

Designed to deliver competitive containment performance and energy efficiency. The NovaGuard™ operates with exhaust volumes significantly lower than conventional hoods. Provides the operator with a secure and reliable operation environment while providing considerable capital and operating cost savings.

NOVAGUARD™

HIGH EFFICIENCY FUME HOOD

High Performance... Enhanced Safety...

Face Velocities - Tested to both standard and modified ASHRAE 110-2016 procedures at face velocities as low as 50 fpm and has exceeded containment guidelines with levels below 0.01 ppm even with the sash fully raised to 28". Modified tests included hood loading with boxes and cans and simulated walk-by tests.

Exhaust System - Suitable for use in either Variable Air Volume (VAV) or Constant Air Volume (CAV) applications.

Baffle Design - Downflow rear baffle is biased to the bottom, drawing fumes downward away from the user. This counteracts the normal upward flow of vapors and prevents contaminated air build up behind the closed sash.

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.

Stainless Steel Exhaust Collar - Type 316, stainless steel wide rectangular exhaust duct connection improves airflow distribution across hood width; it is powder coated for additional corrosion resistance.

Chemical Resistant Liner - Standard fiberglass reinforced polyester liner has excellent strength and chemical resistance; additional liner materials are also available.

Removable Panels - Side panels are easily removed to access interior electrical or plumbing fixtures.

Electrical and Plumbing - Two UL/CSA approved duplex receptacles provided for 120 volt service. Built-in LED lighting and a corner post mounted UL/CSA approved switch provided. Fixture holes are not pre-punched and punched only as ordered; front post can accept five fixtures per side. Factory pre-plumbing is an available option as well as a variety of plumbing fixtures to meet most plumbing needs.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110-2016.

Chain Drive Sash - Chain and sprocket counter balance system delivers the easiest and most reliable sash operation available and has an exceptionally long life span.



mott
MANUFACTURING

ISO 9001:2008 REGISTERED

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Alcove Shelving

More Room

- Alcoves in previously wasted space along the sides of the hood and duct collar placement increases cubic space and square footage in the chamber without increasing the exterior width.
- Optional alcove shelving increases it even more.
- Service outlets in the alcove do not protrude into the hood's working chamber.

More Comfort

- Sashes have been angled just enough to offer relief to lower backs when spending long periods working in the hood.
- Comfortable flush sills are type 316 powder coated corrosion resistant stainless steel and incorporate a trough to help contain spills.



Flush Sill

More Light



Full View - The vision panel at the top front of the hood gives 44-1/2" of full viewing into the hood.



Side Viewing Windows - The side viewing window option brings natural light into the fume hood.



LED Lighting - Bright energy efficient LED lighting offers an extremely uniform well-lit interior.

Automatic Sash Operator 2



is safer than an open one.

The optional Automatic Sash Operator 2 (ASO2) technology works in conjunction with VAV systems to maximize energy efficiency and laboratory safety. Experience has shown that most operators leave the hoods fully open all the time. If the sashes are left wide open with VAV systems, no energy is saved. The ASO2 utilizes a motion sensor that detects when a user has left the face of the hood. The sash fully closes after a period of time set by you; a closed sash

Integrated VAV System



automatically decreases the exhaust volume as the sash is lowered, thereby saving significant energy.

The optional system is designed to provide variable airflow volume control and to ensure the safety of the operator. VAV systems provide a clear advantage over Constant Air Volume systems which waste a large volume of energy when the fume hoods are not in use. Switching to VAV can decrease air volumes by up to 85%, reducing energy costs and carbon emissions. The system measures face velocity, sash position and