erlab
You can breathe.

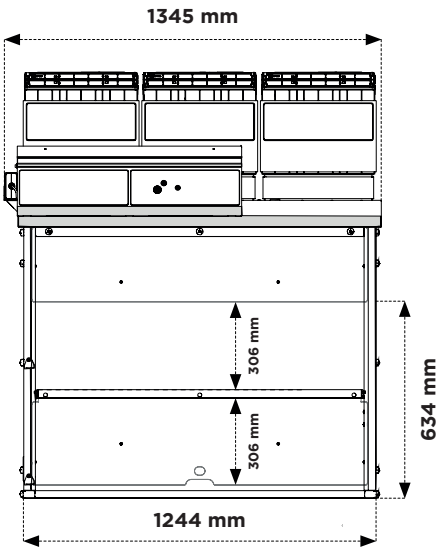
PRODUCT DATASHEET

Captair 483 Smart

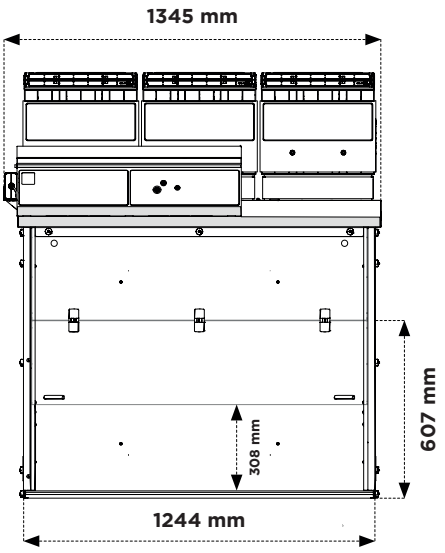
Ductless filtering fume hoods

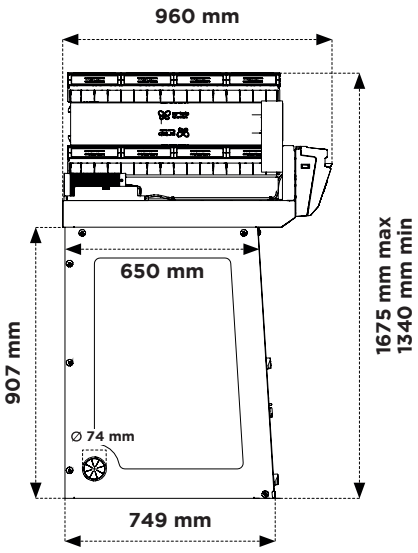


Reverso opening



Sequential opening



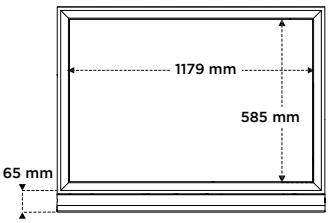


Heights according to the filtration column configuration	
Type 1C or 1P	1340 mm
Type 2C or 2P	1435 mm
Type 1P 1C or 1C 1P	1515 mm
Type 2C 1P	1585 mm
Type 1P 2C	1595 mm
Type 1P 1C 1P	1675 mm

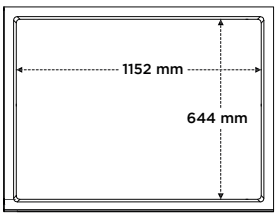
Please add **150 mm** between the last filter and the ceiling to allow a good air recirculation and to replace filters easily.

Work surfaces with built-in spill tray

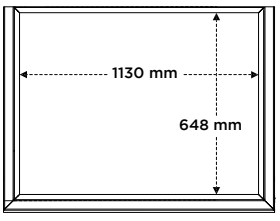
Tempered glass
Retention volume (8 L)



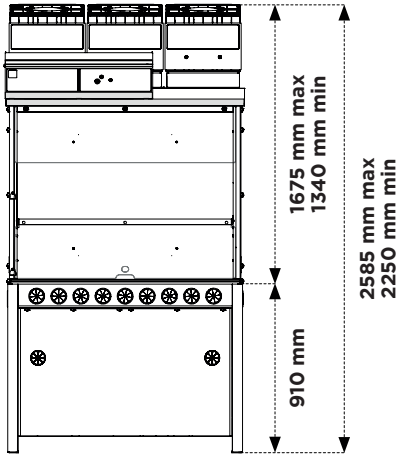
Trespa® Top Lab^{PLUS}
Retention volume (7 L)



304L Stainless Steel
Retention volume (18 L)



Benchcap:
Fixed work bench



erlab
You can breathe.

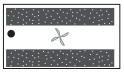
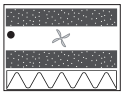
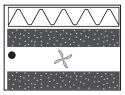
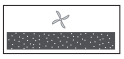
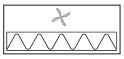
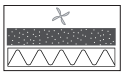
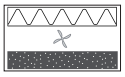
Captair 483 Smart

Ductless filtering fume hoods

FILTRATION TECHNOLOGY
erlab Above

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

- C
- P
- **Ventilation**
- **Molecode**
  Automatic alarm to detect a filtration fault

Customized filtration column	Products handled / Applications			
	Liquid chemicals handlings	**Powders handlings**	**Liquid chemicals and powders handlings**	**Liquid chemicals handlings in clean room**
	Class 1, NF X15-211 standard compliant		Class 1, NF X15-211 standard compliant	Class 1, NF X15-211 standard compliant
	Class A/2/1, EN 17242 standard compliant		Class A/3/1, EN 17242 standard compliant	Class A/3/1, EN 17242 standard compliant
	2C 	—	**1P 2C** 	**2C 1P** 
	Class 2, NF X15-211 standard compliant	Class 2, NF X15-211 standard compliant	Class 2, NF X15-211 standard compliant	Class 2, NF X15-211 standard compliant
	Class A/2/0, EN 17242 standard compliant	Class A/1/0, EN 17242 standard compliant	Class A/3/0, EN 17242 standard compliant	Class A/3/0, EN 17242 standard compliant
	1C 	**1P** 	**1P 1C** 	**1C 1P** 

Carbon filtration for gases and vapours

AS: For organic vapours
BE+: Polyvalent for acid + organic vapours
F: For formaldehyde vapours
F+: For formaldehyde vapours + light solvents
K: For ammonia vapours

Particulate filtration for powders

HEPA H14: 99.995% efficiency filtration of particles over 0,1 µm in size

ULPA U16: 99.99995% efficiency filtration of particles over 0,1 µm in size

According to NF X15-211 standard

Class 1 = Maximum safety

Technical specifications

Safety standards	AFNOR NF X15-211:2009 – EN 17242:2025 – BS 7989:2001 EN 1822:1998 (HEPA H14 & ULPA U16 filters) – EU Marking
Air flow	660 m^3/h
Air face velocity	0.4 to 0.6 m/s
Voltage/Frequency	110-230 V / 50-60 Hz
Power consumption	160 W
Sash opening	Reverso or Sequential opening
Structure	Corrosion resistant electro-galvanized steel coated with antiacid polymer
Side and front panels	Chemical resistant acrylic
Filtration module	Polypropylene

Features

Communication interface	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
Filtration technology	3 columns that can be configured to handle liquids, powders, or both
Carbon filtration for gases and vapours	Following filtration column configuration (see table above)
Particulate filtration for powders	Following filtration column configuration (see table above)
Monitoring	Real-time control of security settings
Monitoring of ambient handling conditions	Temperature (T°) / Hygrometry (RH) sensors
Internal lighting	LED lighting > 650 lux
Anemometer	Air face velocity alarm / Air face velocity indicator
Approved Products Guide (Chemical Listing)	Information guide for over 700 chemicals tested under AFNOR NF X15-211 conditions and for target molecules in accordance with EN 17242 standards
Ceiling lighting	ON/OFF light button

Options

Molecode	Detection sensor: Type A, for acids / Type F, for formaldehyde / Type S, for solvents
Bench equipment	Fixed (Benchcap)
Fluids and energy	Technical gases outlets, water outlets, front control valves, sink, power sockets (only compatible with Trespa® Top Lab^{PLUS} worktop and fixed bench)
Particulate prefilter	Protects the main filter(s) from dust
Transparent back panel	Clear acrylic panel for easy viewing



The ERLAB Research and Development Laboratory

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 X15-211:2009 and EN 17242:2025 standards

ERLAB's filtration technology complies with 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, as well as with the **EN 17242:2025** standard, which extends these requirements across Europe.

These standards impose performance criteria related to:

- Filtration efficiency
- Containment efficiency
- Air face velocity
- Documentation: **chemical listing**
- Risk assessment

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

eValiPass® Certified installation – Total safety for handling

eValiGuard® 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.

V10_Captair_483_Smart_2026 – ERLAB France – Technical data are not contractual. ERLAB reserves the right to modify the present document without prior notice.

Contact

France
+33 (0) 2 32 09 55 80
ventes@erlab.net

Germany
0800 330 47 31
export.north@erlab.net

United States
+1 800-964-4434
captairsales@erlab.com

United Kingdom
+44 (0) 1722 341 940
export.north@erlab.net

Spain
+34 936 732 474
export.south@erlab.net

Italy
+39 (0) 2 89 00 771
export.south@erlab.net

China
+86 (0) 512 5781 4085
sales.china@erlab.com.cn