

# **Product datasheet**

# Captair 483 Smart

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

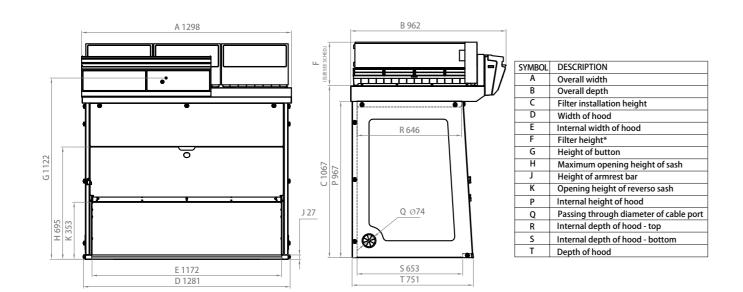
- No chemical release into the atmosphere
- Low energy consumption





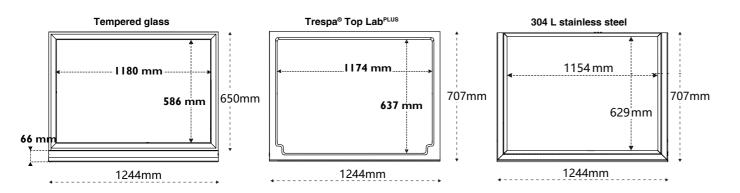


### Dimensions(mm)

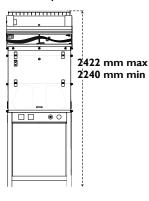


Heights according to the filtration column configuration		
Type 1C or 1P	1333 mm	
Type 2C or 1P1C or 1C1P	1430 mm	Please add 150mm between the last filter and the ceiling to allow a good air recirculation and to replace filters easily
Type 1P2C or 1P1C1P	1515 mm	

#### Work surfaces with built in spill tray



#### Benchcap: fixed work bench

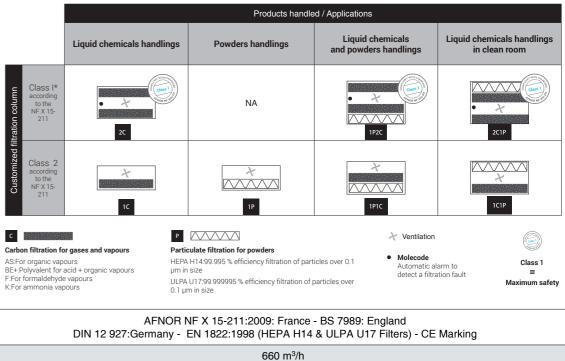




Modular design of the filtration column allows to

adapt to every protection

. needs



Carbon filtration for gases and vapours AS:For organic vapours

Safety Standards	AFNOR NF X 18 DIN 12 927:Germany - EN 182
Air Flow	
Air Face Velocity	
Voltage/Fequency	
Power consumption/ Max. amperage absorbed	
Net Weight (kg)	
Sash openings	
Structure	Corrosion resistant elect
Side and front panels	Chemical resist
Filtration module	

### Equipment

Communication interface	Simple communication by audible and light puls venti
Filtration technology	1 column that can be
Carbon filtration for gases and vapours	Following filtratio
Particulate filtration for powders	Following filtratio
eGuard	Remote control to mo and d
Internal lighting	
Anemometer	
Chemical Listing	L
Accessories	
Work Surfaces	Trespa® Top
Molecode	Detection sensor for : Type S, f
Benches	Mobile
Bench equipment	Technical gases outlets, wa (Only compatible with
Particulate Pre-filter	Prote
Transparent Back Panel	Clea

# Captair 483 Smart

Ductless filtering fume hoods

0.4 to 0.6 m/s

100-240 V / 50-60 Hz

160 W / 1.6A

60.4kg

Ergonomic oblong holes

tro-galvanized steel coated with anti-acid polymer

stant acrylic , Poly(methyl methacrylate) (PMMA)

Polypropylene (flame retardant)

lses: unit running time, air face velocity, automatic filter saturation detection, tilation settings, fan failure alarm

e configured to handle liquids, powders, or both

ion column configuration (see table above)

on column configuration (see table above)

onitor the Smart fume hood, change the settings, deliver safety alerts immediately

LED lighting >650 Lux

Air face velocity alarm

List of approved chemicals

p Lab<sup>plus</sup>, Glass or 304L Stainless Steel

for solvents / Type A, for acids / Type F, for formaldehyde

e (Mobicap) or fixed (Benchcap)

ater outlets, front control valves, sink, power sockets n Trespa® Top Lab<sup>plus</sup> worktop and fixed bench)

tects the main filter(s) from dust

ear acrylic panel for easy viewing



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.

### **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.

### 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 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.
- $\tilde{\Box}$

**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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