



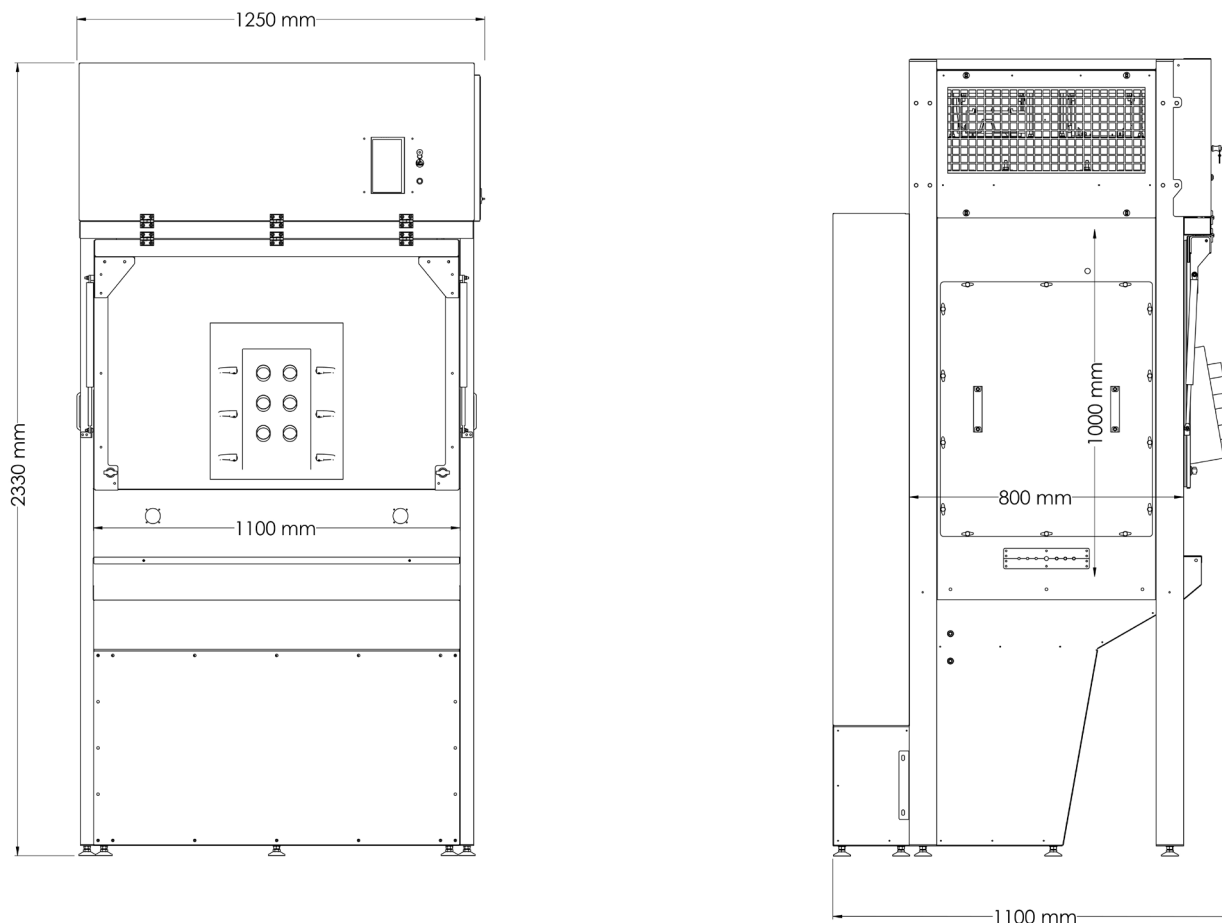
Product datasheet

Bin.Box

Class II safety cabinet for microscope



Model Bin.Box 11-08



Dimensions

Model		Bin.Box 11-08	Bin.Box 14-08	Bin.Box 17-08	Bin.Box 22-08
External	Width (mm)	1250	1550	1850	2350
	Depth (mm)	1100			
	Height (mm)	2330			
Internal	Width (mm)	1100	1400	1700	2200
	Depth (mm)	800			
	Height (mm)	1000			
	Other sizes on request				
Work surface	Width (mm)	900	1200	1500	2000
	Depth (mm)	580			
Window opening	Height (mm)	200			

Technical specifications

Model	Bin.Box 11-08	Bin.Box 14-08	Bin.Box 17-08	Bin.Box 22-08
This Bin.Box range is dedicated to micro-injection, micro-surgery, IVF, or micro technology applications. The user can enjoy an absolute protection against biological risks. Furthermore, cells or rodents studied under the microscope are also fully protected against external contamination.				
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 Prefilters located upstream the downflow HEPA filter			
Ventilation	Downflow / Exhaust Full extraction for maximum operator safety			
Downflow	1267 m ³ /h	1613 m ³ /h	1958 m ³ /h	2534 m ³ /h
Extraction airflow	1774 m ³ /h	2258 m ³ /h	2742 m ³ /h	3548 m ³ /h

Technical specifications

Model	Bin.Box 11-08	Bin.Box 14-08	Bin.Box 17-08	Bin.Box 22-08
Air barrier velocity	0,40 m/s			
Voltage / Frequency	230 V / 50 Hz			
Electrical data - maximum power (including electrical outlets)	1800 W	2000 W	2200 W	2500 W
Structural material	White painted steel			
Sides and front window	Transparent PMMA			
Work surface	Aluminium sheet			
Weight	260 kg	360 kg	450 kg	550 kg

Equipment

Front window	Designed to provide a comfortable and natural working position to the user. The eyepieces of the microscope pass through the front window, via a flexible tight port, ensuring an absolute protection to the user. Can be lift up to enable the complete cleaning and surface decontamination of the internal volume.
Work surface	Maximum load 750 kg
Marble with anti-vibration blocks	The work tray features a marble with anti-vibration blocks, to handle the loupe or microscope Dimensions: 500 x 350 mm
Touch screen	Display of flow velocity, alarms Enclosure personalization and operational monitoring: date of installation, date of next service, etc. Compatible with laboratory gloves
Transparent side panels	Can be easily removed to gain access to the microscope or loupe, for maintenance purposes
Internal lighting	LED light > 750 Lux / 4000k / Adjustable via the touch screen
Anemometer	Real time air flow velocity monitoring Flow control to automatically compensate for clogging of the air flow filter
Electrical outlet	1 electrical outlet with protective cover
Cable passages	Easy cable pass through to connect your equipment Seven inputs: ø7mm x3, ø12mm x1, ø9mm x3

Options

Electrical outlet	Up to 3 additional electrical outlets (max. 4)
Remote-controlled socket outlet	To switch on an electrical appliance from outside the hood
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
Front closure panel	The front panel is used to close the Bin.Box when the unit is left unused, or during the UV irradiation cycle
Articulated arm	Can be installed either on the front right or left foot of the unit
Double poste	For the models Bin.Box 17-08 et 22-08, possibility of integrating a second connecting bellows on the front window
Activated carbon filter	Additional activated carbon filter can be installed at the exhaust of the unit to protect the users and environment against chemical aerosols in small concentration used during the manipulation. Allow + 250 mm to the standard dimensions.

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	<p>IQ - Installation qualification</p> <p>Documentation inspection Inspection of components and compliance with specifications Inspection of touch screen Inspection of electrical installation Management of non-compliance issues</p>	<p>OQ - Operational qualification</p> <p>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</p>



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 isototechnology.

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.

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