

Custom Fume Hoods - Mott is dedicated to designing fume hoods for your unique situations. Available in numerous configurations, we have the expertise to provide fume hoods in almost any shape or size, with countless options, typically all within standard production times. The Mott Product Development Team looks for continuous improvement on current designs and develops new products to meet the demands of the modern laboratory.

We can provide solutions to meet your specific application demands; simply contact us with your needs.

Development and Performance Testing

- Mott's on-site fume hood test facility is an essential asset used in new and custom product development and testing. Witness testing of fume hoods to the ASHRAE 110 "As Manufactured" and the performance criteria of ANSI Z9.5 protocol are available. A skilled fume hood specialist will conduct standard or specialty investigative testing to meet specific customer requirements. The facility is equipped with a broad array of calibrated measuring devices and operated by competent, well trained personnel. Mott has extensive experience with quantitative and qualitative testing in conformance to industry standards and customer requirements in addition to assisting customers in identifying and correcting performance deviations. In serving our customers' testing needs, Mott offers testing on:

- Customer modified methods
- As installed in VAV simulations
- Custom fume hoods
- Special laboratory conditions

Our strong commitment to fume hood safety coupled with unparalleled technical expertise serves as the foundation for our longstanding customer relationships. We welcome architects, engineers and end users into our fume hood test facility to witness and participate hands-on.

Friendly To The Environment - Being green isn't just about the materials, it's also about manufacturing processes, air quality and conservation. Our furniture and fume hoods meet or exceed stringent manufacturing criteria by controlling air quality and emission levels. Mott is committed to protecting our atmosphere from the release of VOCs into the air. Our steel powder coating process is very environmentally friendly in this regard. In addition, most powder coating overspray is retrieved and reused, helping to eliminate waste. Using the newest machinery and high tech tooling increases productivity and capacity with less energy, while minimizing scrap material. Our steel cabinets contain substantial quantities of pre and post-consumer recycled content which contributes to LEED credit MR4. Mott also offers a wide offering of wood materials which will help you in attaining LEED status; our LEED Accredited Professional can assist with LEED registered projects.

Laboratory Fume Hoods

- Design and engineer energy efficient, low volume fume hoods that result in considerable energy cost reduction and ensures operator safety.
- Steel with recycled content and a VOC free powder coated finish.
- Automatic Sash Operating System that lowers and/or rises automatically which can enhance safety and dramatically increase the efficiency of Variable Air Volume systems.
- T5 fluorescent and LED lighting options.
- We ensure the safety of our hoods by designing them to meet UL 1805 standards.

For more information on Mott's sustainable solutions; simply contact us with your needs.



QUALITY IN PRODUCT • PRECISION IN PROCESS • STRENGTH IN PEOPLE

LABORATORY FUME HOODS



QUALITY BY DESIGN

Mott Manufacturing provides complete solutions for all your laboratory needs. We offer a full line of products featuring quality steel laboratory furniture, premium grade architectural wood casework, adaptable and mobile furniture systems, high performance and custom fume hoods, custom stainless steel work surfaces and sinks. We have been serving the industrial, pharmaceutical, education, health care and government markets since the early 1960's. Since each laboratory's needs are unique, we can design and engineer products to meet your exact requirements.

Customer Satisfaction is Mott's First Priority

Delivering industry-leading customer service is more than just words to the Mott Team. We know that satisfied customers drive our success. We therefore provide our customers with the following key values:

Consistent Product Quality

Our ISO 9001 Registered Quality Management System, supported by quality materials and skilled employees, ensures only high quality product is shipped.

Quality Product On-Time

Our competitive manufacturing lead times, along with our high on-time and complete shipment performance, provides our customers with reliable delivery of high quality products.

Adaptable Product Line

Our extensive modular product line permits our customers to readily configure the most productive solution to meet their specific requirements. Our flexible manufacturing capabilities allow convenient modification of standard components to fit the unique requirements of each laboratory.

Competitive Value

Our several decades of application experience allows us to provide productive furniture solutions to our customers. This experience, along with our high product quality, custom manufacturing capability, consistently strong service levels, and competitive pricing provide high value to our customers.

Extensive Dealer Network

Our dealers are exceptionally qualified. We build strong relationships with our dealers to provide industry-leading service levels. Our dealers' on-site leadership and years of experience combined with our design and manufacturing skills deliver the very best in laboratory furniture solutions.



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Safety Assured...

Mott's fume hoods have been specifically developed to meet the demanding safety, energy conservation, and operational requirements of the modern laboratory.

All fume hoods are designed using proven aerodynamic and ventilation concepts. They are then manufactured to exacting standards and tested to accepted protocols (ASHRAE 110).

Our attention to detail has allowed Mott's fume hoods to earn a reputation as an industry leader in reliable containment performance and contemporary aesthetic design.

Available in numerous models, Mott's fume hoods can be readily custom manufactured through the integration of an extensive offering of optional features. The resulting adaptability delivers effective safety and operational solutions for the many varied application demands found in laboratories today.

Fume hoods must deliver safety. Our commitment to quality through our ISO Quality Management System assures the reliable, long life of our laboratory furniture.



• **Automatic Sash Operator** - This device utilizes a proximity sensor to raise and/or lower the sash based on the presence or absence of a fume hood user. Combined with a VAV system, this device offers substantial energy savings and enhances user safety.

• **Optional Features** - Outfit your hoods with a wide variety of options: alarms, sash stops, sash locks, self lowering sash mechanisms, vision panels, sash pockets, explosion proof electrical, distillation racks, pressure regulators, work surfaces, cup sinks, fire suppression, and more...

• **Stainless Steel Fume Hood Liners** - Stainless steel liners are available in type 304 or 316 stainless steel and can be coved at the corners into an integral stainless work surface if desired.

• **Canopy Hoods** - Designed to exhaust non-toxic steam, odors and heat. Available wall-mounted or suspended from the ceiling. Features can be added to meet specific requirements. Available in powder coated steel or stainless steel.

Extensive Fume Hood Offering

Whatever your laboratory fume hood requirements Mott can offer a proven solution. Mott hoods are available in a wide array of configurations such as bench mount, floor mount, distillation and fully accessible (ADA). To accommodate special hood applications we offer perfluoric, hydrofluoric, radiostop and demonstration models. Whether you require an extra large size, custom sash configurations or have specific requirements; we specialize in custom designs.

• **Counterbalance Systems** - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

• **Interior Liner Materials** - Standard fiberglass reinforced polyester (FRP) has excellent strength, chemical resistance and flame spread. Additional liner materials are also available to meet the requirements of many different applications. All liners meet the requirements of UL and NFPA specifications.

• **Sash Design** - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are available with vertical, horizontal, combination vertical/horizontal and spill proof type sashes.

• **Stainless Steel Type 316 Exhaust Collar** - Collars with radiused edges minimize static pressure losses and exhaust noise levels.

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

• **Electrical and Plumbing** - Two UL/CSA approved duplex receptacles provided for 120 volt service. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent and LED lighting are available options. Factory pre-plumbing is available as well as plumbing fixtures from most manufacturers.

• **Stainless Steel Airfoil** - Aerodynamic design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Pro Series fume hoods include notches in both corners to allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash. Powder coated stainless steel also available.

• **Flush Sill Airfoil** - Low profile airfoil is flush with the work surface to provide easy access to the hood interior. Spill trough is designed to provide secondary containment in the event a spill escapes the primary containment workshop. Air foil is hinged for easy cleaning and electrical cord pass-through. This option is available on all fume hoods and is standard on some models.

• **Self-Lowering Sash System** - Sash latch is available to temporarily secure the sash in the full open position for setup and tear down operations. When the latch is released, the sash automatically returns to the operational position for energy conservation and safety. This option is available on all chain and sprocket system fume hoods and is standard on some models.

• **Sash Safety** - Sash stops are available to shield the operator while improving fume containment and reducing energy consumption. This option is available on all fume hoods and is standard on some models.

• **Vision Panel** - Glass panel functions well as a restricted bypass for VAV applications, while allowing a clear view of the fume hood interior. This option is available on Pro Series fume hoods.

• **Base Cabinets and Tables** - A wide selection of tables, acid, solvent, pump and general storage cabinets are available for underneath the fume hood in powder coated steel, stainless steel and wood.

• **Coating Finish and Color** - A thermosetting laboratory grade powder coating delivers exceptional chemical and scratch resistance, excellent hardness, and adhesion, with a quality luster. A broad palette of colors are available including multiple color schemes. Our coating is quality controlled to ensure consistent color match.



SafeGuard™ Hood

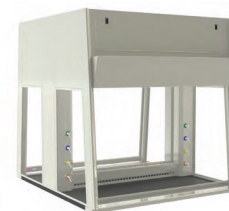
Developed to meet the challenging safety, energy conservation, and operational requirements of today's laboratory. Designed for 60-100 feet per minute face velocities this hood is available in various sizes and sash configurations, all with enhanced features. Suitable for use in either Constant Air Volume or Variable Air Volume applications.

- Full view sash for unobstructed view
- Self-lowering sash enhances operator safety and energy savings
- Low profile flush airfoil with spill containment trough
- Durable chain and sprocket sash system
- UL 1805 Classified, meets ASHRAE 110 Standards

RFV2™ Fume Hood

The RFV2™ (Reduced Face Velocity) fume hood offers excellent containment performance and energy efficiency at lower face velocities than conventional fume hoods. This fume hood has been tested to both standard and modified ASHRAE procedures at face velocities as low as 50 fpm. The RFV2™ hood design provides the fume hood operator with a secure and reliable operating environment while providing considerable capital and operating cost savings. Suitable for use in either Variable Air Volume or Constant Air Volume applications.

- Full view sash for unobstructed view
- Self-lowering sash enhances operator safety and energy savings
- Low profile flush airfoil with spill containment trough
- Durable chain and sprocket sash system
- UL 1805 Classified, meets ASHRAE 110 Standards



Observation™ Fume Hood

Observation™ fume hoods are designed to provide the greatest visibility, allowing an instructor or supervisor to spot any hazardous situations that may occur. Double-faced island fume hoods have full viewing side and back glass panels, single-faced fume hoods have full viewing side windows with an optional glass back panel. Other models of glass-sided fume hoods are available. Version available for either Constant Air Volume or Variable Air Volume applications. (Double-faced island Observation™ fume hood shown).

- Automatic sash lowering system closes to 18" operating height, providing extra protection for the operator and increased energy efficiency
- Full view sash for unobstructed view
- Narrow post design allows for more usable interior width and provides enhanced visibility
- Low profile flush airfoil with spill containment trough
- High quality stainless steel cable sash counterbalance system
- Meets ASHRAE 110 Standards

Optima™ Fume Hood

The adaptable Optima™ fume hood allows for personalized ergonomics, changing lab processes and is designed to meet demanding safety standards. With its sleek and stylish design the Optima™ fume hood brings versatility to a whole new level. Suitable for use in either Constant Air Volume or Variable Air Volume applications.

- Push button height adjustable work surface improves ergonomics and accommodates persons with disabilities
- Self-lowering sash enhances operator safety and energy savings
- Slender side posts provide optimized interior working area
- Low profile flush airfoil with spill containment trough
- Durable chain and sprocket sash system
- Meets ASHRAE 110 Standards

