

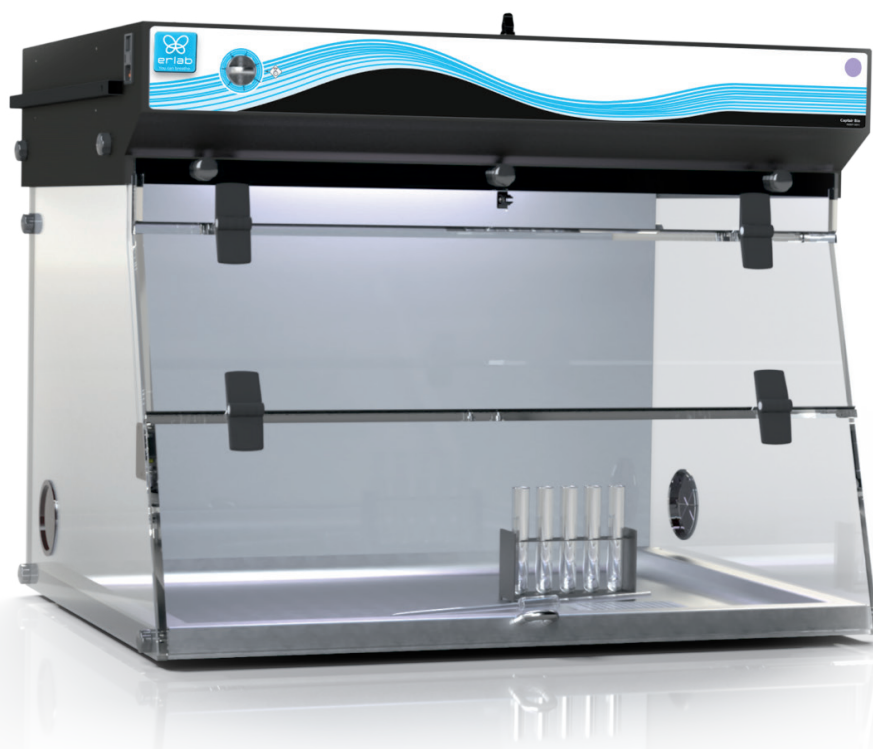


# Captair Bio 320

Mobile ductless filtering PCR workstation

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## Instructions & User's Manual



## Contents

General.....	3
Safety notices.....	3
The Erlab guarantee.....	4
Recommendation for implementation/positioning .....	5
Mounting the unit.....	6
Start up .....	11
Admissible weights on worksurfaces .....	14
Cleaning and maintenance .....	14

## General

**By choosing Captair ductless filtration fume hoods, 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: **handling the chemicals**.

Your ductless Captair filtration fume hood guarantees that you are protected when working with chemicals that pose an inhalation risk. The Erlab filtration technology it employs traps hazardous particles and molecules and returns clean air back into the laboratory.

The system's connectivity allows for real-time safety alerts and individual device usage reports to be sent via the eGuard.

## 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 fume hood throughout its life cycle.

The E.S.P. program (Erlab Safety Program) 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 handling of substances that are carcinogenic, mutagenic or toxic for reproduction (CMRs) underneath a fume hood is covered by the French Labour Code. The code notably specifies that an in-depth risk analysis must be carried out prior to any CMRs being handled under a recirculating fume hood.

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.

**Erlab** recommends that the electronic anemometer is calibrated at least once a year.

The quantities of the chemicals handled in the enclosure should not be greater than those listed in the guide to approved chemicals (the Chemical Listing).

AFNOR standard NF X 15-211: 2009 only applies to chemicals subject to an OEL.

Pursuant to the NF X 15-211 standard, only operations that can immediately be stopped are allowed to be carried out in a Class 2 enclosure. Moreover, the fume hood's filter must be replaced if any chemicals are detected downstream of the filter.

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.

## The Erlab guarantee



### Product registration

Take full advantage of the device's connectivity to enhance your safety

### Get up to 10 years warranty on your connected Erlab unit

Register your product online: the registration of the product will automatically give you one extra year of warranty (in addition to the warranty mentioned in the Erlab' general terms and conditions of sale).

Connect your unit: Once the device is connected to the Internet and configured to exchange usage data, the warranty is extended for up to 10 years. Warranty will be successively renewed at each filters replacement and for the life time indicated on the Valipass® and/or or at the end of filter usage time.

In order to benefit from Erlab extension of warranty offer, the following conditions shall be respected:

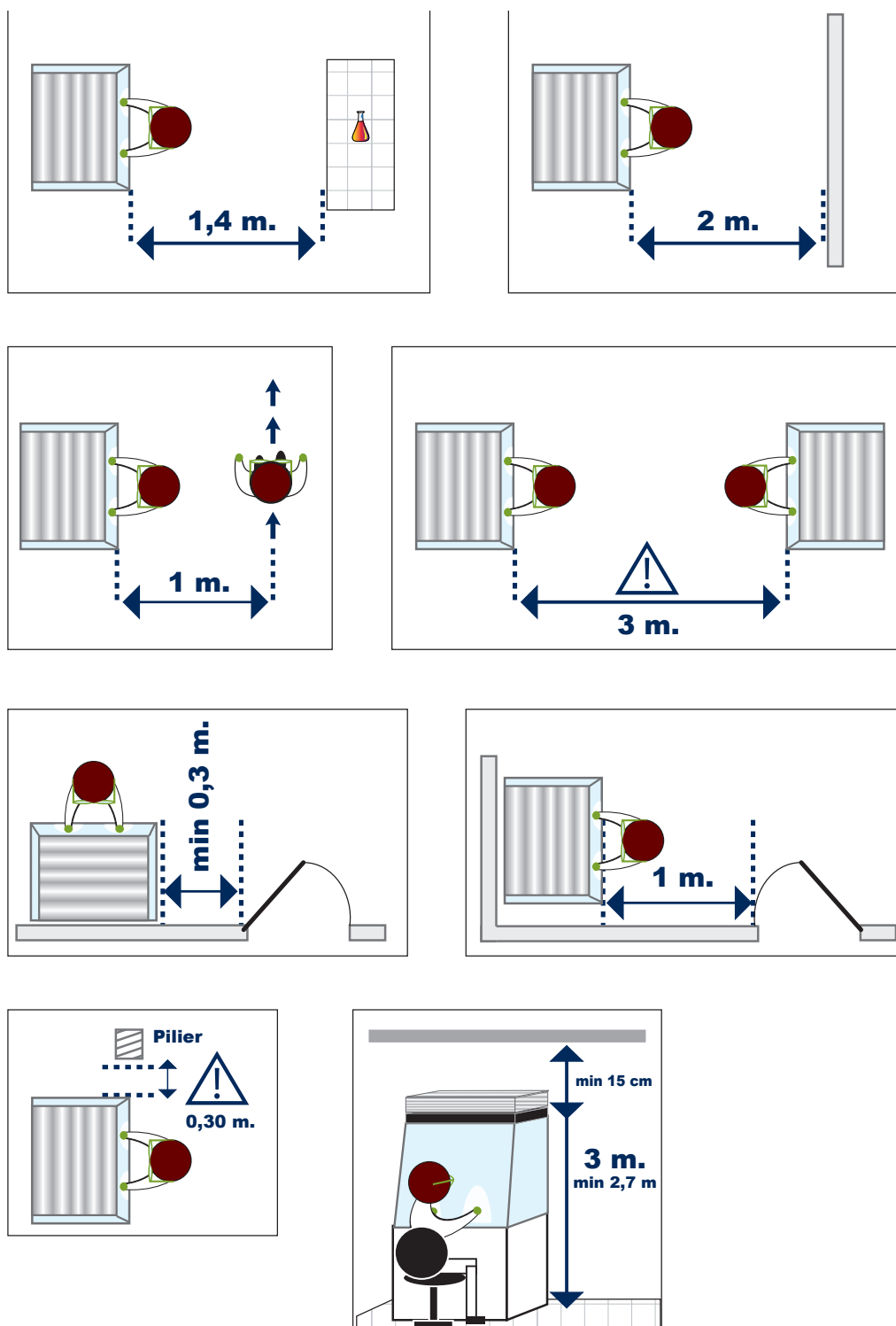
- The registration and/or the connection of the product shall be performed within the twelve months from the purchase date ;
- Filters replacement must be performed following eValiQuest® service recommendations or at the end of filter usage time ;  
The filter's serial number, used as an identification key, validates this condition, regardless of your device's supplier (and/or the replacement filter's supplier for the following years);
- The device's replacement filters must be manufactured by Erlab, as must all other spare parts.

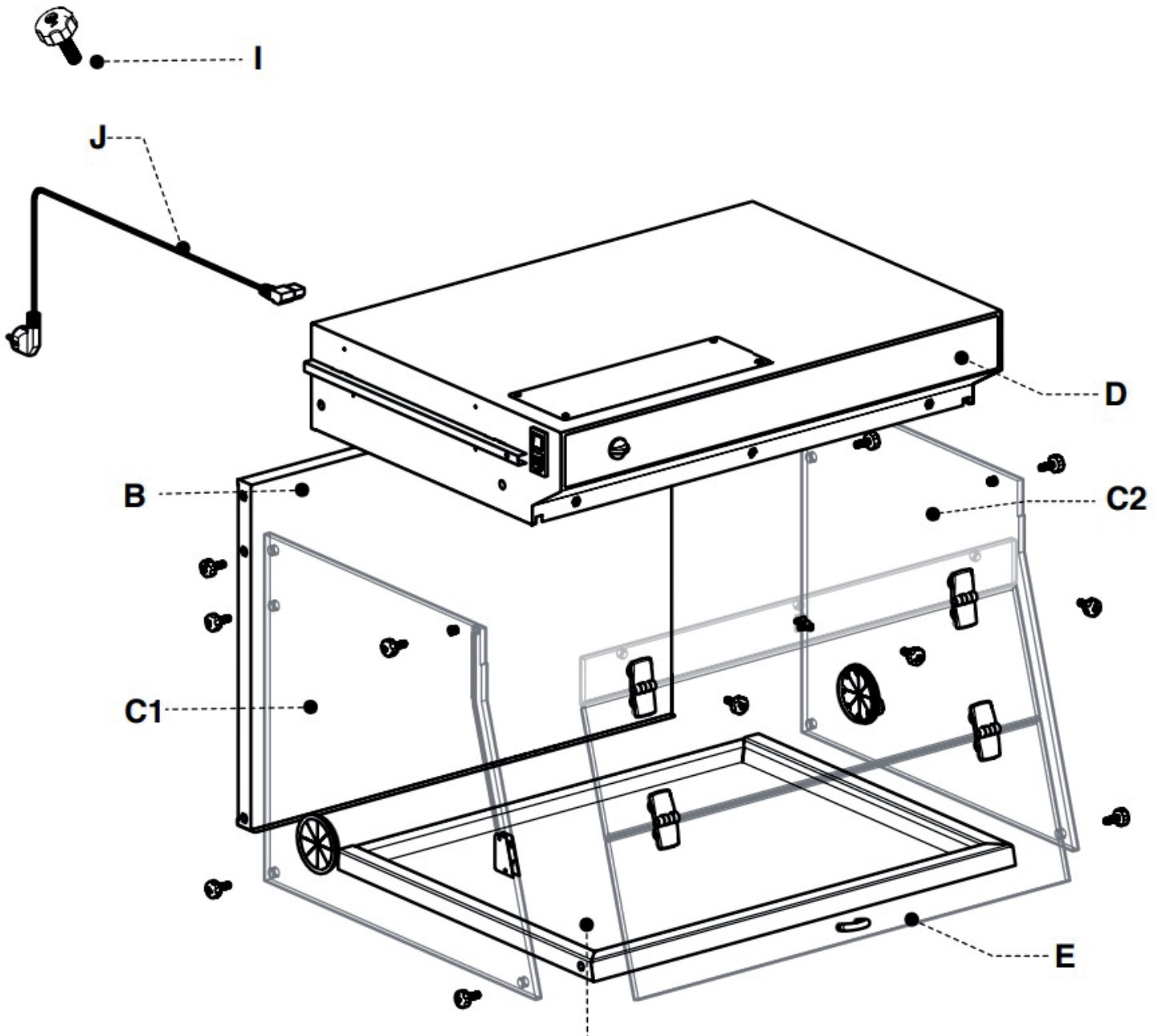
Consumables such as filters and filter failure sensors are not covered by the warranty.




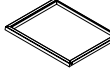




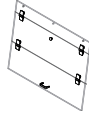




## Recommendation for implementation/positioning



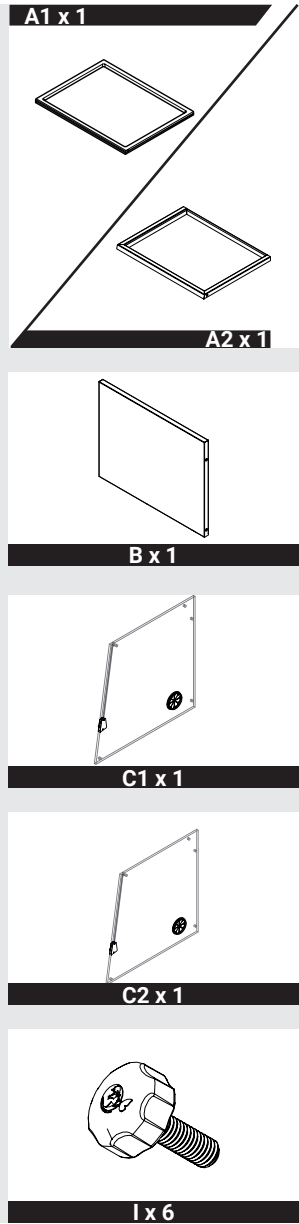
Necessary space and dimensions - according to the EN 14175-5 standard



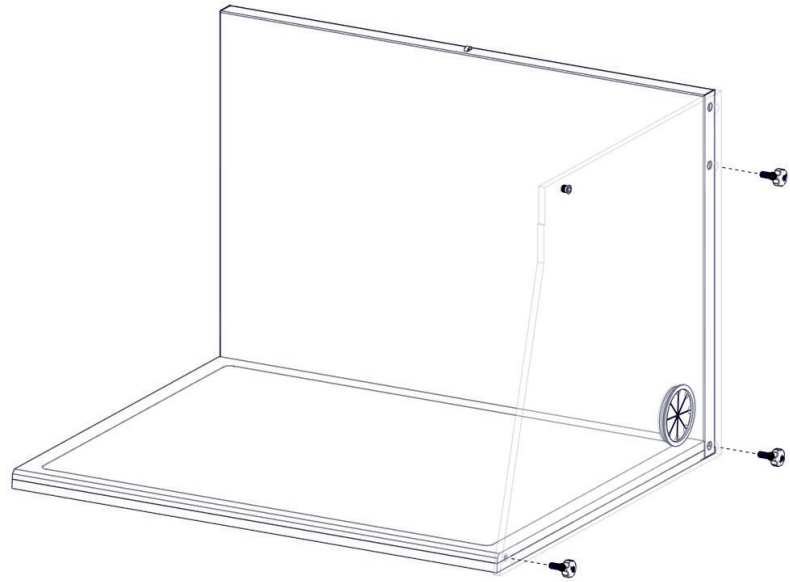


	<b>A1</b>	Resin work surfac		x1	IO115020002
	<b>A2</b>	Work surface - stainless steel 304L		x1	IO115050002
	<b>B</b>	Back panel		x1	Z7PIDRI7003
	<b>C1</b>	Left side panel		x1	Z7PIDVI712
	<b>C2</b>	Right side panel		x1	Z7PIDVI716
	<b>D</b>	Top part (1), control panel (2) and UV lamp		x1	(1)Z3CEILINCBIO320 (2) K90Z021
	<b>E</b>	Acrylic front panel		x1	Z7PIDVISMARTBIO320
	<b>I</b>	Nylon screws		x13	PIDB08547
	<b>J</b>	Power cable + 2 clamps		x1	EU = PIDEL076 GB = PIDEL090 CH = PIDEL106
	<b>O</b>	Nylon cable tie		x2	Z7PIDEL8533
	<b>P</b>	Cable duct		x1	z7PIDRE3724-1

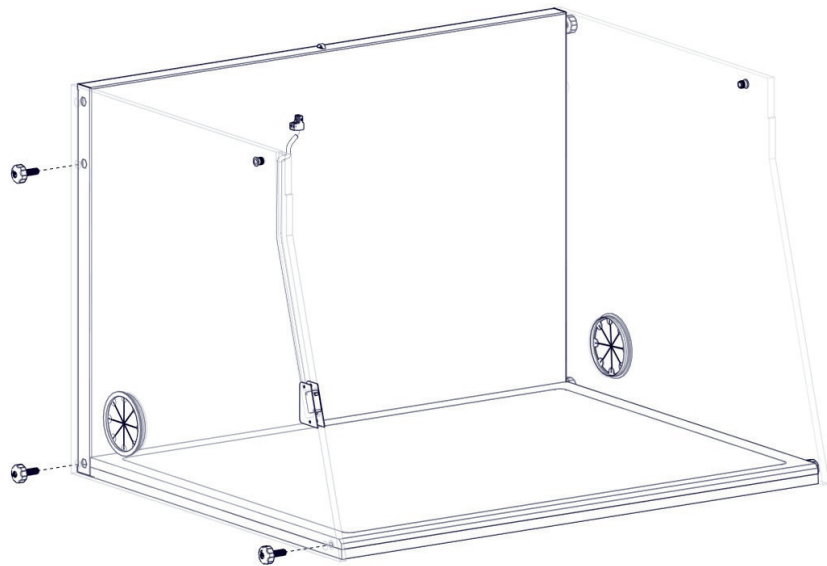
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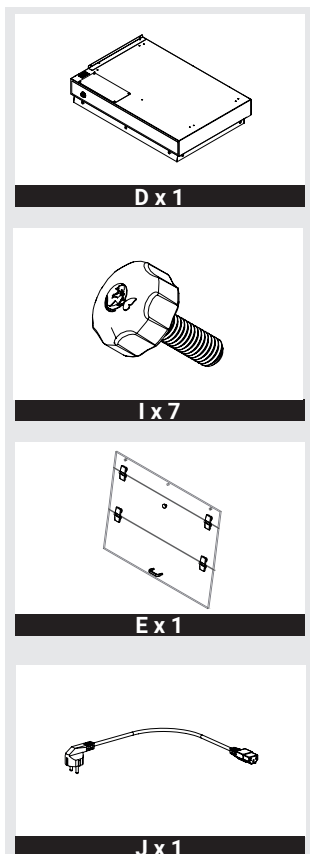


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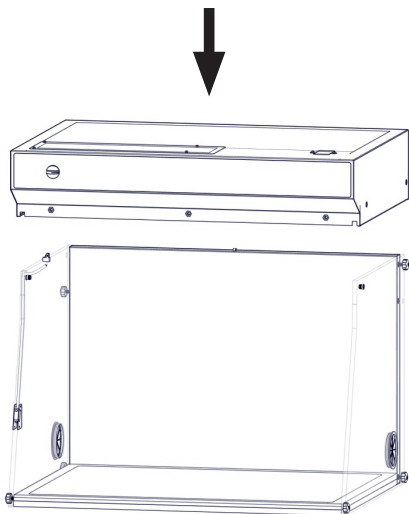




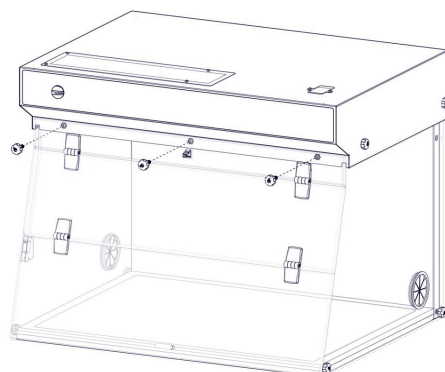
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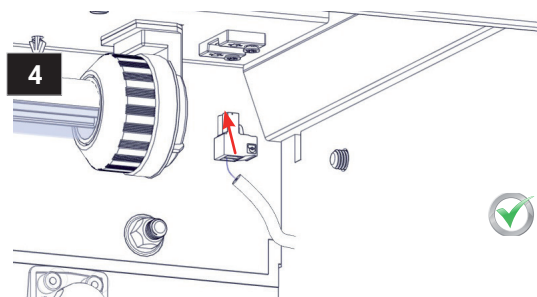
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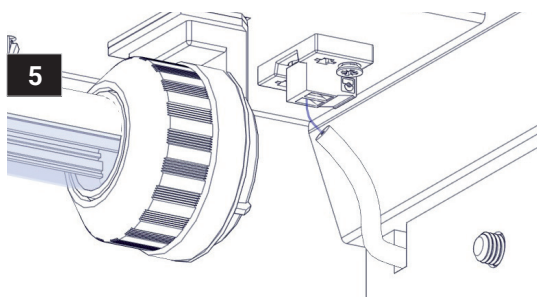
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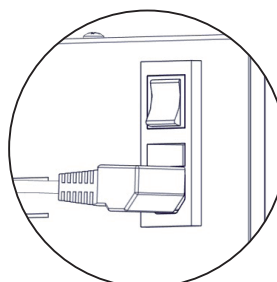
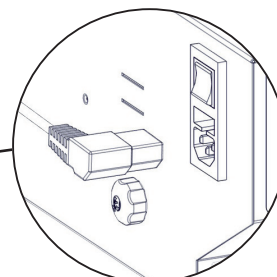
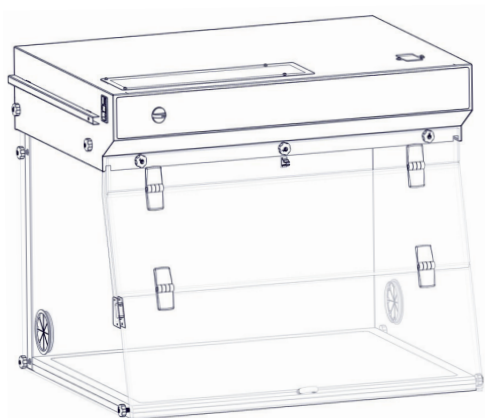
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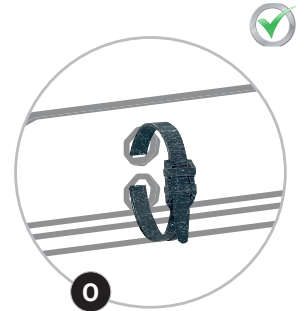
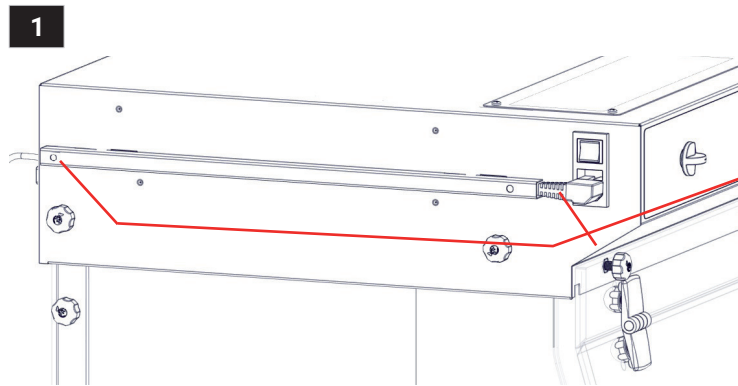
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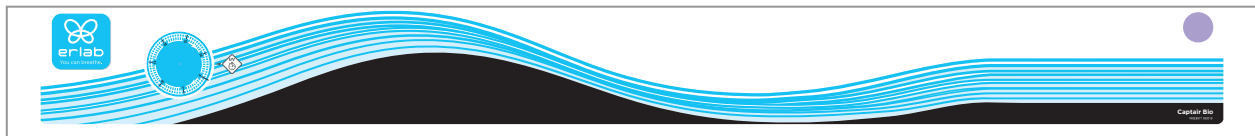
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3



4



Power up the UV lamp\* using the switch located on the control panel.  
The UV lamp can exclusively be activated when the front door is closed.  
The UV timer decontamination cycle can be runned from 0 to 30 minutes.

\* **UV lamp** : At 5,000 hours, it will have lost 15% / At 8,000 hours, it needs to be replaced.

## Admissible weights on worksurfaces

The chart below reflects loads that are evenly distributed across the work surface

	Trespa® Top Lab <sup>PLUS</sup>	Stainless steel work top
Captair Bio 320 Smart	35 kg	35 kg

## Cleaning and maintenance

### Mechanical item checks

#### Hinges:

Hinges must be properly attached and must allow any items on the front side of the workstation to be instantly and easily lifted upward.

#### Acrylic Parts:

Ensure the transparency of the panels is a part of regular maintenance for the enclosure.

#### - Cleaning the enclosure

#### The enclosure must be cleaned on a regular basis.

This may be accomplished in several ways:

- With soapy water followed by rinsing with clear water and drying with a soft, non-abrasive 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 non-alcoholic disinfectant detergent.

#### Coated Metal Parts:

- These must be inspected and free from any traces of corrosion.
- Check that there is no stagnant water in the spill tray.
- Clean the spill tray if necessary.



The Erlab Research and Development laboratory

# About Erlab

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 programme

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.



**ValiPass** 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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