



## CaptairStore 834

Ductless filtering chemical storage cabinets

### Instructions & User's Manual

Hinged doors



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## General

**By choosing CaptairStore ductless filtration chemical storage cabinets you have chosen an efficient and responsible way to ensure safety.**

Erlab's 50 years of expertise in the field of laboratory fume hoods provide unparalleled filtration quality to ensure your users are properly protected when handling chemicals in the laboratory. The new Captair range uses an innovative and straightforward mode of communication called: **Smart technology**. This powerful interface uses light to intuitively and effortlessly communicate with users and leave them free to focus all their attention on the main task: **your work**.

Your CaptairStore chemical storage cabinet is the ideal organising cabinet to accommodate respiratory protection of users and environmental protection with a unique filtered air recycling system in the laboratory. This is made possible by the use of very highly-effective molecular and HEPA H14 filters which trap molecules and toxic particles. This filtering process makes it possible to blow purified air out of the filter, free from chemical pollution. The Erlab exclusive filtration technology can be adapted according to the stored chemicals.

## Safety notices

The effectiveness of your device is directly dependent upon it being used correctly and monitored by its users. Your laboratory may also benefit from ergonomic, economic and ecological advantages provided by the Captair Smart chemical storage cabinet throughout its life cycle.

The Erlab Services was set up to guarantee your safety. We would remind you that it is important to have the safety parameters validated before using the device for the first time and whenever it is used for a different application.

The equipment provided is not intended to be used in an explosive atmosphere.

The filters delivered with this device must be removed from their packaging and positioned correctly; they must also be suitable for the type of chemicals being handled in order to guarantee user safety.

Erlab recommends that filter breakthrough tests are regularly carried out.

New filters must be stored in their packaging, kept in a dry location and laid flat. (see recommendations for storing and using the filters).

Erlab recommends keeping a logbook which is specific to the device and shows the chemical agents handled, how often they are used and the maintenance operations carried out on it.

## Organization of your storage

Prior to handling or storing a chemical product, it is mandatory to consult your label; this label provides information on the dangerousness of chemical substances as well as on the basic principles of protection during handling and storage.

This information includes pictograms, some special instructions are reproduced below:



### EXPLOSIVE

Contact with an energy source (flame) or an incompatible product may cause an explosion.  
Example: Ammonium Nitrate (responsible for the nitrogen fertilizer explosion in Toulouse in 2001)



### COMBUSTIVE

Substance which will cause a fire on contact with a combustible product  
Example: Hydrogen Peroxide



### CORROSIVE

Product which may attack tissues or certain materials (glass, metal, etc.)  
Example: Acids (Hydrochloric Acid) or Concentrated Bases (Soda)



### SENSITIZING

Substance dangerous for health  
Example: Formaldehyde, Benzène



### DANGEROUS FOR THE ENVIRONMENT

Substance which when it is dispersed into the environment may cause damage to the fauna or flora.  
Example: Hydrocarbons



### TOXIC / IRRITANT

Substance which may cause a health risk.  
Example: Citric Acid



### GAS BOTTLE UNDER PRESSURE

Product which can cause an explosion or burns  
Example: Hydrogen



### TOXIC

Substance presenting serious health risks (Carcinogenic, Mutagenic or Toxic for reproduction)  
Example: HCN hydrocyanic acid



### FLAMMABLE

Contact with an energy source (flame) or an incompatible product (combustive) may cause a fire.  
Example: Methanol



Before inserting any new product into the cabinet, the user must check its chemical compatibility with the products it already contains. For example, in the category of corrosive products, it is necessary to distinguish between Acids and Bases. In every case, Acids and Bases must be separated: the reaction of a strong acid with a strong base is highly exothermic (releases heat), which may cause serious accidents.

Below is a partial list of known chemical incompatibilities:

- Do not store acids and bases together.
- Do not store oxidants and reductants together.
- Do not store combustible products and flammable products together.
- Do not store corrosive products and flammable products together.

In our storage cabinets, glass bottles containing liquids should be stored as low as possible so as to limit the height of a spill if they are accidentally turned over.

The storage cabinets are intended to contain small quantities of products necessary for daily work.

Inventories must be stored in stock rooms provided for this purpose outside of the laboratory.

## IMPORTANT :

Captair storage cabinets are not capable of resisting consequences of a fire in the laboratory.

Therefore, any storage of flammable products in this type of cabinet is under the sole responsibility of the user.

The Captair storage cabinet must be used indoors, at a vertical position on its carrying feet.

Use or storage temperature: 15 to 30° C

Maximum rate of humidity: 75 %

Storage: noxious and odorous chemical products.

## The Erlab Guarantee



### **Erlab Warranty Information:**

Erlab will offer a free Lifetime Warranty for all products sold. The Lifetime Warranty is valid on all Captair products with regards to mechanical parts as long as genuine Erlab parts and filters are used in compliance with the Captair Brand specifications, and replacement of the filters and sensors occur as recommended through the ValiQuest completion for each product sold.

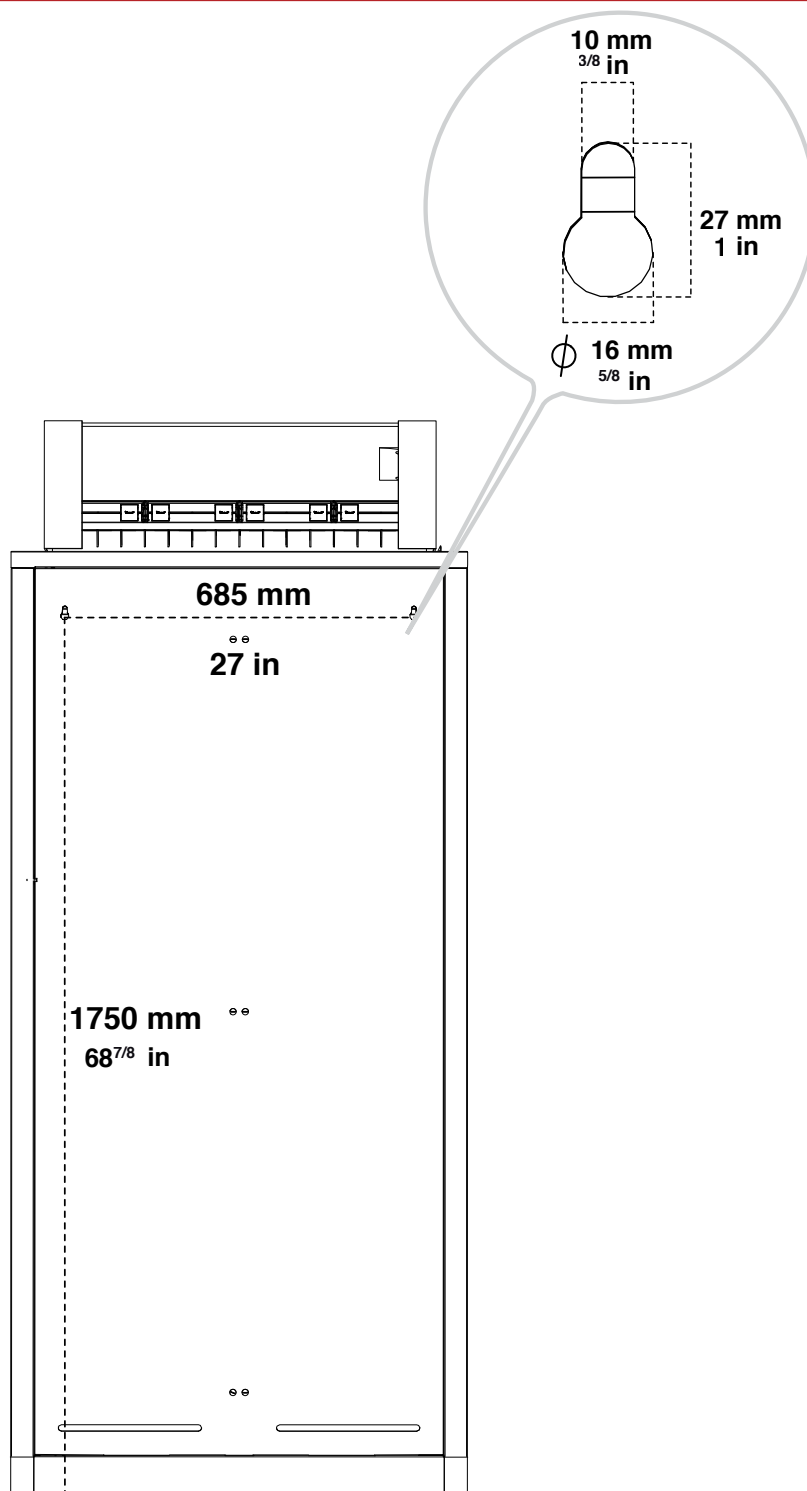
Consumable items (including filters) and Captair Pyramid remain under warranty only until the first use. Erlab Inc. is the Sole US Distributor of Captair products and is not responsible for damage that occurs as a result of failure to follow instructions that are included with the original product.

This Limited Lifetime Warranty does not apply from the result of an accident, misuse, abuse, contamination, modification, normal wear and tear or other external causes. This section constitutes Clients sole and exclusive remedy and Erlab Inc.'s sole and exclusive responsibility with respect to any alleged breach of this limited warranty. A one-year warranty is offered on the enclosure of the unit.

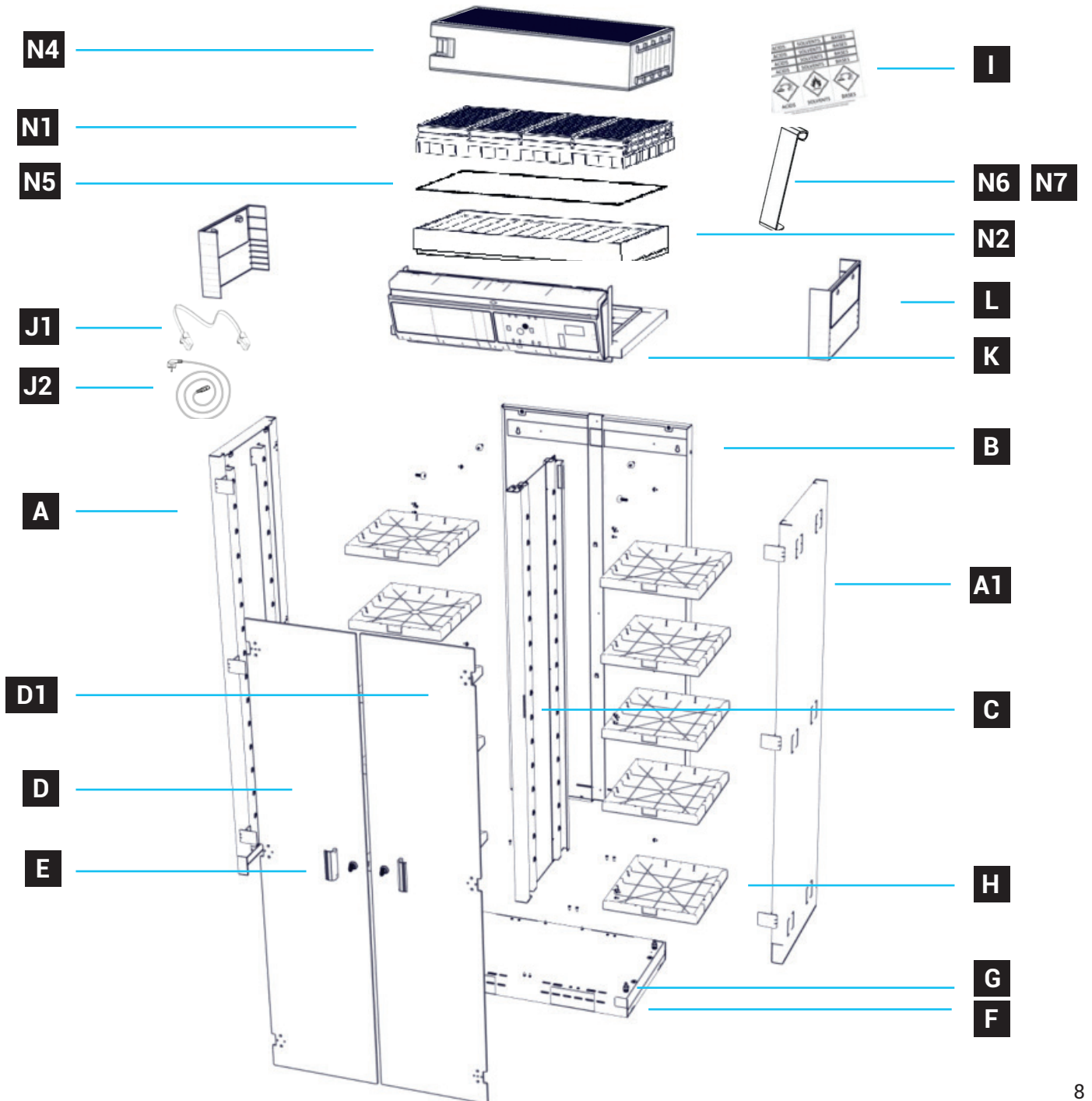
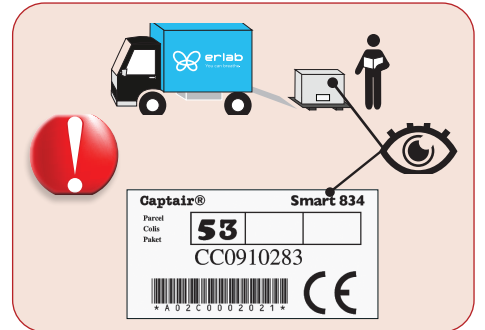
388 Newburyport Turnpike  
Rowley, MA 01969  
800-964-4434



**The storage cabinet must be fixed to the wall**



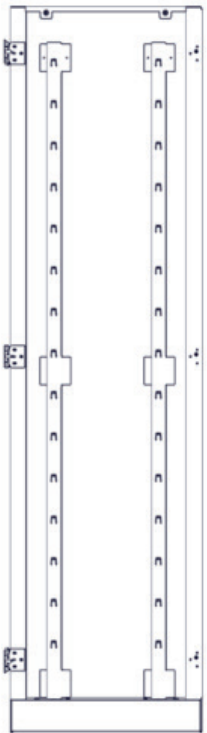
834





**A**

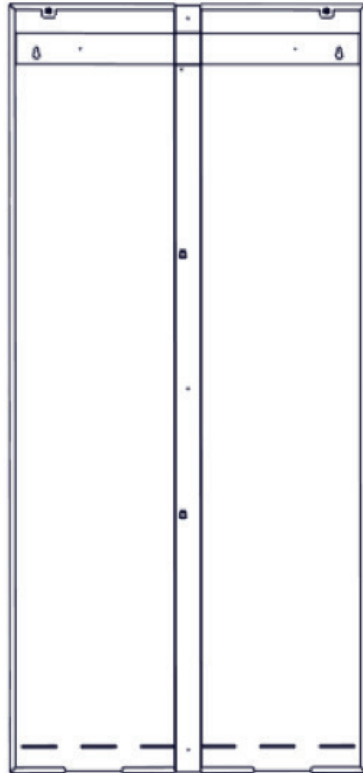
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**B**

x1

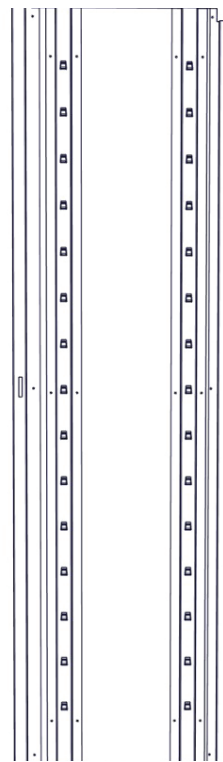
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**C**

x1

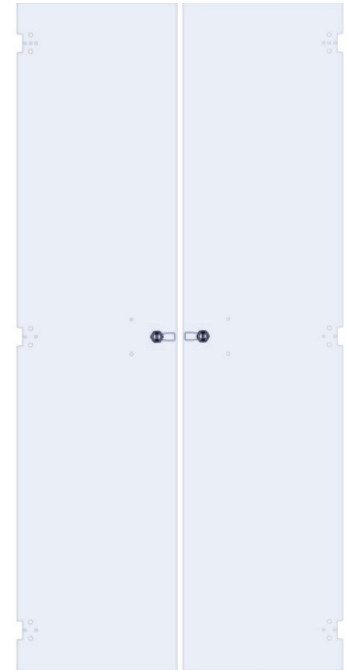
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**D**

x1

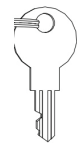
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**D1**

x1

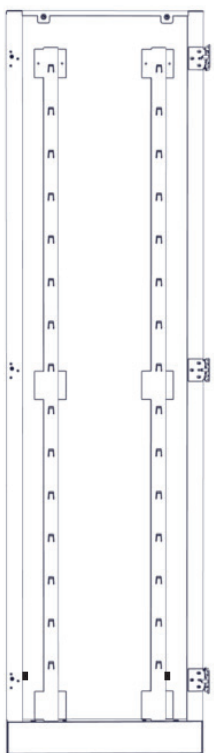
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x2

**A1**

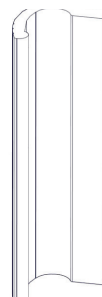
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**E**

x2

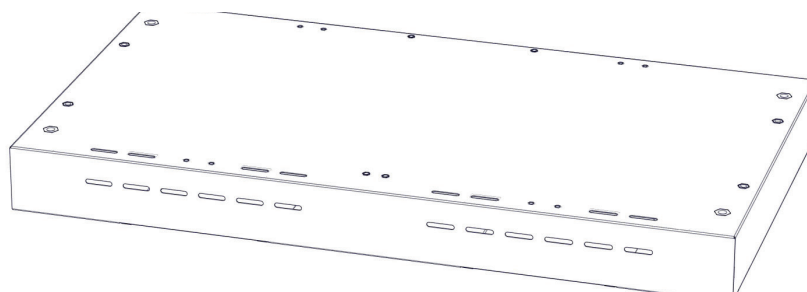
PIDDI8563



**F**

x1

PIDREB03P3060



**G**

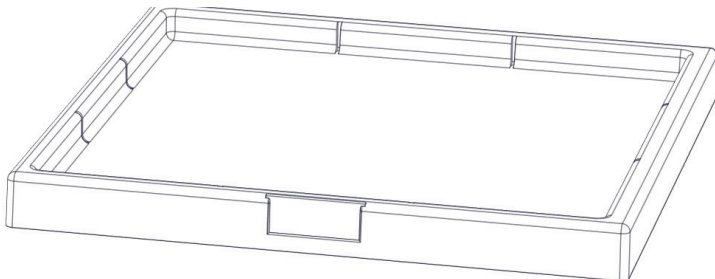
x4

PIDDI3601

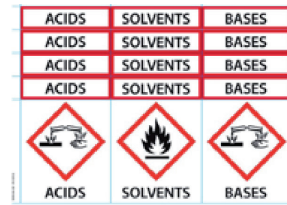


**H** x10

PIDMS106-1



**I** x2



**S1** x10

PIDBOX037



**S2** x4

PIDB0070



**S3** x12

PIDMS032



**S4** x4

PIDB08549



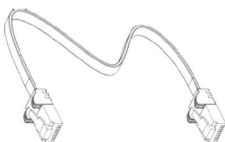
**S5** x4

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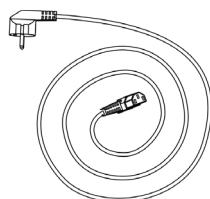
**J1** x1

PIDEL8603



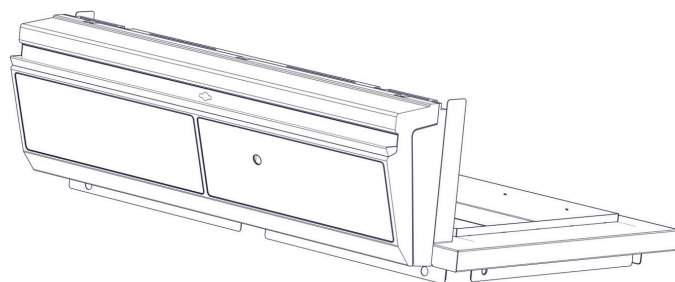
**J2** x1

EU = PIDEL076  
USA = PIDEL080  
GB = PIDEL090  
CH = PIDEL106



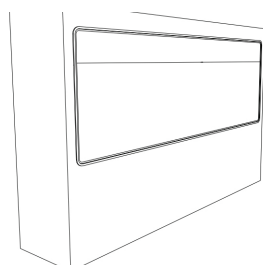
**K** x1

KPS 834



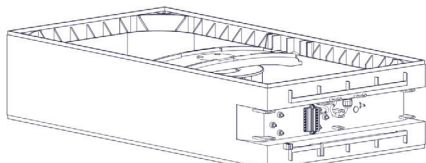
**L** x2

PIDMS8552



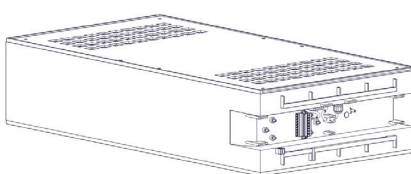
**N3** x1

Z3FM004



**N4** x1

Z3FM004 + PIDMS8522



**N5** x1

PIDMS8532



**N6** x4

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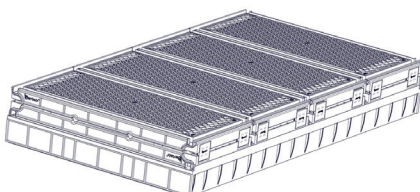


**N7** x4

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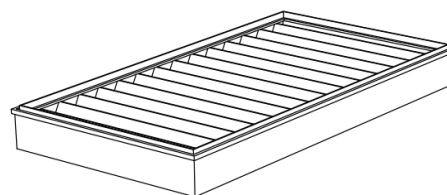


**N1**



Molecular filter

**N2**



HEPA H14 / ULPA U16 filter

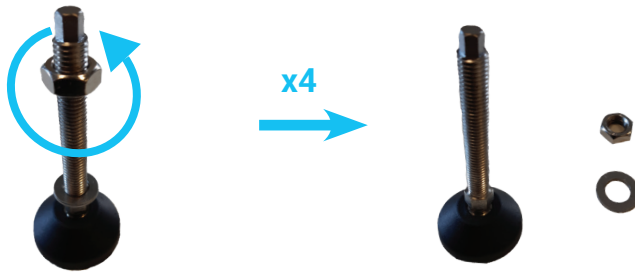
SQUARE PART	FILTER
H11074101	AS
H11074201	BE+
H11074301	K
H11074401	F

SQUARE PART	FILTER
H11074031	H14
H11074061	U16

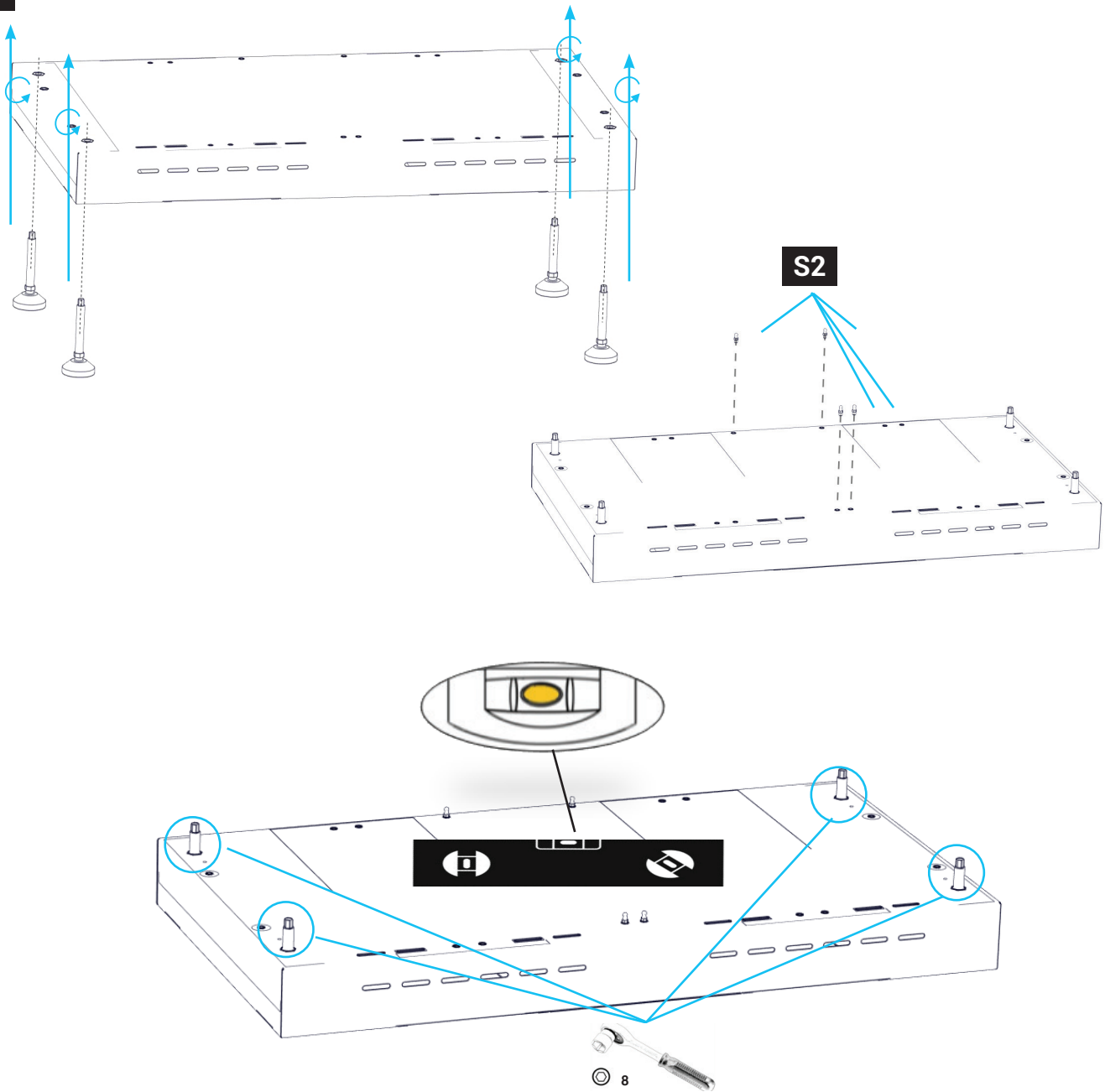
1

F	x1
G	x4
S2	x4

G



F


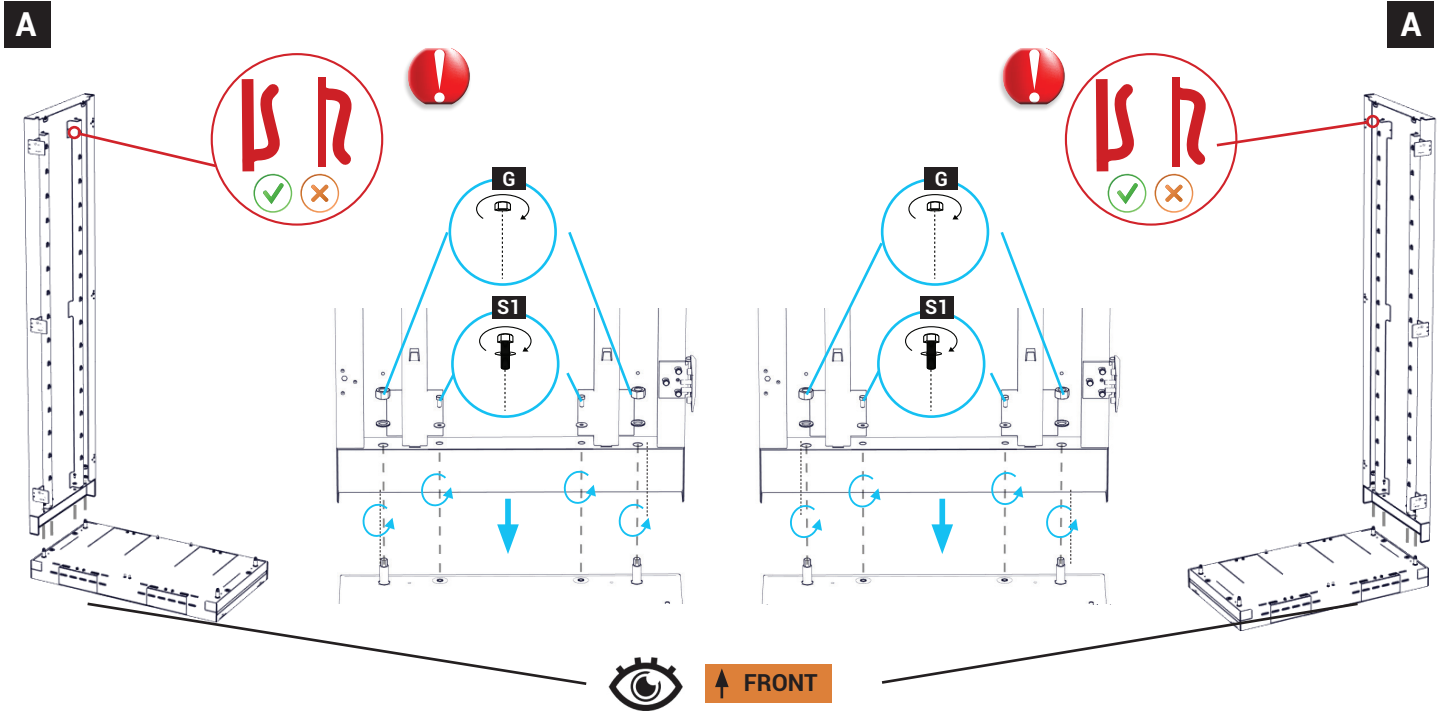




2

A	x2
G	x4
B	x1

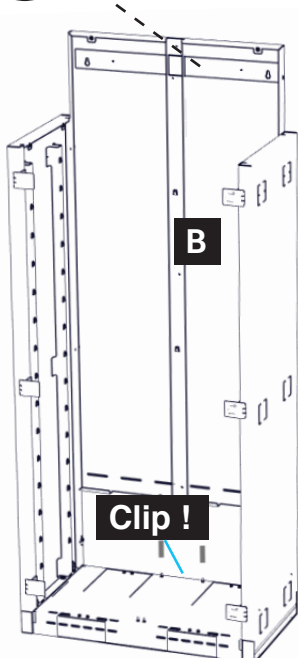
S1	x10
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B	x1
---	----

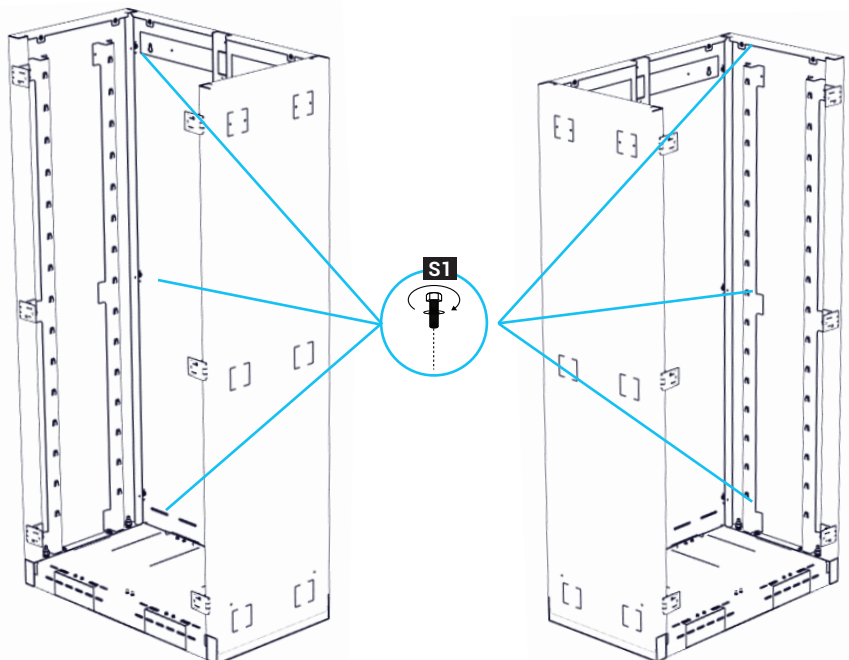


↑ UP



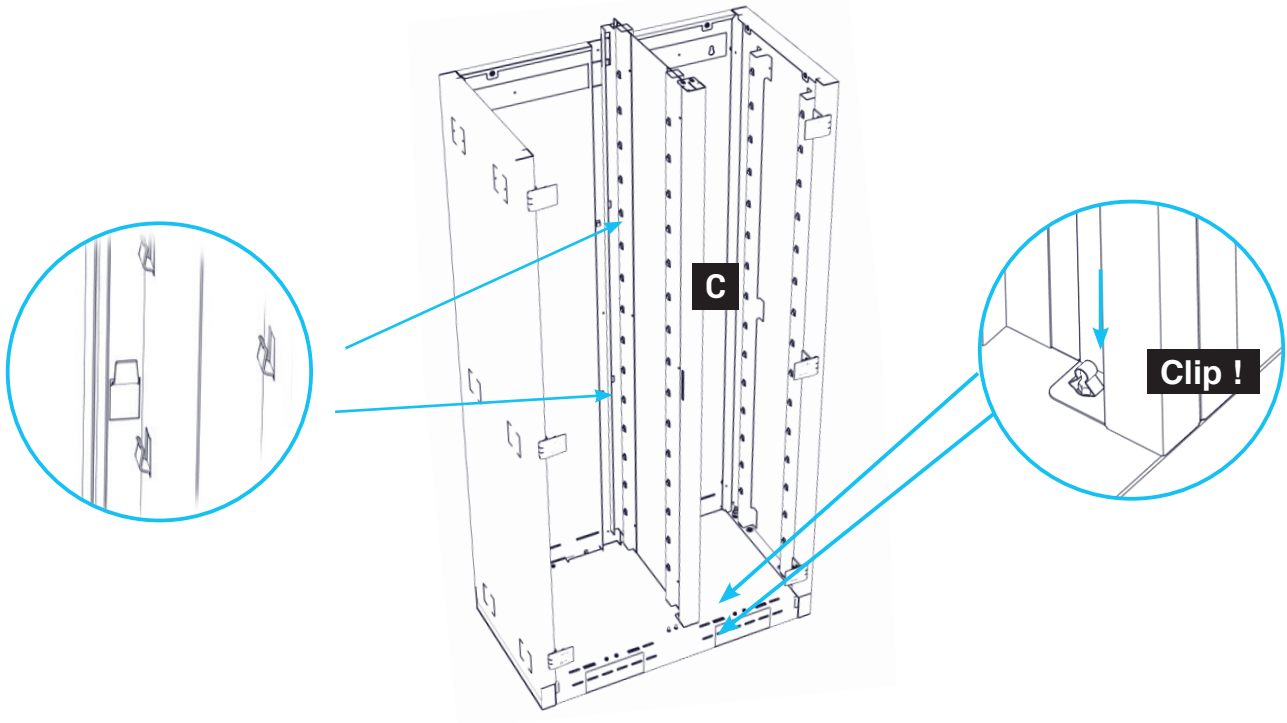
LEFT

RIGHT



3

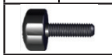
C x1



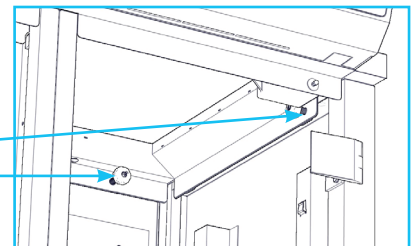
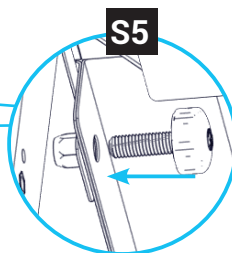
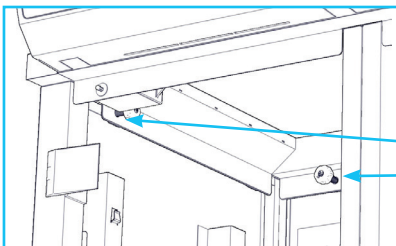
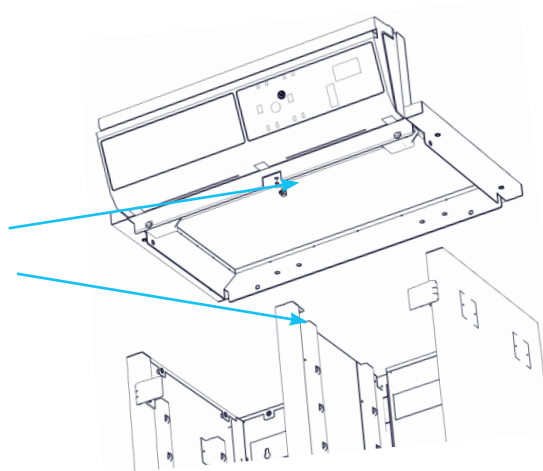
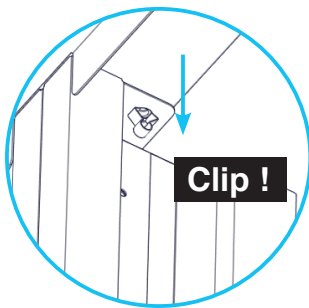
4

K x1

S5 x4

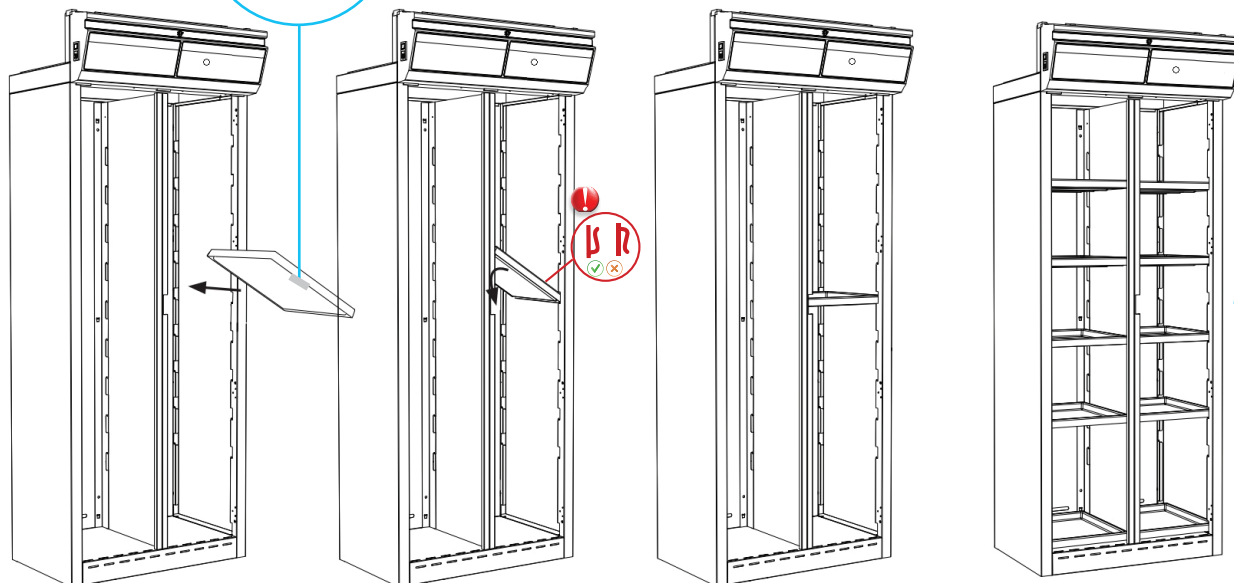
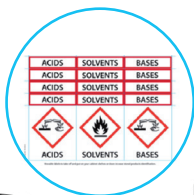


K

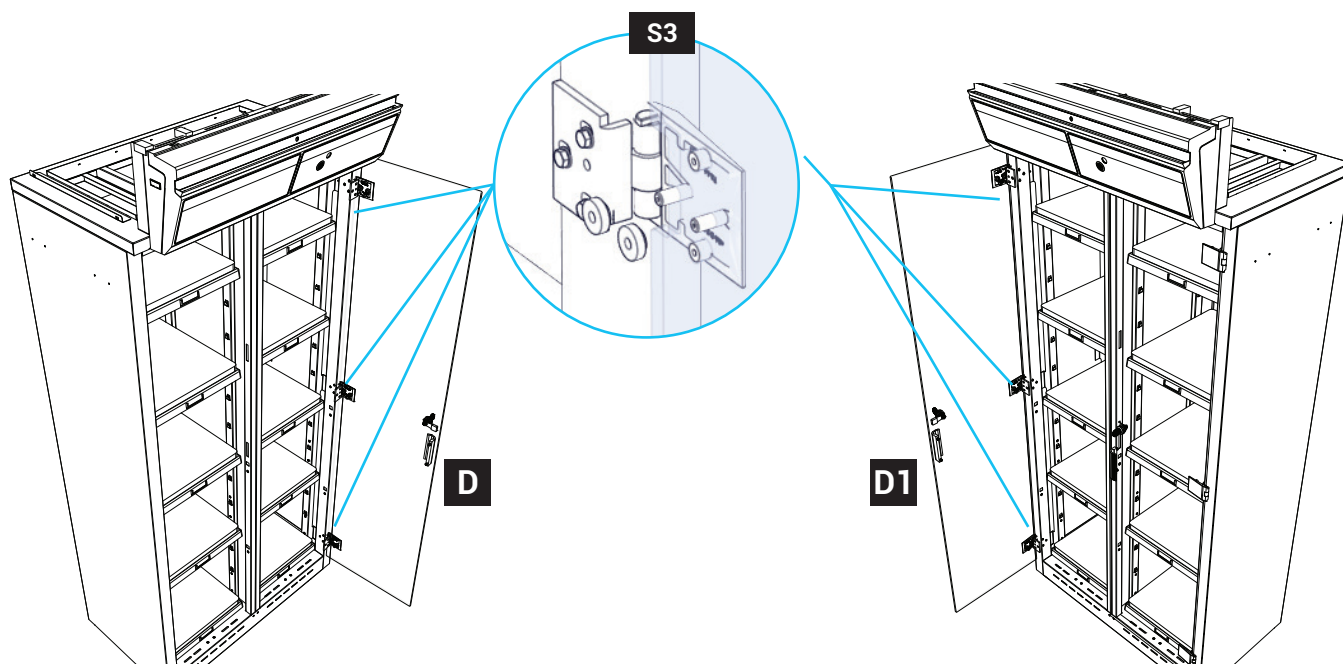


5 H x10

H



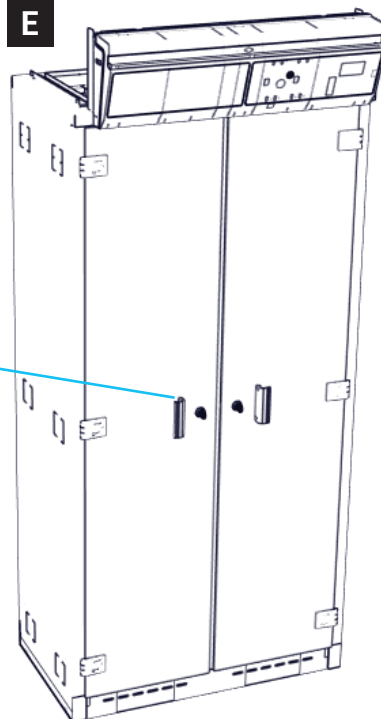
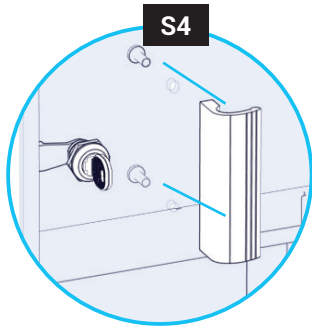
6 D x1 D1 x1 S3 x12



7

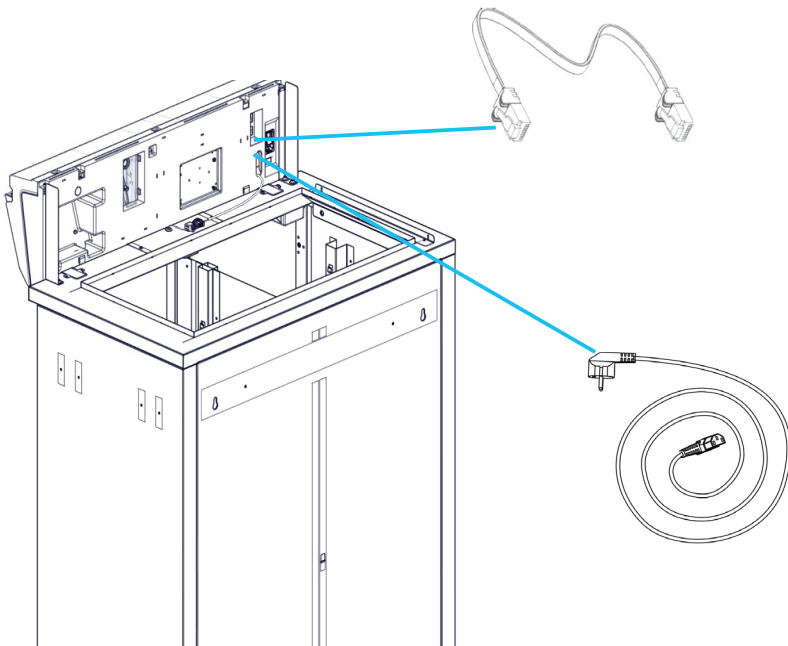
E	x2
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S4	x4
----	----

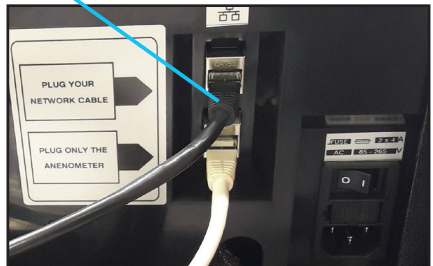



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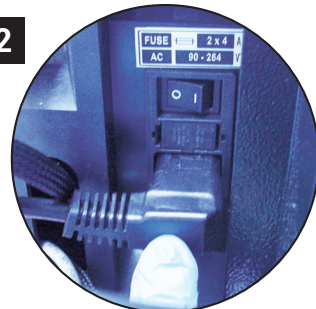
J1	x1
J2	x1



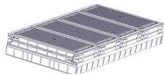






J1



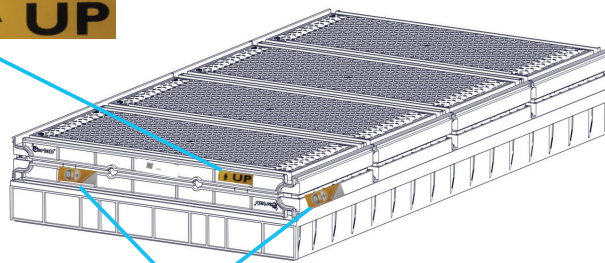
J2



9

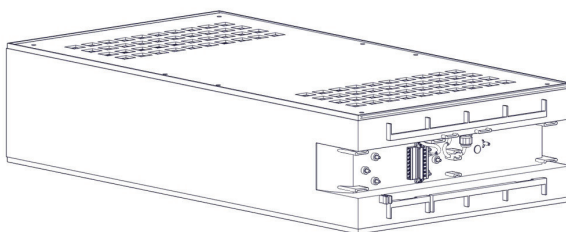
	Versions	1C	2C	1P	1P1C	1P2C	1C1P	2C1P
N1		x1	X2		X1	X2	X1	X2
N2				X1	X1	X1	X1	X1
N3			X1			X1	X1	X1
N4		X1		X1	X1			
N5				X1				
N6							X4	
N7								X4

N1

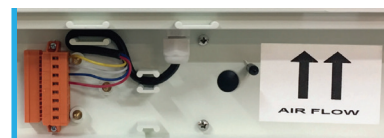


Label type carbon

N3 - N4



Fan without moleculecode S

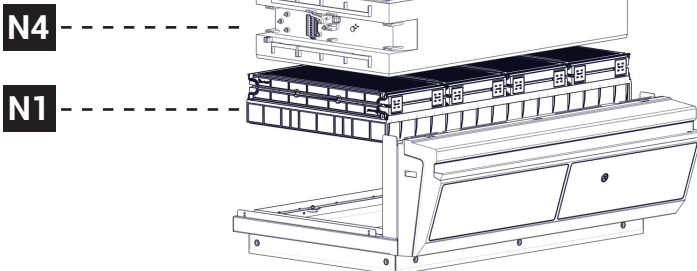


Fan with moleculecode S

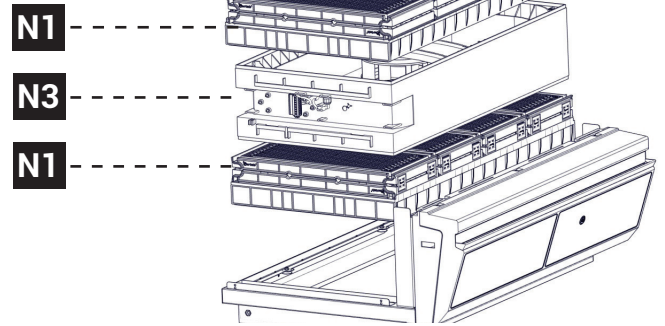




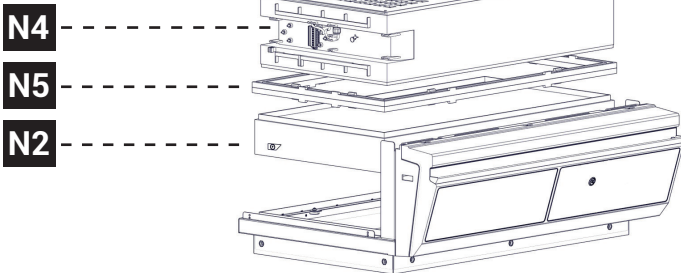
**1C**



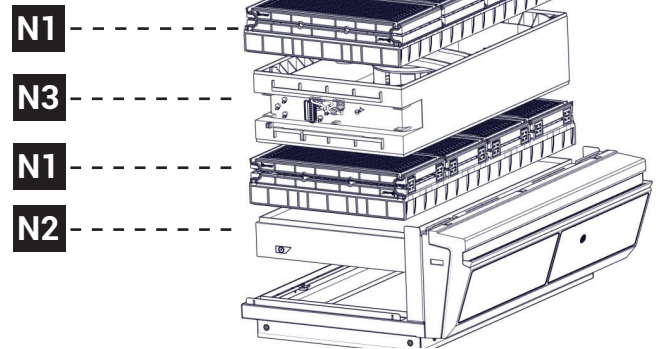
**2C**



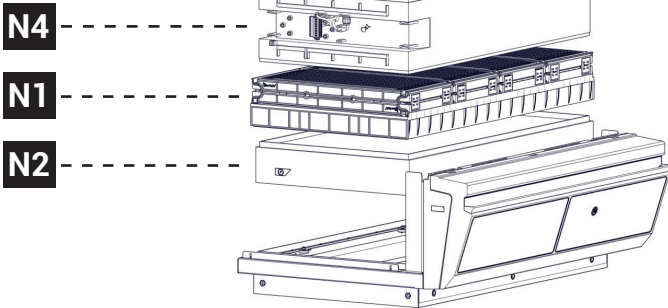
**1P**



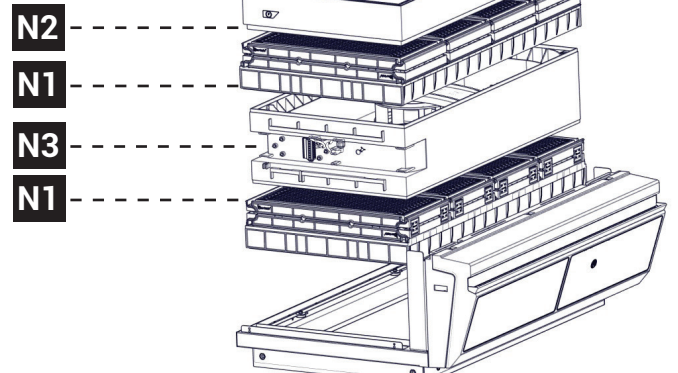
**1P2C**



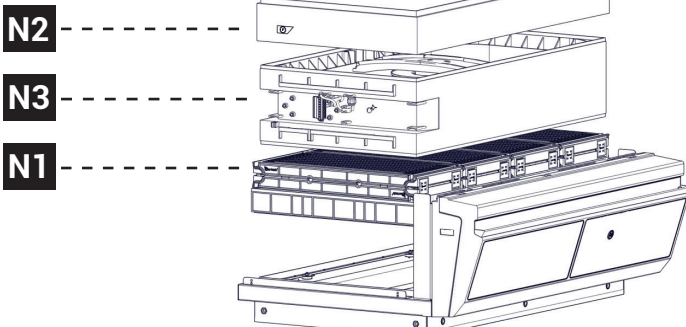
**1P1C**



**2C1P\***



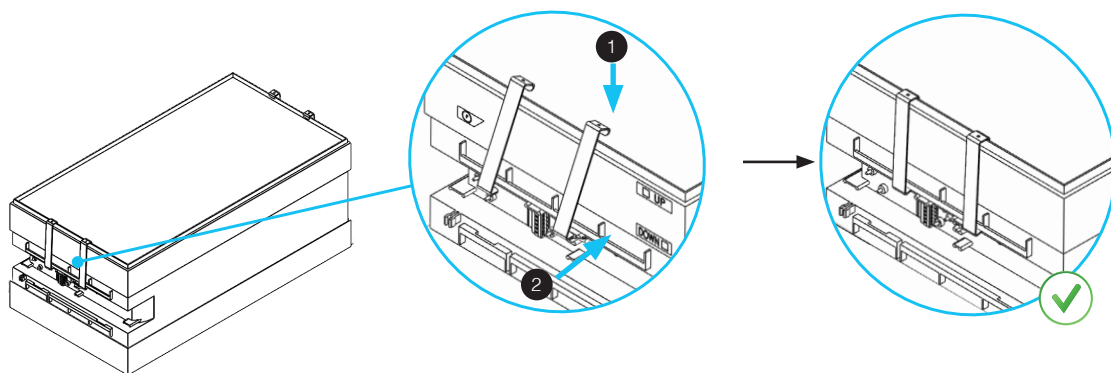
**1C1P\***



\* Hook mounting

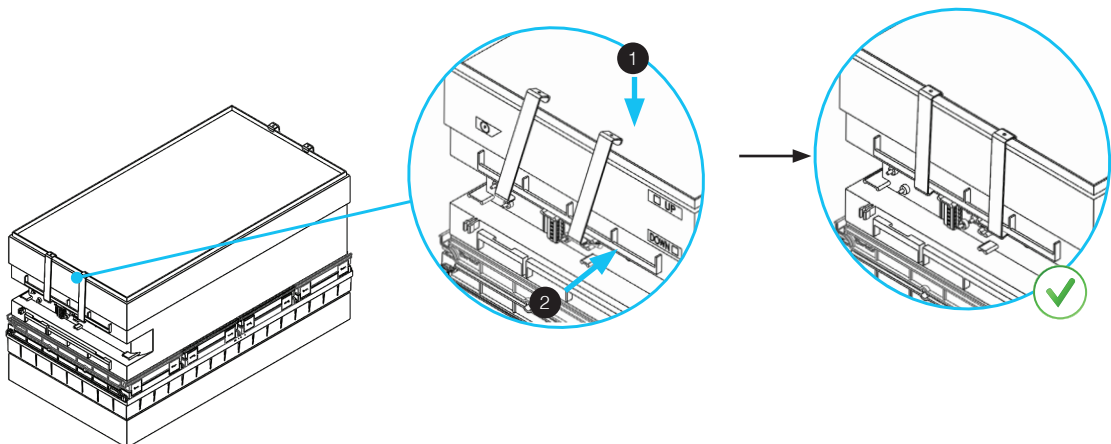
1C1P

N7 x4



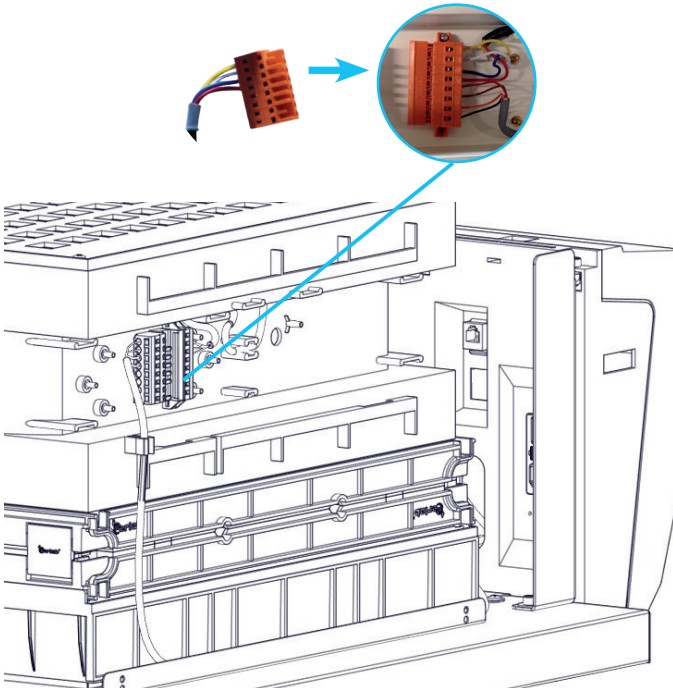
2C1P

N6 x4

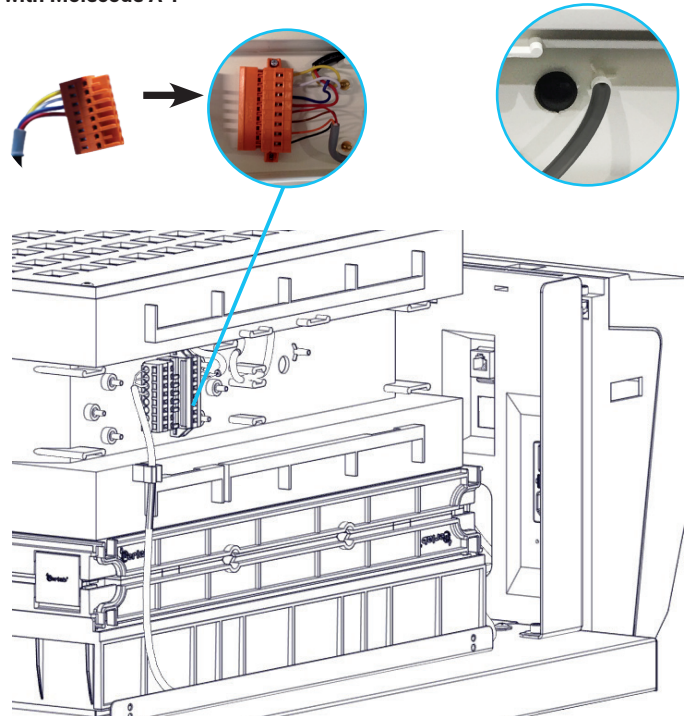


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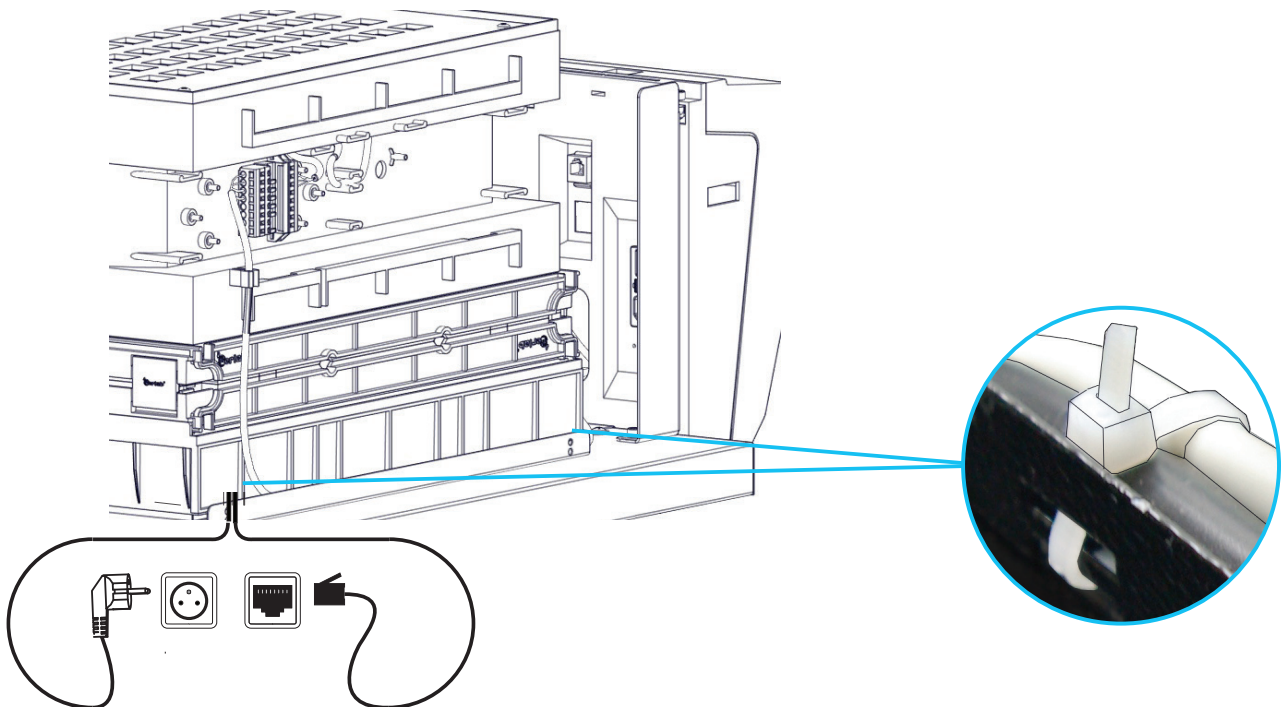
with and without Molecode S



with Molecode A-F

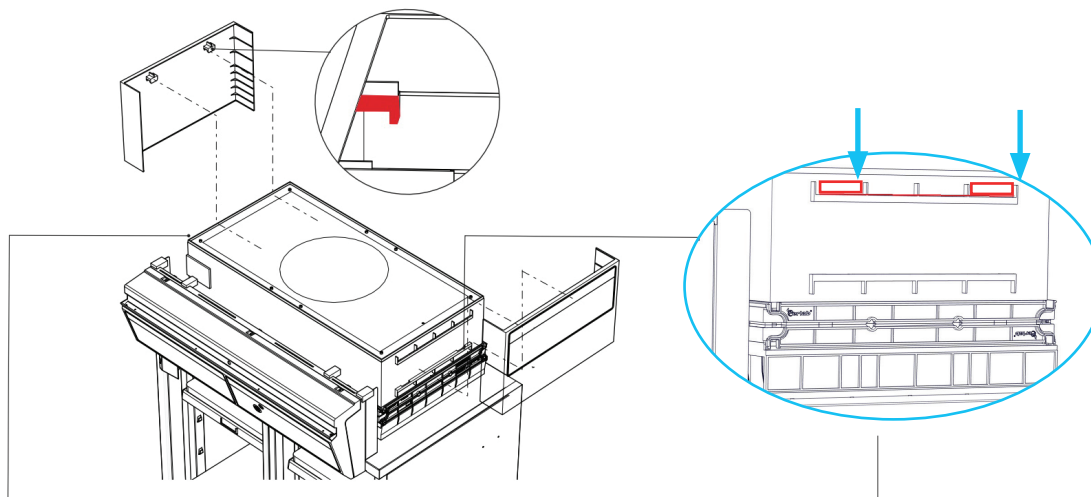


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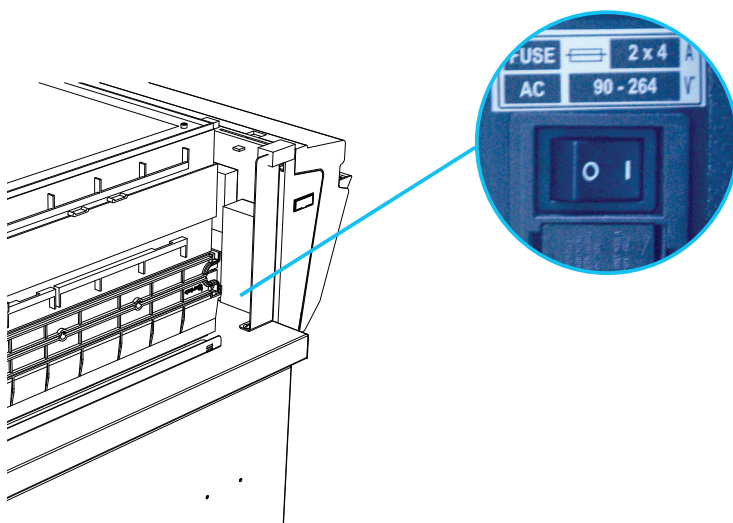




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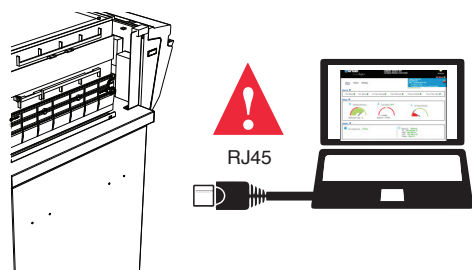


13



14

## Parameter settings



Access to the Embedded Service (default IP address)

**IP : 192.168.0.200**

## Start-up

Having carefully followed the steps described in the installation guide, your CaptairStore chemical storage cabinets is now ready to use.

The power switch is located at the back of the control panel.

LED light system should come on.

A filtered storage cabinet works 24/7. We only recommend to switch off the unit for maintenance

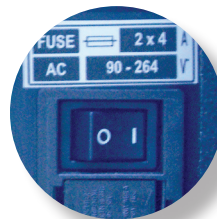
**We also recommend verifying the operating parameters before each new use.**

Filter breakthrough sensor (Molecode option) :

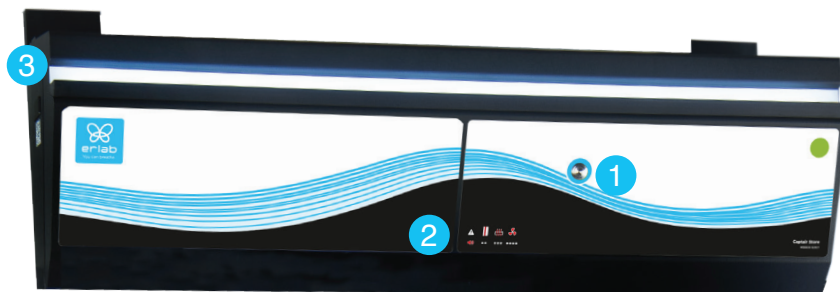
Default settings when the sensor has not been set in our factory:

- Solvents (S type): medium
- Acids (A type): medium
- Formaldehyde (F type): medium

**To change the settings of your device, access the onboard service.**



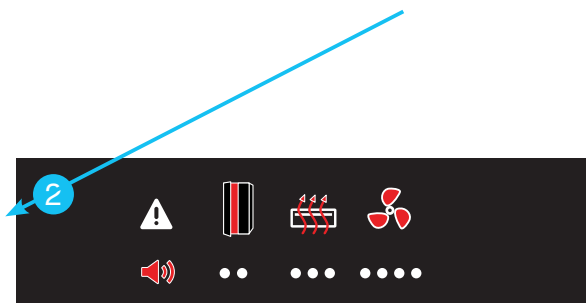
## 1.Description of the control module



1 - Silence the alarm

2 - Keycode to indicate which alarm is active

3 - Smart-Light that pulses when in alarm







The fixed light bar shows the optimal level of protection the operator is afforded.

The hood communicates its operational state in real time through a series of sound and light pulses.

## 2.Alarms description

### Note:

When using the Mute key to silence the alarm, please note the alarm can be triggered again if the event condition has not been fixed. Resetting alarms via the Mute key will consequently modify usage settings. Please access the administrator interface to precisely check user settings.

Alarm type		Light signal	Events	Details	Silence the alarm	Reset the alarm
Doors opening						
	2 beeps + 5 seconds apart	Pulses	Doors ajar	Doors opened		
Filtration						
	3 beeps + 5 seconds apart	Pulses	Filter breakthrough (Molecode S/A/F option)	The Molecode detection value is > the sensitivity setting for a period of 40s.	Press Mute key	Note: filter has to be replaced.  Please get in touch with Erlab or your usual maintenance contact.
			Replace filter	The filter(s) has/ have reached the end of their service life/ lives.		
Fan						
	4 beeps + 5 seconds apart	Pulses	Fan fault	The rotation speed (RPM) is +/- 10% of the fan setpoint.	Press Mute key	
			Fan Unserviceable	The rotation speed (RPM) is < 700 RPM		
Filter breakthrough sensor replacement (Molecode)						
	5 beeps + 5 seconds apart	Pulses	Filter breakthrough sensor replacement (Molecode S/A/F option)	The sensor has reached the end of its service life.		Please get in touch with Erlab or your usual maintenance contact.

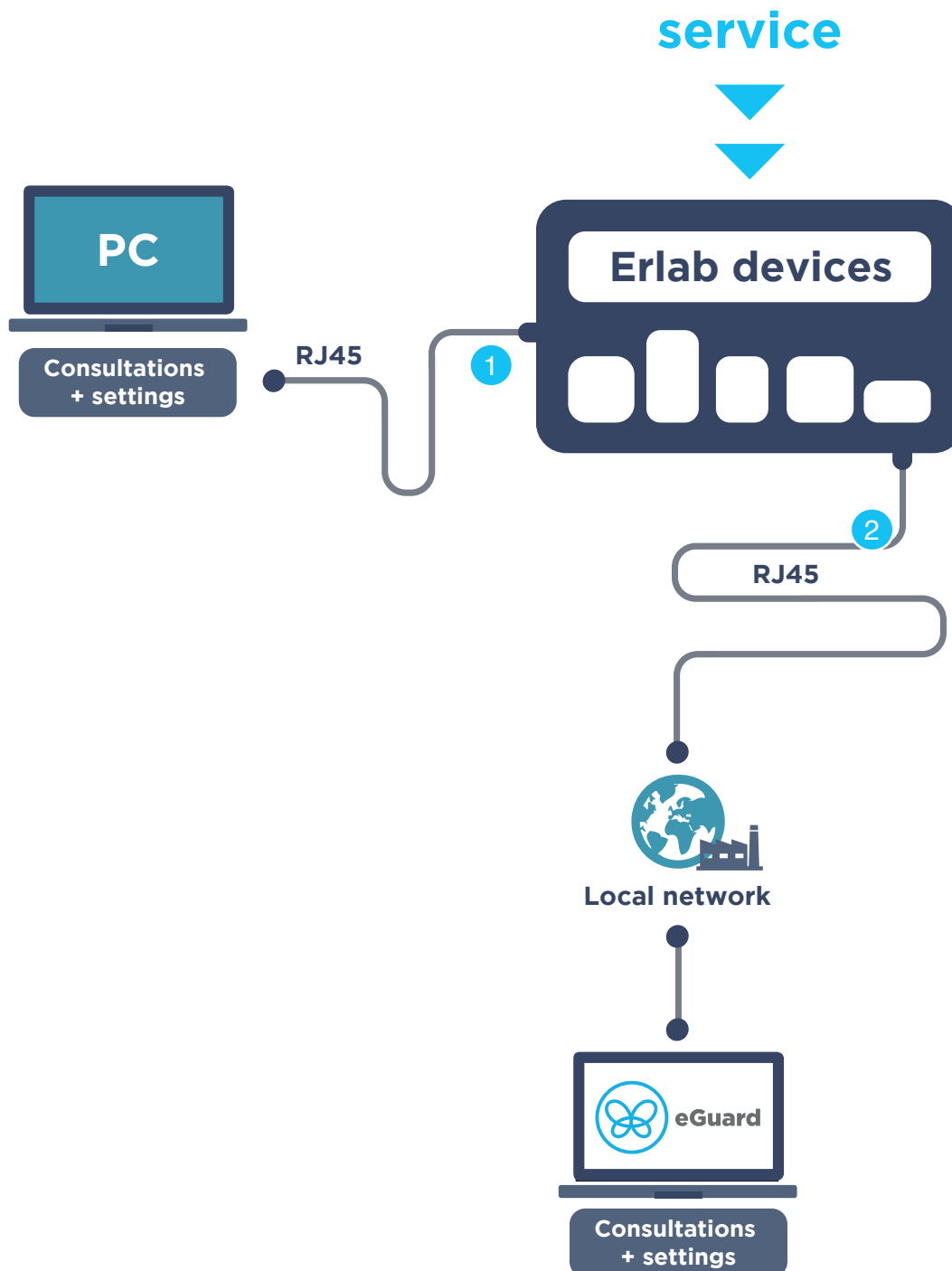
### Reset network settings


Forgot network settings?

- Please check the general switch if the unit is turned ON,
- Switch OFF the key 1,
- Press the Mute key for 5 seconds,
- After 3 beeps, network settings are reset,
- Reboot the unit: turn OFF/ON the general switch of the unit on the back of the control panel,
- The network default IP address is : 192.168.0.200

## The connectivity principle

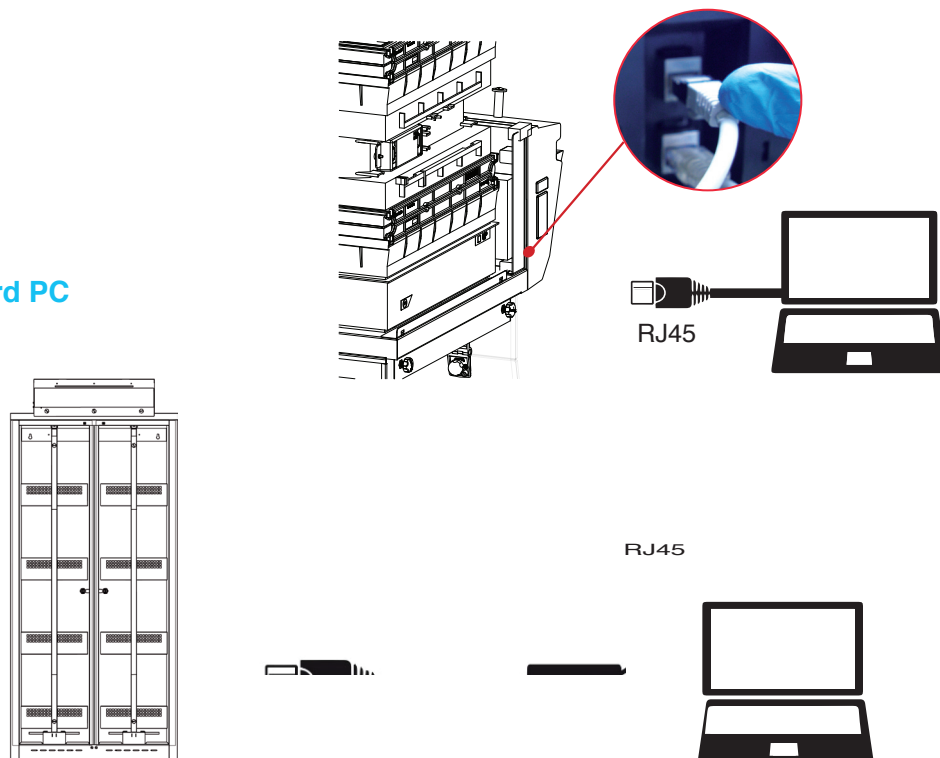
An ecosystem designed for simpler use and safer protection



To connect your device	 <b>Embedded service</b>
Conditions of use	Direct connection on PC with data cable (RJ45)
Hardware requirements	1 PC + 1 cable
Parameters	Monitoring + Controlling
Data access	One unit
Historical data access	✓
Historical data download	✓
Alerts, Notifications	
Multiple units monitoring	
Multiple user accounts	
Automatized status report	
Download	

### 3. How to connect Embedded service

#### eGuard PC



#### Embedded service

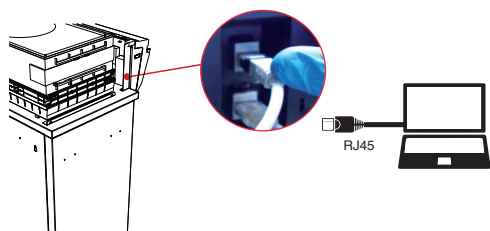
Check the settings and access the settings of your device via the embedded service.

Beforehand:

1. Have a computer equipped with an Ethernet port (for RJ45 cable connection)
2. The WIFI of this computer must be disabled
3. Check that this computer is equipped with a WEB browser (Internet Explorer, Edge, Chrome, Mozilla Firefox, Safari, etc.)

Note.: the RJ45 cable that allows direct connection to the computer is supplied with the device.

#### 1 Connecting the device to the PC

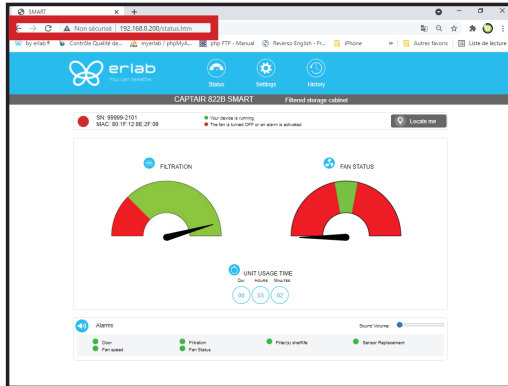


- Take RJ45 cable (black) already connected on the unit and rolled at the back of the control panel.



- Check that main switch (at the back of the control panel on fume hoods and storage cabinets) of the device is ON

**2** Open your web browser, type the following IP address 192.168.0.200 into the address bar and validate

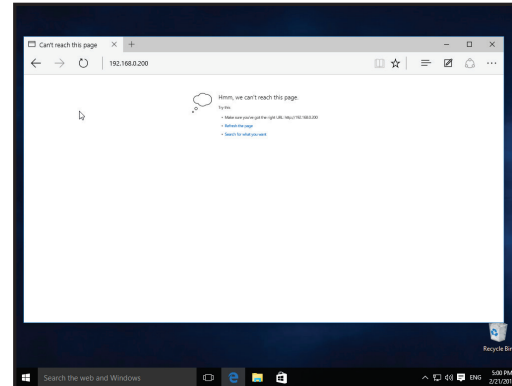


**OK**

You are connected to the embedded software  
You enter the « Status » page and you can have access to the « Settings » using the following credentials:

Login : **erlab** / Password : **smart**

Please go to page 33



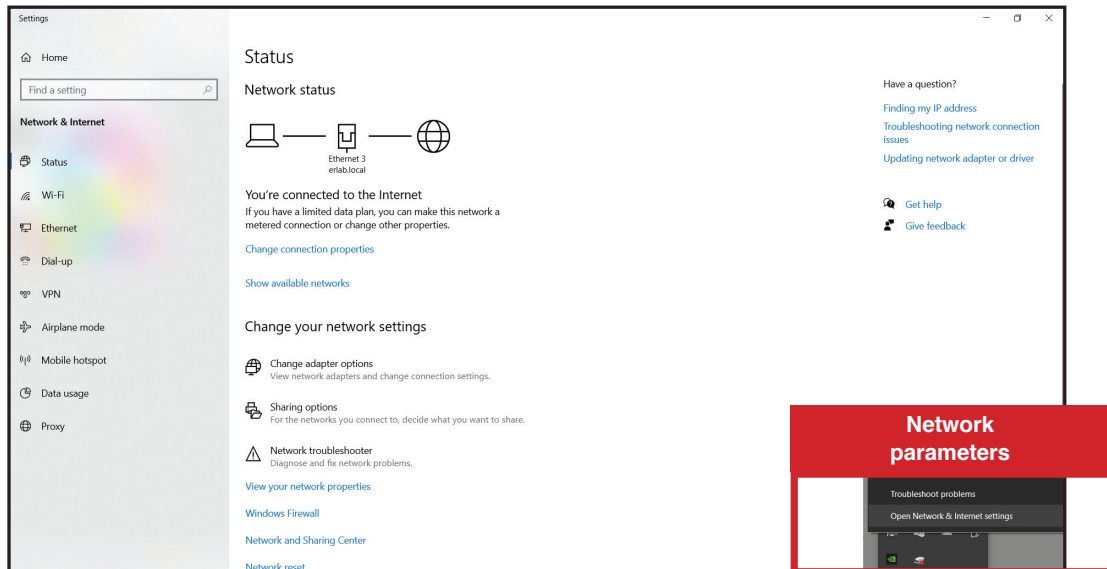
**Page is not accessible**

Computer network parameters are not allowing the access to the embedded software.

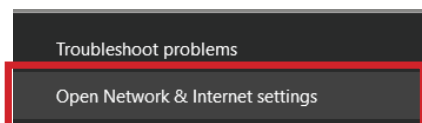
**Apply the following procedure**

**Page is not accessible:**

**1** Modify computer network parameters (windows 10)



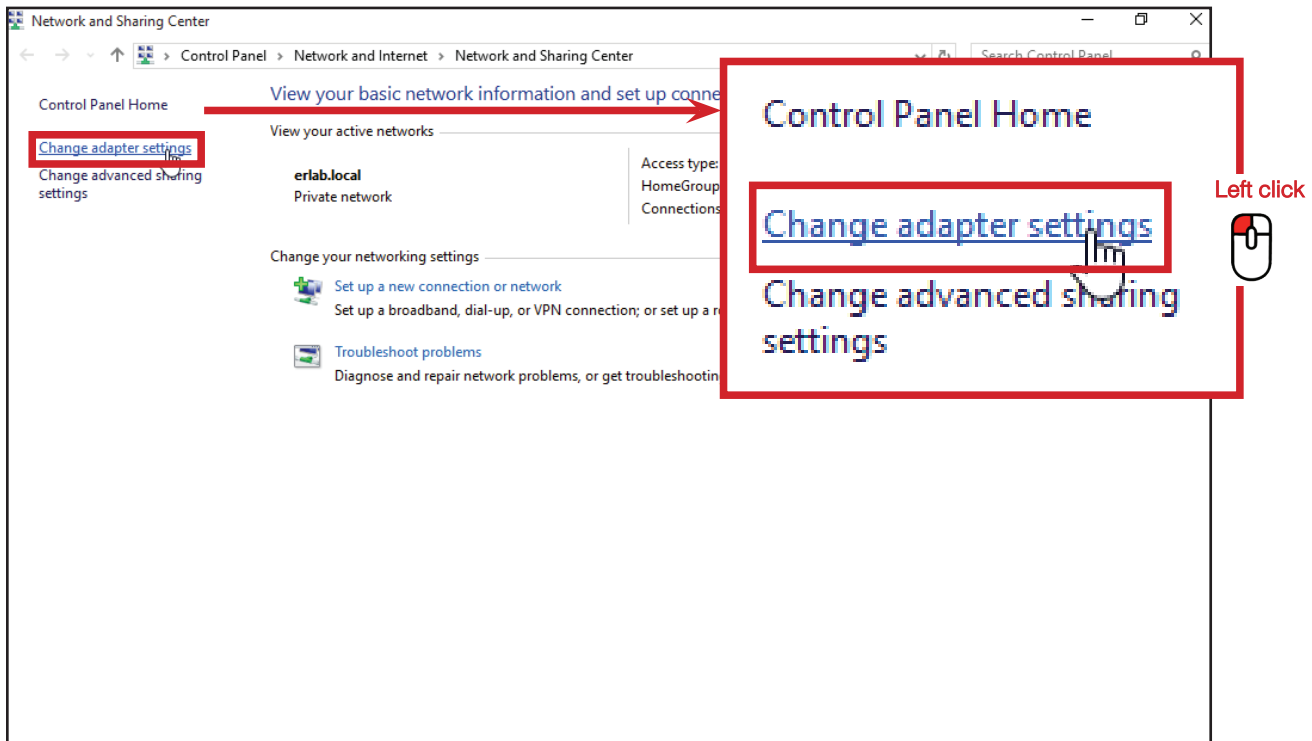
Left click



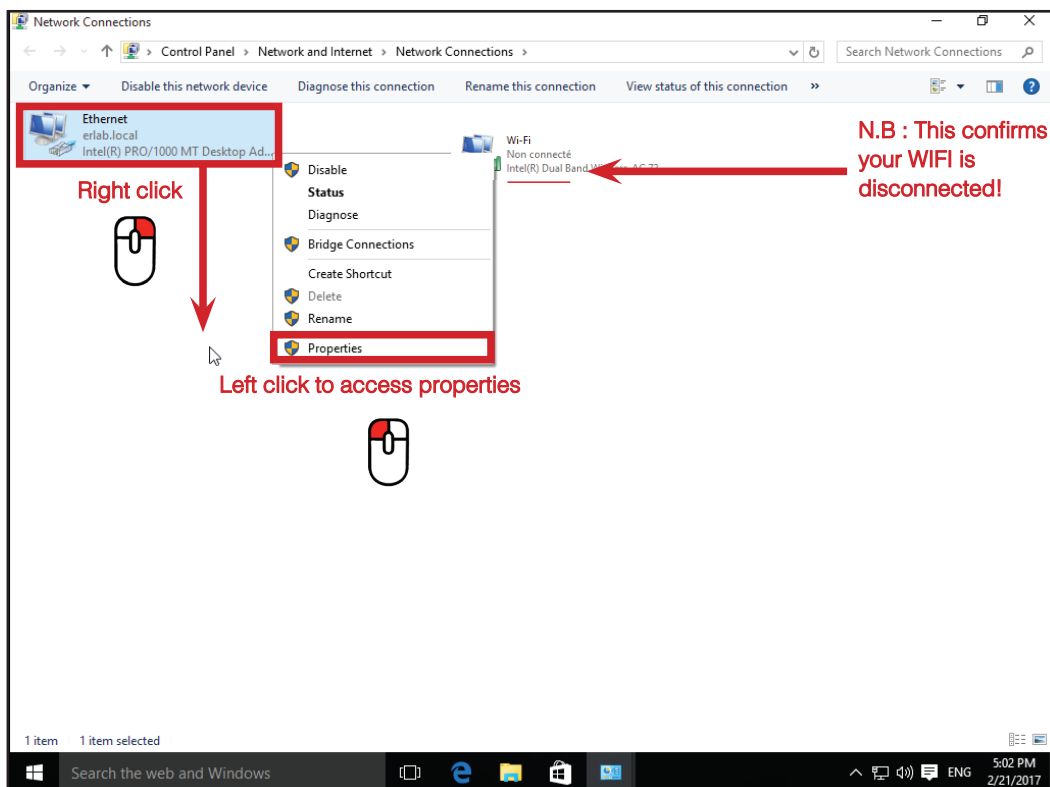
Right click



## 2 Access to the Network and sharing center (windows 10)



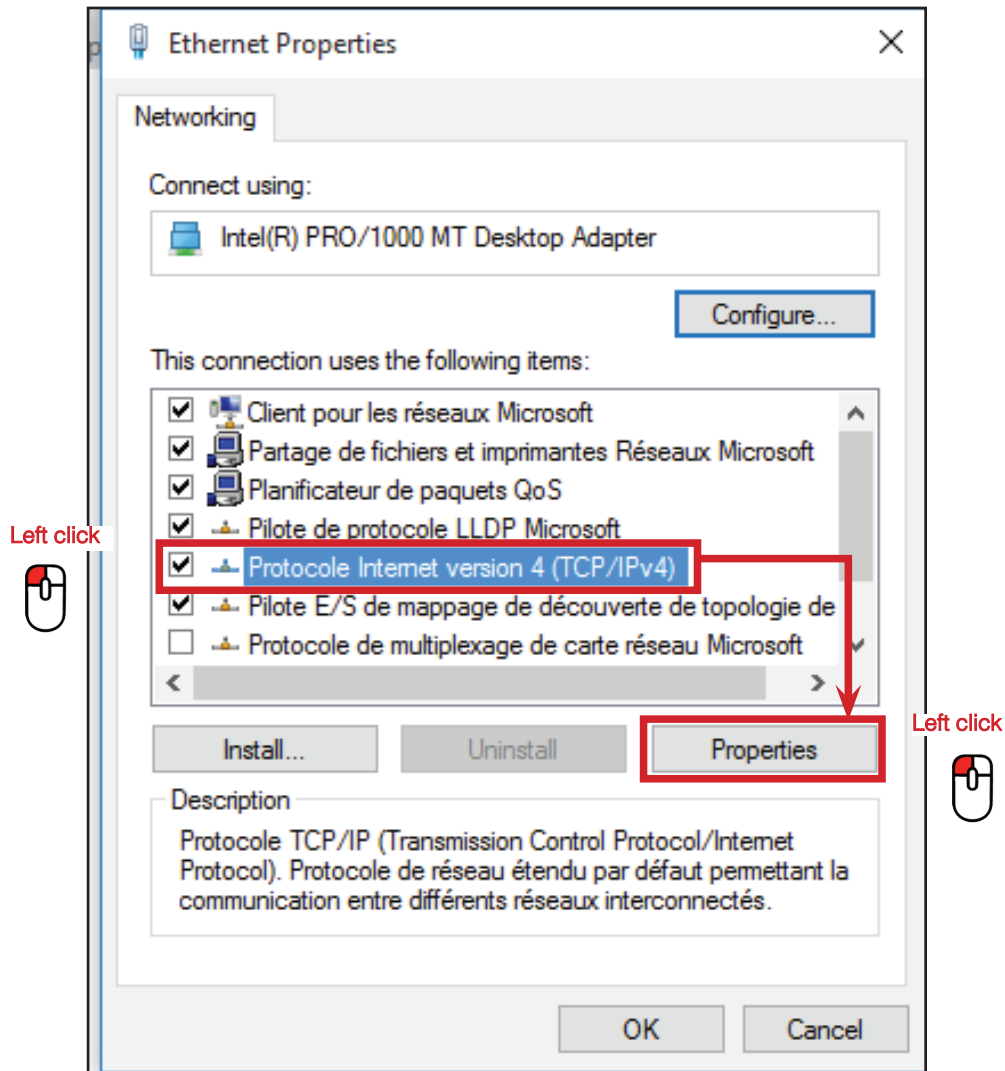
## 3 Access to the network connection (windows 10)



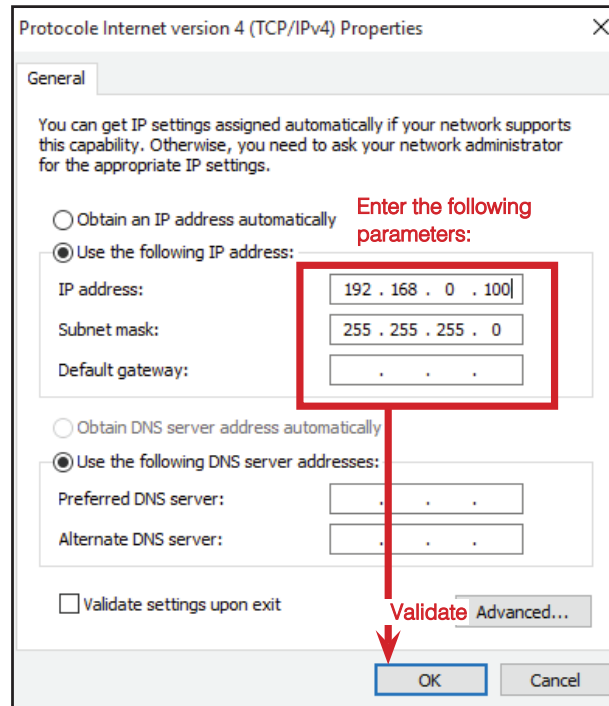


4

Enter compatible network parameters as indicated below (windows 10)

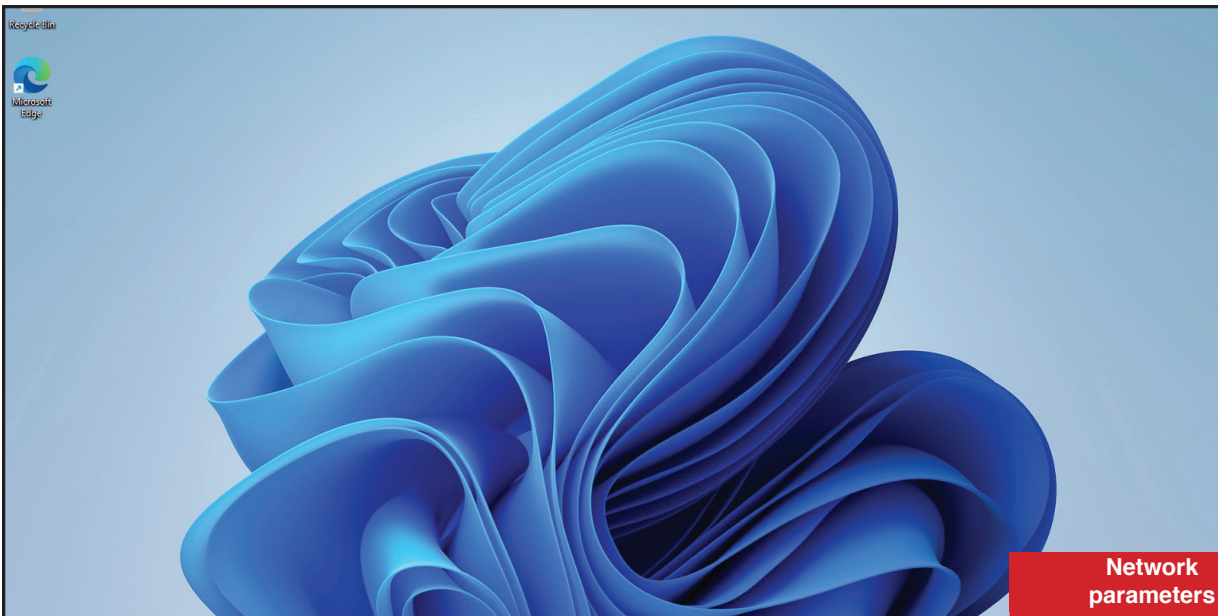


Write down your existing parameters before changing them in order to be able to set your initial parameters after the operation!



1

## Modify computer network parameters (windows 11)



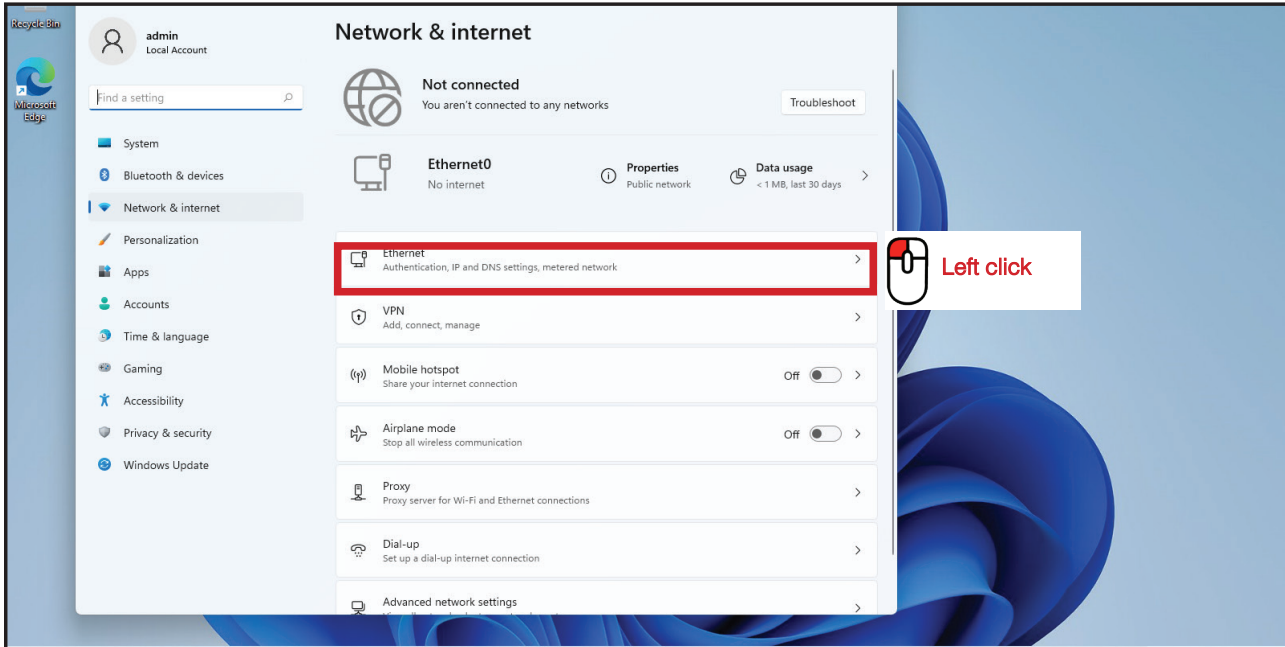
Network  
parameters



Left click

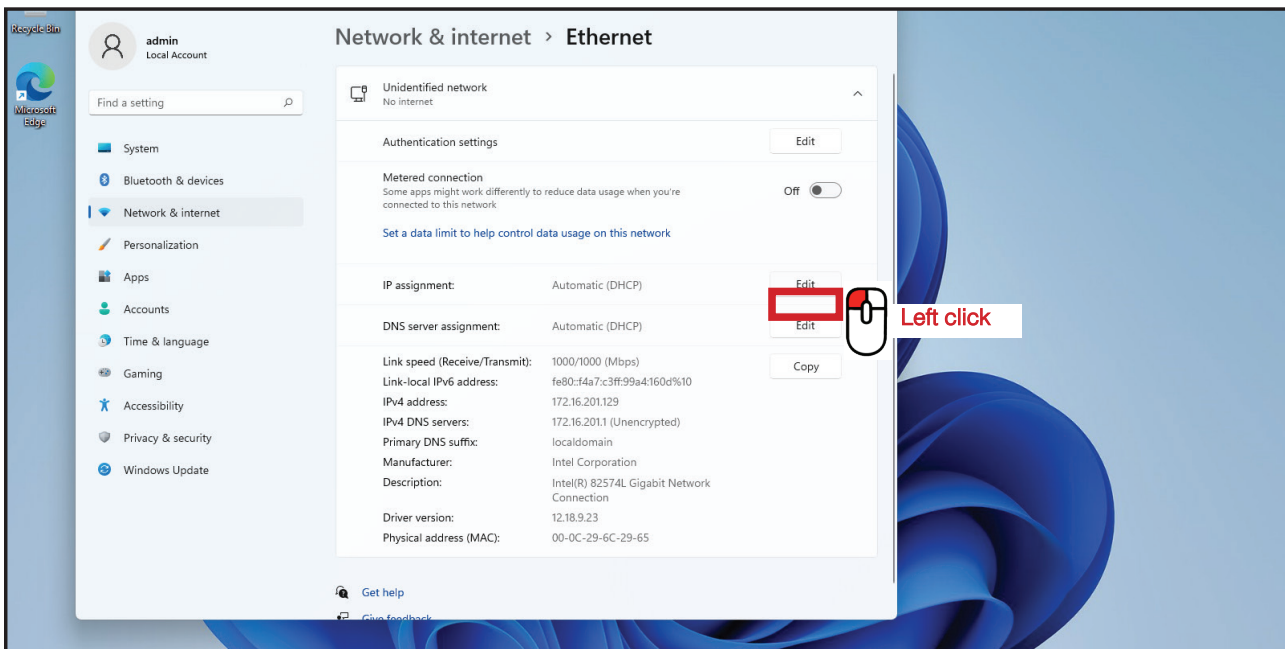
## 2

### Access to the Network and sharing center (windows 11)

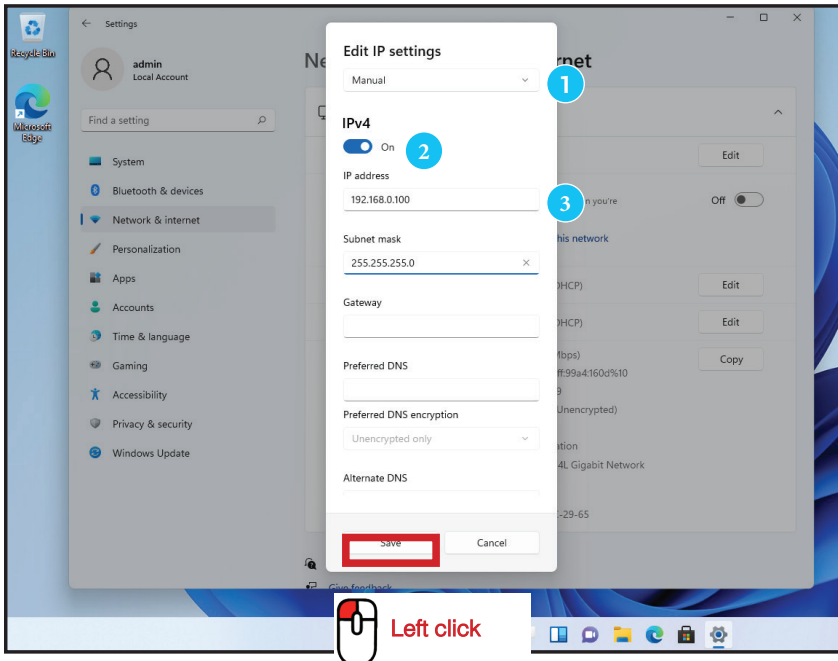


## 3

### Access to the network connection (windows 11)

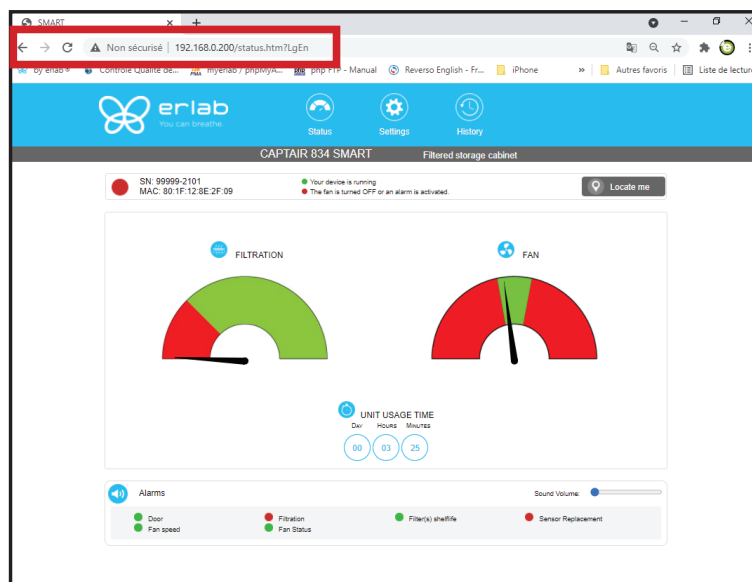


#### 4 Enter compatible network parameters as indicated below (windows 11)



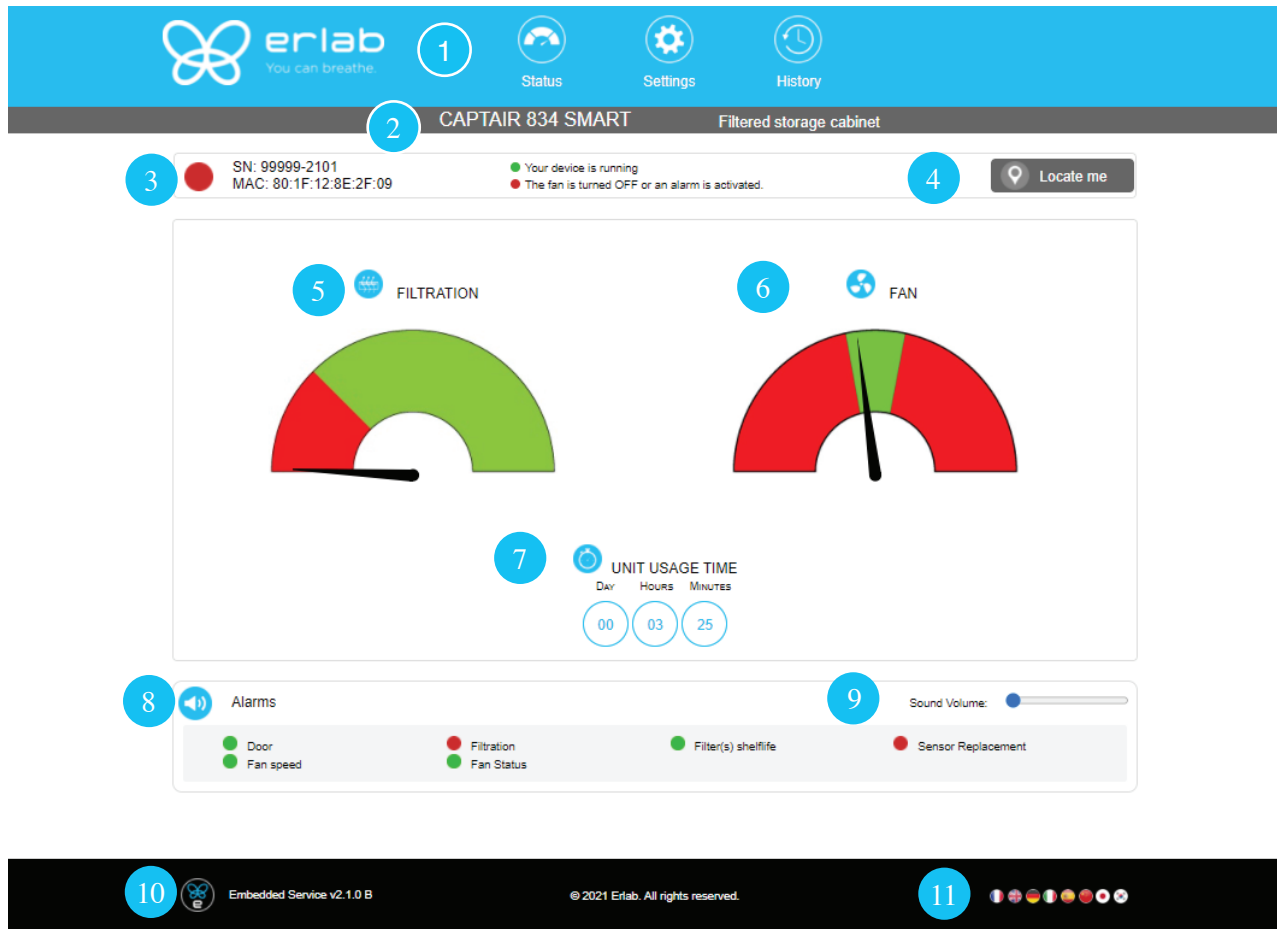
- 1 Select «manual»
- 2 Set «IPv4 to On»
- 3 Enter the IP address «192.168.0.100»

#### 5 Open your web browser again, type again the following IP address 192.168.0.200 and validate



- **OK** : You are connected to the embedded software  
You enter the « Status » page and you can have access to the « Settings » using the following credentials :  
Login : **erlab** / Password : **smart**

## Administrator Interface




### Status page details




1	Choose active interface page
2	Device ID: Model
3	Device ID: serial number, MAC address, device status
4	Locate me : digit the button, the light will blink 3 times
5	Option Molecode gauge: indicates a fault in the main carbon filter(s)
6	Fan Gauge: indicates the fan status
7	Device use time since fan was last started
8	Device alarm statuses (see alarm triggering conditions)
9	Volume setting
10	Embedded service version
11	Choose language

Access to the settings is protected by the following credentials:

User name: erlab


Password: smart






 Status
  Settings
  History

CAPTAIR 834 SMART


Filtered storage cabinet

 SN: 99999-2101  
MAC: 80:1F:12:8E:2F:09



 Your device is running  
 The fan is turned OFF or an alarm is activated.

 Locate me

Modify settings and press Update

-  Date/Time

Date: 
 Hours:  Minutes:


-  Network

- Mode




- Hostname

- IP

- MASK

- GW



Data exchange with eGuard App activated: ☒

 
-  Fan



Closed Doors Setpoint:

Opened Doors Setpoint:

RPM (Min: 1200 RPM | Max: 2800 RPM)


-  Opening doors Alarm

Delay:  Seconds (Min: 15 s | Max: 600s)




-  Filter saturation alarm

Sensor type: Molecode F

New Sensitivity:  High Sensitivity

Background Noise: ☒


Current replacement date:  Next replacement date: 01/02/2022



-  Filter(s) replacement

Filtration column:


Last replacement:

Next replacement in 512 Days




 Embedded Service v2.1.0 B

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Settings page details	
1	Device time and date settings
2	<p>Device network settings  Mode: Selected IP protocol  Hostname: Device name on network  IP: IP address of the device  MASK: network mask  GW: Network gateway</p> <p><b>Modify network settings :</b></p> <p>Default mode : DHCP</p> <p>Each unit is identified with its hostname : ER-UNIT-S/N  Hostname example for a Captair 834 Smart, S/N: 25698  Hosname will be: ER-834-25698</p> <p>This hostname is displayed on the IP Address label located on the back of the control panel  If the unit is not connected to a DHCP server, the unit will automatically switch to its default IP address:  192.168.0.200</p>
3	<p>Activate/Deactivate the exchange of information  This allows the transmission of information from the device to the eGuard server for:</p> <ul style="list-style-type: none"> <li>- remote monitoring via eGuard App (mobile &amp; PC)</li> <li>- receiving usage reports</li> </ul>
4	Device fan setpoint settings
5	Door alarm
6	<p>Air quality sensor</p> <p>Sensor type indication (VOCs: volatile organic compounds/ A: Acids / F: Formaldehyde)</p> <p>Sensor sensitivity settings:  VOCs sensor (5 settings) : High sensitivity, Medium/High Sensitivity, Medium Sensitivity, Medium/Low Sensitivity, Low Sensitivity  A and F sensors (3 settings) : High sensitivity, Medium Sensitivity, Low Sensitivity</p> <p>Sensor replacement  Enter replacement sensor date, display the next sensor replacement date</p>
7	<p>Filter replacement date:</p> <p>Indicates the filter type (AS: organics vapors / BE+:Acids, inorganics, organics, and solvents vapors / K : Ammonia vapors / F : Formaldehyde vapors / HP: powders)</p> <p>For units equipped with carbon and HEPA filters, please use the carbon filter indication</p> <p>Last replacement:  Counter showing the number of days the filter(s) can be used relative to its/their service life expiry date</p>
8	Confirm settings key (please validate each setting )




erlab


You can breathe.



Status




Settings



History



CAPTAIR 834 SMART


Filtered storage cabinet



SN: 99999-2101


MAC: 80:1F:12:8E:2F:09

 Your device is running
  The fan is turned OFF or an alarm is activated.



Locate me

1



Events history

2022/08/02 - 02:15: Molecode F: Filtration alarm(200)

2022/08/02 - 02:14: Molecode F: Setting Updated(Sensor sensitivity)

2022/08/02 - 02:14: Molecode F: Replace sensor

2022/08/02 - 02:14: Device in Operation

2022/08/02 - 02:14: Device stopped

2022/08/02 - 02:14: Device stopped

2022/08/02 - 02:14: Device stopped

2022/08/02 - 02:07: Device stopped

2022/08/02 - 02:07: Device stopped

2022/08/02 - 02:08: Device stopped

2022/08/02 - 02:02: Doors Opened

2022/08/02 - 01:41: Device stopped

2022/08/02 - 01:41: Device stopped

2022/08/02 - 01:41: Device stopped

2022/08/02 - 01:41: Device stopped

2022/08/02 - 01:38: Device stopped

2022/08/02 - 01:23: Device stopped


2022/08/02 - 01:21: Device stopped

2022/08/01 - 23:42: Doors Opened

2022/08/01 - 23:21: Device stopped


2

Download History



Embedded Service v2.1.0 B

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Log page details	
1	Displays the device's event log
2	Used for downloading the log in .csv format

36

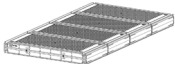
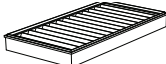


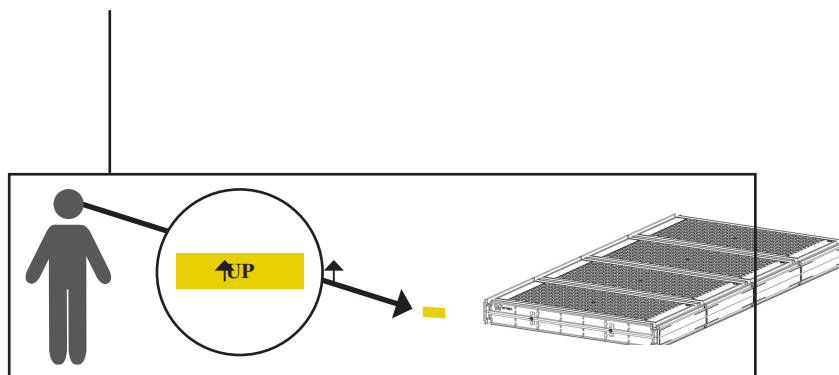
## Fan setpoints

Unit / Type of filtration column	1P	1C	1C1P	1P1C	1P1C1P	1P2C	2C1P	2C	2P
834	Open doors : 2300 RPM / Closed doors : 1300 RPM								

## Replacing the filters

The table below summarizes all possible Flex™ filter technology configurations for CaptairStore chemical storage cabinets.

	Molecular filter	HEPA filter H14 or ULPA
Column Configuration		
Models	<b>Captair 834 Smart</b>	<b>Captair 834 Smart</b>
1C	x1	
2C	x2	
1 P		x1
2 P		x2
1P 1C	x1	x1
1P 2C	x2	x1
1C 1P	x1	x1
2C 1P	x2	x1
1P 1C 1P	x1	x2



Each molecular filter is labelled as follows

**Please observe these markings.**

The table below summarizes the different types of carbon filters that Erlab® offers along with their fields of application.

Type AS	For organic vapors
Type BE +	Multi-application for acid and organic vapors
Type K	For ammonia vapors
Type F	For formaldehyde vapors

## Replacing the HEPA H14 / ULPA filters

### Pre-requisites

- The operator in charge of the filter replacement must be informed by users about the complete list of stored chemicals to allow to select its PPE
- The laboratory is empty when the operation is carried out
- The laboratory is ventilated by mechanical or natural means while the operation is carried out

### Minimum protective equipment

- One-piece overall + overshoes + bouffant cap
- Laboratory gloves (latex or nitrile)
- Protective glasses
- Breathing mask with particle filter (P3)



This procedure is applicable to HEPA/ULPA filters located at the bottom of the filtration columns and designed to trap powders handled.

### Strict chronological order to follow:

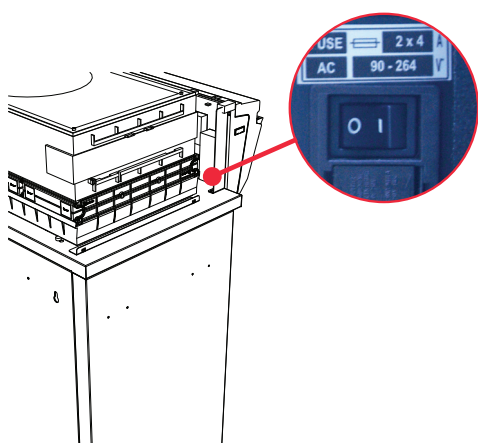
- 1- Switch on the device fan
- 2- Carefully spray the bottom surface of the HEPA/ULPA filter (paint with NON FLAMMABLE propellant), to be done inside the enclosure
- 3- Allow at least 5 minutes with the fan running for the spray to dry
- 4- Shut down and unplug the device and disconnect the fan module power supply cable and the sampling tubes from the sampling area (if installed)
- 5- Carefully remove the molecular filter(s) (if present) and the fan module
- 6- Carefully unwrap the new HEPA/ULPA filter  
Keep the plastic film and cardboard box so that you can use it later to pack up the used filter  
Lay out the film on a flat surface in the immediate vicinity of the operation so that it is at the ready
- 7- Carefully remove the used HEPA/ULPA filter and immediately place it contaminated-side down onto the plastic film
- 8- Clean the filter housing
- 9- Package up the used filter + contaminated equipment. Seal the plastic film tightly
- 10- Place the sealed package in the box the new carbon filter came in, then seal it using adhesive tape
- 11- Fit the new HEPA/ULPA filter, main molecular filter (if present) and the fan module, followed by the backup molecular filter (if present). Make sure that all the column components.
- 12- Reconnect the device's various cables and hoses, switch the device back on.

Have the filter disposed of via a suitable disposal process in accordance with the applicable regulations.

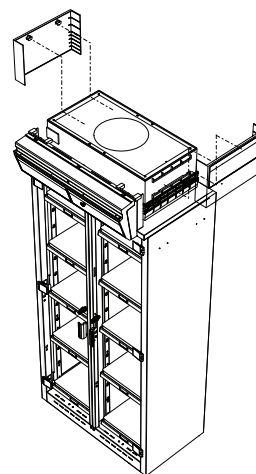
To find out more, please contact your usual advisor.

## Filter Replacement Procedure

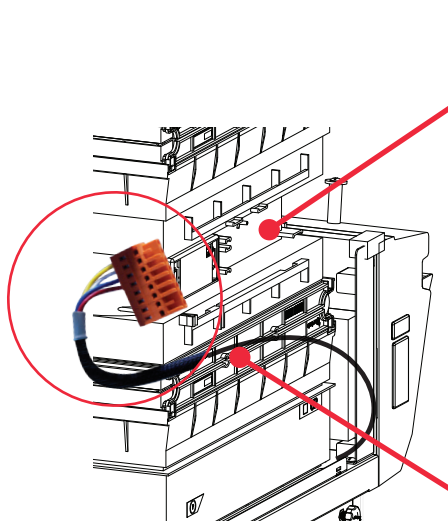
For these operations, we strongly recommended that the user or maintenance technician wear the necessary safety equipment, including: safety glasses, lab coat and gloves



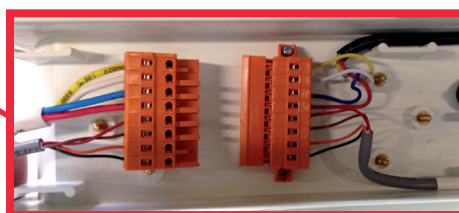
Switch off the unit



Remove the two protective shields on either side of the unit



Disconnect the power supply to the fan unit followed by the fan module hose (if the device is fitted with a type A or F Molecode)



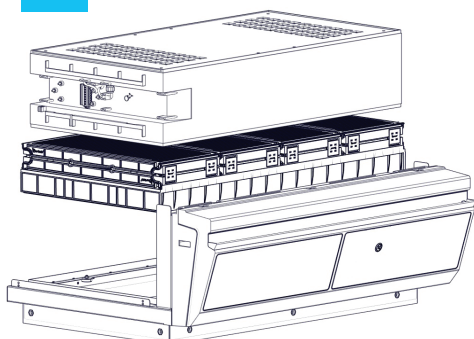
Identify which column configuration below applies to your chemical storage cabinets. (See your Valipass label)

Unstack the filtration column(s) above the chemical storage cabinets.

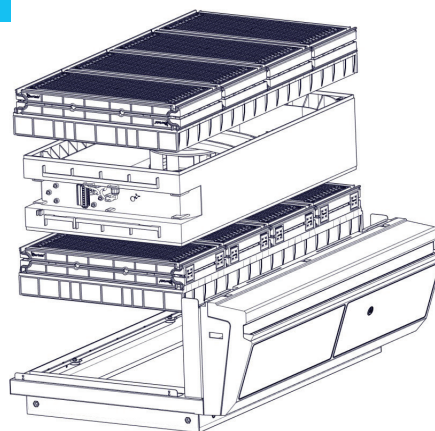
After carefully removing the filters from their packaging, assemble the column per the configuration below

If your column configuration changed, Apply the correct fan setpoint for the filtration column configuration (see fan setpoints)

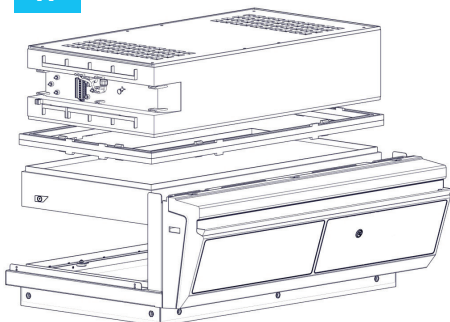
1C



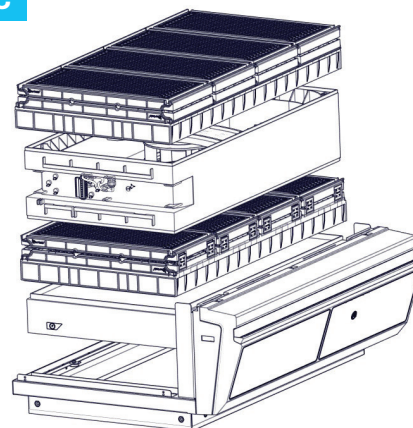
2C



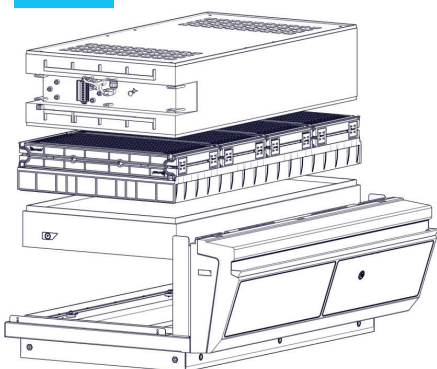
1P



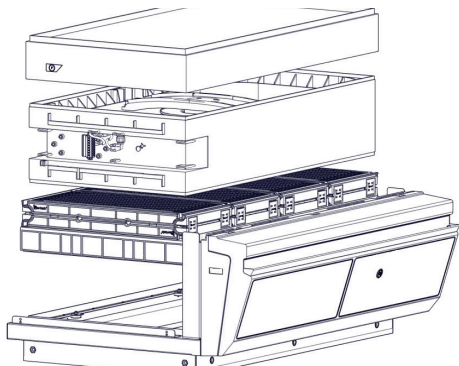
1P2C



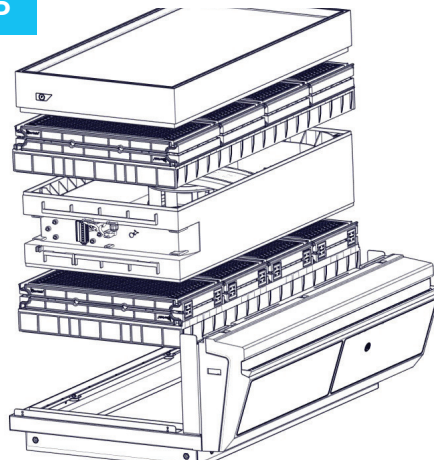
1P1C



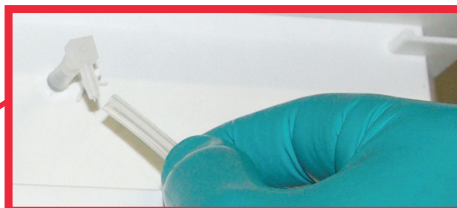
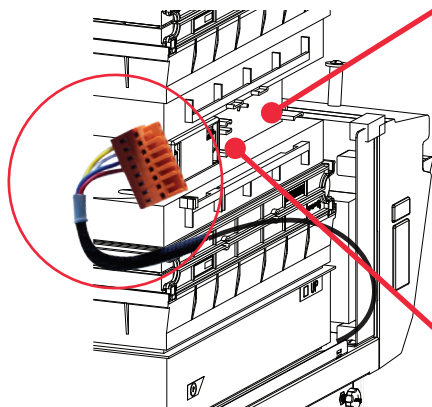
1C1P



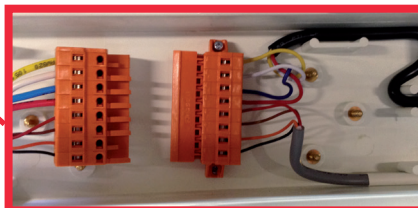
2C1P



When reassembling the filtration column, be sure that the fan module is positioned correctly to access your connection points.



Reconnect the power supply to the fan unit and the hose to the sampling port.  
(If the device is fitted with a type A or F Molecode)



## Recommendations for the use of filters

**We recommend replacing the filter annually (if used 24/7).**

**ERLAB** offers 3-point validation of your handling operations based on a scientific analysis carried out by its laboratory specialists via the global **Erlab Safety Program (E.S.P)** which includes the [eValiQuest](#) questionnaire: :

- Organization of storage
- Type(s) of filter(s) to use and filtration column configuration (if required)
- Predicted service life of the activated carbon molecular filters

How does the E.S.P service work ?

- The customer registers these chemicals by logging on to [www.evaliquest.erlab.com](http://www.evaliquest.erlab.com)
- The Erlab laboratory specialists analyze the questionnaire and issue a **Valipass** certificate

The Valipass certificate is affixed to the new devices at the factory. If the chemical processes in the hood change, a new eValiQuest is completed and is sent by email after revalidation.

The certificate contains the following: a list of the products handled in the fume hood, the type of filter required for these chemicals, the serial number, the life of the filter, the traceability information used to track the use of the device and the methods of detecting filter failure of the molecular filter.

To ensure their safety, we invite users who have not had registered their products in the **eValiQuest** interface or whose device is not covered by a **Valipass** usage certificate, to contact [ERLAB](#) or their usual distributor to arrange a new usage validation for the device in question.

### **Failing that and/or in the absence of information regarding device usage:**

ERLAB is unable to provide any guidance as to the predicted service life of the filter(s)..

**In such cases, we strongly recommend:**

- **Replacement of molecular and particulate filters at least every 12 months and implementation of a regular filter fault monitoring protocol.**

## Shelves : maximum permissible mass

Plastic Shelves	Basket for pull out doors
15 kg	15 kg

## Cleaning and maintenance

### Mechanical item checks

#### Hinges:

Hinges must be correctly attached and not too tight; they must allow cabinet doors to be opened instantaneously with no effort.

#### Acrylic Parts:

These parts must be clean; white streaks or spatters indicate rather heavy use of acid (hydrochloric acid) or products handled at a high temperature. Ensuring the transparency of the walls is a part of regular maintenance for the enclosure.

### CLEANING THE ENCLOSURE

Cleaning the dividers is mandatory and must be done regularly. It may be done in several ways:

- With soapy water followed by rinsing with clear water and drying with a soft; nonabrasive; B32 absorbent paper towel.
- Or with a commercial PH neutral neutralizing product followed by drying with a soft; non-abrasive; absorbent paper towel.
- Or with a commercial glass cleaning product

#### Coated Metallic Parts:

- They must be inspected and free from any traces of corrosion.
- Check that no liquid stagnates in the shelves with a retention tank.
- Clean retention tanks if necessary



# About Erlab

The Erlab Research and Development laboratory

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.

## 1 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.

## 2 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 program

A set of three services included with the purchase of each device designed to ensure your safety.



**eValQuest** Risk analysis – Determination of protection needs – Determination of ergonomic needs.



**ValPass** Certified installation – Total safety for handling.



**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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