



# 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

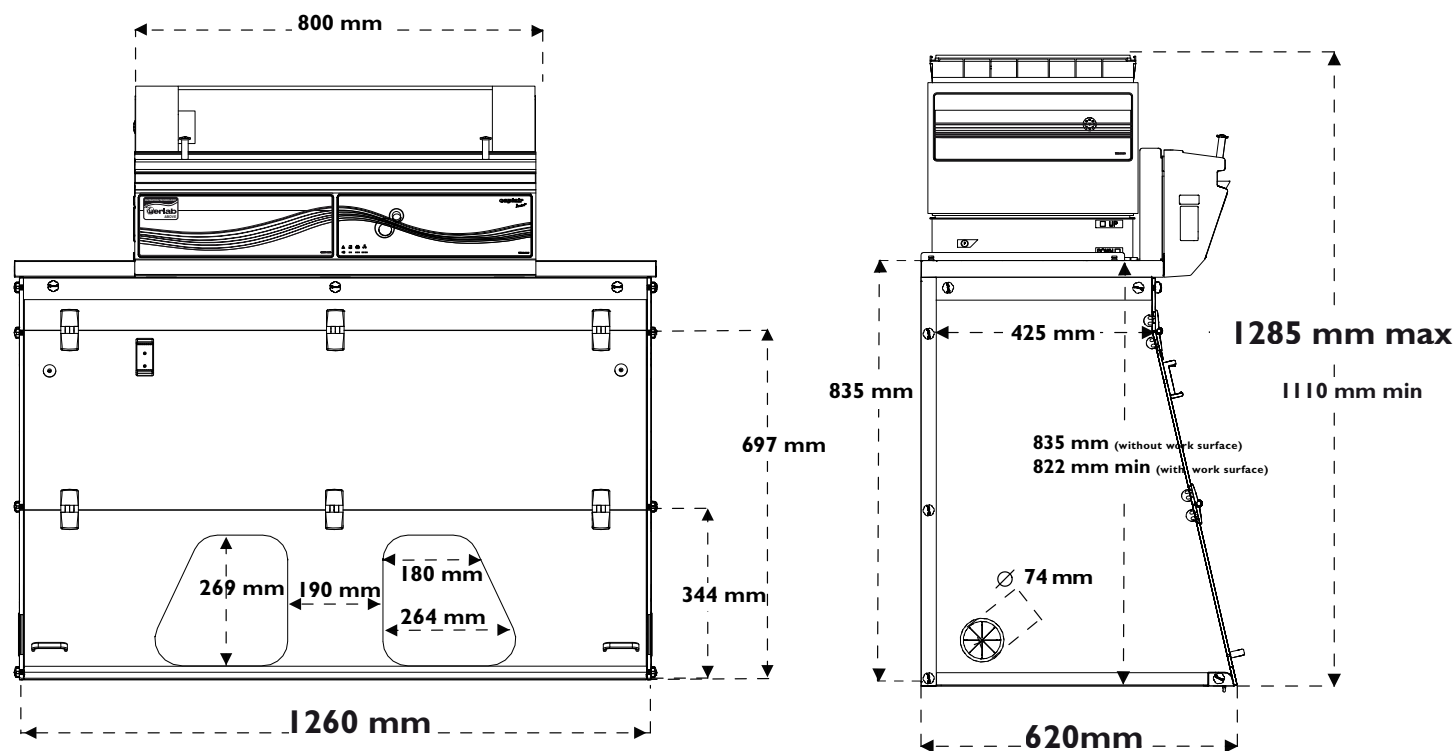


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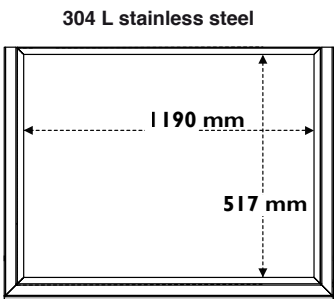
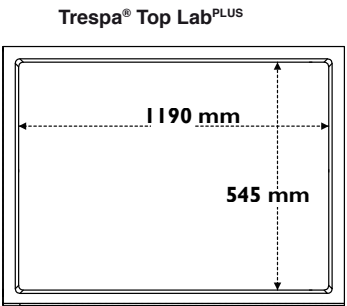
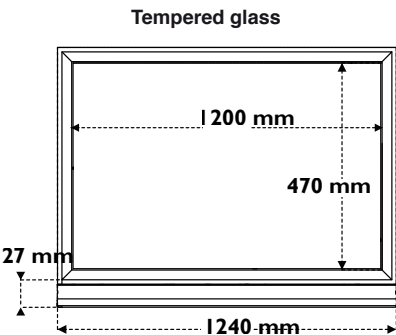
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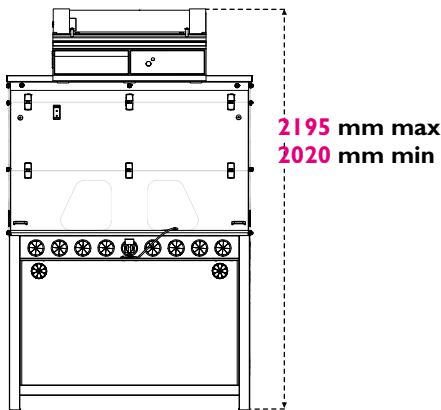


Heights according to the filtration column configuration		
Type 1C or 1P	1110 mm	Please add 150mm between the last filter and the ceiling to allow a good air recirculation and to replace filters easily
Type 2C or 1P1C or 1C1P	1205 mm	
Type 1P2C or 1P1C1P	1285 mm	

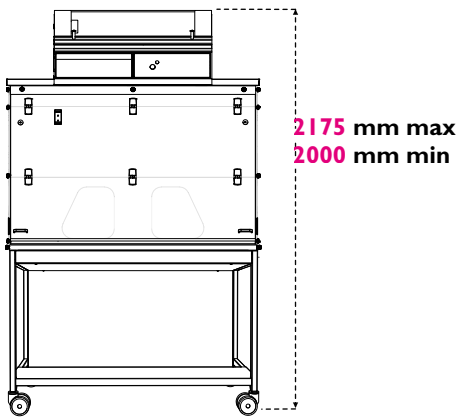
### Work surfaces with built in spill tray



### Benchcap: fixed work bench

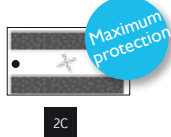
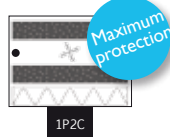
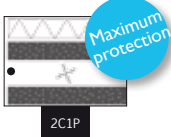
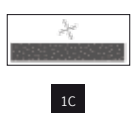
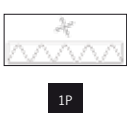
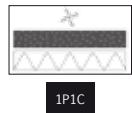
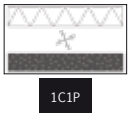


### Mobicap : mobile rolling cart





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 I according to the NF X 15-211		NA		
	Class 2 according to the NF X 15-211				

#### Available filters :



**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 µm in size  
ULPA U17:99.999995 % efficiency filtration of particles over 0.1 µm 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 - 135 CFM
<b>Air Face Velocity</b>	0.4 to 0.6 m/s - 79 fpm to 118 fpm
<b>Voltage/Frequency</b>	220 V / 50-60 Hz
<b>Power consumption</b>	65 W
<b>Sash openings</b>	Oblong
<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 R&D laboratory

## 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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