

# new fume hoods

providing performance and protection



# five questions to get us started

1. Will the use of your hood require a special application hood?
2. How high of a priority is energy conservation?
3. What type of exhaust system will your hood be connecting to?
4. What size and type of hood do you need?
5. What sash configuration do you require?



# understanding your fume hood.

A fume hood properly designed, manufactured, installed and operated will deliver a safe working environment to laboratory personnel. Each of our fume hoods are designed and built to enhance the laboratory experience while protecting the user within the lab. Our hoods are built to SEFA requirements, tested to ASHRAE-110 and can be UL listed. We provide a variety of hoods styled for different environments that can feature a chain and sprocket sash system, front-loaded valves, energy-efficient options and ergonomic designs. With over 20 years experience in the lab construction industry, New England Lab can help ensure the proper integration of hoods with the mechanical system of the lab. We offer a wide array of options and accessories to adapt your fume hood to your particular industry and will guide you through the process to help you choose wisely.

standard  
versatile, reliable



## PRO SERIES FUME HOOD

The Pro Series hood has been engineered for both performance and economical savings, making it our most requested model. Pro Series hoods come standard with stainless steel airfoils and a durable chain and sprocket sash system. The Pro Series product line is available in a variety of configurations from bench mounted to floor mounted to ADA, in addition to special applications such as distillation, perchloric acid and radioisotope.

**heavy duty**  
ergonomic strength



#### HARVARD SERIES FUME HOOD

Our Harvard Series hood is designed with some higher-end features such as a heavy-duty steel frame that adds strength to the hood structure. This hood also has ergonomically angled front posts that point the service handles and electrical outlets towards the operator. A glass by-pass panel is standard on this model in order to provide full sight lines within the hood. Also standard are high-performance stainless steel airfoils and durable chain and sprocket sash systems. This hood is ideally suited for use with VAV (Variable Air Volume) exhaust systems.

**enhanced efficiency**  
stylish containment



#### SAFEGUARD SERIES FUME HOOD

The Safeguard Series hood is developed for aesthetics, ergonomics, and energy efficiency. This hood has been designed with a smooth front panel for a more modern look. An epoxy-coated stainless steel flush airfoil flips up for easy access to the spill containment trough. Our standard chain and sprocket sash mechanism delivers the easiest and most reliable sash operation available with an exceptionally long lifespan. When released the self-lowering sash automatically returns to 18" to further protect the user and conserve energy. Our 34" high viewing sash provides a clear and unobstructed view of the fume hood interior.

## high performance

energy savings



### RFV2 SERIES FUME HOOD

The RFV2 (Reduced Face Velocity) Series hood is specifically designed for high performance and energy efficiency. This fume hood has been successfully tested to both standard and modified ASHRAE procedures at face velocities as low as 50 fpm. The unique rear baffle system combined with the performance sash handle and downwardly vectored airflow provide safe containment at low face velocity without the need for mechanical baffle systems or fans. The standard features include a flush sill with containment trough, a reliable chain and sprocket drive mechanism, and a self-lowering sash with full 34" high viewing.

## instructional

maximized visibility



### OBSERVATION SERIES FUME HOOD

The Observation Series hood was specifically designed to meet the needs of students and teachers. By combining side and back viewing windows, narrow posts and a 5° angled sash, enhanced visibility is achieved for both instruction and observation. Available in single or double-sided configurations, this hood features low profile airfoils, a high quality stainless steel cable sash drive system and a spill trough for secondary spill containment. It can be provided with an 18" self-lowering sash for extra protection for the operator and increased energy efficiency. This hood is suitable for non-corrosive teaching environments.

## specialized fume hoods

### variable conditions

#### OPTIMA SERIES FUME HOOD

The Optima Series hood features a push button adjustable height work surface that can be positioned between 30" and 36" to adapt to changing processes. Instant adjustability improves ergonomics and accommodates persons with disabilities. The self supporting structure allows for mobile cabinets below to be easily reconfigured for knee space or wheelchair access. Other standard features are the slim side posts that maximize the work surface area, the low profile airfoil with spill containment trough, durable chain and sprocket sash system, and an energy-saving self-lowering sash.

#### POLYPRO SERIES FUME HOODS

The Polypro Series hoods are extremely durable and highly resistant to corrosives. The seam-welded, light-weight construction has no exposed metals and is easily cleanable and stain resistant. With bonded thermal plastic construction, the Polypro hoods are ideally suited for acid digestion and other wet and corrosive applications.

#### DUCTLESS FUME HOODS

Our ductless fume hoods are designed to protect both the user and the environment from hazardous vapors and offer significant operational cost-savings. This specialized line of hoods utilizes carbon filtration technology to trap chemical vapors instead of releasing them into the environment. This hood is ideal for specific applications such as light chemical sampling, pipetting, weighing, and capsule filling.

## delivering the right hood.

At New England Lab, we know that your satisfaction with a fume hood depends upon us listening to you, understanding the requirements of your lab and delivering upon that understanding. Trust our experience to help determine which hood best suits your needs.

Hoods can be constructed in a multitude of sizes and configurations. Some hood types include:

- Bench Mounted
- Floor Mounted
- ADA Specified
- Distillation
- Teaching
- Double-Sided

Our line of fume hoods is designed to meet a variety of specialized applications such as:

- Radioisotope
- Perchloric Acid
- Demonstration
- Acid Digestion
- Explosion Proof
- Hydrofluoric Acid

Hoods must also tie in to various mechanical systems including HVAC, electrical and plumbing. Some hood operations to consider include:

- Constant Volume (CAV)
- Low Constant Volume
- Restricted By-Pass (VAV)
- High Performance

For further assistance in selecting your fume hood, contact one of our experienced lab furniture specialists at 888-635-2080 or [newenglandlab.com](http://newenglandlab.com).

# things to consider as you choose

Count on us to help you make smart and informed choices about fume hoods and the options that go under, over and inside them.

## plan with confidence:

### hood types

Our hoods come in a variety of types designed for specific applications and can be made to match your specific size requirements in height and depth. These types include: bench, floor-mounted, ADA, distillation, teaching, double-sided and canopy.

### specialty hoods

We offer hoods designed for many purposes. Whether you're testing and monitoring radioisotopes, handling perchloric/caustic acids or need clear viewing panels for student demonstrations we will be able to offer a lab-tested solution.

### sash types

Our chain-driven sashes include vertical, combination and split-postless designs. To meet your unique needs, horizontal-sliding sashes or a variety of tailored configurations are also available.

### work surfaces

Select from epoxy resin in a variety of colors, stainless steel or heavy-duty polymers. Sink options include multiple sizes, colors and mounting configurations.

### optional features

Compliment your fume hood's functionality with a wide variety of available options including: alarms, apparatus rods, tissue screens, sash stops, sash pockets, self-lowering sash mechanisms, automatic sash operators and pass-throughs.

### plumbing fixtures

Our front-loaded plumbing valves for water, air, vacuum and a full compliment of laboratory gases are designed for exceptional servicability. Valves are color-coded and can be factory installed to facilitate quick and efficient installations.

### 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. Whatever the need, we can provide the right option.



# new labs:

Lab-tested means three fundamental things: we'll understand what matters to you, take pride in our craft and products, and deliver service that makes your new lab right.

As you consider our guides for fume hoods, furniture systems, casework and the accessories that accompany them, look to New England Lab for consultation to help you choose the products that best fit your lab needs.



**furnished**  
with understanding

**crafted**  
with precision

**made right**  
with service