# Product datasheet

## ChemTrap H402

Standalone filtration system for fire proof and chemical storage cabinets

With its 50 years of expertise in research, design, and manufacturing of filtering fume hoods, Erlab presents new Chemtrap filtration box with high-efficiency filtration system, which uses an innovative and straightforward mode of communication called smart technology and make your work simpler and safer.

### Safer to operate

- Exclusive Erlab filtration technology
- Filtration performances tested in accordance with AFNOR NF X 15 211
- Real time sensors to detect main filter saturation with solvents, acids or formaldehyde*

### Simpler to use with Smart-Light™

With Smart-Light, you can easily see that the hood is operating safely. Should the light pulse, you are notified that:
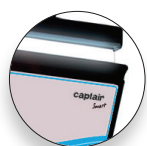- The filter has breakthrough
- There is a fan failure

**Filtration**
Demand the best filtration quality

**Simple to use**
Easy to install and to replace filters

**Safety**
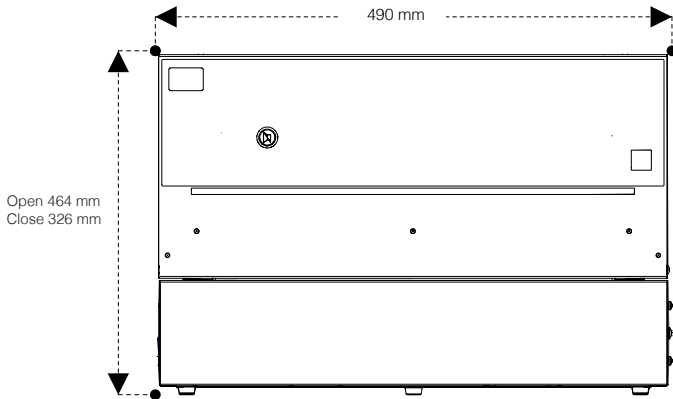A powerful communication interface via light pulses and sounds to enhance safety

**Compatibility**
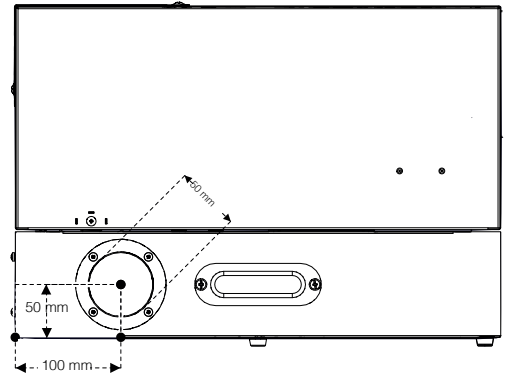Compatible with fire proof and other storage cabinets

* Compatible with fire proof and other storage cabinets
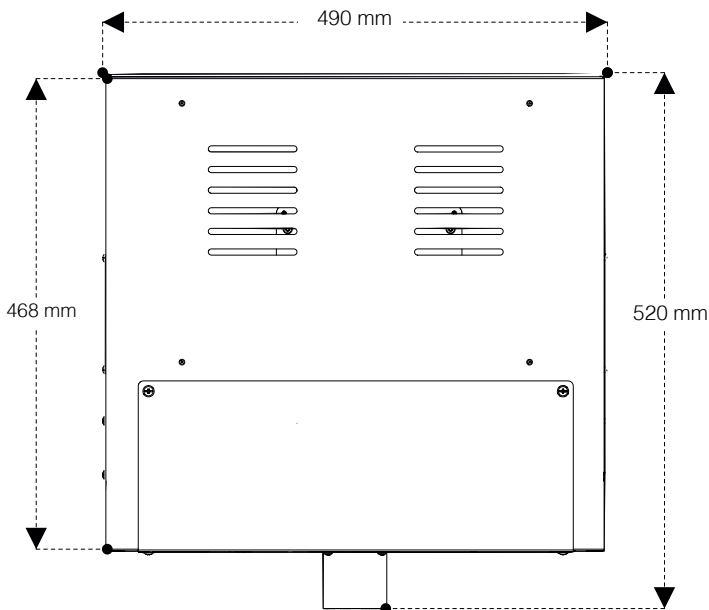Safety cabinet not provided

**Front view**

490 mm
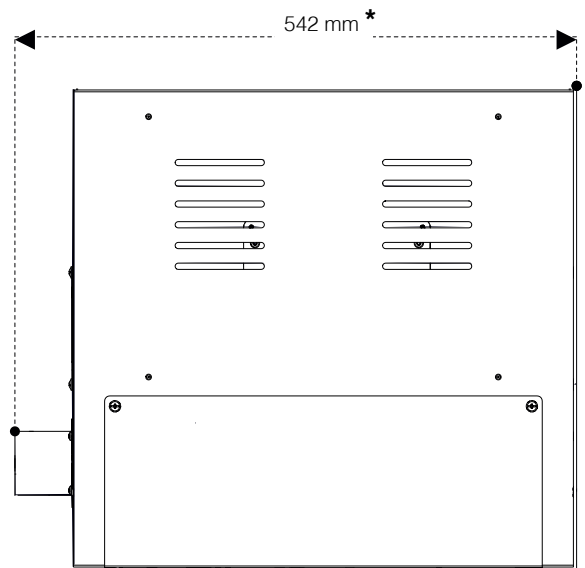
Open 464 mm
Close 326 mm

**Rear view**

50 mm

50 mm

100 mm

**Provided with 1 meter of flexible pipe with adjustable fitting**

| Heights of standalone | |
|---|---|
| Open | 464 mm |
| Close | 326 mm |

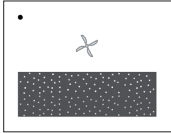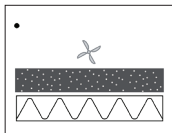**Top view With an outlet on the back**

490 mm

468 mm

520 mm

**Top view With an outlet on the right or left**

542 mm *

**\*  Same dimension with an outlet on the left**

**erlab**
You can breathe.

**FILTRATION TECHNOLOGY**
erlab
Above

Modular design of the filtration column allows to adapt to every protection needs

| Products handled / Applications | |
|---|---|
| **Liquid chemicals handlings** | **Liquid chemicals and powders handlings** |
| 1C | 1P1C |

**Available filters :**

C
**Carbon filtration for gases and vapors**
AS:For organic vapors BE+:Polyvalent for acid + organic vapors F:For formalde-hyde vapors K:For ammonia vapors

P
**Particulate filtration for powders**
HEPA H14:99.995 % efficiency filtration of particles over 0.1 $\mu m$ in size

✗ Ventilation

● **Molecode**
Automatic alarm to detect filter saturation (Optional)

| | |
|---|---|
| **External width (mm / in)** | 482 / 19 |
| **External depth (mm / in)** | 451 / 17 3/4 |
| **Heights of standalone (mm / in)** | 326 / 12 3/8 |
| **Air flow (m3/h / CFM)** | 60 m3/h / 35 CFM |
| **Safety Standards** | Filtration performances tested according to the AFNOR NF X 15-211:2009 standard : France EN 1822: 1998 (HEPA H14) - CE Marking EN 61010 |
| **Voltage / Frequency (V/Hz)** | 110 - 230 V / 50 - 60 Hz |
| **Power consumption (Watts)** | 20 |
| **Flexible PVC pipe (meter / feet)** | 1 m / 3' 1" |
| **PVC fitting** | 50 to 100 mm / 2 to 4 in |

## Features

| | |
|---|---|
| **Smart Technology*** | Simple communication by LED pulsation system: fan alarm, optional filter performance alarm |
| **Connectivity*** | RJ45 cable connection |
| **Chemical Listing** | List of approved chemicals |

## Options

| | |
|---|---|
| **Carbon filtration for gases and vapors** | AS : For organic vapors - BE+ : For organic and acid vapors F : For formaldehyde vapors - K : For ammonia vapors |
| **Particulate filtration for powders** | HEPA H14 : 99.995 % filtration efficiency according EN1822 standard |
| **Optional molecode gas sensors*** | Detection sensor: Type A, for acids / Type F, for formaldehyde / Type S, for solvents |

## Structure

| | |
|---|---|
| **Metallic parts** | Anti-corrosion steel coated with 100% polyester |
| **Filtration module** | Injected polypropylene |

* Not available on Chemtrap Midcap

# 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.