGISTERED

# OBSERVATION 2™ FUME HOODS

**Maximized** Visibility



QUALITY BY DESIGN



# Optimized Visibility & Energy Savings

With plenty of safety glass, the natural light and room views are nearly uninterrupted throughout the laboratory providing a greater sense of openness.

Providing containment at face velocities as low as 60 fpm.

Designed to meet the needs of students and teachers by combining side and back viewing windows, narrow 3" wide posts, 36" high viewing area, and a 5° angled sash, enhanced visibility is achieved for both instruction and observation.

# Observation 2™ Fume Hoods

Designed for use in either Constant Air Volume (CAV) or Variable Air Volume (VAV) applications and are available with an optional automatic sash closure system and/or an integrated VAV system.

We manufacture our Observation2™ fume hoods as outlined below. However, today's laboratories often require customization, and to meet your unique needs, we can configure and manufacture to meet your specific requirements. Simply contact us with your needs!



**Chain Drive Sash** - Our heavy-duty chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span.

**Exhaust Collar** - Wide tapered rectangular exhaust duct connection improves airflow distribution across hood width. Transition connection to round duct available.

**Sash Design** - 5° angled sash and sloped front with 6mm laminated safety glass provided on the back, side and sash panels. Tempered glass, or polycarbonate are available for special applications.

**Sash Systems** - Hoods available with vertical or combination (vertical/horizontal) sashes. Combination sashes have glass visor panel on upper portion to restrict opening to 28" high.

**Plumbing** - Corner posts are pre-punched to accept four front-loaded service fittings per post. Fixtures are pre-plumbed with high-density polyethylene to the top of the fume hood. Water is plumbed using PEX and natural gas to be plumbed in stainless steel (or Type G Copper in Canada).

**Additional Plumbing** - Need more plumbing fixtures? Deck-mounted fixtures are an available option. Service controls can be base cabinet mounted.

**Self-Lowering Sash System** - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the latch is disengaged, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced and will remain where positioned.

**Optimized Viewing Area** - Full view sash for unobstructed sightlines with 36" high viewing area and narrow post design allows for more usable interior width and provides enhanced visibility.

**Liner** - Powder coated galvanized steel interior liner. Not suitable for highly corrosive environments. For corrosive environments that require full visibility see our NovaGuard™ hood.



**Flush Sill Airfoil With Containment Trough** - Low-profile hinged Type 316 powder coated stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior. These include a built-in containment trough as an additional level of user protection from spills. Power cords can be run through the sill to the electrical outlets on the hood posts.

**LED Lighting** - All fume hoods have long lasting (50,000 hours) energy efficient UL/CSA approved LED lights separated from the fume hood chamber by 6mm safety glass.

**Configurations** - Available in single and double-sided configurations. Shown: single-sided model with vertical rising sash shown and Glass Back option.

**Removable Panels** - Snap-off front access panel with no exposed fasteners allows quick and easy access to light fixtures for re-lamping.

**Electrical** - On each hood face, three receptacles and two USB charging ports are provided for 120 volt service. Built-in LED lighting and a corner post mounted switch provided. There are many additional powering options.

**Baffle Design** - Downflow baffles are biased towards the work surface, drawing fumes downwards away from the user, counteracting the normal upward flow of vapors and preventing contaminated air buildup behind the sash.

**Removable Glass Baffles** - Tempered glass baffles are easy to remove for cleaning.

**Performance Sash Handle** - Powder coated stainless steel handle incorporates an airfoil design providing improved airflow along the lower edge of the sash to prevent turbulence from disturbing the process or user.

**Coating Finish & Color** - A thermosetting laboratory grade powder coating delivers exceptional chemical and scratch resistance, excellent hardness, adhesion, and a quality luster. The long lasting finish is available with 15 standard color options, including multiple color schemes, and color matching capabilities.

# Protection

Safety is enhanced because instructors or supervisors can readily observe any hazardous situations that may occur inside the hood chamber while meeting stringent performance requirements: UL Classified to UL1805, CSA Certified to CSA C22.2 No. 61010, UL Standard 61010-1 and tested in accordance with ASHRAE 110.





# Create The Ideal Space

Available in single or double-sided configurations, standard and ADA compliant models with vertical rising sash or combination sashes, optional glass rear viewing panel available for single-faced units and solid back or end panels are an available option for wall locations.

Single-sided: glass rear and left side viewing panels, with solid right side panel



Single-sided: side by side, with solid back panels and glass side viewing panels



Double-sided: glass back and side viewing panels



Double-sided: solid back panel and glass side viewing panels



Double-sided: quad combo with glass back and side viewing panels



Single-sided: ADA compliant with glass back and side viewing panels



## Energy Saving Options

### Automatic Sash Closing System

For increased safety and energy savings our ASO2 Plus is an electronic occupancy sensor system that closes the sash automatically when the operator moves away from the hood.

### Integrated VAV System

Make VAV controls and damper components a harmonious part of your fume hood with Mott's Integrated Variable Air Volume System. It includes a controller and a quick and precise actuator.



## Optional Accessories

Complement your fume hood's functionality with a wide variety of options including: alarms, apparatus rods, hazardous location electrical, sash stops, sash pockets, pass-throughs, work surfaces, cupsinks, fire suppression and more...



## Base Configurations

We offer a full line of cabinets and tables that are designed as perfect base components for your fume hoods: table bases, insulated cabinets for solvents and flammables, corrosion resistant acid cabinets, vacuum pump cabinets or additional storage space.





Products **designed** for your lab.  
Explore our **solutions**.

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