

Product datasheet

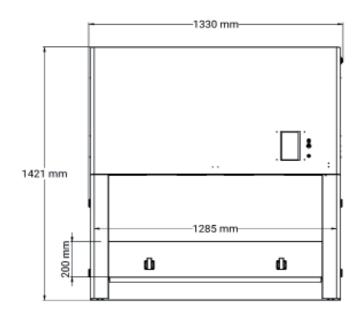
Solis Premium

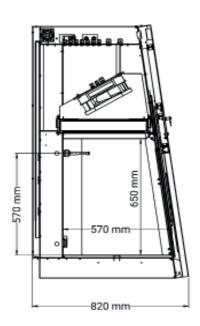
Class II microbiological safety cabinet GMP



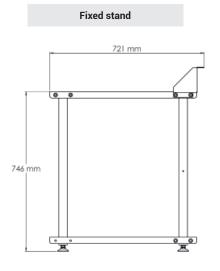


Model Solis Premium 1200



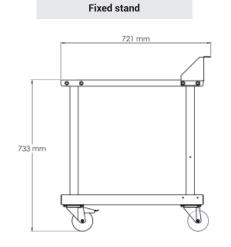


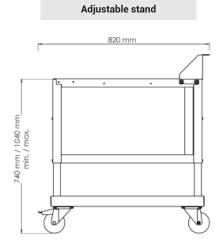
Stands without castors

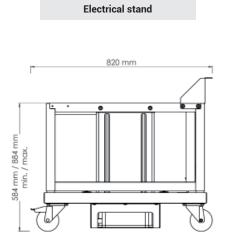


Adjustable stand 760 mm 760 mm

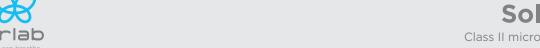
Stands with castors











Dimensions

Model		Solis Premium 900	Solis Premium 1200	Solis Premium 1500	Solis Premium 1800
	Width (mm)	1025	1330	1635	1940
External (side panel closed)	Depth (mm)	820			
(orac parier orocca)	Height (mm)	1421			
	Width (mm)	1215	1520	1825	2130
	Depth (mm)	780			
External (side panel open)	Height (mm)	1421			
(orac paner open)	Please note that dimensions may vary depending on configuration (activated carbon or HEPA filter for extraction, inverter, hydrogen peroxide bio-decontamination system for the workspace)				
	Width (mm)	980	1285	1590	1895
Internal	Depth (mm)	570			
	Height (mm)	650			
Usable workspace	m³	0,22	0,31	0,40	0,49
Work surface	Width (mm)	800	1105	1410	1715
WORK SUFFACE	Depth (mm)	440			
Window opening	Height (mm)	200			

Technical specifications

Model	Solis Premium 900	Solis Premium 1200	Solis Premium 1500	Solis Premium 1800
Conforms with the standard	Protection of the handler: NF EN ISO 12469-2000 Protection of the product: Class ISO 5, according to standard NF EN ISO 14644-1:2015 HEPA H14 filters - eliminates 99,995% of MPPS, in compliance with the EN 1822-1:2019 standard GMP (Good Manufacturing Practice)			
Fans	Double ventilation system: supply and exhaust			
Air flow - supply	770 m³/h	1000 m³/h	1240 m³/h	1480 m³/h
Air flow - exhaust	> 240 m³/h	> 320 m³/h	> 410 m³/h	> 500 m³/h
Incoming flow velocity	≥ 0,40 m/s			
Outgoing flow velocity	Between 0,36 and 0,54 m/s (according to GMP standard)			
Voltage / Frequency	230 V (± 10%) / 50 Hz			
Electrical data - power in standby mode / work mode (excluding electrical outlets)	80 / 160 W	85 / 170 W	105 / 300 W	110 / 310 W
Electrical data - maximum power	Right hand controlled outlet - 460 W (2A)			
(including electrical outlets)	2,300 W			
Structural material	Painted steel outer body - white			
Sides and front window	Laminated glass (provides UV protection)			
Handling chamber - workspace	316L brushed stainless steel			
Weight	200 Kg	225 Kg	260 Kg	290 Kg

Equipments

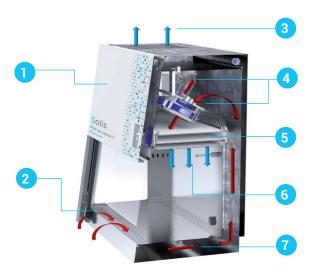
Front window	Electric, controlled via the screen Window with a 10° tilt	
Work surface	Monobloc or segmented (optional) Detachable to allow full access to the tank	
Touch screen	Flow velocity display in m/sec, alarms Available applications: calculator, timer to control the electrical outlet, MP3 player Personalisation and monitoring of operation of the MSC: installation date, date for the next check, etc Touch screen campatible with lab gloves	
Internal lighting	LED lighting > 750 Lux / 4000k / Adjustable via the screen	
Anemometer	Indicator - Air velocity alarm in the workspace	
Electrical outlets	2 electrical outlets, with protective cover	
Suction protection grill	316L stainless steel - Possibility to install a pre-filter	
Webcam	Installed in the device allows you to record videos of your handling, USB port for recording	
Voice control	To control the façade glass, UV decontamination, and the use of the webcam	



Operating principles

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

The chamber protects the manipulated products from external particles to prevent any contamination. The front air barrier protects the user against inherent biological risks of manipulating pathogenic agents.



1	HEPA H14 extraction filter
2	Air barrier
3	Clean air extraction (25%)
4	Two fans
5	HEPA H14 air flow filter
6	Clean filtered laminar air flow
7	Recapture of air contaminated by handling for filtration

Cleaning the window - Solis Twist & Clean©

When the cleaning of a Safety Cabinet is not correctly achieved, it may lead to microbial or bacterial growth, which may contaminate the manipulations or badly affect the analysis.

The Solis Premium is equipped with a unique window tilting feature so you can easily clean the inside of the front window.

Patented

Ergonomics

Security

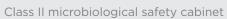
Simplicity



Options

Fixed stand, with or without castors	Polyester powder coating, white The stand is equipped with castors	
Adjustable stand, with or without castors	Polyester powder coating, white Adjustable to installation: working positions spaced 2.5 cm apart The stand is equipped with castors	
Electrical stand with castors	Polyester powder coating, white The maximum stroke is 35 cm, 3 work positions may be programmed The stand is equipped with castors	
Work surface segmented 3 segments for Solis 900, 1200 and 1500 - 5 segments for Solis 1800		
UV decontamination	The duration of the UV cycle can be can be programmed via screen touch The application displays the overall UV working time for changing used tubes	
Hydrogen peroxide bio-decontamination system for the workspace	An integrated hydrogen peroxide decontamination system, which ensures effective biocontamination control. Increases the width of the MSC by 85 mm	
	Attention: hydrogen peroxide (max. 15% content) not supplied.	







Options

Electrical outlets	Up to 2 additional electrical outlets (max. 4)	
Pedals to control the front window	To raise/lower the front window simply by pressing with your foot	
Vacuum tap, Gas tap Installed on one side of the workspace		
Cable passages	In two parts to allow easy installation of cables equipped with a large connector Seven inputs: ø8 mm x6, ø12 mm x1	
Armrests	In brushed 304L stainless steel	
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 MSC by 84 mm	
Front window: 2 working positions	20 cm front opening: working position under MSC 30 cm front opening: facilitates the entry of bulky material inside the handling chamber	
Binocular bellows integrated in front glass	Soft PVC Adaptable to all types of microscopes If UV germicidal decontamination is used, a cover glass is integrated into the front panel	

Extended range

MSC with activate carbon filter at the exhaust		MSC with double HEPA filter at the exhaust		
Biological and chemical protection The active carbon filter is located downstream the exhaust HEPA filter		Reinforced biological protection: manipulation of mycobacterium (BK) The additional HEPA filter is installed downstream the exhaust HEPA filter		
F	Please note that these 2 configurations in	increase the height of the MSC by 225 mm.		
With an indirect extraction bonnet Ø 250 mm, the height of the MSC increases by 375 mm.				
Suction rate - with indirect extraction bonnet				
Solis 900	Solis 1200	Solis 1500	Solis 1800	
>340 m³	>420 m³	>510 m³	>600 m³	
Check the height	Check the height of the room to ensure that the MSC with activated carbon filtration at the exhaust, can be installed.			
MSC with 3 HEPA filter unit		MSC with active carbon f	ilter under the work tray	
Reinforced biological protection Filtre HEPA H14 dans la reprise d'air, sous le plan de travail		Biological and strong chemical protection The active carbon filter is located upstream the exhaust HEPA filter, to avoid any recirculation of the aerosols		
Please note that a MSC with additional filtration under the worktop must include an adjustable base with castors.				
Solis MSC can be fitted with an optional electric base.				

Contrôles

Front air barrier inspection Flow mapping in the work space Particle count in the work space Alarm inspection Mechanical inspection		n the work space n the work space Ispection	
Filters integrity test	HEPA H14 filters - eliminates 99,995% of MPPS, in compliance with the EN 1822-1:2019 standard		
	IQ - Installation checks:	OQ - Operational checks:	
Installation and operation checks (IQ / OQ)	Document inspection Inspection of components and compliance with specifications Inspection of touch screen Inspection of electrical installation Management of non-compliance issues	Commands, signals and alarms tests Inspection of flow 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	



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...

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 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.

France +33 (0) 2 32 09 55 80 ventes@erlab.ne

Germany 0800 330 47 31 export.north@erlab.net United Kingdom +44 (0) 1722 341 940 export.north@erlab.net **taly** 39 (0) 2 89 00 771 export.south@erlab Spain +34 936 732 474 export.south@erlab.n