



Captair Smart Customized Instrument Enclosures

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

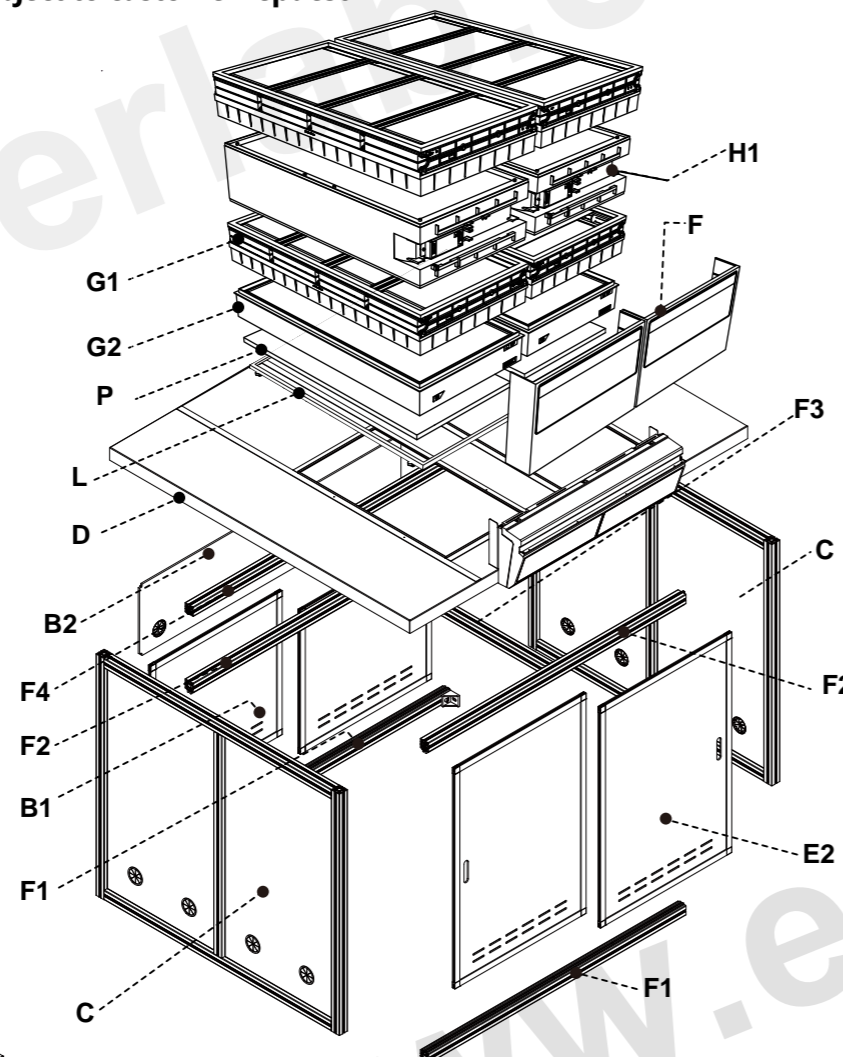
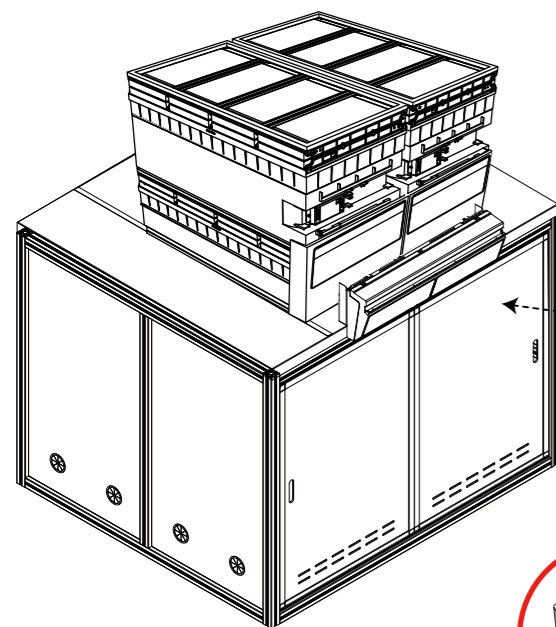


Specifications

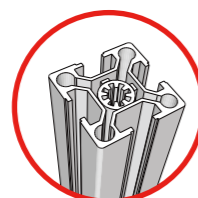
Erlab's innovative technology keeps you safe

Remark: The dimension of product is subject to customer request

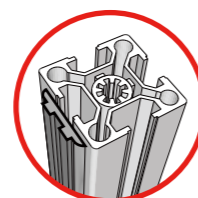
G1, G2, P, L, H1	
Filtration column	
F1, F2, F3, F4	
Aluminium alloy guide rail	
D	Ceiling and control panel
E2	Front sliding door
B1	Rear sliding door
B2	Rear panel
C	Side panel



Assembly drawing



F3 / F4
(Aluminum alloy)



F1
(Aluminum alloy + Lower guide rail)



F2
(Aluminum alloy + Upper guide rail)

Heights according to the filtration column configuration		
Type 1C or 1P	According to enclosure height	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		
Type 1P2C or 1P1C1P		



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		NA		
	Class 2 according to the NF X 15-211				

Available filters :

C	P	
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	Molecode Automatic alarm to detect filter saturation

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	According to the configuration (220~880 m³/h)
Air Face Velocity	0.4 to 0.6 m/s
Voltage/Frequency	According to the configuration (100-240 V / 50-60 Hz)
Power consumption/Max. amperage absorbed	According to the configuration (65~300 W / 0.65~2.2A)
Sash openings	Front and rear sliding door
Structure	50x50mm Aluminum alloy
Side and front panels	8mm Chemical resistant acrylic
Filtration module	Polypropylene

Equipment

Communication interface	Simple communication by audible and light pulses: unit running time, air face velocity, automatic filter saturation detection, ventilation settings, fan failure alarm
Filtration technology	3 columns 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)
Chemical Listing	List of approved chemicals

Accessories

Work Surfaces	Trespa® Top Lab^{PLUS}
Molecode	Detection sensor for : Type S, for solvents / Type A, for acids / Type F, for formaldehydes
Particulate Pre-filter	Protects the main filter(s) from dust
Transparent Back Panel	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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