

## BIOCASION-A2/B2 Biological Safety Cabinet

Optimized safety guard equipment

A2/B2 SERIES

A2-1000G (D) B2-1000G (D)

A2-1300G (D) B2-1300G (D)



# Gather all the essence of Kenton technology Together with researchers.

Perfect products from KENTON-- Ergonomic appearance, reasonable airflow design, multi-layer filtration system with a sophisticated microprocessor control and reliable components. Offer premium operator product and environmental protection with advanced technology.

## A2/B2 Biological Safety Cabinet

### Technical parameters

Product Model	BIOCASION-A2		BIOCASION-B2	
	A2-1000G(D)	A2-1300G(D)	B2-1000G(D)	B2-1300G(D)
clean rating	ISO14644.1 CLASS 5(US209E,CLASS 100)			
inflow velocity	0.53m/s		0.56m/s	
down flow velocity	0.35m/s			
down flow velocity precision	$\pm 0.015\text{m/s}$			
noise level(dB)	$\leq 65$			
vibration	$\leq 3 \mu\text{m}$ (X、Y、Z direction)			
HEPA	D series HEPA 99.99%(G series:ULPA 99.995%)			
light intensity(LX)	$\geq 650$			
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)	2060×1130×770	2060×1430×770	2220×1190×755	2210×1420×850
dimension of working zone(H*W*D) (mm)	660×960×540	660×1260×540	650×945×600	650×1245×600
power supply	Single-phase voltage source AC220V/50HZ			
Power(W)	300	350	300	350
net weight(KG)	175	210	175	210
gross weight(KG)	195	235	195	235
package size (H*W*D) (mm)	1720×1200×1110	1780×1500×840	1780×1200×840	1780×1500×840

# Optional Product Accessories

1. exhaust-pipe and fan (no installation accessories)

2. air-interface, water interface and switch valve

All technical data were tested under no-load conditions, ambient temperature 25°C, relative humidity 50% RH, voltage fluctuation  $\pm 10\%$ , and no obvious vibration and dust around. KENTON may change the above technical indicators at any time, the appearance of the product will deviate due to photography or printing and other reasons, please understand, and reserve the final right of interpretation.

## Relative international standards:

Product execution standards: NSF49, EN12469

Electrical safety standards: IEC 61010-1, UL 61010-1, EN 61010-1

## A2/B2 Biological Safety Cabinet

1. Biosafety 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.

2. Standard with a HEPA filter to protect the products and the environment, SAFELOGIC plenum leak prevention technology, innovation stable inflow speed system, with BIOCASION LCD screen microcomputer control technology, especially for biological contamination of a variety of high-risk experiments.

3. Meet the domestic YY0569-2005 BSC requirements and NSF / ANSI 49-2008, the European Union EN12469: 2000 BSC standard, to provide users with a satisfactory safety assurance.

4. IQ, OQ, PQ and other related certification services.

5. CE certification. Three-year warranty period.

# 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.

## CLEANFLOW Clean air technology

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 HEAP and down flow ULPA>99.995% efficient at 0.12 micron sizes.
4. BIOCASION series BSC have two types:

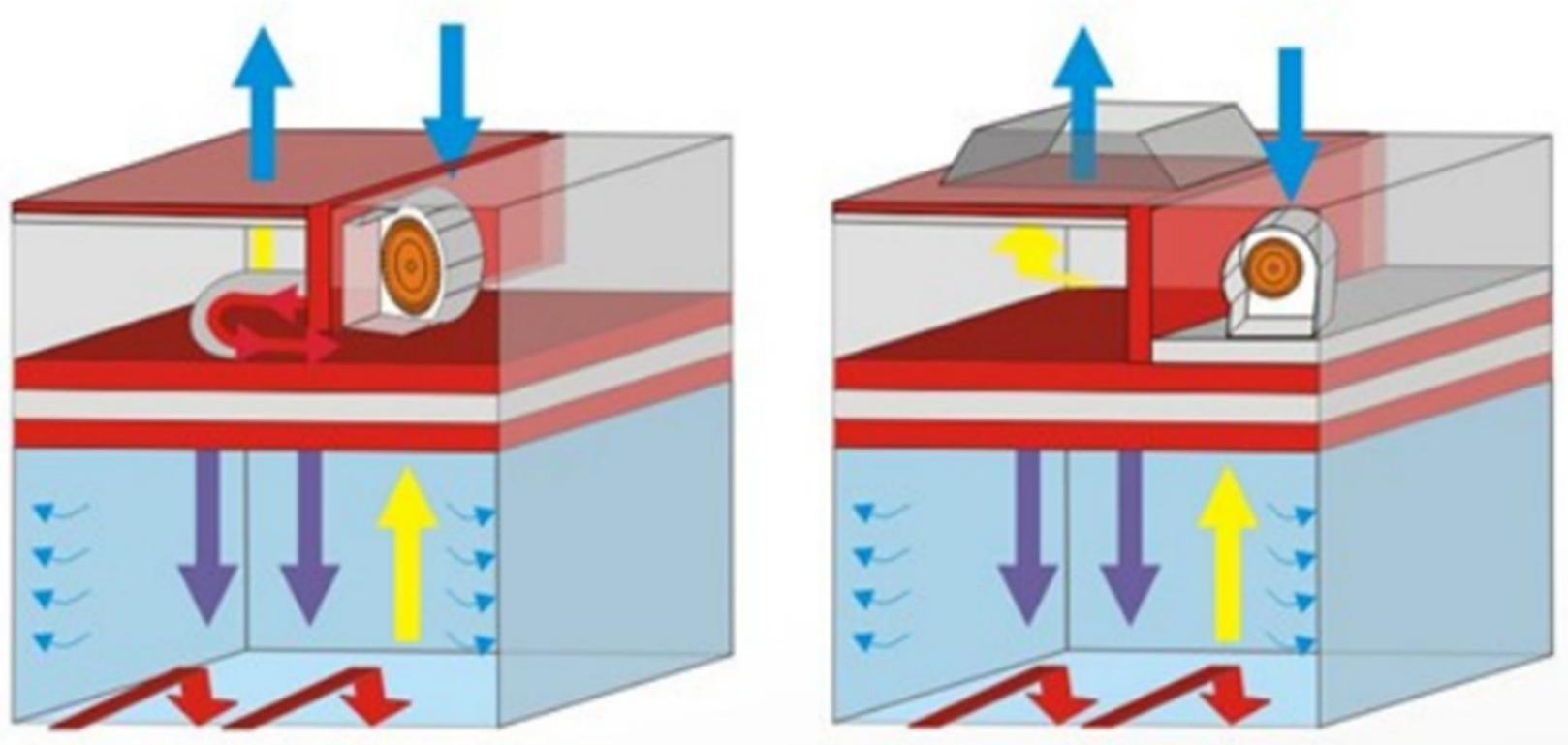
A2 Type: 70% inner circulation, 30% exhaust.

B2 Type: 100% exhaust.

Work zone width: 1000mm and 1300mm

High air flow and low-power fan



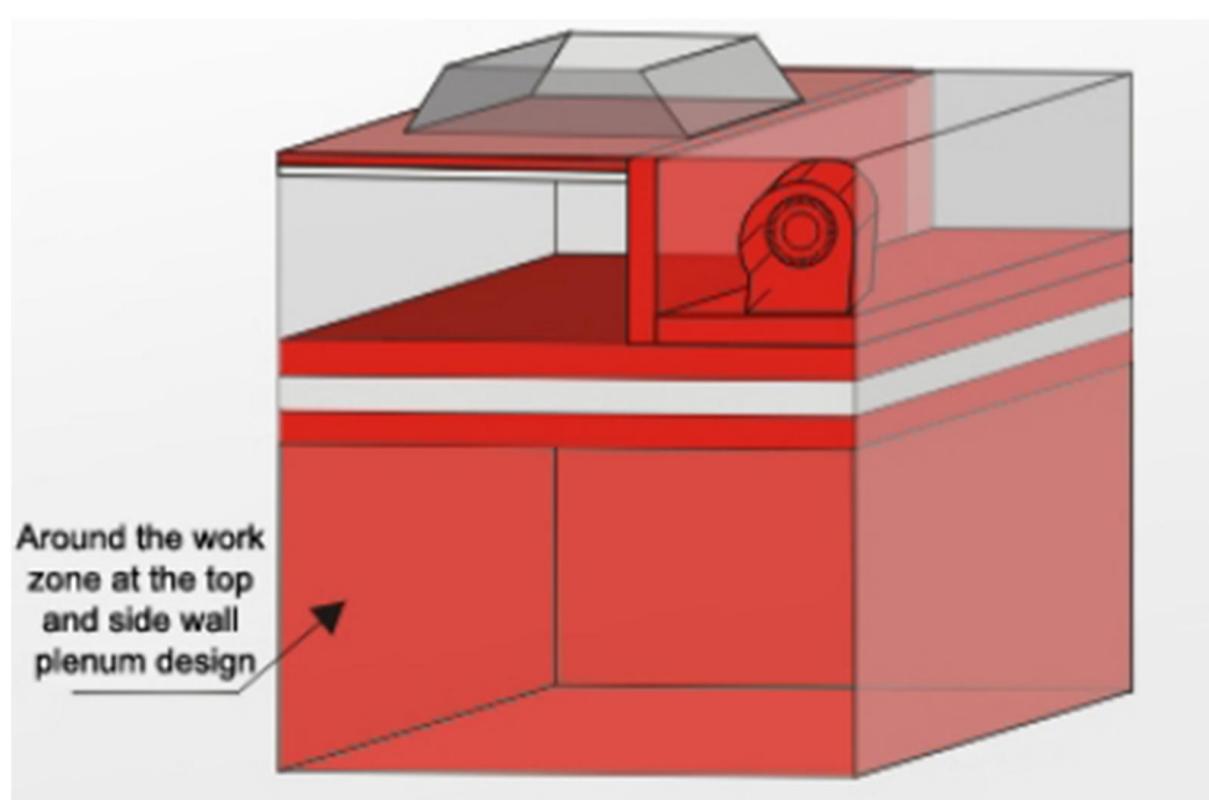


**A2 Type**  70% inner circulation, 30% exhaust

**B2 Type**  100% exhaust

## 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.



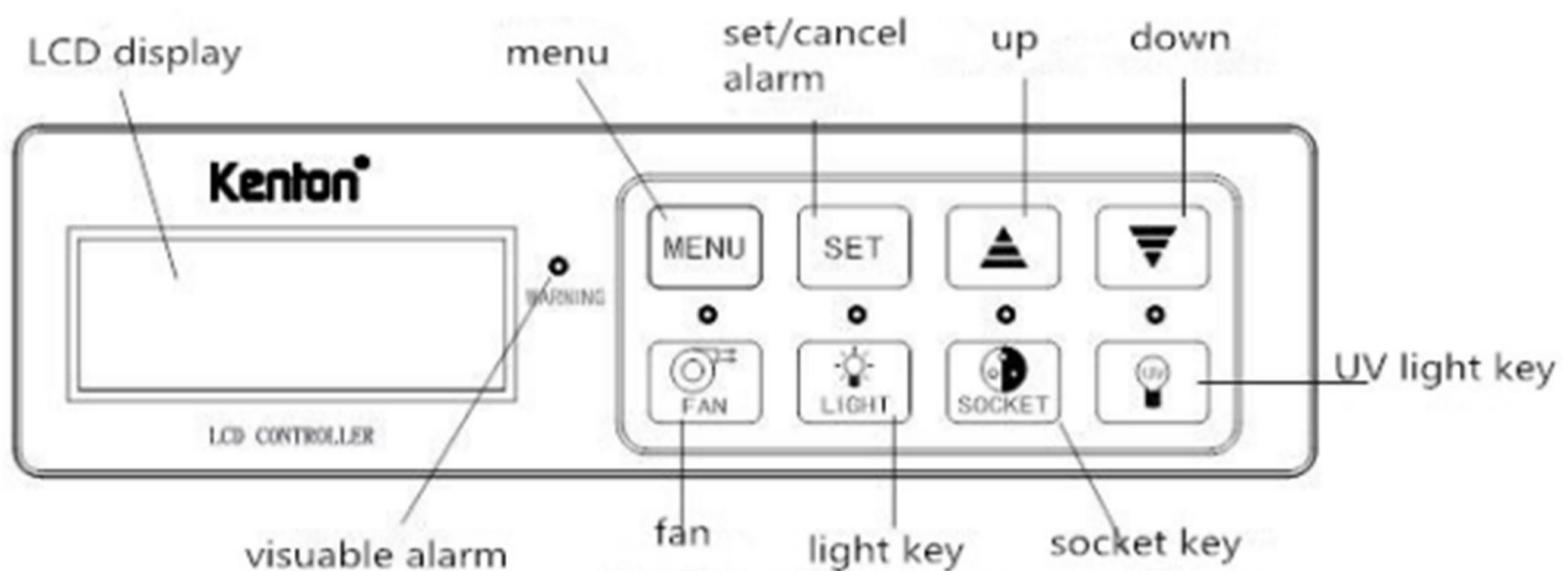
Plenum leak-proof technology

# BIOCASION Microcomputer controller system

1. The integrated LCD screen. Display inflow/down flow speed, pressure, filter life, failure alarm and other parameter status.

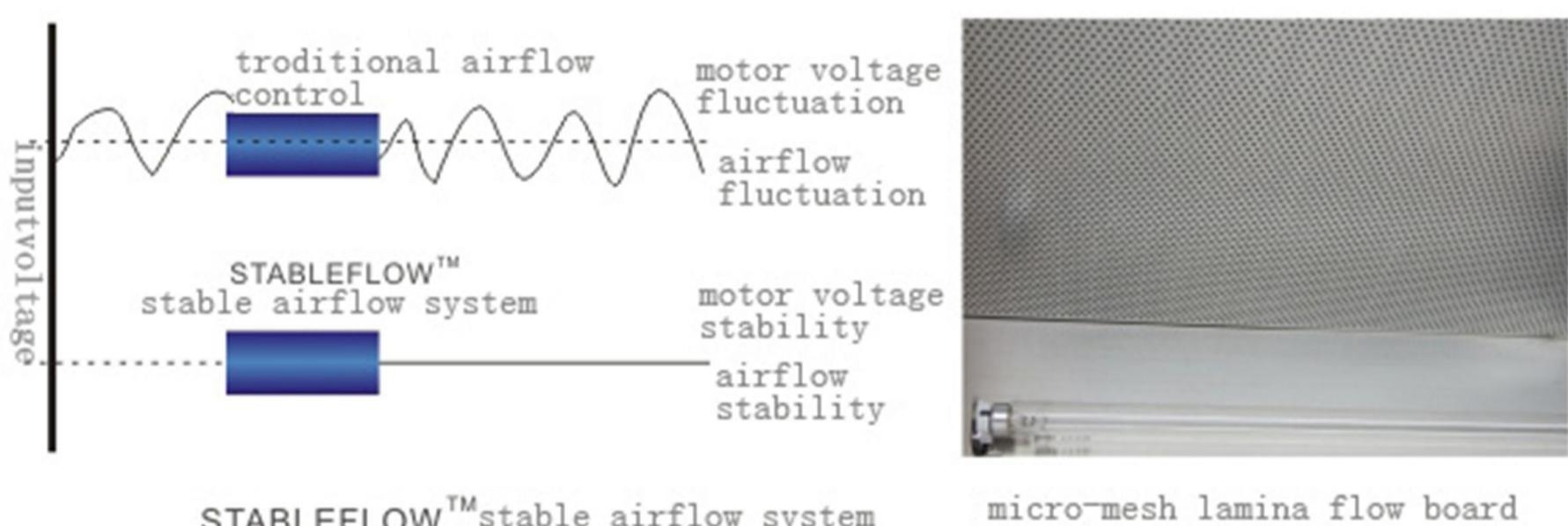
2. The user-friendly design, with sterilization, lighting, interlock function, front window over high alarm and front window closed then the fan shut down.

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: Air Velocity Sensor and Pressure Plenum Sensor

1. Imported air velocity sensors collect data of high precision, the performance of corrosion-resistant anti-interference ability.

2. Real-time monitoring and control cabinet status

3. Imported pressure plenum sensor responsive, effective monitoring the pressure of the work zone and plenum.



Air Velocity Sensor



Pressure Plenum Sensor

## 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.

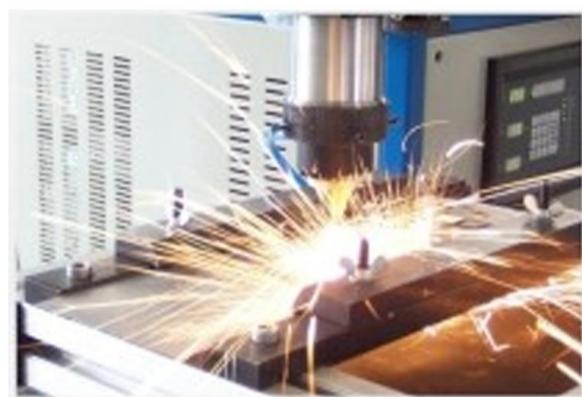
3. INSIDE lighting system to provide the best illumination angle and brightness, reducing visual fatigue;

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 HEAP of the BSC in use for some time.



## Manufacture of drying oven, lab incubator, climate chamber, laminar flow cabinet, biological safety cabinet(OEM,ODM)

### KENTON APPARATUS LIMITED

KENTON Apparatus Limited was found in 1999, production plant was set in Guangzhou, China. It is mainly engaged in production, sales and export of laboratory thermostatic equipment and biological scientific equipment, and has provided high-quality products and services for professional laboratories and scientific research institutions at domestic and abroad for many years. We rely on an international professional R&D team to keep the design and technology of products in step with the world and constantly seek breakthroughs. Since its establishment, the company has been focusing on thermostatic equipment products in related fields. Now it is a high-tech enterprise integrating science, industry and trade. Its business covers China, Southeast Asia, America, Europe, Australia and other countries. At the same time, based on the business philosophy of "walking with scientific researchers", and taking advantage of the company's geographical advantages, the company has carried out extensive communication and exchange with scientific researchers in different regions for many years, and carried out long-term follow-up services to users, constantly improving the function and quality of products, so that products can better meet the requirements of users.

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