

# Intelligent Series Biological Safety Cabinet

HR900-IIA2/HR1200-IIA2/HR1500-IIA2



## Main Applications

Professional partial air purification equipment, it is suitable for cell biology, microbiology, biomedicine, biosafety and other related laboratories. It provides the most basic protection and isolation equipment for biosafety.



## Drop-down front window

- Remove the hand rest, drop down the front window to clean the upper edge off the glass conveniently, without leaving any blind spots.



- V-shaped air inlet**

The V-shaped air inlet can prevent the samples or arms of the operator from blocking the air flow. The handle is used for lifting the workbench and cleaning the liquid collected in the tank conveniently.



- Patented Technology: UV Lamp One-touch application**

The UV Lamp can be preset to automate on/off sterilization and remember the user's settings and habits, it is set by pressing one button, reducing down time for user.



- Patented Technology: Waterproof Receptacle Timing**

The receptacle can be set by using a microcomputer to supply power at a specified time, to satisfy the user's demands for timing of experiment.



- Universal Casters with Built-in Threaded Supporting Legs**

The under-frame is designed with universal casters for moving the cabinet conveniently, and the built-in threaded supporting legs can prevent the propagation of bacteria.



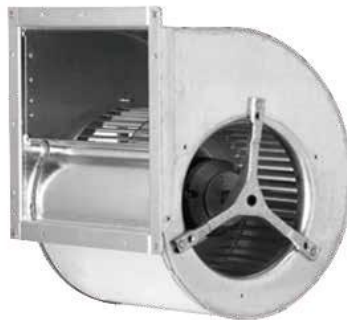
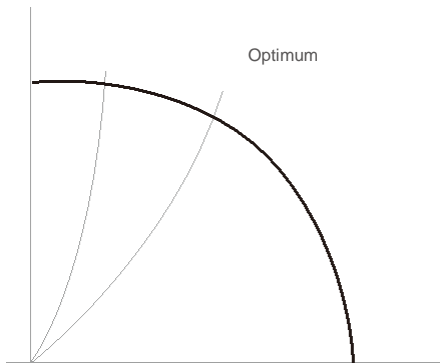
## Key Components

- Ultra-Low Penetration Air System (HEPA) Filter (U14)**

- The HEPA filter is made from moisture-proof and fireproof glass with a typical efficiency up to 99.995% when filtering 0.30µm solid particles, fully meeting the cleanliness requirements of USA FED STD 209E Grade 1 (or ISO 14644-1 Grade 3).
- The HEPA filter can supply vertical air flow to the workbench, preventing the samples from being contaminated.
- The filter can be scanned from point by point to ensure high performance, reliability and safety.

## • Maintenance-free fans system

- Forward centrifugal fans with air inflow from both sides of the motor, reducing noise to a very low level of less than 55 dB
- Self-cooling, low energy consumption enhances reliability
- Optimal balance between air supply and energy consumption
- Stable air flow for the safety cabinet by controlling the precise voltage of the fans



## Safe

### • Abnormal operation condition alarm

Audible and visual alarms in the form of voice or text will be present when the air turbulence level exceeds 20%, and door height (high or low) or work area temperature exceeds limits.

### • Patented technology: UV lamp end-of-life reminder

The microcomputer will track the usage time of the UV lamp, and will warn the user to replace the UV lamp when its remaining life is less than 10%.

### • Patented technology: Iter end-of-life reminder

The pressure transducer monitors the resistance variations to determine the remaining life of the filter, and will warn the user when the remaining life is below 10%.

### • Interlocking feature to ensure high safety and reliability

Patented technology: UV lamp interlocking control

UV lamp, front window, fan and interior light are interlocked to prevent any leakage of UV rays or micro organisms

\* Type B2 safety cabinet with internal & external fans interlocked

The external fan will be activated first when the safety cabinet is powered on, and the internal fans will be deactivated first when the safety cabinet is powered off. When the air inflow is lower than the limit, the internal fans will be deactivated, and the external fan will continue working, accompanied with audible and visual alarms. If the internal fans is deactivated while in use, the external fan will continue working, accompanied with audible and visual alarms.

## Professional

### • Digital display of operating parameters

The LCD screen displays in real-time operating parameters such as digital display of down flow, inflow, exhaust volume, working area temperature, remaining life of the filter, UV lamp plus negative pressure and positive pressure.



### • Key component failure alarm

Audible and visual alarms will be given in case of any failures in the airflow velocity sensor, pressure sensor, temperature sensor, microcomputer board or air flow valve, indicating the position of failure in voice or text.



# Biological Safety Cabinet: Intelligent Series, Type A2



## Product Configuration





Model		HR900-IIA2(S)	HR1200-IIA2(S)	HR1500-IIA2(S)
Working Voltage&Frequency(V/Hz)		220V 50Hz	220V 50Hz	220V 50Hz
Power(VA)		1400	1500	1600
Power of Blowers(W)		AC-L=330W,M=465W,H=735W	AC-L=330W,M=465W,H=735W	AC 650W
Airflow Circulation		70% Downflow,30% Exhaust	70% Downflow,30% Exhaust	70% Downflow,30% Exhaust
Main Filter Typical Efficiency		HEPA ,U14,99.995%@0.30um	HEPA ,U14,99.9995%@0.30um	HEPA ,U14,99.995%@0.30um
Exhaust Filter Typical Efficiency		HEPA,U14,99.995%@0.30um	HEPA,U14,99.995%@0.30um	HEPA,U14,99.995%@0.30um
Filter's Brand		AAF	AAF	AAF
Downflow Velocity(m/s)		0.33	0.34	0.31
Inflow Velocity(m/s)		0.55	0.55	0.55
Fluorescent Lamp Intensity(Lux)		≥1100	≥1300	≥1400
Net/Gross Weight(approx)	kg	270/293	320/339	360/393
	lbs	595.3/646	705.5/747.4	793.7/866.4
Interior Dimensions(W*D*H)	mm	920*620*700	1220*620*700	1520*620*700
	in	36.2*24.4*27.5	48.0*24.4*27.5	59.9*24.4*27.5
Exterior Dimensions(W*D*H)	mm	1080*780*1390	1380*780*1390	1680*780*1390
	in	42.5*30.7*85.0	54.3*30.7*85.0	66.1*30.7*85.0
Packing Dimensions(W*D*H)	mm	1145*920*1690	1470*920*1690	1755*920*1690
	in	45.1*36.2*66.5	57.9*36.2*66.5	69.1*36.2*66.5
Supporter		680-900mm adjustable height	680-900mm adjustable height	680-900mm adjustable height
Container load (20'/40'/40'H)		12/24/24	8/16/16	6/12/12
Alarm		Sound and Flash	Sound and Flash	Sound and Flash
Certificate		CFDA,CE,EN12469	CFDA,CE,EN12469	CFDA,CE,EN12469

## Optional components



Valve port, yellow, for fuel gas



Valve port, blue, for compressed air



Valve port, grey, for vacuum



Valve port, green, for water



1.5mm thickened workbench and liner



316 stainless steel workbench and liner



VHP sterilization kit



Type A2 BSC exhaust hood



Activated carbon kit



Height-adjustable support



Europe, UK and USA standard power supply sockets

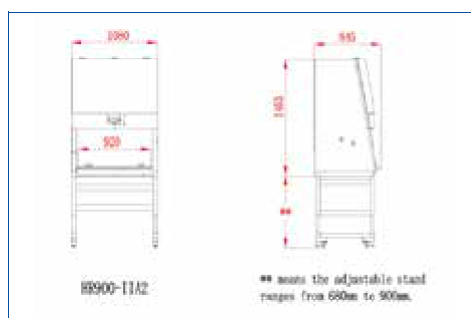


Europe, UK and USA standard power supply plugs

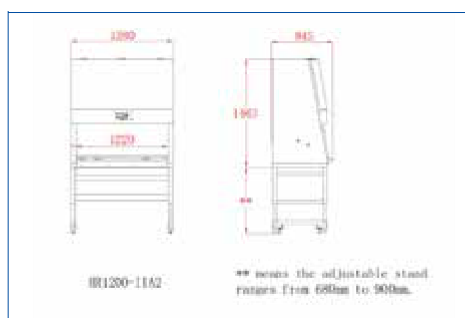


IR sterilizer

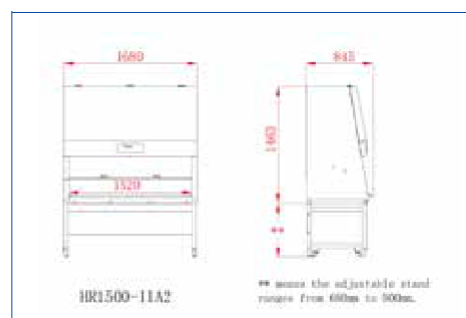
## Product dimension



HR900-IIA2



HR1200-IIA2



HR1500-IIA2

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