



Custom Engineered Solutions

Equipment enclosures, fume hoods, containment devices, and chemical emission mitigation.

SAFETY

Guaranteed through validation according to AFNOR NF X 15 211 safety standards.

PERFORMANCE

Backed with over 50 years experience in molecular and particulate air filtration technology. Meets AFNOR, ANSI, and ASHRAE standards.

SAVINGS

No HVAC means a significant reduction in construction, installation, and energy costs.

CONNECTIVITY

SMART Technology for real-time performance monitoring including the filters efficiency and face velocity.



6ft Custom Polypropylene Hood with Vertical Sliding Sash for Battery Applications

Each hood and filtration system is customized for your unique needs and to your specifications.



Erlab engineered solutions are professionally engineered, designed, and built with extremely durable, chemical-resistant, non-corrosive, and non-conductive thermo-plastic.

We integrate our state-of-the-art filtration technology which allows for design adaptability. This provides complete flexibility for your work flow process and in your lab design, removing the complexities of HVAC, reducing the need for added trades for installation, and providing an extremely energy efficient solution.

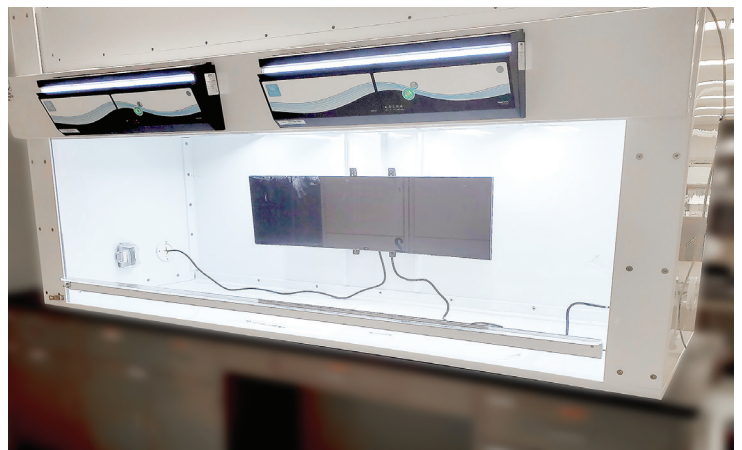
We manufacture our custom solutions at order placement after a thorough review of the final design.

- No ductwork needed
- Industry proven filtration technology
- Saves heating and cooling energy
- Reduces CO2 emissions
- Meets ANSI/ASHRAE (fume hoods)
- Exceeds AFNOR NF X 15 211
- Durable polypropylene is non-corrosive and non-conductive
- Designed with you, for your workflow needs

Polypropylene Hood wth veritical sliding hindge sash



Customized Walk-In Hood for 3D Printing



Customized 8 ft. Hood for Forensic Lab with vertical sliding sash

Erlab's filtration technology is used in university labs, research labs, pharmaceutical labs, trace metal labs, chemical wet labs, biotech labs, histology and pathology labs among others.

Guaranteed safety with over 650 chemicals tested to ensure compliance with the AFNOR NF X 15 211 standard, with each handling application individually validated by Erlab for performance efficiency.

[Contact us today to get started on your project!](#)

Partial examples of Erlab's custom solutions:

Custom Equipment Enclosure with Combo Sash



Custom based cabinets with surface mounted fixtures and sinks



A Backdraft table for gross anatomy process

Custom Isolator Hood for Hormone Therapy





About Erlab

The Erlab Research and Development laboratory

Since 1968, **Erlab** has been a specialist, inventor and world leader in **ductless, zero-emission filtering fume hoods for laboratories** to provide total safety in chemical handling.

1 Erlab filtration

We provide technologies to protect laboratory staff from inhaling chemicals. This is made possible thanks to our **Research and Development (R&D) department**, which has continuously improved our filtration technology **for more than 50 years**. That's why, in 2009, we invented the **ERLAB ABOVE** label for tried and tested filtration technology.

2 The AFNOR NF X 15-211: 2009 standard




Erlab's filtration technology conforms to the **NF X 15-211: 2009 standard**, the industry's most demanding standard for molecular filtration, developed by a committee of independent scientists and specialized manufacturers.

This text imposes performance criteria linked to:

- Filtration efficiency
- Containment efficiency
- Air face velocity
- Documentation: **chemical listing**

3 The ESP program

A set of three services included with the purchase of each device designed to ensure your safety.

-  **eValiQuest** Risk analysis – Determination of protection needs – Determination of ergonomic needs.
-  **ValiPass** Certified installation – Total safety for handling.
-  **ValiGuard** Ongoing monitoring – Preventative and maintenance inspections – Device reconfiguration based on protection needs – Development of handling.

4 Flex technology

The combination of molecular and particulate filtration technologies allows a single device to meet laboratories' protection needs. This innovation from Erlab's R&D department offers unprecedented **flexibility, versatility and value**. A single device can be reconfigured over time and easily reassigned to other applications.

5 Smart technology

Smart technology is a **simple and innovative** means of communication that improves safety. This technology uses a light and sound signal to indicate the user's level of protection. The advantages of the technology are:

- 1/ Light pulsation:** Real-time communication via LED light pulses intuitively alerts the user to the device's operating status.
- 2/ Simplicity:** One-touch activation.
- 3/ Detection system:** The exclusive detection system continuously monitors filtration performance.
- 4/ Built-in monitoring:** This service provides direct access to the **status, settings and history** of your device.

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