

# Product datasheet

## Captair 321 Smart & Midcap

Ductless filtering fume hoods

### Safer to operate

- Erlab Exclusive filtration technology combining activated carbon and HEPA/ULPA to adapt to the manipulation
- AFNOR Meets NFX 15 211/ANSI Z9.5-2012 filtration efficiency standard (class 1 and 2)
- Real time sensors to detect main filter saturation with solvents, acids or formaldehyde
- Safety filter in case of main filter saturation
- Air face velocity permanent monitoring
- Erlab Safety Program: application analysis and validation, usage framework certification, usage follow-up
- Connected device allowing reception of safety notifications and use status

### Simpler to use

Real time status communication by light and sound pulses:

- Air face velocity decrease
- Main filter saturation
- Fan failure
- Excess scheduled working time

### Flexibility

- Modular filtration column adapting to application changes
- Easy and fast relocation

### Savings

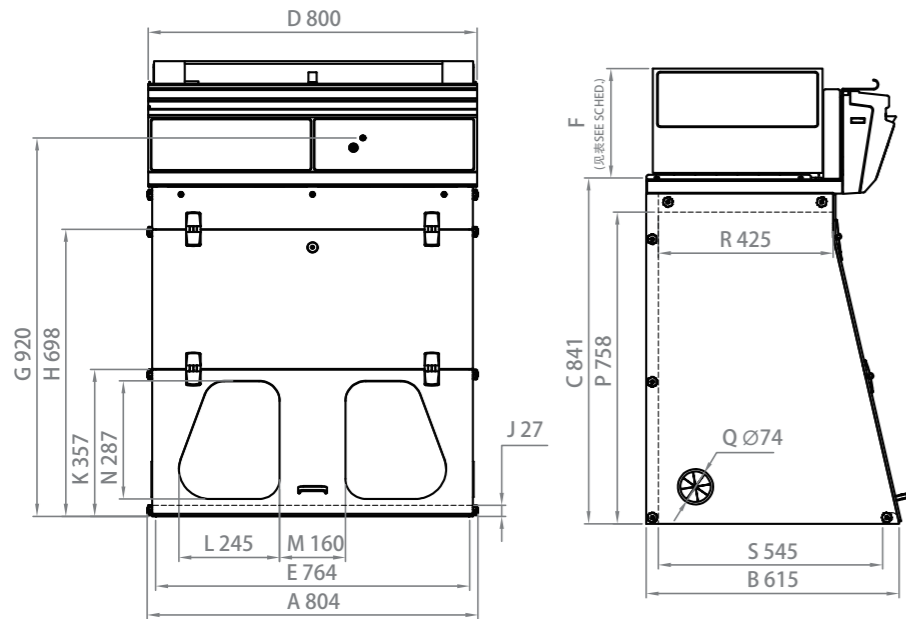
- No ductwork cost
- Deliver energy savings
- Compared to an extraction fume cupboard, energy savings compensate filter replacement cost

### Environment

- No chemical release into the atmosphere
- Low energy consumption



Dimensions(mm)

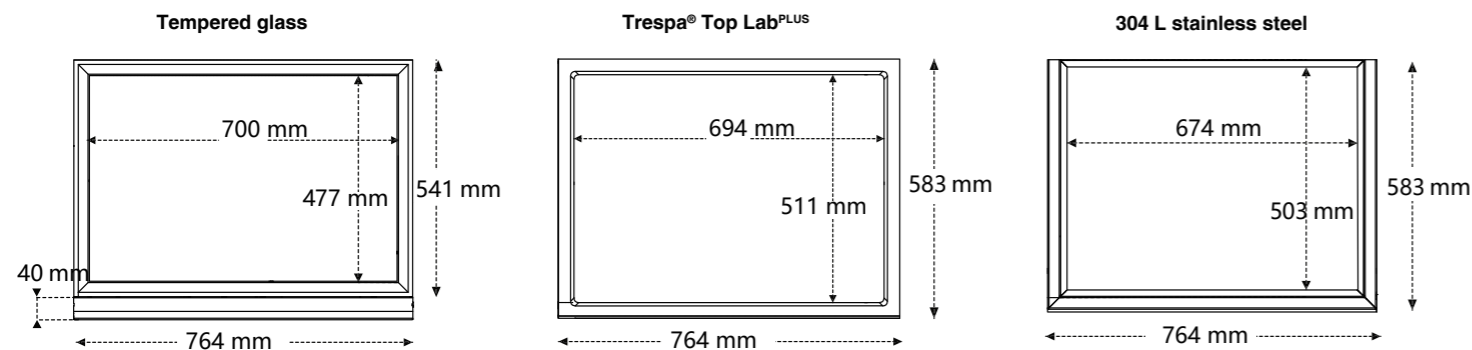


SYMBOL	DESCRIPTION
A	Overall width
B	Overall depth
C	Filter installation height
D	Width of Command Module
E	Internal width of hood
F	Filter height*
G	Height of button
H	Maximum opening height of sash
J	Height of armrest bar
K	Opening height of lower sash
L	Maximum width of operation window
M	Distance between operation windows
N	Maximum height of operation window
P	Internal height of hood
Q	Passing through diameter of cable port
R	Internal depth of hood - top
S	Internal depth of hood - bottom

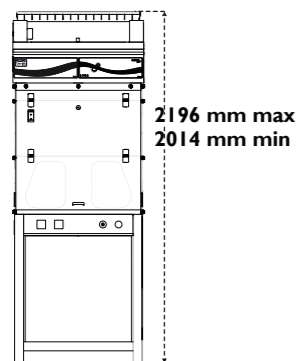
Heights according to the filtration column configuration	
Type 1C or 1P	1107 mm
Type 2C or 1P1C or 1C1P	1204 mm
Type 1P2C or 1P1C1P	1289 mm

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

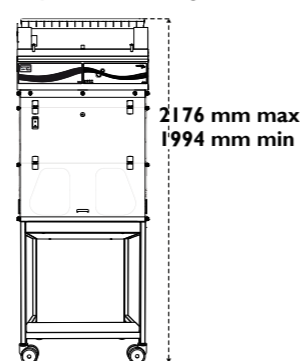
Work surfaces with built in spill tray



Benchcap: fixed work bench



Mobicap : mobile rolling cart



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

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

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

**P** Particulate filtration for powders  
 HEPA H14:99.995 % efficiency filtration of particles over 0.1 µm in size  
 ULPA U17:99.999995 % efficiency filtration of particles over 0.1 µm in size

Ventilation  
 Molecode Automatic alarm to detect a filtration fault  
 Class 1 = Maximum safety

<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
<b>Air Face Velocity</b>	0.4 to 0.6 m/s
<b>Voltage/Frequency</b>	100-240 V / 50-60 Hz
<b>Power consumption/Max. amperage absorbed</b>	65 W / 0.65A
<b>Net Weight (kg)</b>	28.6kg
<b>Sash openings</b>	Ergonomic oblong holes
<b>Structure</b>	Corrosion resistant electro-galvanized steel coated with anti-acid polymer
<b>Side and front panels</b>	Chemical resistant acrylic , Poly(methyl methacrylate) (PMMA)
<b>Filtration module</b>	Polypropylene (flame retardant)

Equipment

<b>Communication interface</b>	Simple communication by audible and light pulses: unit running time, air face velocity, automatic filter saturation detection, 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>eGuard</b>	Remote control to monitor the Smart fume hood, change the settings, and deliver safety alerts immediately.
<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® Top Lab <sup>plus</sup> , Glass or 304L Stainless Steel
<b>Molecode</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>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 X 15-211: 2009 standard

Erlab's filtration technology conforms to the **NFX 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 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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