

Setting the record straight on filtered ductless fume hood misconceptions.

Ductless hoods are only good for low volume use.

While, this is true for some manufactures, Erlab has dedicated 50 years of R&D to continuously improve upon their filter's retention capacity and in fact has filters today that are able to retain high volumes of solvents and acids. This is proven with our test data which is provided to all of our customers, showing the retention capacities of each chemical. To date we have seen release no greater than 1% of the TLV past the filters exhaust.

Competition says ducted hoods are cheaper, amounting to half the cost of ductless hoods.

We are not comparing apples to apples when it comes to cost. With ducted hoods we must consider the cost of infrastructure (what it cost to connect the hoods to the building). If we are to compare the overall cost from install to startup of the hoods, ductless (filtered) hoods are on average ~40% less. The complete install of each product must be factored into the cost.

Filter replacements are too costly, difficult to dispose of, and need to be replaced often.

Due to our years of research and improvement of our filter retention capacities, our filters are changed on an average of every 2 years, reducing the overall total cost of ownership. As for disposal, used filters are either disposed of through the companies environmental services program, or shipped back to Erlab for disposal. It is important to note that the filters are not deemed "hazardous" as the molecules are adsorbed and do not leach, as proven by TCLP test performed on used filters from third party companies ("test available upon request").

There is no way a filtered hood can handle our application.

Let the experts determine this. All customer chemical handlings are analyzed by a team of chemist to ensure that filtered solutions are a feasible option for the customer. There are several variables that determine this, which include; handling frequency, quantity, vapor pressure of the chemical, molecular weight, and heat load. Once all these factors are analyzed a validation report will be provided providing the filters life cycle AND most importantly, guaranteeing the users safety as per the AFNOR NFX 15.211 standard.



Adsorb These Facts...

How AFNOR Certification
Guarantees the Safety of
Our Products

AFNOR NFX 12:211 (101) CONTAINMENT

The fume hood must maintain any chemical vapors or particles within the enclosure without any propagation in the lab environment.

Test protocol supplied upon request.



AFNOR NFX 12:211 (101) FACE VELOCITY

Represents the fume capacity to create a barrier between the operator and the handling.

Face velocity must be between 0.4 & 0.6 m/s.



AFNOR NFX 15:211 (101) DOCUMENTATION

Must have documentation providing a list of chemicals which can be retained by the filtration. This should indicate the CAS number, boiling point, breakthrough point, vapor pressure AND the filters retention capacity for each chemical during the normal operating phase, before there is detectable release no greater than 1% of the TLV.

Provide a certificate of validation of the handlings within the enclosure, with guaranteed life cycle of the filters performance.

Third party validation of the test data.



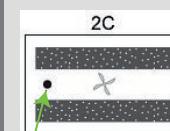
AFNOR NFX 15:211 (101) FILTRATION EFFICIENCY

Normal operating phase - Emissions at the filters exhaust must be lower than 1% of the TLV.

Detection Phase - The concentration at the filters exhaust must be lower than 1% of the TLV (Class 1), or 50% of the TLV (Class 2) and the automatic detection sensor must warn of breakthrough past the primary level of filtration.

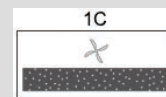
Safety Phase - The concentration at the filter exhaust must be lower than 50% of the TLV (class I).

Class 2



Automatic
Detection
Sensor

Class 1



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Simpler Safer

1-800-964-4434

Adsorb These Facts...

Our custom solutions are not 'just hoods'.

Due to the easy integration of Erlab's filtration technology and our developed partnerships, custom solutions are available to meet our customers demands.

From Walk-in hoods to back-draft/downdraft tables, Erlab, with the help of our partners, can provide a solution.

What are the benefits of Choosing Erlab Filters?



50 years of chemical filtration expertise



The Erlab Safety Program is included with every product.



The best value for your money.



Immediately available.

Custom Solutions

SMART Technology Features

Integrates a simpler and smarter way to communicate the products performance, which is monitored 24/7 and provides real-time communication via a SMART LED light and our eGuard web-based platform. Performance criteria monitored are:

- Face Velocity
- Filtration efficiency
- Hood operational time
- Blower speed and static pressure
- Data reports pulled of the hoods operational performance

eGuard web-based platform allows for 24/7 remote access and real-time communication of performance criteria.

Filtration Technology

Erlab's Filtration Technology, provides superior filtration for a broader range of chemicals, enhanced detection, and network communication.

The power of the Erlab Above lies within the patented technology of our filtration system which is ideal for multidisciplinary handlings.

Features:

Guaranteed safety through our advanced validation process of each chemical handling

Safety redundancy of filters

Detection sensor for monitoring of any concentration spike at the primary filters exhaust

Real time safety communication

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Adsorb These Facts...

Harvesting

Coconut shells are our organic media of choice. For this, coconut must be farmed and trees replenished. Once the coconuts are harvested, they are then activated using a proprietary process ensuring each granule provide the most efficient surface area .

Transportation

Since the transportation industry involves the shipment of goods from one location to another, the basic responsibility of reducing carbon emissions takes priority. We subscribe to benefits derived from logistics sustainability and efficiency that includes:

- Reducing Emissions-by reducing the overall number of miles driven, the total amount of noxious gasses released is reduced
- Reducing the amount of waste products
- Reducing the amount of energy consumed
- Alignment with governmental regulations & goals
- Increasing awareness among our customer base.

Filter Manufacturing

Erlab does not buy standard activated carbon. We have developed a carbon for our filters exclusively. We work with specialized partners to produce one of the most versatile active carbons in terms of molecular adsorption.

We specify a strict set of rules which are then meticulously controlled during production at our refinery and then again once it arrives at our laboratory. We always ensure that it meets international ASTM standards, AFNOR NF X 15 211 and BSA result standards.

Our experience in filtration provides the most advanced molecular air filtration in the industry, offering the versatility and efficiency necessary to accommodate solutions for a wide variety of laboratory applications.

The Green Journey of an Erlab Filter

Incineration Disposal

\$264.343 Performance standards ... an incinerator burning hazardous waste must achieve a destruction and removal efficiency (DRE) of 99.99% for each principal organic hazardous constituent (PHOC)...

Our pollution control system includes the following steps:

1. Nitrogen Oxide and sulphur oxide is removed
2. Mercury and Dioxin is removed
3. Acid Gas is removed
4. Particulate is removed
5. A pollution control test is performed
6. Water Vapor and harmless Cleaned Flue Gases are released to create clean Co2 to help replenish the coconut farms
7. Nontoxic sediment is taken to the landfill

