

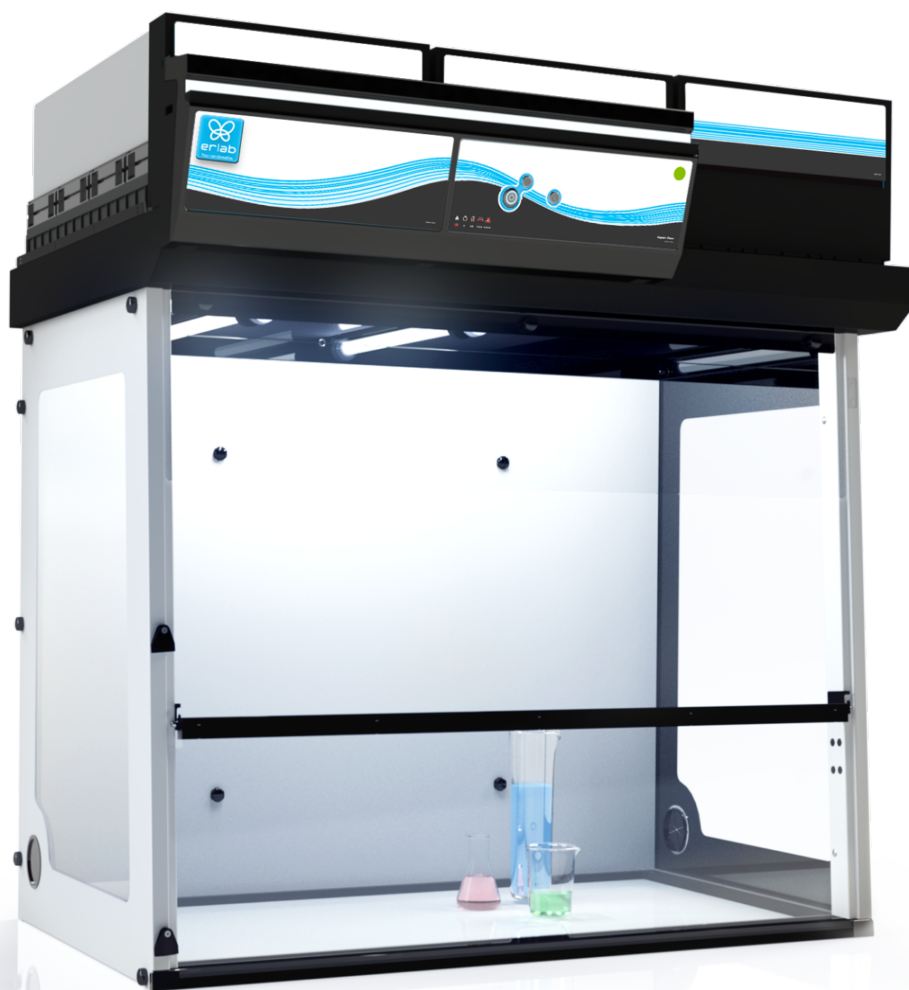


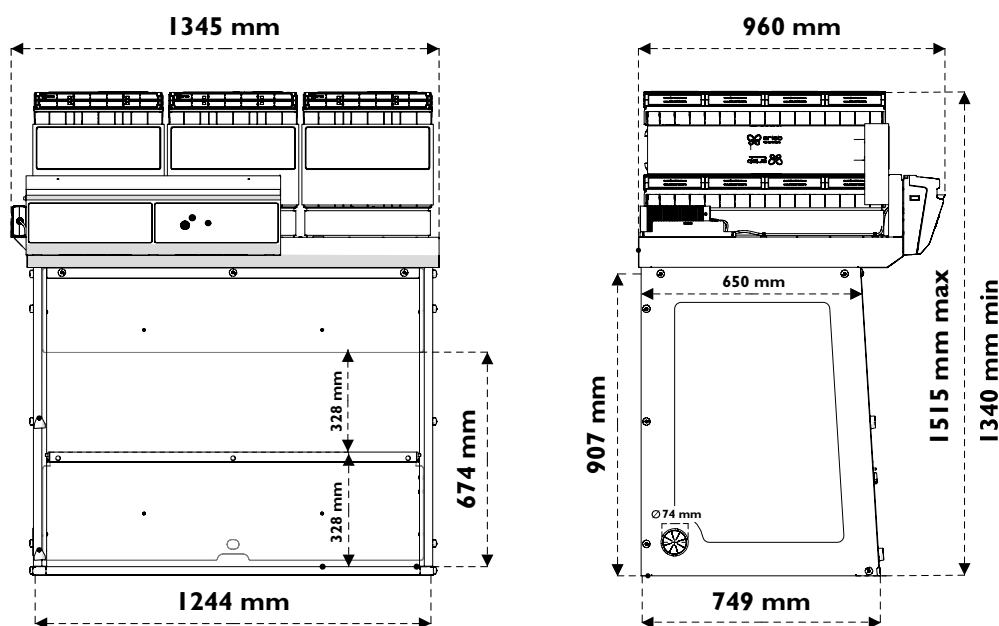
## Product datasheet

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### Captair 483 Smart

Ductless filtering fume hoods





#### Heights according to the filtration column configuration

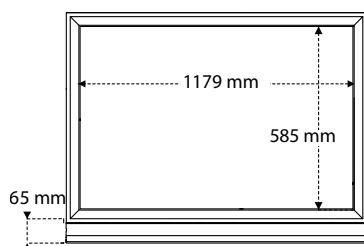
Type 1C or 1P	1340mm
Type 2C or 1P1C or 1C1P	1435mm
Type 1P2C or 1P1C1P	1515mm



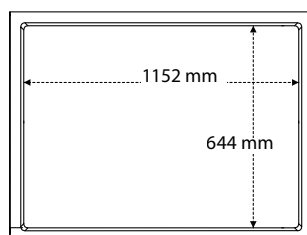
Please add 150mm between the last filter and the ceiling to allow a good air recirculation and to replace filters easily.

#### Work surfaces with built-in spill tray

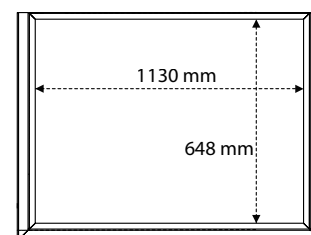
**Tempered glass**  
Retention volume (8L)



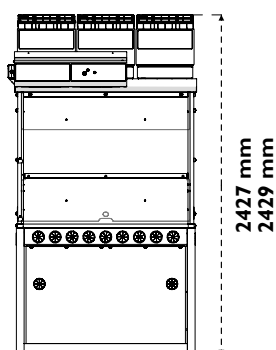
**Trespa® Top Lab<sup>PLUS</sup>**  
Retention volume (7L)



**304L stainless steel**  
Retention volume (18L)

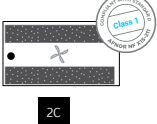
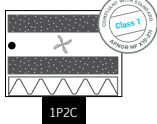
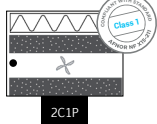
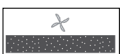
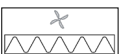
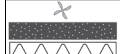
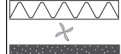






#### Benchcap: Fixed work bench





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

		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 X15-211 standard	 2C	N/A	 1P2C	 2C1P
	Class 2 according to the NF X15-211 standard	 1C	 1P	 1P1C	 1C1P
		 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 0.1µm in size ULPA U17: 99.99995% efficiency filtration of particles over 0.1µm in size	 Ventilation  ● Molecode Automatic alarm to detect a filtration fault	 Class 1 = Maximum safety

<b>Safety standards</b>	AFNOR NF X15-211: 2009: France – BS 7989: England DIN 12 927: Germany – EN 1822: 1998 (HEPA H14 & ULPA U17 Filters) – EU Marking
<b>Air flow</b>	660m³/h – 135CFM
<b>Air face velocity</b>	0.4 to 0.6m/s – 79fpm to 118fpm
<b>Voltage/Frequency</b>	110-230V/50-60Hz
<b>Power consumption</b>	160W
<b>Sash opening</b>	Reverso sash or total openings
<b>Structure</b>	Corrosion resistant electro-galvanized steel coated with antiacid polymer
<b>Side and front panels</b>	Chemical resistant acrylic
<b>Filtration module</b>	Polypropylene

## Features

<b>Communication interface</b>	Simple communication by audible and light pulses: unit running time, air face velocity, automatic alarm to detect a filtration fault, ventilation settings, fan failure alarm
<b>Filtration technology</b>	3 columns 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>Monitoring</b>	Real-time control of security settings
<b>Monitoring of ambient handling conditions</b>	Temperature (T°) / Hygrometry (RH) sensors
<b>Internal lighting</b>	LED lighting > 650lux
<b>Anemometer</b>	Air face velocity alarm / Air face velocity indicator
<b>Chemical listing</b>	List of 700+ approved chemicals compliant with AFNOR NF X15-211 filtration standards
<b>Ceiling lighting</b>	ON/OFF light button
<b>Work surfaces</b>	Tempered glass / Trespa® Top Lab <sup>PLUS</sup> / 304L stainless steel

## Options

<b>Molecode</b>	Detection sensor: Type A, for acids / Type F, for formaldehyde / Type S, for solvents
<b>Benches</b>	Fixed (Benchcap)
<b>Bench equipment</b>	Technical gases outlets, water outlets, front control valves, sink, power sockets (Only compatible with Trespa® Top Lab <sup>PLUS</sup> worktop and fixed bench)
<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 X15-211: 2009 standard

ERLAB's filtration technology conforms to the **NF X15-211: 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 programme

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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