

# Product datasheet

## Captair 391

Ductless filtering fume hoods

### Safer to operate

- Erlab's advanced carbon filtration technology and/or HEPA/ULPA accommodates your specific needs
- Meets AFNOR NF X 15 211/ANSI Z9.5-2012 filtration efficiency standard (class 1 and 2)
- Sensors that detect filter break through of solvents, acids or formaldehyde
- Safety back up filter in case of main filter saturation.
- Continuous monitoring of Air face velocity.
- Erlab Safety Program: application analysis and validation, usage certification, filter change reminders.

### Simpler to use

With Smart-Light, you can easily see that the hood is operating safely. Should the light pulse you are notified that:

- Containment has been compromised or,
- The filter has breakthrough or,
- There is a Fan failure

### Flexibility

- The configurable filtration column will accommodate application changes.
- No ductwork needed. This allows you to move the hood anywhere.

### Savings

- No ductwork cost
- Annual energy costs decreases significantly.
- Energy savings outweigh filter replacement costs.

### Environment

- No dangerous chemical released into the atmosphere.
- Low energy consumption.

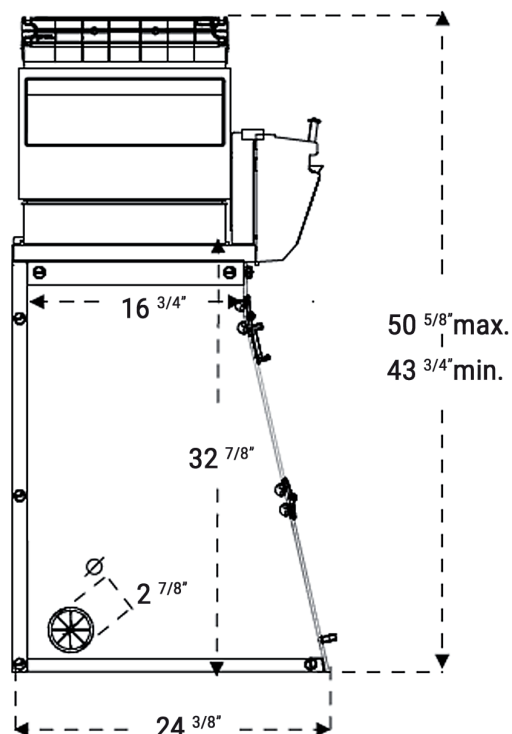
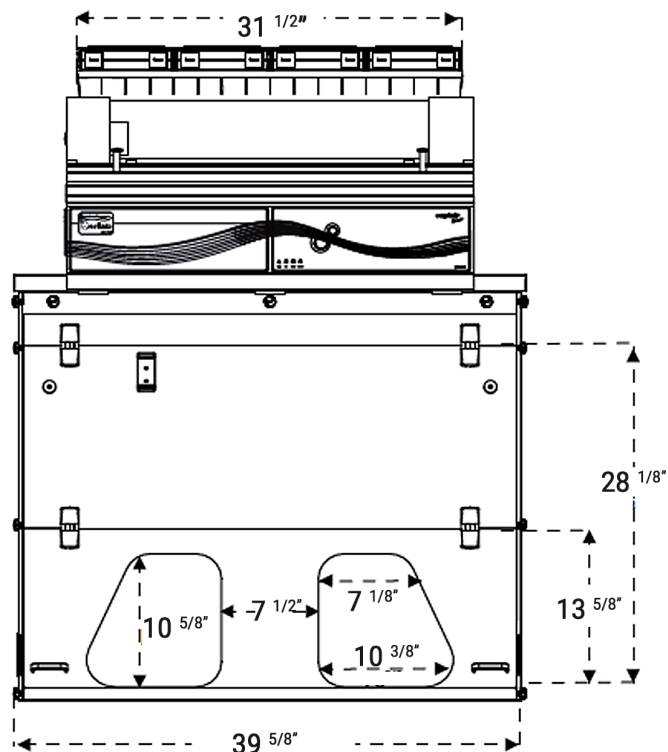


You get the highest level of filtration performance.



Smart-Light keeps you safe.

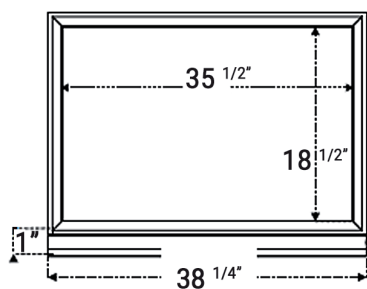




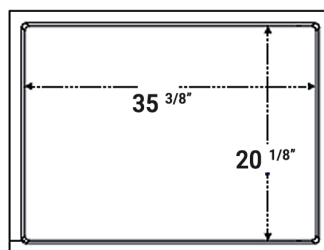
Heights according to the filtration column configuration		
Type 1C or 1P	43 3/4"	Please add 5 7/8" between the last filter and the ceiling to allow for good air recirculation and to replace filters easily.
Type 2C or 1P1C or 1C1P	47 1/2"	
Type 1P2C or 1P1C1P	50 5/8"	

Work surfaces with built in spill tray

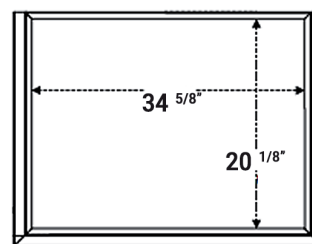
Tempered glass



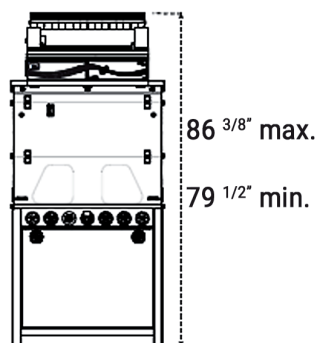
TRESPA®TopLab<sup>PLUS</sup>



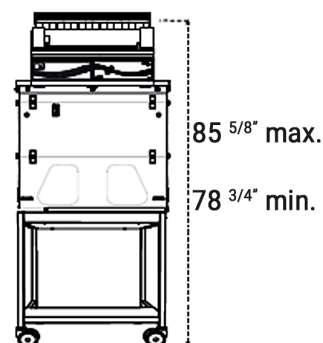
304 L stainless steel



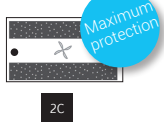
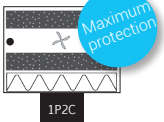
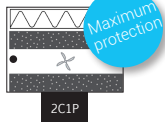
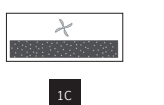
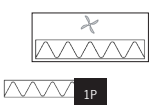
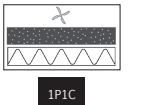
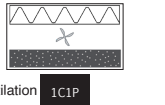
Benchcap: fixed work bench



Mobicap: mobile rolling cart



Designed with you in mind:  
Our filtration column can be  
configured for your specific  
application requirements.

		Products handled / Applications			
		Liquid chemicals handlings	Powders handlings	Liquid chemicals and powders handlings	Liquid chemicals handlings in clean room
Customized filtration column	Class 1* according to the NF X 15-211		NA		
	Class 2 according to the NF X 15-211				

#### Available filters :

**Carbon filtration for gases and vapours**  
AS:For organic vapours  
BE+:Polyvalent for acid + organic vapours  
F:For formaldehyde vapours  
K:For ammonia vapours

**Particulate filtration for powders**  
HEPA H14:99.995 % efficiency filtration of particles over 0.1 µm in size  
ULPA U17:99.99995 % efficiency filtration of particles over 0.1 µm in size

- **Molecule**  
Automatic alarm to detect a filtration fault

<b>Safety Standards</b>	AFNOR NF X 15-211:2009: France - BS 7989: England DIN 12 927:Germany - EN 1822:1998 (HEPA H14 & ULPA U17 Filters) - CE Marking
<b>Air Flow</b>	220 m3/h - 129 CFM
<b>Air Face Velocity</b>	0.4 to 0.6 m/s - 79 fpm to 118 fpm
<b>Voltage/Frequency</b>	90-220 V / 50-60 Hz
<b>Power consumption</b>	65 W
<b>Sash openings</b>	<a href="#">Hinged Sash</a>
<b>Structure</b>	Corrosion resistant electro-galvanized steel coated with anti-acid polymer
<b>Side and front panels</b>	Chemical resistant acrylic
<b>Filtration module</b>	Polypropylene

## Equipment

<b>Communication interface</b>	Simple communication by audible and light pulses: air face velocity, automatic alarm to detect a filtration fault, ventilation settings, fan failure alarm
<b>Filtration technology</b>	1 column that can be configured to handle liquids, powders, or both
<b>Carbon filtration for gases and vapours</b>	Following filtration column configuration (see table above)
<b>Particulate filtration for powders</b>	Following filtration column configuration (see table above)
<b>Internal lighting</b>	LED lighting > 650 Lux
<b>Anemometer</b>	Air face velocity alarm
<b>Chemical Listing</b>	List of approved chemicals

## Accessories

<b>Work Surfaces</b>	TRESPA® TOPLAB <sup>PLUS</sup> , Glass or 304L Stainless Steel
<b>Molecule</b>	Detection sensor for : Type S, for solvents / Type A, for acids / Type F, for formaldehyde
<b>Benches</b>	Mobile (Mobicap) or fixed (Benchcap)
<b>Particulate Pre-filter</b>	Protects the main filter(s) from dust
<b>Transparent Back Panel</b>	Clear acrylic panel for easy viewing

# 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.



**eValQuest** 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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