

Erlab's filtration process guarantees personal safety and laboratory success

## 1 Our expertise - to keep you safe State-of-the-art Laboratory

For over 50 years our expertise in the field of molecular filtration has kept thousands of users safe worldwide. Our continued investment in technology, highly qualified staff, and state-of-the-art analytical equipment ensures that we provide the best protection to lab users.

## 2 We measure the safety of our filters Published Chemical Listing

We publish the efficiency of our filters for over 700 chemicals, tested under six different concentrations, twice! Compliance with AFNOR NF X 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 chemicals that can be retained, but also the overall molecular weight in grams. We can retain each chemical before we have detected release at the filters exhaust no greater than 1% of the chemicals TLV. The retention listed for each chemical is based on this strict criteria and is the retention capacity in which we validate the filters efficiency (filter life cycle).

## 3 You will never be exposed to harmful chemicals or powders Independent Testing

Proof of our claims. Independent testing is performed to validate the results of the chemical listing, efficiency of HEPA/ULPA filters and containment of our enclosures

- Carbon filters-AFNOR NF X 15-211 & ANSI z9.5 2012
- HEPA/ULPA filters - EN 1822
- Enclosures - ASHRAE 110

## 4 We are responsible for your safety Chemical Assessment for Your Chemical Handlings

For every hood sold we implement a complete assessment study of the handlings performed within the hood enclosure. 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 there will never be release greater than 1% of the TLV released at the filters exhaust under normal operating conditions. It also must comply with strict safety criteria during a number of different operating conditions: such as the detection and safety phase, which guarantee that release at the filters exhaust never exceeds 50% of the TLV, of the cumulative chemicals used within the fume hood.

## 5 We put it in writing, guaranteeing your safety for life 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, a safety specialist will regularly follow up to ensure 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.

