

**mott**  
MANUFACTURING

ISO 9001:2015 REGISTERED

# SAFEGUARD™ FUME HOODS

**Safety** Assured



QUALITY BY DESIGN

## Enhanced Efficiency

SafeGuard™ fume hoods were developed to meet the challenging safety, energy conservation, and operational requirements of today's laboratory. Designed for 60-100 feet per minute face velocities this hood is available in various sizes and sash configurations, all with enhanced features.



## SafeGuard™ 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 SafeGuard™ bench top 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.

**Stainless Steel Type 316 Exhaust Collar** - Round exhaust duct connection improves airflow distribution across the hood width and directly interfaces with the building ventilation system.

**Fixed Baffle System** - The baffle system needs no adjustment and improves airflow through the fume hood.

**Downflow Upper By-Pass** - In CAV configurations, air flows through the downwardly directed by-pass preventing contaminated air build up behind the closed sash.

**Exhaust System** - Restricted upper by-pass is optional for VAV use.

**LED Lighting** - 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.

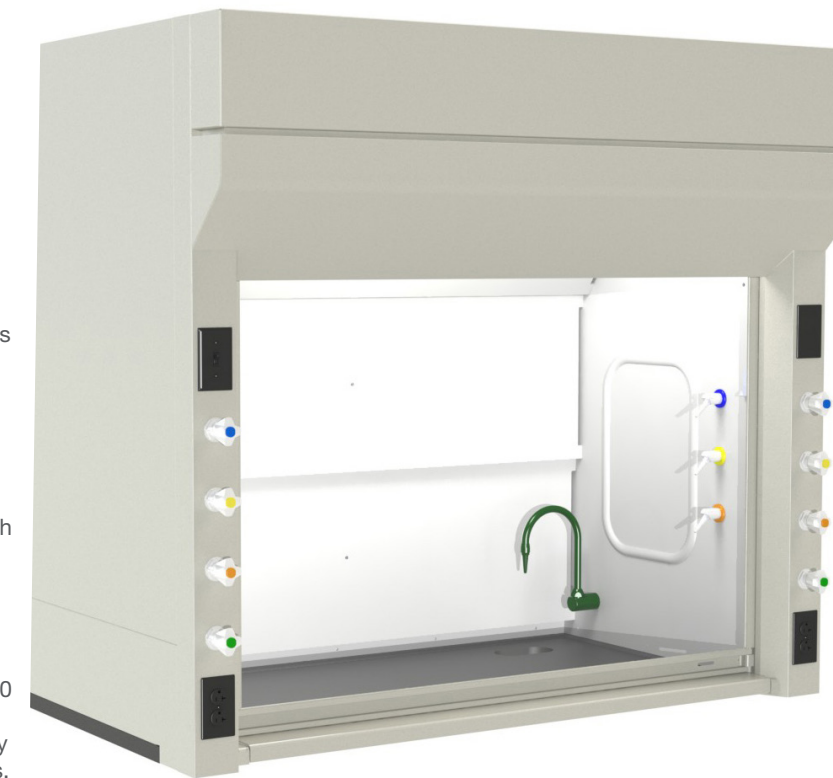
**Sash Design** - 6mm laminated safety glass is provided with a stainless steel handle. Tempered glass, or polycarbonate are available for special applications.

**Sash Systems** - Hoods are available with vertical, combination (vertical/horizontal) and split postless type sashes.

**Viewing Sash** - Provides a clear and unobstructed side to side view of fume hood interior, with a 34" high viewing area.

**Electrical** - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. There are many additional powering options.

**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.



**Chemical Resistant Liner** - Standard fiberglass reinforced polyester (FRP) has excellent strength, chemical resistance and flame spread. Many additional liner materials are also available to meet special requirements.

**Access Panels** - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

**Plumbing** - Both corner posts are pre-punched to accept four service fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from most manufacturers.

**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.

**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 over 20 standard color options, including multiple color schemes, and color matching capabilities.

## Safety

SafeGuard™ hoods provide the operator with a secure and dependable operating environment 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.



# 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 fume 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, tissue screens, sash stops, sash pockets, hazardous location electrical, glass bypass viewing, pass-throughs, pressure regulators, 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.

