

QUALITY IN PRODUCT • PRECISION IN PROCESS • STRENGTH IN PEOPLE

LABORATORY FUME HOOD



• **Custom Fume Hoods** - Each laboratory's needs are unique, Mott can design and engineer fume hoods to meet your exact requirements. Available in numerous models, we have the expertise to provide fume hoods in almost any shape or size in standard lead times. 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" protocol is available. Other specialty investigative testing can be conducted to meet specific customer requirements. This facility is equipped with an extensive array of calibrated measuring devices and operated by competent, well trained personnel.



## LABORATORY FUME HOODS



QUALITY BY DESIGN

Mott Manufacturing has been successfully designing and manufacturing its extensive line of quality steel laboratory furniture and fume hoods since the early 1960's. With furniture installed world wide in numerous health care, research, industrial, pharmaceutical, and educational applications, Mott can provide upon request an extensive summary of its many installations.

### 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.

#### Just-in-Time Delivery Capability

Our four to six weeks manufacturing lead time, along with our high on-time and complete shipment performance, provide exceptional reliability to our customers.

#### Adaptable Product Line

Our extensive Sigma Systems™ 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 the best. 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.



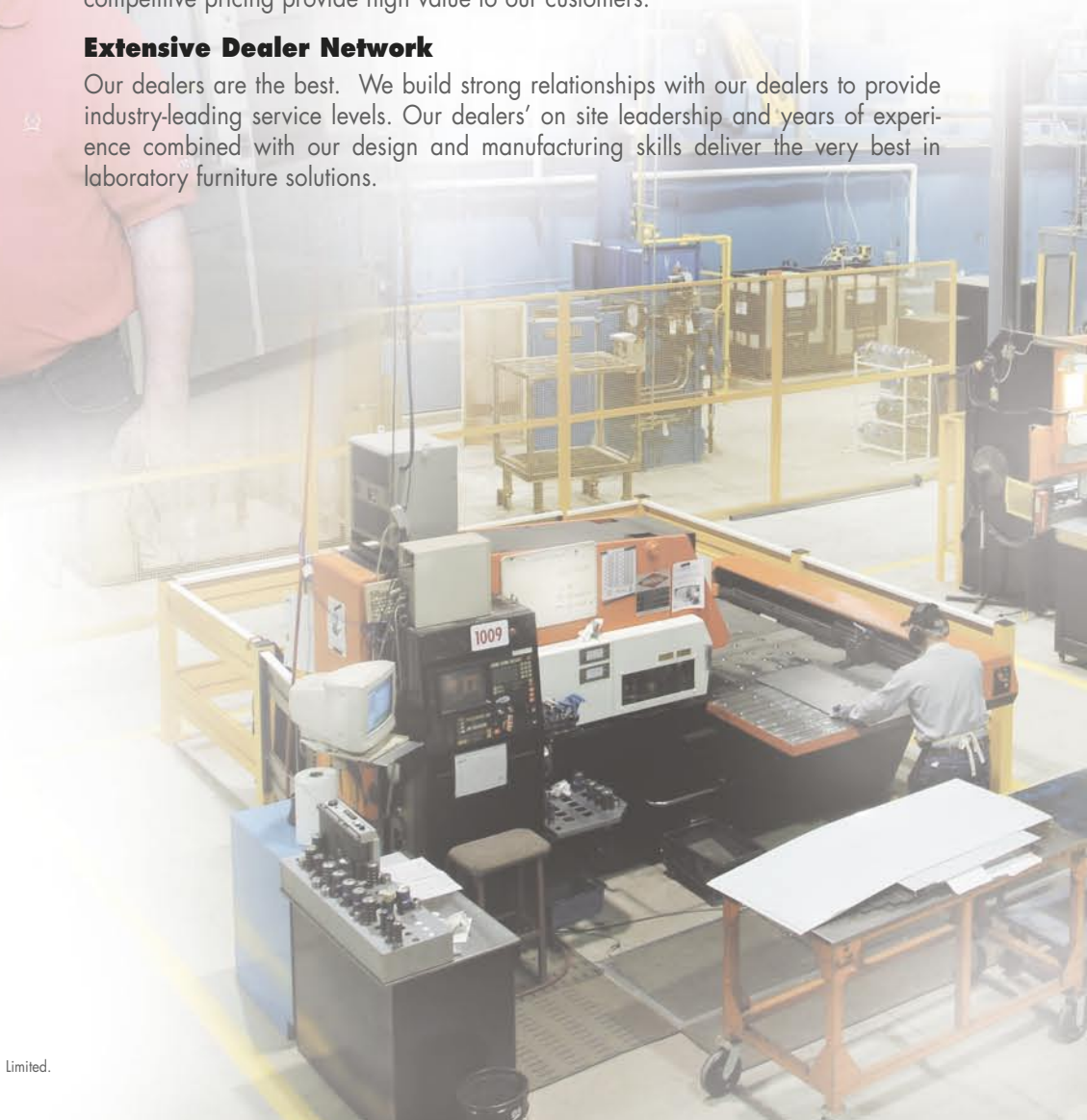
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Sigma Systems™ is a registered trademark of Mott Manufacturing Limited.  
D.O. - MAY 2008



**Safety Assured .....**

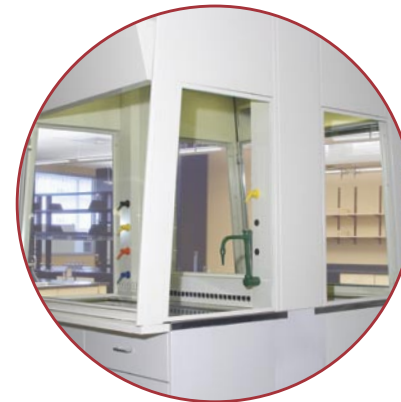
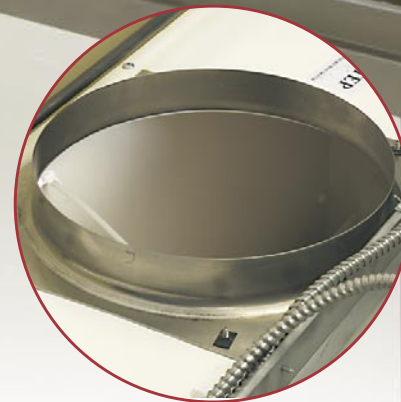
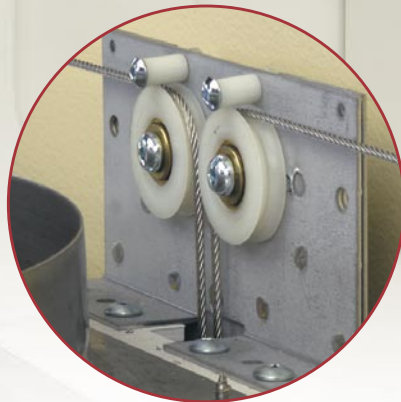
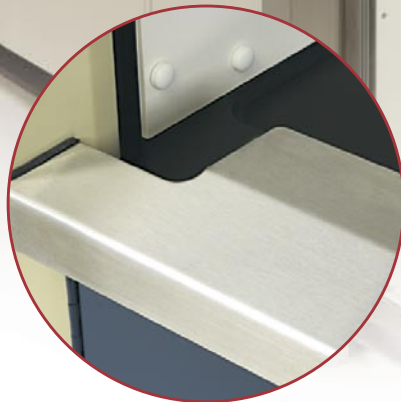
Mott's fume hoods have been specifically developed to meet the demanding safety, energy conservation, and operational requirements of the modern laboratory.

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.



• **Chain Driven Sash** - Axle and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

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

• **Stainless Steel Cable Sash** - The high quality stainless steel cable system provides economical and reliable operation. The cable system has been tested to 100,000 cycles with no failure.

• **Sash Safety** - Optional sash stops are available to shield the operator while improving fume containment and reducing energy consumption.

• **316 Stainless Steel Exhaust Collar** - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

• **Vision Panel** - This optional glass panel functions well as a restricted bypass for VAV applications, while allowing a clear view of the fume hood interior.

• **Teaching Fume Hoods** - When complete visibility is required, Mott offers various models of glass-sided fume hoods that are ideal for higher education settings. It allows students to view demonstrations or the teacher can observe students using the hood.

• **Interior Liner Material** - Standard fiberglass reinforced polyester 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.

• **Explosion Proof Design** - Explosion proof lighting, receptacles, switches and wiring can be supplied to meet applicable codes.

• **Coating Finish and Color** - A thermosetting laboratory grade powder coating delivers exceptional chemical and scratch resistance, excellent hardness and adhesion, and a quality luster. An extensive rainbow of colors is available including multiple color schemes. All colors are quality controlled with micro-processor technology to ensure consistent color.

• **Low Flow Alarms** - Alarms and controls can be supplied and factory mounted to increase energy efficiency and operator safety.

• **Gasketed Access Panels** - Provide convenient access and prevent fume leakage outside the fume hood. Vinyl gasket is provided in an aesthetically pleasing color.

• **Service Fixtures** - Front post is pre-punched to accept 5 fixtures per side. Factory pre-plumbing is available as well as plumbing fixtures from most manufacturers.

• **Sash Design** - Sash is 6mm laminated safety glass and is provided with a stainless steel handle and side runners. The sash assembly is designed and installed to operate smoothly and hold at any position without creep. Horizontal and vertical combination sash designs are available to optimize energy efficiency and operator safety.

• **Exterior Light Fixture** - Fluorescent lights are mounted outside the fume chamber for improved safety, increased operating life and convenient service. The resulting lighting level at the work surface is a consistent 80 foot candles. Incandescent lighting is also an available option.