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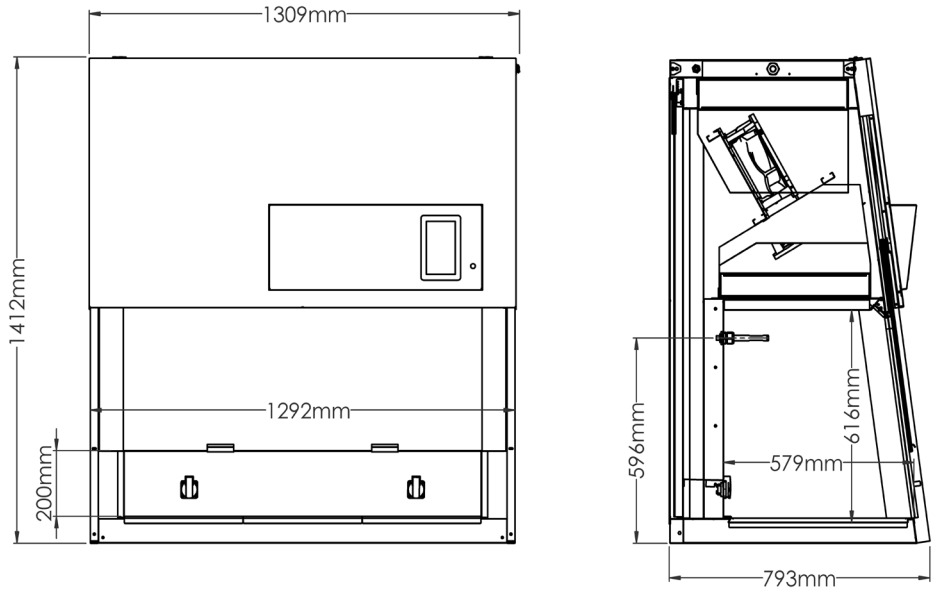
Product datasheet

Solis Classic

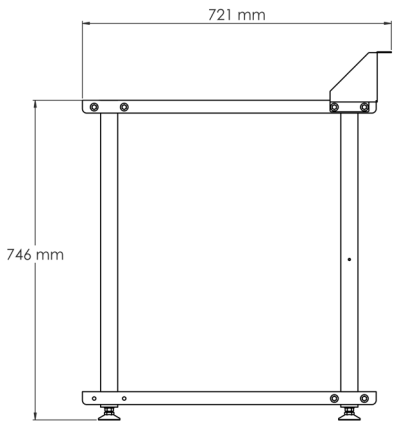
Class II microbiological safety cabinet

Model Solis Classic 1200

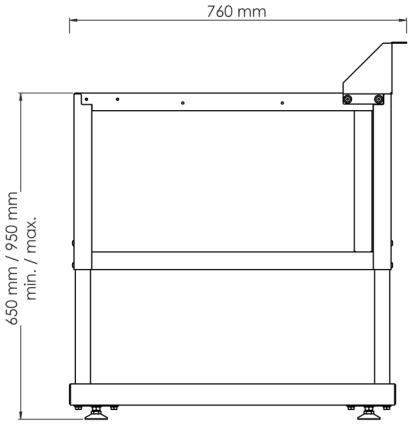


Stands without castors

Fixed stand

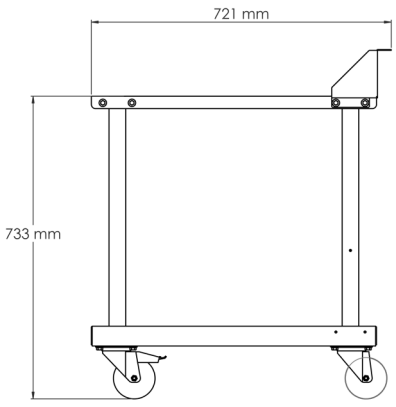


Adjustable stand

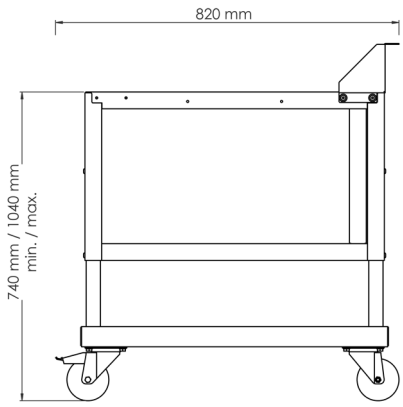


Stands with castors

Fixed stand



Adjustable stand



Dimensions

Model		Solis Classic 1200
External	Width (mm)	1,309
	Depth (mm)	793
	Height (mm)	1,412
	Please note that dimensions may vary depending on configuration (activated carbon filter or HEPA filter for extraction and/or indirect extraction thimble)	
Internal	Width (mm)	1,292
	Depth (mm)	579
	Height (mm)	616
Usable workspace	m^3	0,46
Work surface	Width (mm)	1,083
	Depth (mm)	495
Window opening	Height (mm)	200

Technical specifications

Model	Solis Classic 1200
Compliance	User protection: NF EN ISO 12469-2000 Handling protection: Class ISO 5, according to standard NF EN ISO 14644-1:2015 HEPA H14 filters - 99,995% MPPS, according to standard EN 1822-1:2019
Fans	Two continuous flow fans type EC: downflow and extraction airflow
Downflow	1000 m^3/h
Extraction airflow	> 320 m^3/h
Air barrier velocity	≥ 0,40 m/s
Air velocity within the work zone	Between 0,25 and 0,50 m/s
Voltage / Frequency	230 V (± 10%) / 50 Hz
Electrical data - power in standby mode / work mode (excluding electrical outlets)	85 / 170 W
Electrical data - maximum power (including electrical outlets)	2,300 W
Structural material	White polyester powder coated steel body
Front window	Laminated glass (provides UV protection)
Handling chamber	White polyester powder coated steel body
Work surface	304L brushed stainless steel
Weight	160 kg

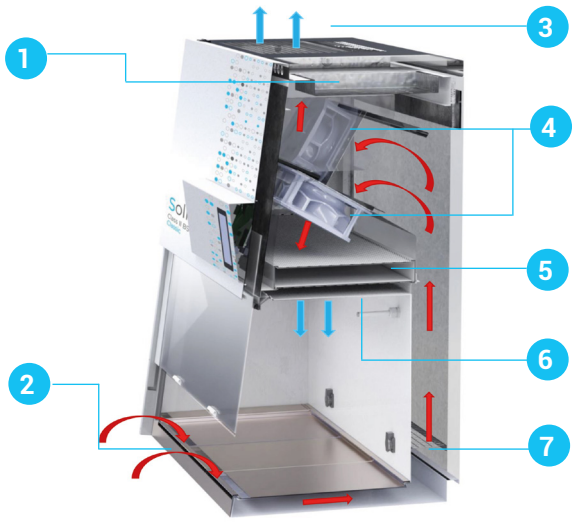
Equipments

Front window	Manually operated sliding window, user friendly 10° inclined window Tilting front window for easy cleaning/decontamination
Work surface	Monobloc or segmented (optional) Detachable to allow full access
Touch screen	**Airflow velocity display in m/sec, alarms** Available applications: calculator, timer Personalisation and monitoring of operation of the BSC: installation date, date for the next check, etc Touch screen campatible with lab gloves
Internal lighting	LED light > 750 Lux / 4000k / Adjustable via the touch screen
Anemometer	Real time air flow velocity monitoring
Electrical outlets	2 electrical outlets, with protective cover
Suction protection grill	Prevents elements being sucked into the ventilation system

Operating principles

The class II microbiological safety cabinets Solis Classic are designed to protect handling, the operator and the environment.

A laminar airflow is blown through the handling chamber, protecting the samples from the risk of external and cross contamination. The air barrier on the front of the device protects the user against all contamination risks arising from handling pathogens.



1	HEPA H14 extraction filter
2	Air barrier
3	Clean air extraction (25%)
4	Two fans
5	HEPA H14 downflow filter
6	Clean filtered laminar air flow
7	Dirty air flow directed to the HEPA H14 filters

Options

Fixed stand, with or without castors	White polyester powder coated The stand is equipped with castors. The 2 front ones feature a brake
Adjustable stand, with or without castors	White polyester powder coated Adjustable upon installation: working positions spaced 2.5 cm apart The stand is equipped with castors. The 2 front ones feature a brake
Segmented work surface	3 segments
UV decontamination	UV cycle time can be can be programmed via touch screen The application displays the overall UV working time for changing used tubes
Electrical outlets	Up to 2 additional electrical outlets (max. 4)
Vacuum tap, Gas tap	Installed on one side of the workspace
Cable passages	Easy cable pass through to connect your equipment Seven inputs: ø7mm x3, ø12mm x1, ø9mm x3
Armrests	In brushed 304L stainless steel To be added to the front air aspiration grid
Footrest	Footrest of stainless steel 304L (depth can be adjusted manually)
Inverter	This device serves to maintain the operation of the safety cabinet for 10 minutes in the event of a power cut This allows you to secure your manipulations before the device stops permanently Increases the height of the BSC by 84 mm

Extended range

BSC with indirect extraction thimble	
Ø 250 mm Increases the height of: 150 mm	
BSC with activate carbon filter at the exhaust	BSC with double HEPA filter at the exhaust
Biological and chemical protection The active carbon filter is located downstream the exhaust HEPA filter Increases the height of: 225 mm	**Reinforced biological protection: manipulation of mycobacterium (BK)** The additional HEPA filter is installed downstream the exhaust HEPA filter Increases the height of: 225 mm
With additional indirect extraction thimble	
Ø 250 mm Increases the height of: 375 mm	
Suction rate: >420 m^3	
Check the height of the room to ensure that the BSC can be installed.	

Qualification and testing

Standard qualification tests	Airflow barrier is checked, using a smoke generator Airflow mapping in the work space Particle count in the work space Checking of the alarms Mechanical inspection	
Filters integrity test (Emery test)	HEPA H14 filters - eliminates 99,995% of MPPS, in compliance with the EN 1822-1:2019 standard	
Optional IQ OQ qualification	IQ - Installation qualification Documentation inspection Inspection of components and compliance with specifications Inspection of touch screen Inspection of electrical installation Management of non-compliance issues	OQ - Operational qualification Commands, signals and alarms tests Inspection of airflow velocity in the work space Inspection of dust control levels User protection: smoke test Integrity of the absolute filter during air supply Integrity of the absolute extraction filter

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.

EN 12469-2000	Guarantee protection for the operator.
EN ISO 14644-1:2015	Guarantee protection of handling
	Guarantees the classification of particle cleanliness in dust-controlled areas
EN 1822-1:2019	Guarantee an H14 HEPA filtration, 99,995% MPPS
EN 10648-2:1944	Guarantees the tightness of containment vessel

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 BSC Solis!
H2O2 bio-decontamination	For effective decontamination of the BSC Solis work volume!
Inverter	To keep the BSC running in the event of a power cut, in complete safety!
Voice control	For easy operation of the BSC 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.

Solis Classic 8293 - 27/03/2025 - Erlab France - Technical data are not contractual. Erlab reserves the right to modify the present document without prior notice.

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