LABORATORY

MEDICAL

BIOSAFETY CABINET
MODEL : MO-AHA SERIES

Moonmed Model: MO-AHA SERIES of Biosafety cabinets

Model Sizes: 4,5,6 Feet (We can custom make any missing sizes on demand)

Moonmed Biosafety cabinets have been trusted by the most technology advanced leading biotechnology, Hospitals, Universities, Research Centers, Pharmaceutical Companies and other Biological / Life Science Laboratories, academic, industrial and clinical laboratories. Our solutions deliver the performance, quality and reliability required by researchers and clinicians worldwide.

40 YEARS OF EXPERIENCE AND OPERATION - excellent R&D capabilities and strong manufacturing process.

CONTINUOUS TECHNOLOGY UPGRADES - Each step of the process adheres to strict quality control to ensure total customer satisfaction, from start to finish-Our biological safety cabinet certified by NSF.

PRODUCT PERFORMANCE AND SERVICE EXCELLENCE - Our R&D and manufacturing teams guarantee that each and every product passes the most stringent inspection before leaving the factory and is delivered to the customer on time

TRIED TESTED & TRUSTED (T-T-T) – Our products are Tried, Tested and Trusted to be safer and more reliable

NSF Certified
EN12469 Certified
YY 0569 Certified
UL61010-1/CSA-C.22.2 No.61010-1 Certified
ISO 9001:2008 Quality Management System Certified

BIOSAFETY CABINET

With amazing new features and especially protecting personnel, environment and product.

The Biosafety Cabinet is a safety device to protect the personnel, environment and product. It is the most commonly used containment device for work with biohazardous agents or materials. During operations, it helps avoid exposure to possible infectious aerosols and spills for the operation of experimental material of bio-hazardous, nature microbial strains or clinical diagnostic inspection sample. This Biosafety Cabinet is widely used in biological experiments; it is the most important barrier (Primary Barrier) and front line defense for the safety of the operator. Biological safety cabinets that are installed, certified, and used correctly offer user, environmental, and product protection from biohazards.

Class II type A2 Biosafety Cabinets currently dominate the market in popularity among all Biosafety Cabinets. They are designed to work with agents that require Biosafety Level 1 ~ 3 containment and minimize hazards. A2 Biosafety Cabinets maintain negative pressure environments inside the cabinet during operation to prevent the contaminants from escaping the work area to protect the employees. To protect the product, approximately 70% of the room air is pressurized by the blower and forced through the supply HEPA filter prior to entering the work area. Finally, the remaining 30% of air is filtered through an exhaust HEPA filter. The sterile air finally exits the cabinet and is released back into the environment.

Application areas:

Hospitals, Universities, Research Centers, Pharmaceutical Companies and other Biological / Life Science Laboratories.
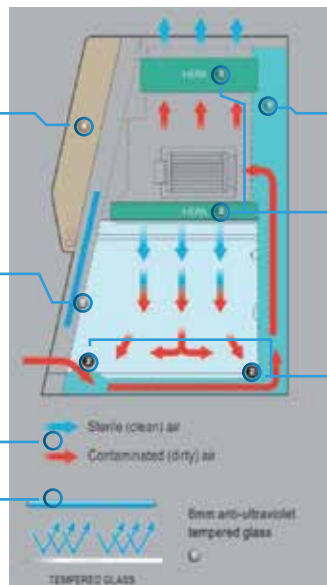
Multiple Protection Design Increases Security Level Significantly

Control systems and pipelines completely isolated from contaminated areas for convenient and safe maintenance.

6mm anti-ultraviolet tempered glass.

Sterile (clean) air **(BLUE)**
Contaminated (dirty) air **(RED)**

TEMPERED GLASS

DOUBLE-WALL CABINET STRUCTURES. CONTAMINATED AREA SURROUNDED WITH NEGATIVE PRESSURE TO FULLY PREVENT LEAKAGE OF CONTAMINATED AIR.

Supply/Exhaust HEPA filter 99.99% efficiency @0.3 micron (Class H14).

Innovative surrounded air intake grille design. All contaminated air in the work area is enclosed inside the cabinet. No safety dead end; the safety of personnel is never compromised.

Innovative surrounded air intake grille design. All contaminated air in the work area is enclosed inside the cabinet. No safety dead end; the safety of personnel is never compromised.

UV LIGHT inside the cabinet with sliding front UV safety anti-ultraviolet tempered glass window which is counter balanced and movable up and down with one finger
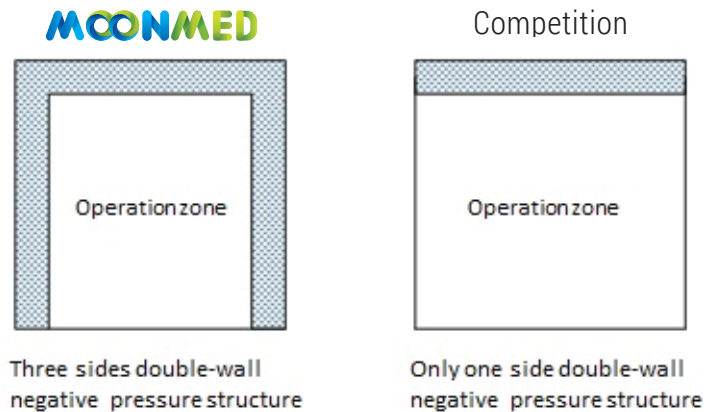
Electrical outlets with splash-proof cover.
North America (UL listed)
Europe/Worldwide (CE Certified)

Service valves for gas, air and vacuum. Maximum working pressure 75PSI. (CSA Certified)

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MOONMED DOUBLE WALL

MOONMED HAS **THREE SIDES DOUBLE WALL** NEGATIVE PRESSURE STRUCTURE AS COMPARED TO THE COMPETITION

MOONMED — Operation zone
Three sides double-wall negative pressure structure

Competition — Operation zone
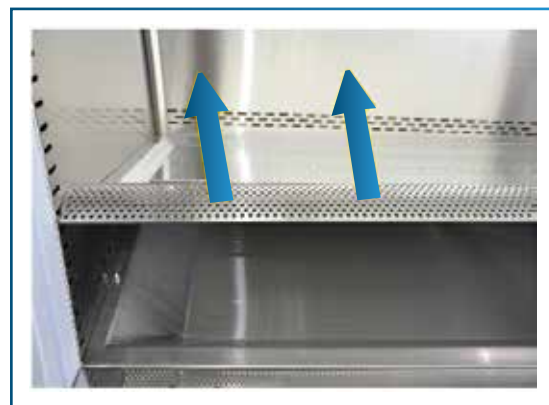Only one side double-wall negative pressure structure

User-Friendly Operation and Maintenance

- Apply Key to switch power for operator security control.

- Ergonomic 10 degrees angle window design. Reduces operation discomfort over long-term use of limbs and eye strain.

- Work area and work tray are fabricated in one single-piece of stainless steel with rounded corners designed to reduce particulate adhesion and for easy cleaning and maintenance.

- Patented HEPA filter fixation design for a more secure locking device. Can replace HEPA filters rapidly from the front of cabinet quickly and easily.

- Pioneered single-piece stainless steel design of work tray with front grille. The front grille Arc increases the fluency of the inflow air. It can be used as an armrest and eliminates the need for additional armrest fittings.

- Removable single-piece work tray can be easily removed for cleaning and collection of spilled liquid.
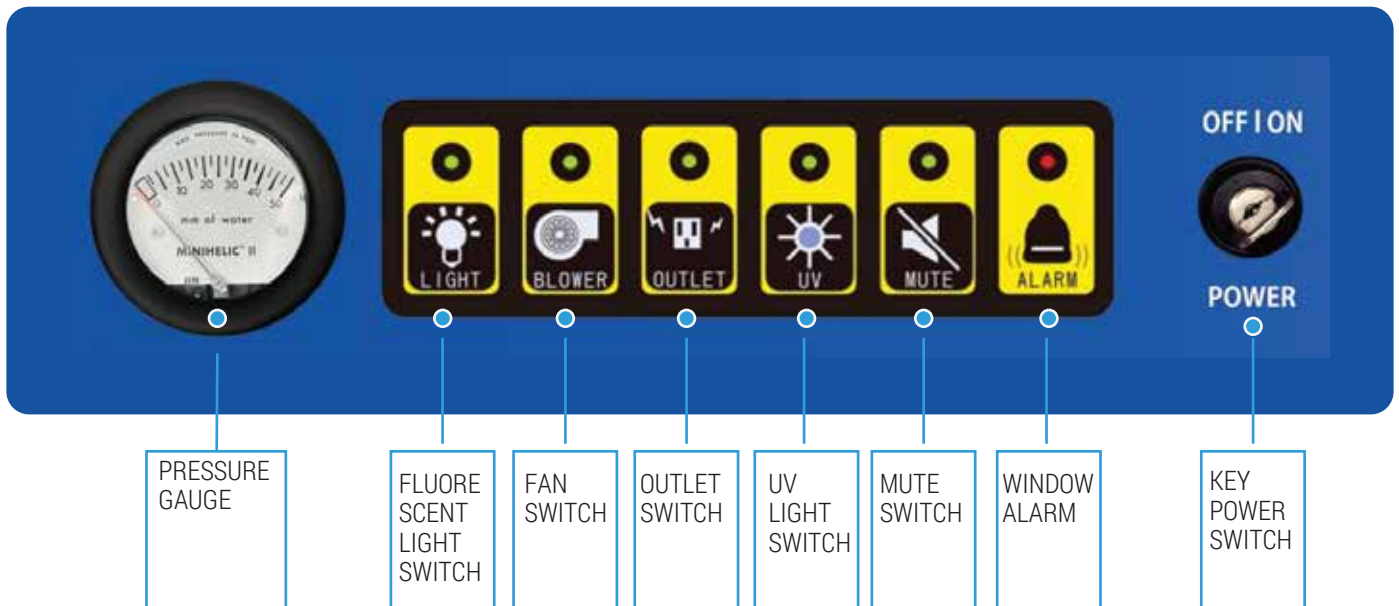

Arc-shaped armrest / grill. Makes it more comfortable for the operator to rest their arm on, resulting in less arm fatigue.`

Easy uplifting the tray to access the spill tank

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DIFFERENT CONTROL SYSTEMS

MEMBRANE TYPE

PRESSURE GAUGE	
FLUORESCENT LIGHT SWITCH	
FAN SWITCH	
OUTLET SWITCH	
UV LIGHT SWITCH	
MUTE SWITCH	
WINDOW ALARM	
KEY POWER SWITCH	

WINDOW ALARM	When the window is not at the operation height of 20 cm, it will release an audible and visual alarm automatically.
MUTE SWITCH	When the alarm is activated, it can be muted temporarily while the alarm light continues to flash. If the abnormal situation has not been settled, the cabinet alarm will be activated again within a set time (5 minutes) to alert the user.
SAFETY INTERLOCK	When the window is opened, the fan and fluorescent light will be activated automatically and the UV light will be switched off. When the window is fully closed, the UV light will be re-activated automatically. The fan and fluorescent light will be switched off.

* UV LIGHT TIMER for optional extra to order.

BIOSAFETY CABINET

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Full-Color Microcomputer

Touch Panel

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GRAPHICAL USER INTERFACE DESIGN. EASY TO OPERATE. PROVIDES USER WITH A BETTER VIEW OF REAL-TIME OPERATION STATUS THROUGH THE SCREEN. IDEAL TO ACCESS VARIOUS FUNCTIONS AND PARAMETER SETTINGS

Real-time digital display of inflow velocity, down flow velocity, HEPA filter pressure, and usage time of HEPA filters and UV lamp.

AUTOMATIC PRE-PURGE	The pre-purge time can be set for the fan to run when the cabinet is warmed up. During pre-purge, the air is recycled in the cabinet to achieve uniform flow and steady state prior to performing operation.
AUTOMATIC PRE-PURGE	The post-purge time can be set for removing the residual contaminated air in the cabinet to ensure the cleanliness of the work area after use.
TIMER	Built-in timer for counting up and down, electrical outlet, UV light.
ALARM	Audible and visual text alarms will be activated when the following situations occur. Low inflow velocity The window is not at the correct operation height. High HEPA filter pressure. Usage time of HEPA filter exceeds the setting hour. Usage time of UV lamp exceeds the setting hour.
LOW FAN SPEED MODE	Safety interlock for window and UV light to protect the operator from UV irradiation. When the window is opened, the UV light turns off automatically. UV light only activates when the window is fully closed.
SAFETY INTERLOCK	When the window is closed, the fan speed is automatically reduced to maintain work area cleanliness and energy-saving.

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OPERATION RECORD	Operation records can be viewed with a simple touch of the control panel.
UNIT DISPLAY	The unit display for air velocity and pressure can be set.
LANGUAGE DISPLAY	Multi-lingual display setting.
FAN CONTROL	Fan control setting allows the administrator to restrict the usage of cabinet by unauthorized personnel.
MUTE	When the audible alarm is activated, it can be muted temporarily by touching the mute switch. If the abnormal situation has not been settled, the cabinet alarm will be activated again within a set time to alert the user.

SELECT YOUR CONTROL TYPE

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TWELVE TESTS BEFORE YOU GET YOUR BIOSAFETY CABINET

Product Performance and Safety Testing before Leaving the Factory

Each Biosafety Cabinet goes through 8 performance tests, a UV lighting intensity test and 3 electrical safety tests before leaving the factory.

- Pressure decay test
- HEPA filter leak test
- Lighting intensity test
- UV lighting intensity test
- Inflow velocity test
- Airflow smoke patterns test
- Vibration test
- Electrical safety test
- Down flow velocity test
- Noise level test

PACKAGING MATERIALS FOR SHIPMENT WORLDWIDE

HEAVY DUTY STURDY PACKAGING MATERIALS USED

TECHNICAL DATA SPECIFICATIONS

Class II type A2 Biosafety Cabinet

Model No.	4 feet	5 feet	6 feet
International Certification	EN 12469 \ ISO 9001:2008		
External Dimensions W×D×H (without support stand 660 mm)	1334×789×1537 mm	1634×789×1537 mm	1934×789×1537 mm
Internal Dimensions W×D×H	1220×626×749 mm	1520×626×749 mm	1820×626×749 mm
Cabinet Main Construction	Stainless Steel#304		
Air Flow	70% recirculated/ 30% exhausted		
Window Operation Height	20 cm, 25 cm		
Ave. Inflow Velocity	0.51 m/s		
Ave. Down flow Velocity	0.325 m/s	0.275 m/s	0.275 m/s
Exhaust Air Volume with Exhaust Canopy	16 m³/min, 20 m³/min	20m3/min, 25 m3/min	24 m3/min, 30 m3/min
Supply/Exhaust HEPA Filter	99.99% @0.3 micron (Class H14)		
Light Intensity	> 1,000 lux		
Sound Level	< 60dBA		
UV Lamp	254 nm/ FL 30W×1	254 nm/ FL 40W×1	254 nm/ FL 20W×2
Fluorescent Lamp	T5/28W×2	T5/35W×2	T5/21W×4
Window Glass	6mm tempered glass		
Electrical Outlets	North America (UL Listed), Europe/Worldwide (CE Certified)		
Optional Accessories	● IV bar with 6 hooks ● Service valves(air, gas, vacuum) , CSA Certified ● Exhaust canopy		
Room Height Suggested	227 cm at least		
Power 115V / 10A	430 W	445 W	650 W
Consumption 230V / 7A	430 W	445 W	650 W
Net Weight	275 kg	295 kg	340 kg
Shipping Weight	335 kg	360 kg	410 kg
Shipping Dimensions W×D×H	1400×850×1910 mm	1700×850×1910 mm	2000×850×1910 mm

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TECHNICAL DATA SPECIFICATIONS

Ordering Guide - Model Numbers

Cabinet Type	4 feet	5 feet	6 feet	Window Operation Height
Touch Panel / 115V,60Hz,10A 🇺🇸	MO-AHA-133-AA-A	MO-AHA-163-AA-A	MO-AHA-193-AA-A	20 cm
	MO-AHA-133-AA-B	MO-AHA-163-AA-B	MO-AHA-193-AA-B	25 cm
Touch Panel / 230V,50/60Hz,7A 🇪🇺	MO-AHA-133-AB-A	MO-AHA-163-AB-A	MO-AHA-193-AB-A	20 cm
	MO-AHA-133-AB-B	MO-AHA-163-AB-B	MO-AHA-193-AB-B	25 cm
Membrane Switch Panel / 115V,60Hz,10A 🇺🇸	MO-AHA-133-CA-A	MO-AHA-163-CA-A	MO-AHA-193-CA-A	20 cm
	MO-AHA-133-CA-B	MO-AHA-163-CA-B	MO-AHA-193-CA-B	25 cm
Membrane Switch Panel / 230V,50/60Hz,7A 🇪🇺	MO-AHA-133-CB-A	MO-AHA-163-CB-A	MO-AHA-193-CB-A	20 cm
	MO-AHA-133-CB-B	MO-AHA-163-CB-B	MO-AHA-193-CB-B	25 cm

Membrane Control Panel

7" TOUCH SCREEN

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