erlab

You can breathe.

CaptairFlow 321
Clean air enclosure

Providing an ultra-clean, dust free enclosure

CaptairFlow vertical laminar flow cabinets are designed for tissue culture, non-pathogenic biological samples, food microbiology, cell culture, and semi - conductor assembly:

Dust free workstation

• Protection against dust contamination

• Internal dust - free air quality achieved by high efficiency particulate filter (s) (HEPA H14 or ULPA U17)

• Optional carbon filter to protect samples from VOCs present in the laboratory room

• Class 5 air quality in the enclosure according ISO 14644-1

UV-C Germicidal Lamp

• To sterilize the interior and contents before usage to prevent cross-contamination from the previous experiment

• This UV lamp switches off automatically if the operator opens the lower door by accident during decontamination

Easy to Clean

• Seamless worktop with smooth corners (available in TRESPA®TopLab^PLUS or Stainless steel 304 L)
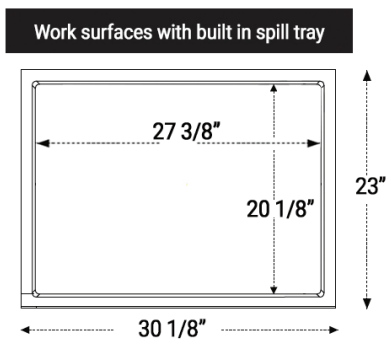
• Non-porous material

Ergonomic Design

• 4 models available for your handlings with large openings for easy access to your work

• Slanted sash provides an ergonomic position for comfort and productivity

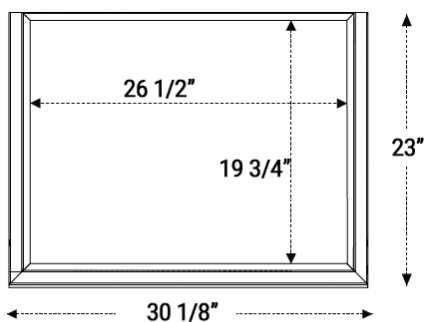• High luminosity, internal LED lighting > 800 lux

31 1/2"

27 1/2"

11 3/4"

30 1/8"
30 3/4"
30 5/8"

23 3/4"

16 3/4"

32 5/8"
32 7/8"
43 1/2"

21 1/2"
24 1/4"
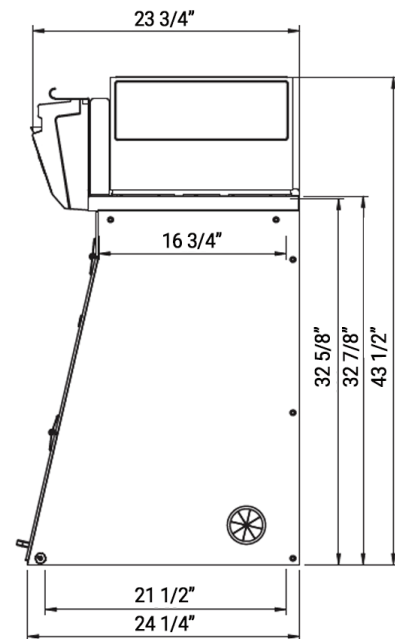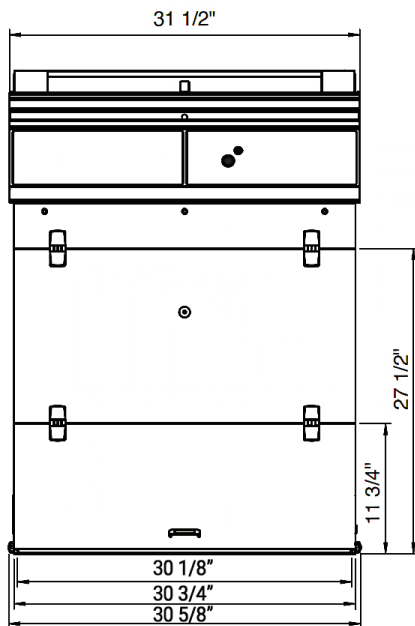
Please add 5 7/8" between the last filter and the ceiling to allow good air recirculation and to replace filters easily.

Work surfaces with built in spill tray
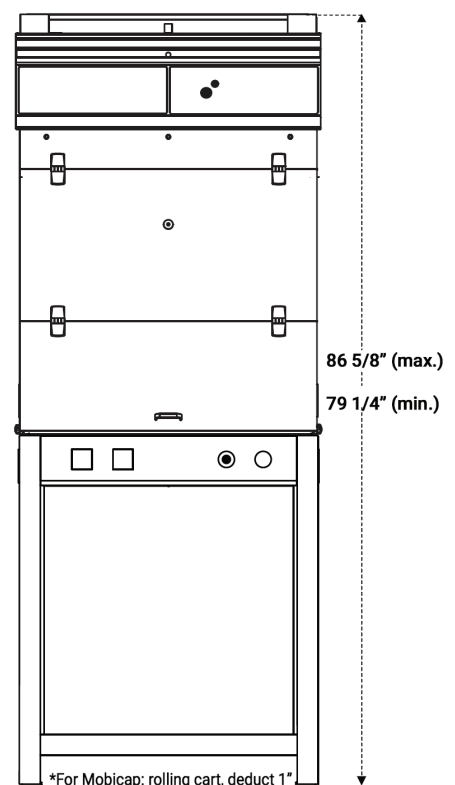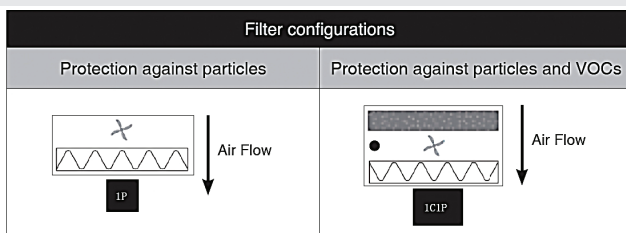
27 3/8"

20 1/8"

23"

30 1/8"

TRESPA®TopLab^PLUS

26 1/2"

19 3/4"

23"

30 1/8"

Stainless steel 304 L

Benchcap: fixed work bench
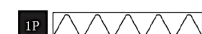
86 5/8" (max.)

79 1/4" (min.)

*For Mobicap: rolling cart, deduct 1"

Designed with you in mind: Our filtration column can be configured for your specific application requirements.

Filter configurations	
Protection against particles	Protection against particles and VOCs
Air Flow — 1P	Air Flow — 1C1P

Filter types:

1P	Particulate filtration for powders
1C	Carbon filtration for gases and vapors

✗ **Ventilation**   ● **Molecode** : Automatic alarm to detect filter breakthrough

Model	1P	1C1P
Safety Standards	NF EN 61010 - CE Marking - EN 1822:1998 (HEPA H14 & ULPA U17 Filters) Air quality within the enclosure: ISO Class 5* EN 14644-1 standard	
External Width	31 5/8	
External Depth	24 1/4"	
External Height	43 1/2" - 50 1/8"	
Internal Width	30 1/8"	
Internal Depth (min./max)	19 3/4" - 21 1/2"	
Internal Height	32 5/8"	
Voltage/Fequency (V-Hz)	100-240 / 50-60	
Air Face Velocity (fpm)	68	
Air Flow (CFM)	188	88
Power Consumption	55	35
Decibel Level (dBA)	59	49
Side and front panels	Chemical resistant acrylic	
Structure	Corrosion resistant electro-galvanized steel coated with anti-acid polymer	
Filtration Module	Polypropylene	

Filtration

Particulate filter (1P)	HEPA H14: This filtration technology traps particles larger than 0.1µm with 99.995% efficiency according to the MPPS method set forth in the EN 1822-1 standard. ULPA U16: This filtration technology traps particles larger then 0.1 µm with 99.999995% efficiency according to the MPPS method set forth in the EN 1822-1 standard.
Carbon Filter	Adding a carbon filter to your enclosure allows protection of your samples from VOCs. AS filter. For organic vapors
Carbon filtration for gases and vapours	Following filtration column configuration (see table above)
Particulate pre-filter	Protect particulate filters from dust contained in the laboratory environment (only for 1P version)

Features

Internal Lighting	LED - 1P 44 - 6000k 800 lux
Connectivity	RJ45 cable connection to view and change workstation settings (cable included)
Anemometer	Monitors a drop in pressure that indicates pre-filter or filter replacement is required
Side panel utility ports	2 per unit - to allow electrical cables and/or fluid lines to engter the enclosure with ease
UV Light	Located on back panel - 15W - wave lenght: 254nm

Accessories

Benches	Rolling cart (Mobicap) or fixed bench (Benchcap)
Shelves	Internal metal sliding shelf (only for Benchap)
Worktop	TRESPA®TopLab^PLUS, Glass or 304L Stainless Steel
Molecode S	Automatic detection of VOC filter breakthrough

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 program

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

eValiQuest   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.