



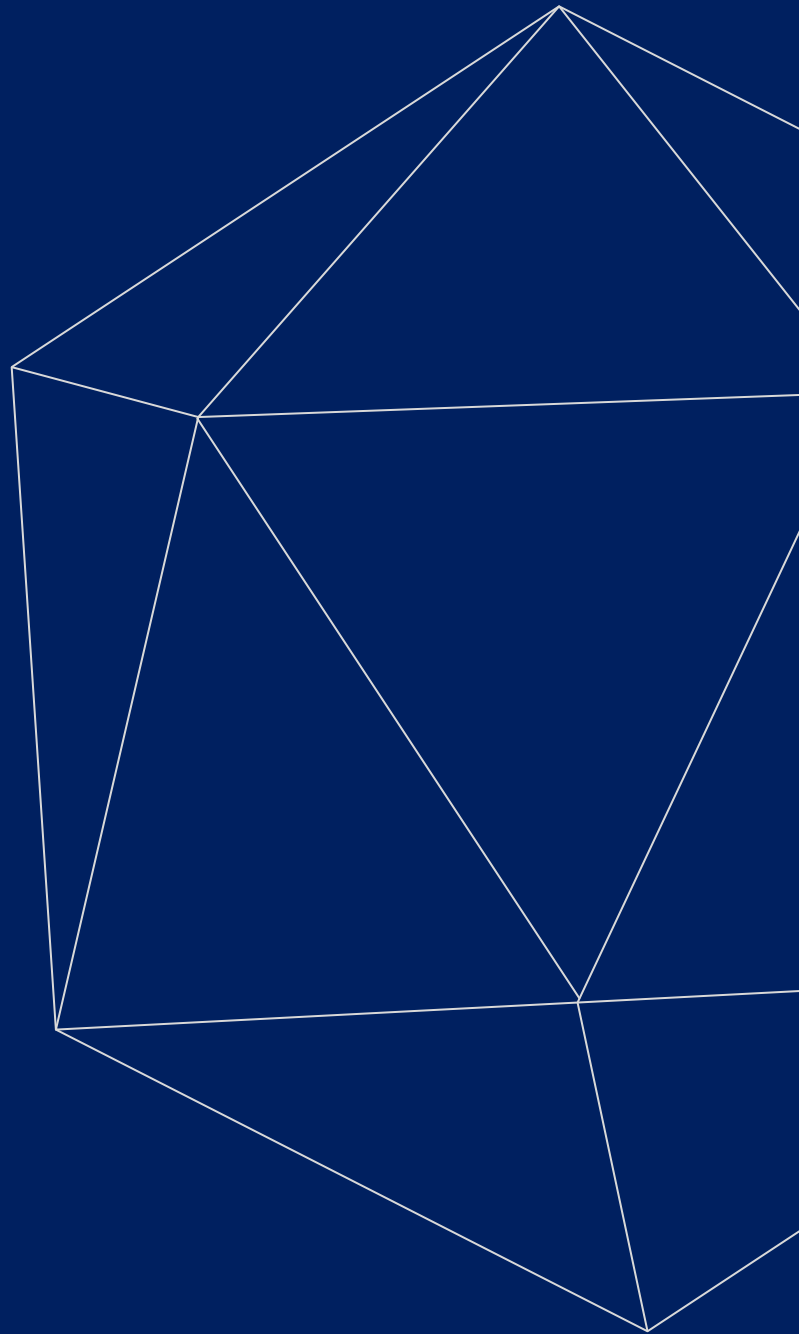
# LABORATORY LINES

BIOLOGICAL SAFETY  
CABINETS



## Kalstein®

A different accompaniment, at your service





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OUR SERVICES

## Benefits and Support

In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



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Enjoy of personalized advice for the correct preventive and corrective maintenance of your equipment, thanks to Kalstein's manuals and articles, special catalogues and video tutorials.



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With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.



## Biological Safety Cabinet Model YR05271A



### Product Introduction

1. Equipped with German EBM high air flow and low energy consumption fan, based on airflow mechanics principle, arc-shaped large-diameter inlet design to reduce turbulence generated, to ensure low noise operation of the system.
2. Reasonable duct design, optimization of the plenum tank, with the design of micro-shaped mesh layer outflow wind deflector, non-convex, no dead ends, to ensure uniformity and stability of the airflow.
3. Equipped with long life exhaust HEPA and down flow ULPA, >99.995% efficient at 0.12-micron sizes.
4. BIOCASSION series BSC have two types:
5. A2 Type : 70% inner circulation, 30% exhaust.
6. B2 Type : 100% exhaust.
7. Work zone width : 1000mm and 1300mm

### Product Description

Biological safety cabinets is clean equipment in biological experiments, to prevent damage of the experimental operation of poisonous and harmful airborne particles, in order to protect the safety of the operator and the environment in the experiment.

Kalstein bioaction series biological safety cabinet provide reliable security, standard with a HEPA filter to protect product and environment; plenum leak prevention technology, stable inflow speed system, LCD screen, microcomputer control technology, especially for biological contamination of a variety of high-risk experiments;



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## Biological Safety Cabinet Model YR05271A



### SAFELOGIC PLENUM LEAK-PROOF TECHNOLOGY:

1. Around the work zone at the top and side wall plenum design, so that the discharge of polluting gases completely in a plenum environment, work with indoor backplane to a molding design, effective way to avoid the possibility of leakage.
2. Equipped with the accurate pressure sensor to monitor the pressure of the working area, where there is abnormal situation such as breakage of the filter zone of negative pressure seal failure, the system will automatically stop the fan running, and through sound and light alarm prompts the operator, thus avoiding due to leakage caused damage.

### BIOCASION MICROCOMPUTER CONTROLLER SYSTEM:

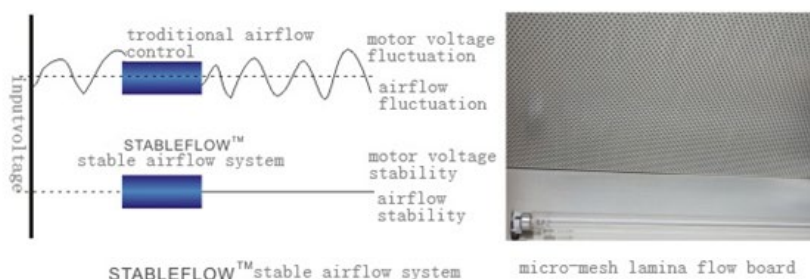
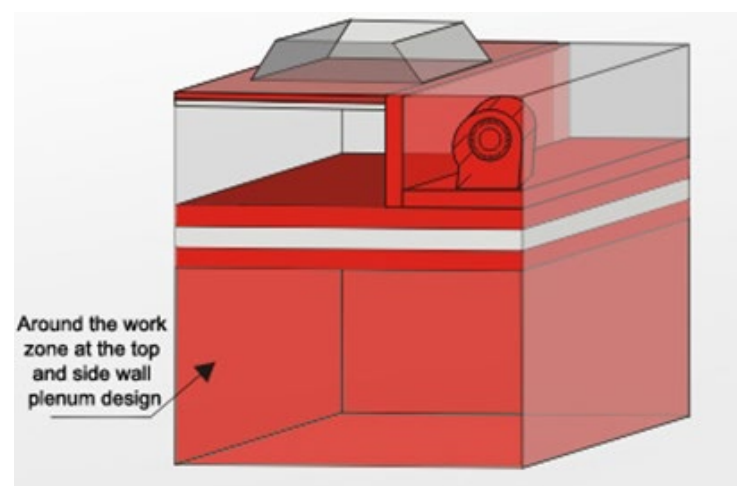
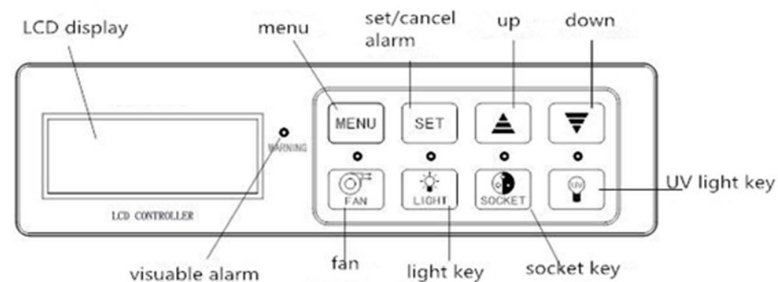
1. The integrated LCD screens. Display inflow/down flow speed, pressure, filter life, failure alarm and other parameter status.
2. The user-friendly design, with sterilization, lighting, interlock function, frond window over high alarm and front window closed then the fan shut down.
3. Fan speed is adjustable according to need to adjust the appropriate amount of fan.

### STABLEFLOW™ STABLE FAN SPEED SYSTEM:

High air flow fan, the system will automatically track and adjust the air volume and pressure, to balance the role of compensation, with the design of micro-shaped mesh layer outflow wind deflector, so that more air flow stability and uniformity.

### EXCELLENT IMPORTED SENSOR:

1. Air Velocity Sensor and Pressure Plenum Sensor
2. Imported air velocity sensors collect data of high precision, the performance of corrosion-resistant, anti-interference ability.
3. Real-time monitoring and control cabinet status.
4. Imported pressure plenum sensor responsive, effective monitoring the pressure of the work zone and plenum.



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## Biological Safety Cabinet Model YR05271A



### ERGONOMICALLY DESIGN

1. Ergonomically angled front. Increase operating comfort, reduce work fatigue.
2. Equipped with splash electrical outlet. The Weight-Balance front window can move up and down freely.
3. INSIDE lighting system to provide the best illumination angle and brightness, reducing visual fatigue.
4. Front windows with explosion-proof, anti-ultraviolet tempered glass, to better protect the safety of the operator

### MODERN MANUFACTURING PROCESSES:

Sheet metal parts use laser cutting and CNC bending technology. Cold-rolled sheets use three line of acidification anti-rust technology. Incubator surface use workmanship of spraying plastics.

### EASY TO CLEAN

1. Working surface with anti-corrosion wear of SUS304 stainless steel plate forming a seamless, leak-proof, easy cleaning use.
2. Under the working surface with the drain valve, easy to clean and emissions.

### CONVENIENT MAINTENANCE

1. Removable combination tripod, easy to transport and move, Stand height adjustable.
2. Eversion design of the front control panel to facilitate the electrical components, maintenance and replacement.
3. In order to make the BSC able to achieve long-term safety requirements, it is recommended that the user to clean or replace the HEPA of the BSC in use for some time.



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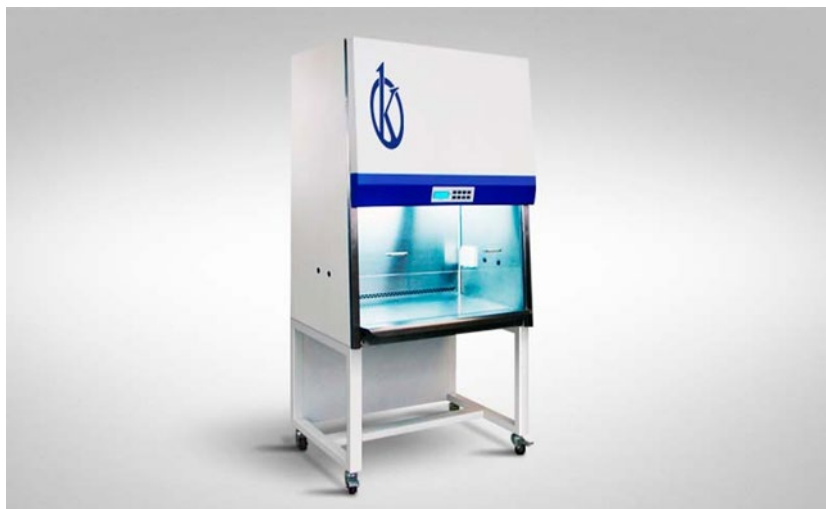
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**Biological Safety Cabinet**  
**Model YR05271A**



**Technical Specifications**

Product Model	YR05271A		
clean rating	International standard ISO14644.1 CLASS 5(US209E,CLASS 100)		
inflow velocity	0.53m/s		
down flow velocity	0.35m/s		
down flow velocity precision	±0.015m/s		
noise level(dB)	≤65		
vibration	≤3μm(X、Y、Z direction)		
HEPA	G series:99.999%		
light intensity(LX)	≥650		
pressure difference range (Pa)	0~500		
operate environment	environment temp.10-30°C,relative humidity under 70%, no obvious vibration and dust		
external dimensions(H*W*D) (mm)	2210×1420×850		
dimension of working zone(H*W*D) (mm)	700×1300×500		
power supply	Single-phase voltage source AC220V/50HZ		
Power(W)	350		
net weight(KG)	210		
gross weight(KG)	235		
package size (H*W*D) (mm)	1780×1500×840		



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**Biological Safety Cabinet**

**Model YR05271A**



**Biological Safety Cabinet Selection**

NSF49,EN12469 standard	
Class I	Ordinary harmless bacteria, microorganisms and viruses do not need special protective measures. Bio safety cabinets are not required for this level.
Class II	Generally pathogenic and known moderately dangerous bacteria, microorganisms and viruses. This level should provide effective protection for operators. It is recommended to use Class II bio safety cabinets. Currently, It can be divided into A2-70% inner circulation, 30% exhaust and B2-100% full exhaust.
Class III	Deadly and potent, but curable bacteria, microorganisms and viruses. We must protect the operators effectively. At this time, it is necessary to use Class II or Class III.
Class IV	For the high-risk and fatal bacteria, viruses and other harmful substances that cannot be cured at present, in addition to the operators having to undergo skilled operation training and strictly grasp the relevant protective measures, they must be equipped with Class III.



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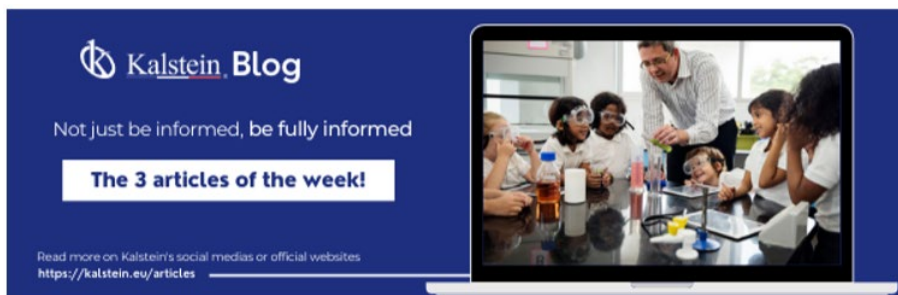


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PARIS - FRANCE  
**HEADQUARTER**  
2 Rue Jean Lantier  
75001 Paris - France

**Tlf:** +33 (0) 01 78 95 87 89  
**Cel:** +33 (0) 6 80 76 07 10  
[sales@kalstein.eu](mailto:sales@kalstein.eu)

<https://kalstein.eu/>  
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**1**  
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**How does the climate affect your microscope?**

microscope is an instrument that allows observing and measuring objects that are too small to be seen with the naked eye. This is achieved through a complex system of lenses and mirrors, which form

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**Article of the week:**  
How does the climate affect your microscope?

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**2**  
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**What is the importance of the laboratory refrigerator?**

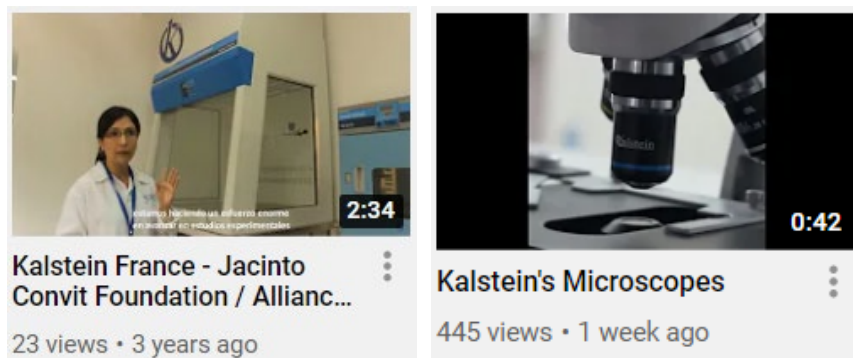
refrigerator is a device that is one of the most common pieces of equipment used in laboratories. It is a controlled environment (refrigerated space), various fluids and substances

**Kalstein Blog**

**Article of the week:**  
What is the importance of the laboratory refrigerator?

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