erlab
You can breathe.

Product datasheet

Captair 321 Smart & Midcap

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)
- Filtration failure sensors for solvents, acids or formaldehyde*
- Safety filter in case of filtration failure of the main filter
- 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
- The filter has breakthrough
- 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

*: Not available on Captair 321 Midcap

Ask for the highest level of filtration performances

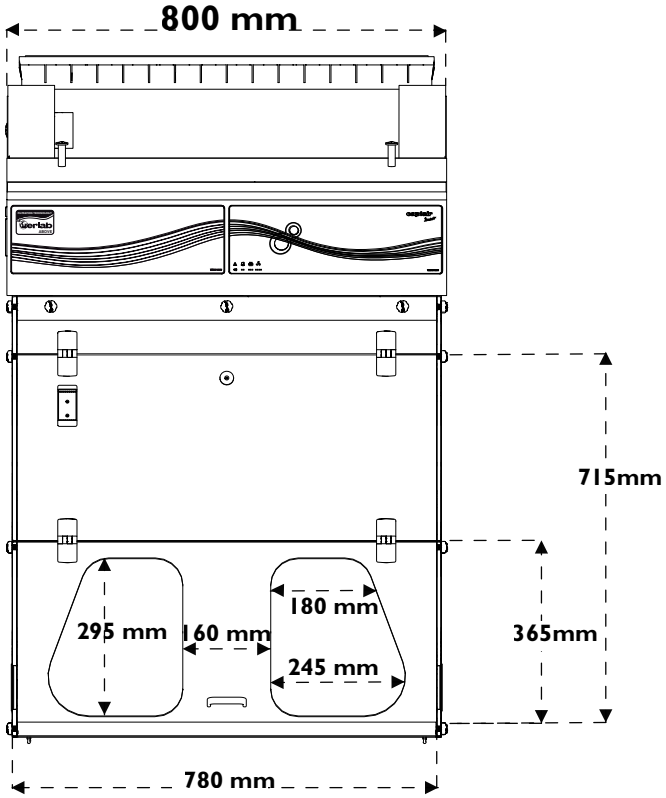
Powerful light guided communication

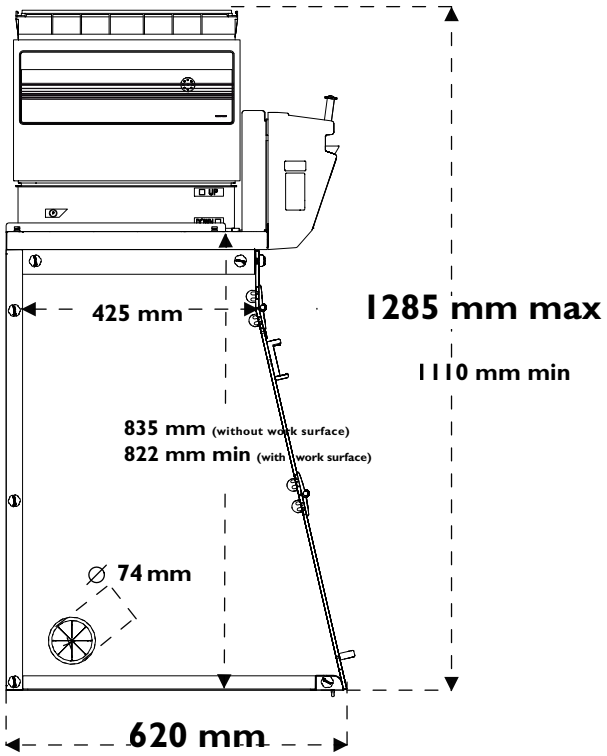
Connect your equipment and benefit from the remote access thanks to our mobile solutions

Dowload our eGuard application

Available on the App Store

Google play

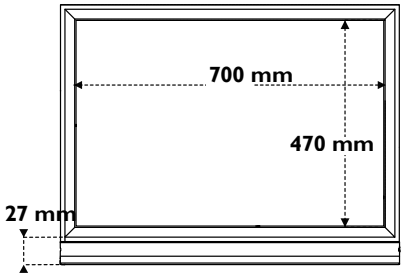




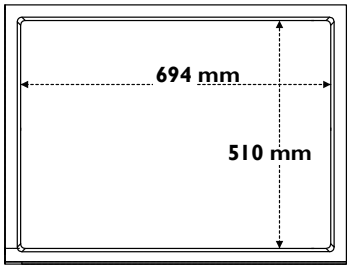
Heights according to the filtration column configuration		
Type 1C or 1P	1110 mm	Please add 150mm between the last filter and the ceiling to allow a good air recirculation and to replace filters easily
Type 2C or 1P1C or 1C1P*	1205 mm	
Type 1P2C or 1P1C1P*	1285 mm	

Work surfaces with built in spill tray

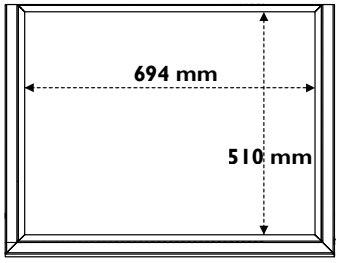
Tempered glass
Retention volume (4L)



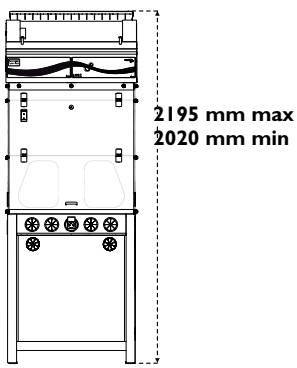
Trespa® Top Lab^{PLUS}
Retention volume (4L)



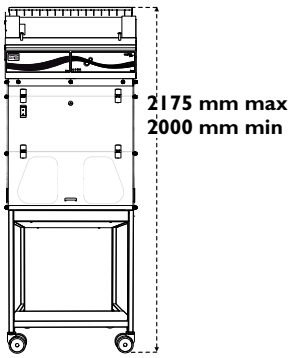
304 L stainless steel
Retention volume (9L)



Benchcap: fixed work bench



Mobicap : mobile rolling cart

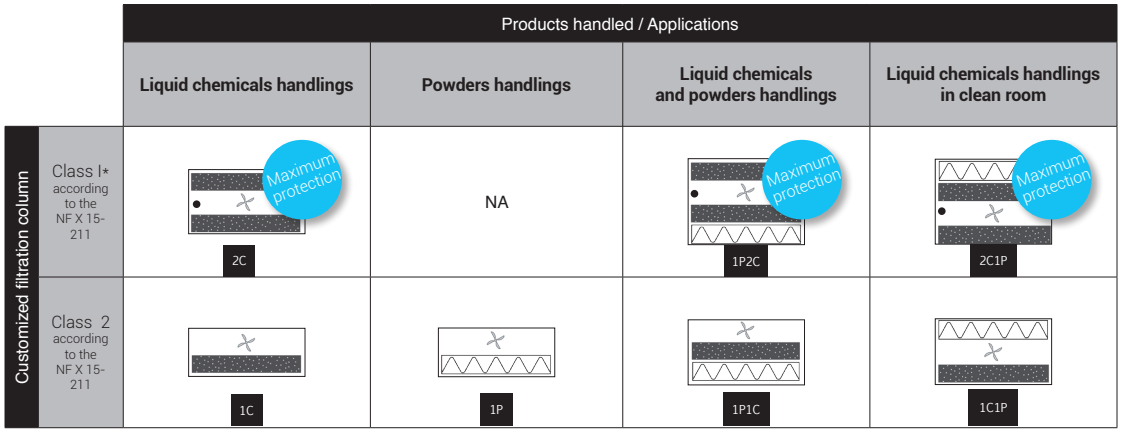


Captair 321 Smart & Midcap

Ductless Filtering Fume Hoods

FILTRATION TECHNOLOGY erlab Above

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



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

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

Safety Standards	AFNOR NF X 15-211:2009: France - BS 7989: England DIN 12 927:Germany - EN 1822:1998 (HEPA H14 & ULPA U17 Filters) - CE Marking
Air Flow	220 m3/h - 135 CFM
Air Face Velocity	0.4 to 0.6 m/s - 79 fpm to 118 fpm
Voltage/Fequency	220 V / 50-60 Hz
Power consumption	65 W
Sash openings	Oblong
Structure	Corrosion resistant electro-galvanized steel coated with anti-acid polymer
Side and front panels	Chemical resistant acrylic
Filtration module	Polypropylene

Equipment

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	1 column 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)
eGuard*	APP for remote control to monitor the hood, change the settings, and deliver safety alerts immediately to your devices (mobile, tablet and PC)
Internal lighting*	LED lighting > 650 Lux
Anemometer*	Air face velocity alarm
Anemometer**	Air face velocity indicator
Chemical Listing	List of approved chemicals

Accessories

Work Surfaces	Trespa® Top Lab^{plus}, Glass or 304L Stainless Steel
Molecode*	Detection sensor for : Type S, for solvents / Type A, for acids / Type F, for formaldehyde
Benches	Mobile (Mobicap) or fixed (Benchcap)
Bench equipment	Technical gases outlets, water outlets, front control valves, sink, power sockets (Only compatible with Trespa® Top Lab^{plus} worktop and fixed bench)
Particulate Pre-filter	Protects the main filter(s) from dust
Transparent Back Panel	Clear acrylic panel for easy viewing

*: Not available on Captair Midcap / **: Not available on Captair Smart

Erlab's state of the art Research & Development Laboratory relies exclusively on filtration

About Erlab

We provide safety, we protect your health
Erlab invented the ductless fume hood in 1968. With more than 50 years of experience in the field of chemical filtration and protection of laboratory personnel; we know the formula for safety. With Erlab, you will never have to wonder or worry if our products are safe. We build each one of the following 7 ingredients into our products, and without all of them, your health and safety will be compromised.

1 Erlab R&D Laboratory

The engineers and chemists in our state-of-the-art R&D laboratory understand molecular filtration. We are committed to designing products that are safe and of the highest quality, strive to improve our products, and continuously develop new products that provide greater protection in the laboratory.

2 Strict Safety Standards

We hold ourselves to the highest standard and adhere to the strict AFNOR NF X 15-211: 2009 filtration safety standard as endorsed by ANSI Z9.5-2012.

3 A Published Chemical Listing

It all begins here. Without this listing, we are not compliant with AFNOR NFX 15-211. Our in-house laboratory tests, as well as independent testing, to verify the retention capacity of over 700 chemicals for our filters.

4 Independent Testing

Erlab filters have been independently tested multiple times at various concentrations guaranteeing that our safety solutions all adhere to the strict performance criteria of the AFNOR NF X 15-211:2009 standard assuring that the emission concentration at the filter exhaust will always be lower than 1% of the TLV.

5 Application Questionnaire (Valiquest)

Our laboratory specialists will recommend the appropriate filtration fume hood, type of filter, and personalized advice.

6 Certificate of Validation for the chemicals used in the hood

A certified PhD chemist issues a Certificate of Validation with a list of the chemicals approved for use in the hood.

7 Our Safety Program

We back up our products 100%. This program includes your specialized chemical evaluation, validation of your hood upon installation, and a filtration safety specialist at your service to ensure that your hood is operating to its full potential.

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