erlab
You can breathe.

Recognizing the difference and superiority of Erlab's filtration technology.

COMPLIANT WITH AFNOR NF X15-211 FILTRATION STANDARDS

It is critical to understand that a ductless fume hood is a safety device and the only thing between you and harmful chemicals, is the filter.

To ensure safety, compliance with AFNOR NFX 15-211 : 2009 is imperative. It is the industry's most stringent safety standard for ductless fume hoods.

To truly comply with AFNOR NFX 15-211 all of the criteria on the accompanying chart must be met by the manufacturer.

Before you make your decision on purchasing ductless filtration fume hoods, **ask for proof of compliance**, from the vendor, with all criteria on this safety standard list.

This makes our filtration superior	Ask for Proof - this is important
State-of-the-art R & D Laboratory	For over 50 years our expertise in the field of molecular filtration has kept thousands of users safe, world-wide. Our continued investment in technology, highly qualified staff, and state-of-the art analytical equipment ensures that we provide the best protection to the lab users. **Our expertise – Keeps you safe**
A Published Chemical List	We publish the efficiency of our filters for over 700 chemicals, tested under six different concentrations, twice! Compliance with the AFNOR NFX 15-211 is not just producing results from a set of specific chemicals, but rather a complete comprehensive list of the chemicals that are approved to be used with our filters. The chemical listing consists of not only the chemicals which can be retained, but also the overall molecular weight in grams. The total retention capacity for each chemical is at which point we have detected release at the filters exhaust no greater than 1% of the chemicals PEL/TLV. These results are the limits we set to ensure complete safety during three phases of performance: • Normal phase - guarantee that throughout the filters life there will never be release exceeding 1% of the TLV/PEL past the filters exhaust • Detection Phase - At which point a spike in concentration has occurred, release at the filters exhaust still will not exceed 1% of the TLV/PEL. • Safety Phase - alerts from SMART technology have been ignored and a spill has occured, we still provide a guarantee that exposure past the filters exhaust will not exceed 50% of the TLV/PEL for 1/12 of the filters lifetime. **We measure the safety of our filters**
Independent Testing	Proof of our claims. Independent testing is performed to validate the results of the chemical listing, efficiency of our carbon and HEPA/ULPA filters and containment of our enclosures. • Carbon filters – AFNOR NFX 15-211 & ANSI z9.5 2012 • HEPA/ULPA filters – EN 1822 • Enclosures – ASHRAE 110 **You will never be exposed to harmful chemicals or powders**
Chemical Assessment for your Chemical Handlings	A feasibility study of our customers handling is performed for every hood sold which considers the factors of the filters retention capacity for each chemical, vapor pressure, and potential by-products of every hood sold. This validation is possible due to our knowledge of the actual filters performance for each chemical as tested by our team of PhD chemists. The assessment provides a validation of the filter's life cycle, guaranteeing that during the life cycle and through each of the three phases exposure limits will never exceed the thresholds set as part of the AFNOR NFX 15-211 safety standard. **We are liable for your safety.**
Certificate of Validation	A certificate of validation is provided with every hood enclosure, listing the filters efficiency (filter life cycle), list of chemicals the hood was approved for, filter configuration and means of chemical detection (both manual and automatic). This is provided electronically and can be printed and posted on the front of each enclosure. As part of the Erlab Safety Program (ESP), a safety specialist will regularly follow up with you to be sure the hood is in proper working order, check if any chemicals used in the hood have changed, and inform you when your filters need replacement. **We put it in writing, guaranteeing your safety for life**

The Erlab Research and Development laboratory

About Erlab

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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