



# Captair 481 Smart

Ductless filtering fume hoods

## Safer to operate

- Exclusive Erlab filtration technology combining activated carbon and HEPA/ULPA to adapt to the manipulation
- Meets AFNOR 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
- Annual energy cost < 100
- Compared to an extraction fume cupboard, energy savings compensate filter replacement cost

## Environment

- No chemical release into the atmosphere
- Low energy consumption



Ask for the  
highest level of  
filtration  
performances



Powerful light  
guided  
communication



Connect your equipment  
and benefit from the  
remote access thanks to  
our mobile solutions



Download our  
eGuard application

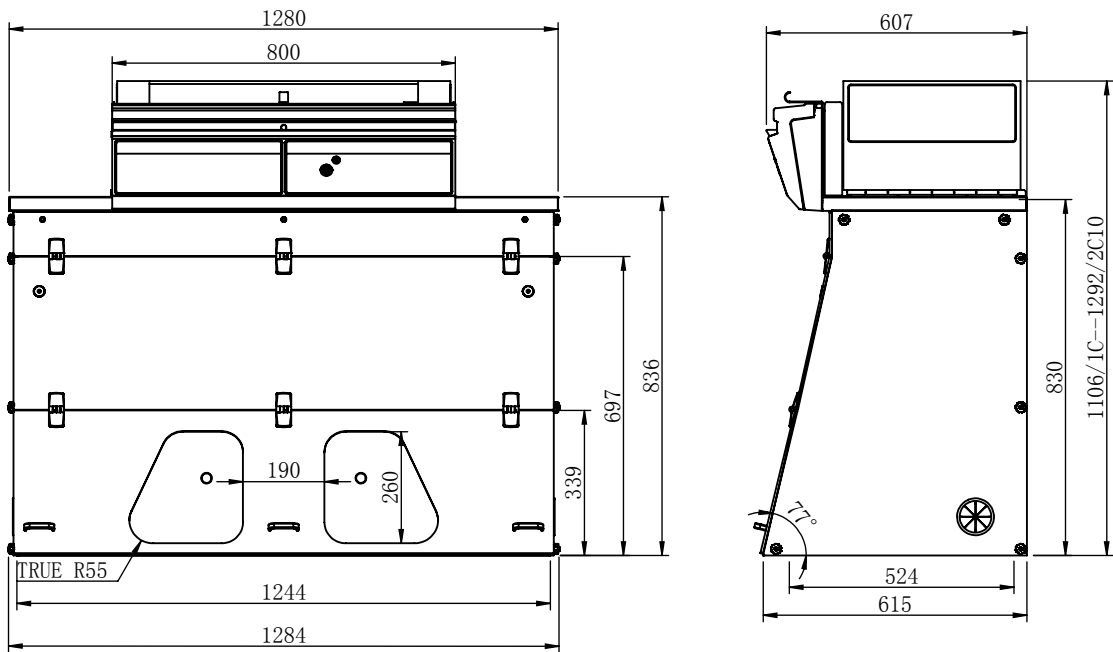


## Ductless Filtering Fume Hoods

Erlab's innovative technology keeps you safe

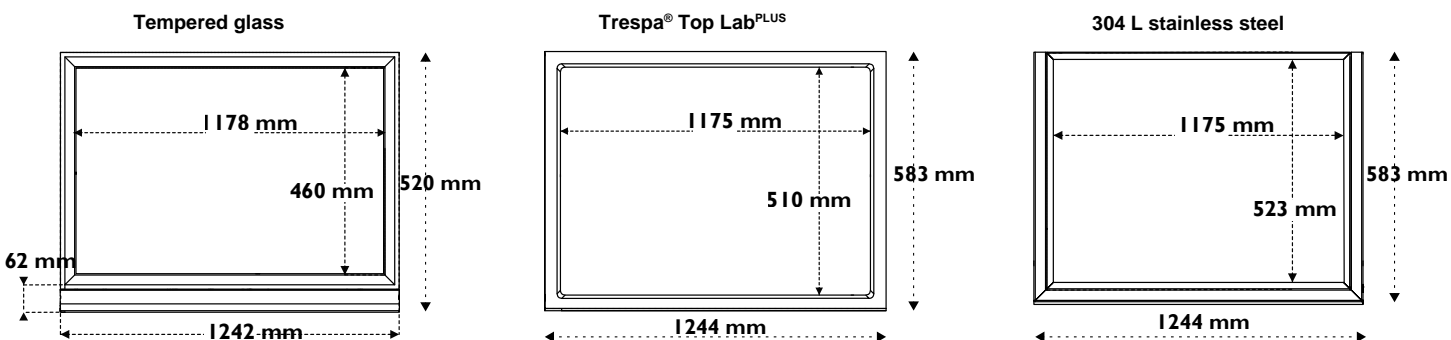
## Ductless Filtering Fume Hoods

**Dimensions(mm)**

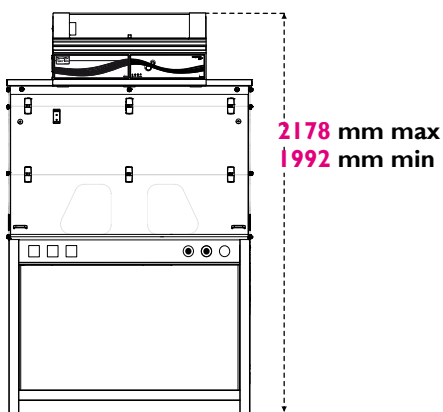


Heights according to the filtration column configuration		
Type 1C or 1P	1106 mm	Please add 150mm between the last filter and the ceiling to allow a good air recirculation and to replace filters easily
Type 2C or 1P1C or 1C1P	1205 mm	
Type 1P2C or 1P1C1P	1292 mm	

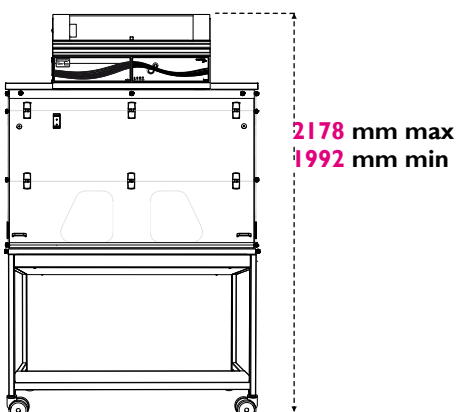
### Work surfaces with built in spill tray










**Benchcap: fixed work bench**



**Mobicap : mobile rolling cart**



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

		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	 2C	NA	 1P2C	 2C1P
	Class 2 according to the NF X 15-211	 1C	 1P	 1P1C	 1C1P

**Available filters :**

**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

**Particulate filtration for powders**

HEPA H14:99.995 % efficiency filtration of particles over 0.1  $\mu\text{m}$  in size

ULPA U17:99.999995 % efficiency filtration of particles over 0.1  $\mu\text{m}$  in size

- ✦ Ventilation

- **Molecode**  
Automatic alarm to detect filter saturation

<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>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
<b>Filtration module</b>	Polypropylene

## 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>	APP for remote control to monitor the hood, change the settings, and deliver safety alerts immediately to your devices (mobile, tablet and PC)
<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



## Erlab

### Our mission: guarantee your protection in the lab

Erlab invented the first filtration fume hood in 1968. 45 years of expertise in chemicals filtration enable us to guarantee your protection throughout the following aspects:

#### 1 R&D laboratory

A worldwide unique lab as a warrant to Erlab expertise in filtration. Erlab innovates constantly to design highest level of chemical protection technologies.

#### 2 Safety standards

Our products performances are certified by compliance with the AFNOR NF X 15 211 standard.

#### 3 Independent tests

Our filtration technology has been tested multiple times by an independent laboratory according to AFNOR NF X 15 211 requirements. Results prove filters efficiency to maintain concentration in recirculated air at lower than 1% of tested chemicals TLV.

#### 4 Chemical listing

Our unique know-how enable us to communicate on our filters retention capacities over 700 chemicals, following AFNOR NF X 15 211 requirements.

#### 5 Erlab Safety Program

Our safety program is the warrant of your protection at all stages: any project begins with an application analysis to allow our lab to recommend the suitable solution. All installed equipments are then followed-up to guarantee the highest level of protection over time.

#### 6 Our questionnaire

Allows our lab specialists to recommend adapted filtration fume hood, filter type and predictive life-time, such as personalised assessment.

#### 7 We make your fume hood uses a commitment

Our laboratory provides a usage certificate for each fume hood, in compliance with AFNOR NF X 15 211 requirements.

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