



LABORATORY LINES

CABINET



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A different accompaniment, at your service





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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.



KALSTEIN® Cabinet Biological Safety YR05270



Product Description

A biosafety booth, biosafety booth or microbiological safety booth is a closed and ventilated enclosure or workspace for safe working with materials contaminated with pathogens and is part of the laboratory equipment of many biomedical units

CLEANFLOW™ Clean air technology

- ✓ 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.
- ✓ 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.
- ✓ Equipped with long life exhaust HEAP and down flow ULPA, >99.995% efficient at 0.12 micron sizes.
- ✓ BIOCASION series BSC have two types
B2 Type : 100% exhaust.
Work zone width : 1000mm and 1300mm
- ✓ SAFELOGIC™ Plenum leak-proof technology
- ✓ 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.
- ✓ 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
- ✓ The integrated LCD screen. Display inflow/down flow speed, pressure, filter life, failure alarm and other parameter status.
- ✓ The user-friendly design, with sterilization, lighting, interlock function, frond window over high alarm and front window closed then the fan shut down.
- ✓ 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.



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KALSTEIN® Cabinet Biological Safety YR05270



Excellent imported sensor: Air Velocity Sensor and Pressure Plenum Sensor

- ✓ Imported air velocity sensors collect data of high precision, the performance of corrosion-resistant, anti-interference ability.
- ✓ Real-time monitoring and control cabinet status.
- ✓ Imported pressure plenum sensor responsive, effective monitoring the pressure of the work zone and plenum.

Ergonomically design

- ✓ Ergonomically angled front. Increase operating comfort, reduce work fatigue.
- ✓ Equipped with splash electrical outlet. The Weight-Balance front window can move up and down freely.
- ✓ INSIDE lighting system to provide the best illumination angle and brightness, reducing visual fatigue.
- ✓ 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.

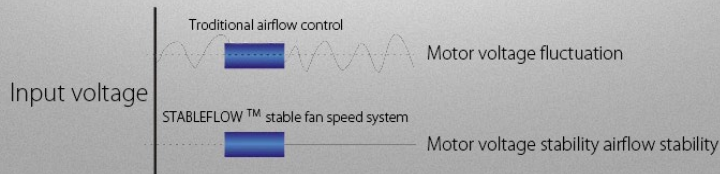
Easy to clean

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

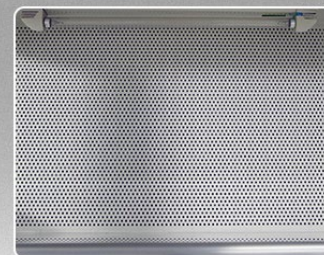
Convenient Maintenance

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

STABLEFLOW™ stable fan speed system



Mesh design wind board



⊕ Air velocity sensor



⊕ Pressure difference sensor



⊕ Ergonomic design structure

⊕ Easy maintenance



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KALSTEIN® Cabinet Biological Safety YR05270



A hood in laboratories are an effective means of capturing flammable, irritant, corrosive, carcinogenic vapors, etc. to prevent personnel exposures and avoid their dissemination in the laboratory atmosphere. When the hatch is down, the cab is also a physical barrier that protects the operator from hazards such as splashes, aerosols, fires, and minor explosions.

Fume hoods are a type of ventilation system with the primary function of protecting the user against exposure to chemical vapors, gases, dust, and aerosols. They function as physical barriers between reagents and the laboratory, offering protection against inhalations, spills of hazardous substances and fire.



Technical Parameters

Model	YR05270-1	YR05271-1
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	Efficiency 99.995%	
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)	2120×1035×740	2120×1340×740
Dimension of Working Zone (H*W*D) (mm)	670×965×560	670×1260×560
Power Supply		
Power(W)	300	350
Net Weight (KG)	175	210
Gross Weight (KG)	195	235
Package Size (H*W*D) (mm)	1710×1205×910	1710×1510×910



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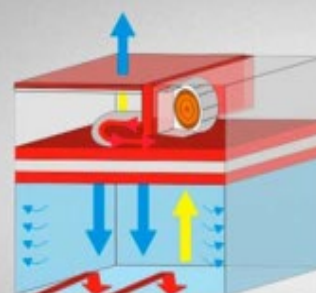
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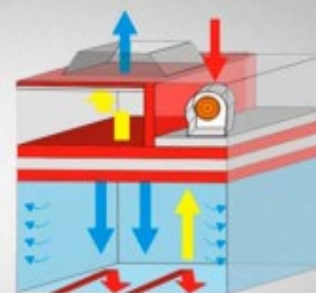
CLEANFLOW™ clean air technology



Low energy consumption motor

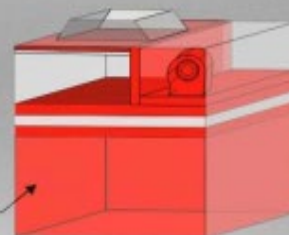


YR05270 // YR05271 (70% inner circulating, 30% discharge)



YR05270-1 // YR05271-1 (100% Discharge)

SAFELOGIC™ plenum leak-proof technology



Chamber negative pressure

BIOCASION™ microcomputer control technology

LCD large screen
Display working state



Fan switch
Illumination switch
Sterilization switch
Airflow controller



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