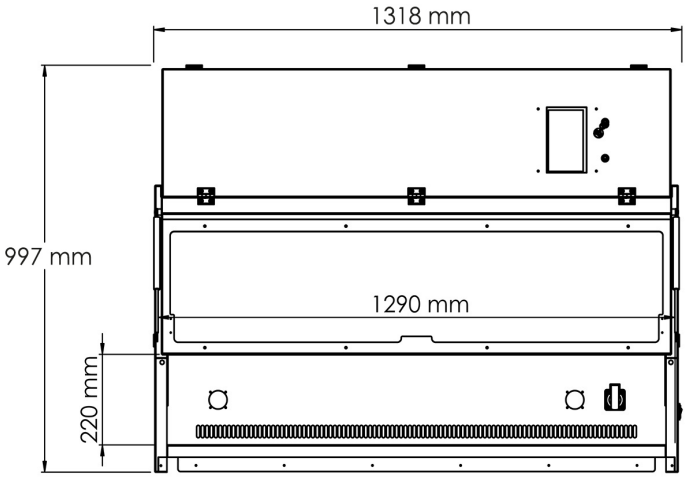
erlab
You can breathe.

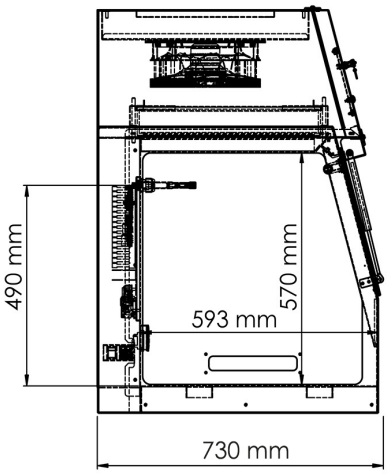
PRODUCT DATASHEET

Loïs

Vertical laminar flow hood

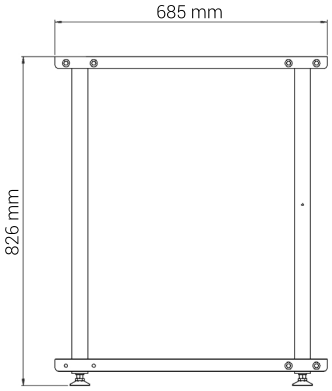
Model Loïs 1200



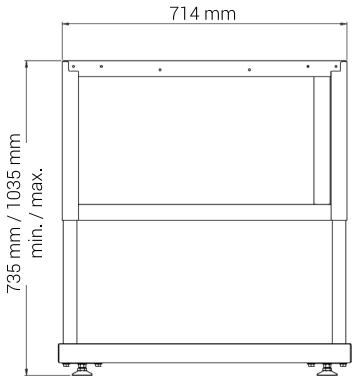


Bases without wheels

Fixed base

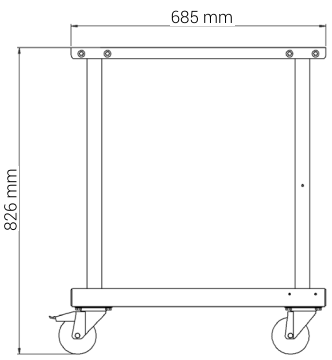


Adjustable base

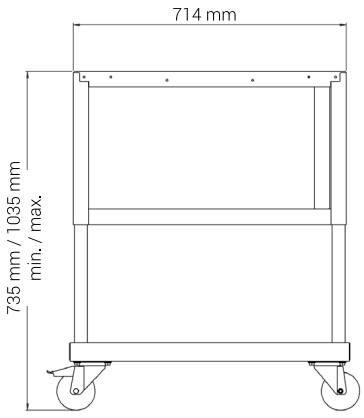


Bases with wheels

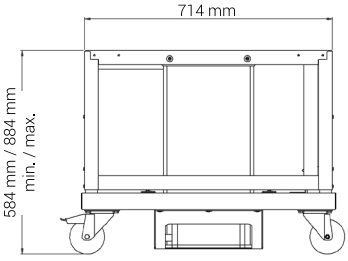
Fixed base



Adjustable base



Electric base



Dimensions - Technical specifications

Model		Loïs 900	Loïs 1200	Loïs 1500	Loïs 1800
External	Width (mm)	1013	1318	1623	1928
	Depth (mm)	730			
	Height (mm)	997			
Internal	Width (mm)	985	1290	1595	1900
	Depth (mm)	593			
	Height (mm)	570			
Standards compliance		Protection provided: ISO Class 5, according to the NF EN ISO 14644 HEPA H14 filters – 99.995% MPPS, according to the EN 1822-1:2019 standard			
Ventilation		EC air flow fan(s)			
Air flow rate – supply		960 m³/h	1250 m³/h	1540 m³/h	1665 m³/h
Air flow velocity		Between 0,25 and 0,50 m/s			
Voltage/Frequency		230 V (± 10%) / 50 Hz			
Max. power consumption		450 W	500 W	650 W	700 W
Brightness		> 750 lux			
Frame		White painted steel			
Side and front panels		Transparent PMMA			
Handling chamber		White painted steel			
Work surface		Brushed 304L stainless steel			
Weight		75 Kg	90 Kg	110 Kg	130 Kg

Equipment

Touch screen	Display of flow velocity, alarms Available applications: calculator, timer connected to the right-hand electrical outlet Hood personalization and operational monitoring: date of installation, date of next service, etc. **Compatible with laboratory gloves**
Electrical outlets	2 electrical outlets with protective covers
Cable ports	2 cable ports on each side of the hood – 7 inlets: ø7mm x3, ø12mm x1, ø9mm x3
Internal lighting	LED lighting >750 lx/4000K – Brightness adjustable via touch screen
Anemometer	Indicator – workspace air velocity alarm Flow control to automatically compensate for clogging of the air flow filter

Options

Fixed base, with or without castors	White painted steel Front wheels fitted with brakes
Adjustable base, with or without wheels	White painted steel Working positions spaced 2.5 cm apart can be set at installation Front wheels fitted with brakes
Electric base, with wheels	White painted steel Maximum travel distance of 35 cm – 3 saveable working positions Front wheels fitted with brakes
Electrical outlet	2 additional electrical outlets (or max. 4)
Gas, vacuum tap	Fitted to one side of the workspace
UV decontamination	Cycle time programmable via touch screen Display of total UV decontamination time for replacement of used tubes
Front closing panel stored under the work surface	Transparent PMMA panel allowing the workstation to be obstructed during a UV cycle

Checks

Standard qualification at installation	Vertical flow mapping Particle counting Alarm checks Mechanical checks Electrical checks	
IQ/OQ qualification at installation	IQ – Installation qualification: Document verification Checking components and compliance with specifications Checking the touch screen Checking electrical installation Management of non-compliances	OQ – Operational qualification: Tests of commands, signals and alarms Checking flow velocity in the workspace Checking clean air class Air flow absolute filter integrity

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.

Today, Erlab is expanding its offer. The company designs, manufactures and markets protective equipment against the risks of biological contamination, mainly in the fields of health, research, industry, etc...

1 Standards

Erlab's biological devices comply strictly with current standards.

NF EN 12469:2000	Biotechnology - Performance criteria for microbiological safety cabinets
NF EN ISO 14644-1:2015	Cleanrooms and associated controlled environments - Part 1: classification of particulate air cleanliness
NF EN 1822-1:2019	High-efficiency air filters (HEPA and ULPA) - Part 1: Classification, performance testing and marking
ISO 10648-2 :1994	Containment hoods. Part 2: Classification according to leak tightness and associated inspection methods

2 R&D department

Erlab and its engineers have acquired in-depth knowledge of products, biomedical constraints and applicable standards.

Erlab is able to develop a range of products in line with market expectations and offer customised solutions that are truly tailored to the needs of laboratories.

3 Our Expertise

Erlab offers customised solutions for all non-standard industrial applications. Its technical expertise enables it to meet all protection requirements, including the most complex, particularly in the field of isotechnology.

4 Our Technology

Touchscreen	For easy control of your appliances!
Twist & Clean» device	For easy cleaning of the front glass of the PSM Solis!
H2O2 bio-decontamination	For effective decontamination of the PSM Solis work volume!
Inverter	To keep the PSM running in the event of a power cut, in complete safety!
Voice control	For easy operation of the PSM Solis's electric front window!

5 The maintenance

Erlab can offer you a preventive and/or corrective maintenance contract.

Erlab's technicians will carry out maintenance on your equipment.

The aim is to check the general condition of the equipment and, above all, to check the operating parameters, which guarantee the effectiveness of the protection.

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