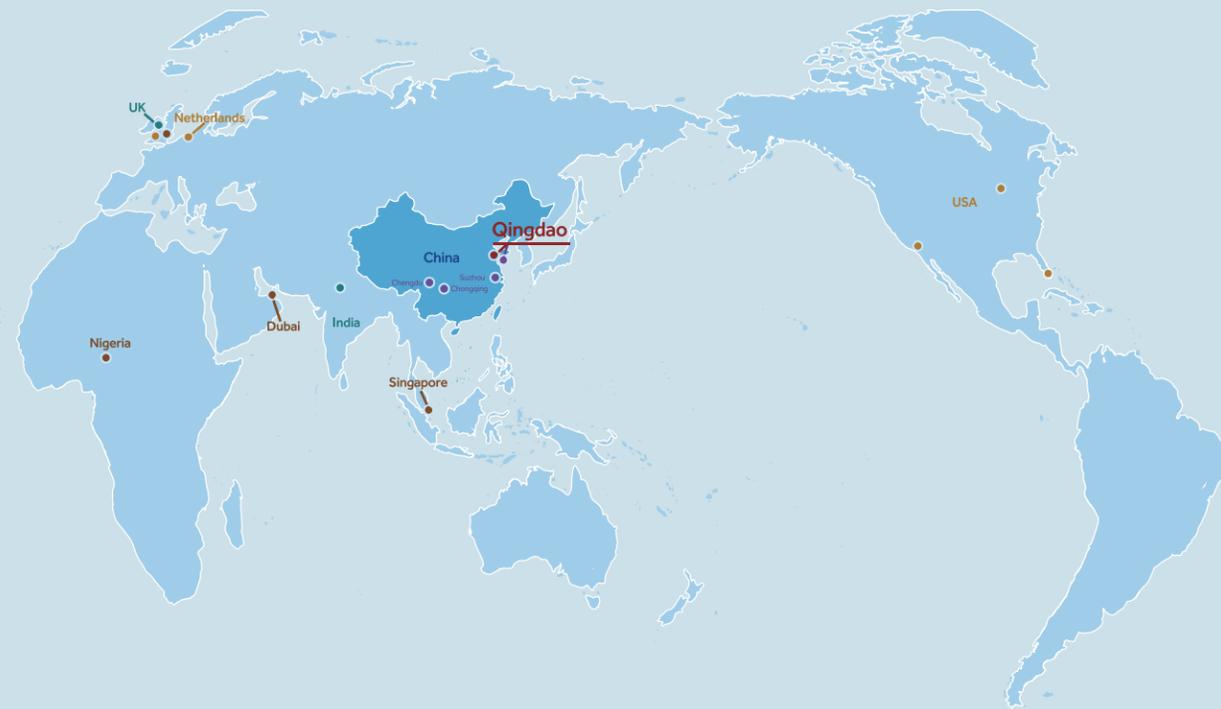
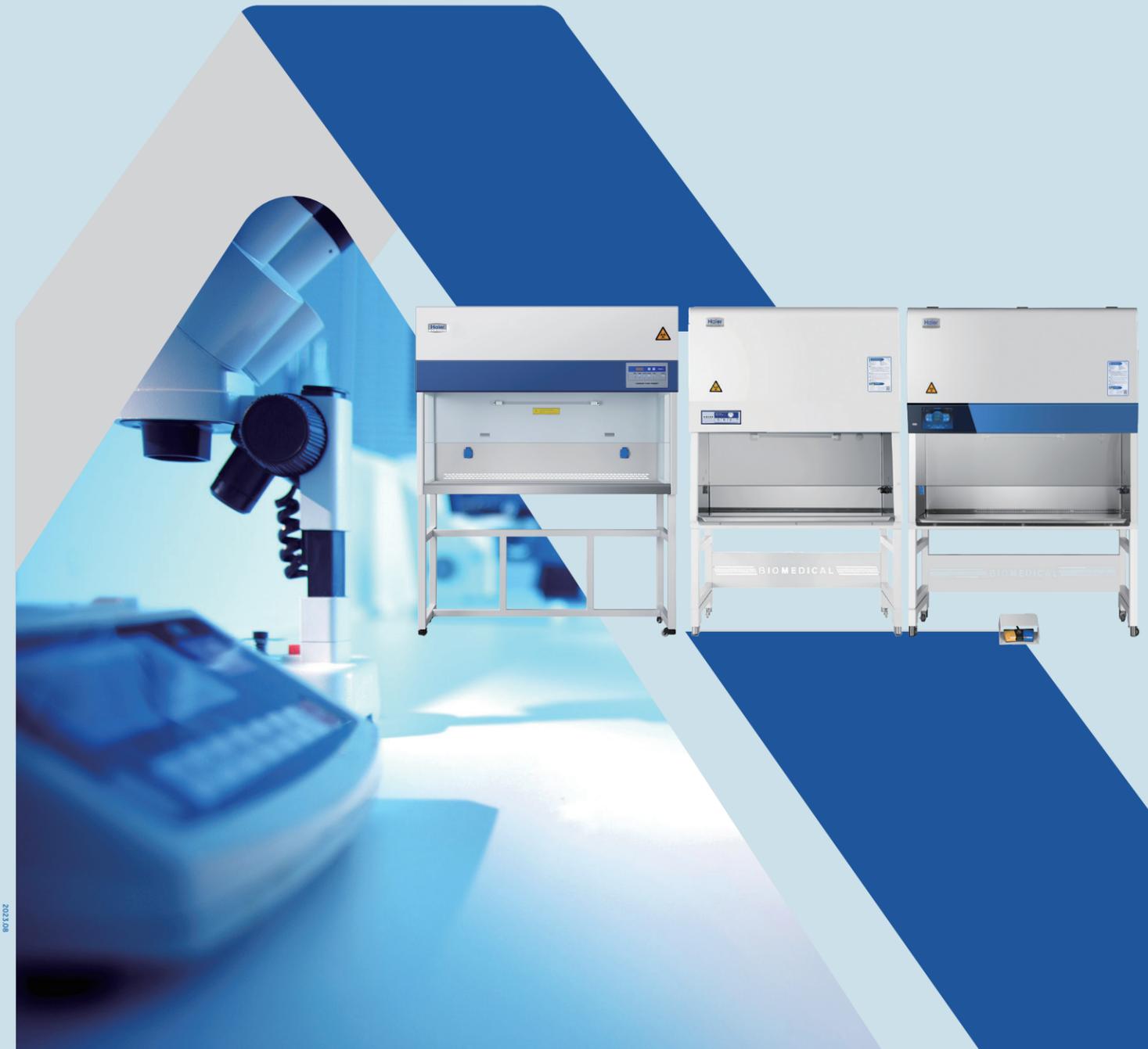


# Laboratory Protection Clean Air Solutions



● Headquarter ● Global warehouse ● Training center ● Global subsidiary ● Manufacturing base



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Note: If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.

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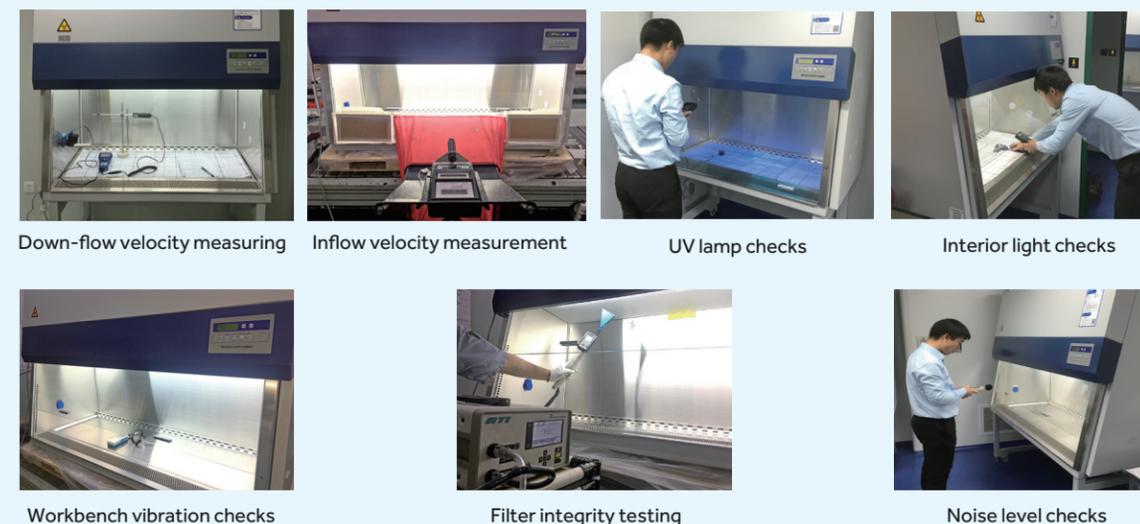
## Certifications, Quality Control, Patented Technologies >>

### • Certifications

Safety certification to EN 61010  
 EMC certification EN 61326  
 Certified EN 12469 for Biological Safety Cabinets  
 Certified CFDA YY-0569  
 ISO 13485:2016 and ISO 9001:2015 Certified Company



## Strict QC Tests and Pre-delivery Inspections >>



Down-flow velocity measuring

Inflow velocity measurement

UV lamp checks

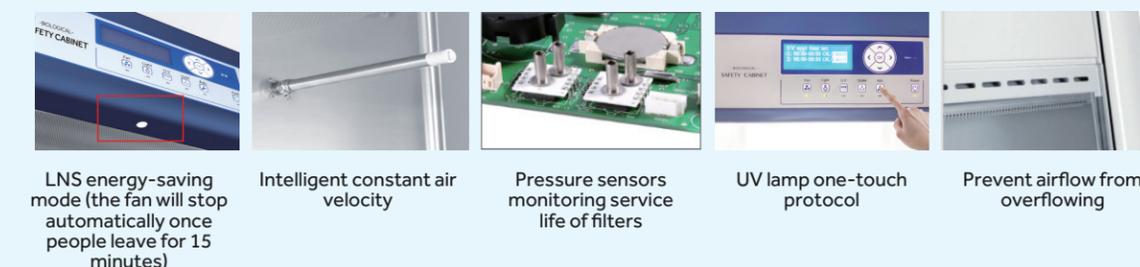
Interior light checks

Workbench vibration checks

Filter integrity testing

Noise level checks

### • Patented Technologies



LNS energy-saving mode (the fan will stop automatically once people leave for 15 minutes)

Intelligent constant air velocity

Pressure sensors monitoring service life of filters

UV lamp one-touch protocol

Prevent airflow from overflowing

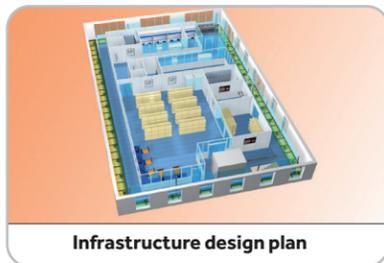
## Safe Admixture Solution for Medicine

### Typical Application for PIVAS (Pharmacy Intravenous Admixture Service)

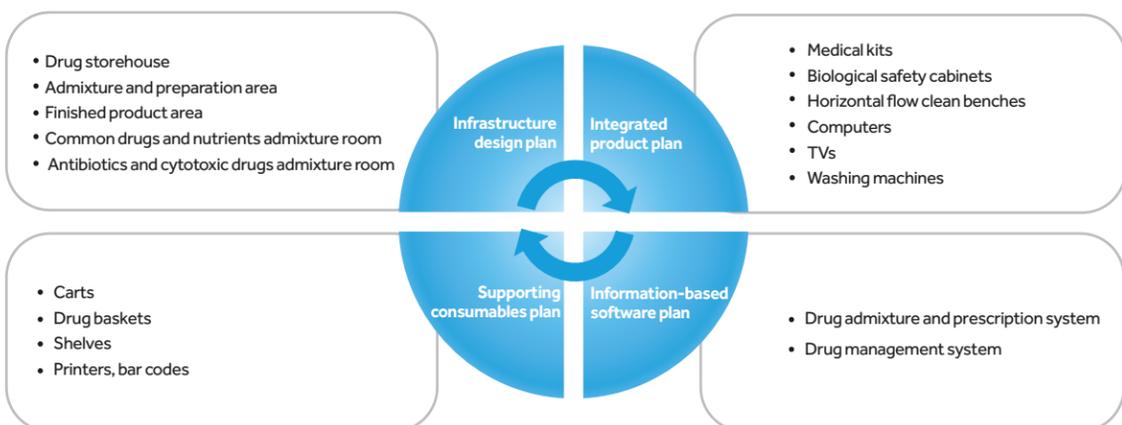
Haier Biomedical clean bench ensures a superior cleanliness environment while the technical specialists /medical staff perform the admixture of intravenous fluid for PIVAS.



### Introduction to Safe System Solution for PIVAS



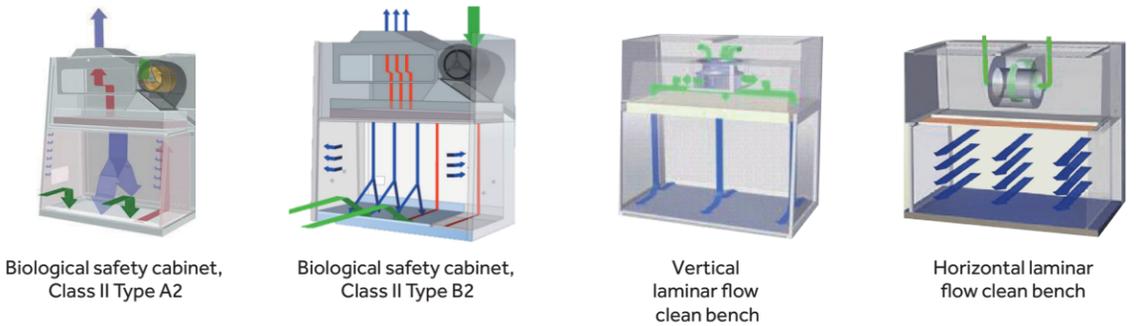
### Complete Safe Solution for PIVAS



## Differences between Biological Safety Cabinet and Laminar Flow Cabinet

### Working Principles

■ Clean air after cleaned ■ Ambient air ■ Polluted air



Biological safety cabinet, Class II Type A2

Biological safety cabinet, Class II Type B2

Vertical laminar flow clean bench

Horizontal laminar flow clean bench

### Functions

Product Category	Airflow Circulation	Applications	Air Supply Mode	Filter	Operator Protection	Sample Protection	Environment Protection
Biological safety cabinet, Class II, Type A2	70% circulated, 30% discharged	Operation of pathogenic bacteria, mold, yeast and other hazardous samples	Negative pressure (Air pulled into cabinet)	High efficiency	✓	✓	✓
Biological safety cabinet, Class II, Type B2	100% discharged to outdoor space						
Vertical laminar flow clean bench	100% discharged to indoor space	Operation of non-hazardous bacteria, PIVAS	Positive pressure (Supply air to space outside of cabinet)	High efficiency	x	✓	x
Horizontal laminar flow clean bench	100% discharged to indoor space						

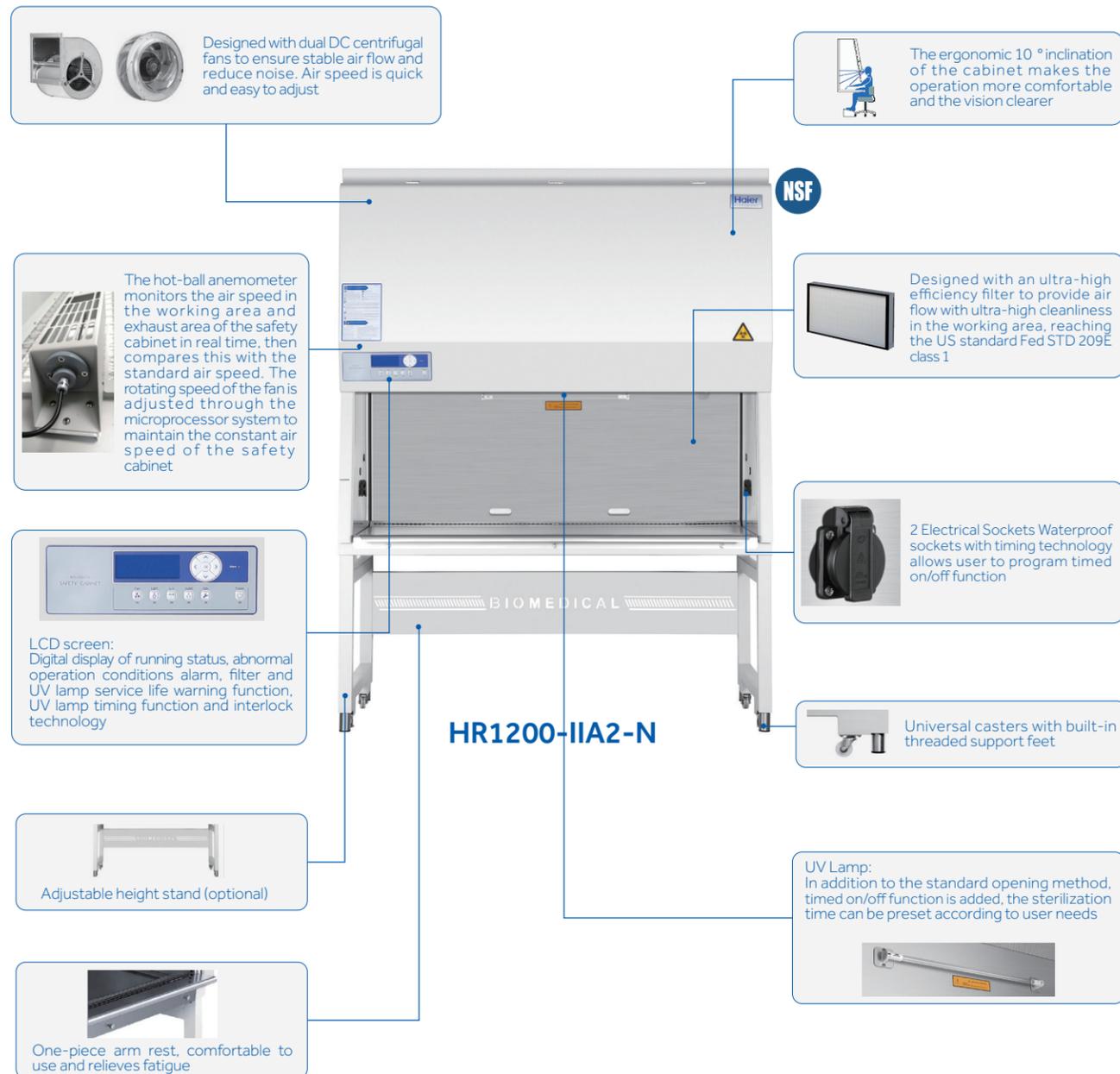
### Model Selection Guide for Biological Safety Cabinet

Applications		Class II, Type A2	Class II, Type A2 + Discharge Ducting	Class II, Type B2
Biotechnology	Sterilized culture medium preparation	✓	✓	✓
	Non-biohazard culture medium preparation	✓	✓	✓
	Culture	✓	✓	✓
	Non-biohazard tissue culture	✓	✓	✓
	Tissue culture	✓	✓	✓
	Plant tissue culture	✓	✓	✓
	Blood composition analysis	✓	✓	✓
	Human tissue research	✓	✓	✓
	PCR	✓	✓	✓
Microorganism	Sterilized culture medium preparation	✓	✓	✓
	Non-biohazard culture medium preparation	✓	✓	✓
	Culture	✓	✓	✓
	Odorous substance culture	✓	✓	✓
	Non-biohazard culture	✓	✓	✓
	Isolated clinical specimen	✓	✓	✓
	Blood analysis	✓	✓	✓
	QA/QC	✓	✓	✓
	Non-volatile toxic substance staining	✓	✓	✓
	Trace-volatile toxic substance staining	✓	✓	✓
	Non-volatile substance radioisotope labelling	✓	✓	✓
Trace-volatile substance radioisotope labelling	✓	✓	✓	
Medicine	Anticancer drug preparation	✓	✓	✓
	Trace-volatile substance preparation	✓	✓	✓
Routine Research	Cell/tissue fixation/staining	✓	✓	✓
	Toxic powder/suspended solids	✓	✓	✓

## NSF Series Biological Safety Cabinet

### Scope of Application

Professional air purification equipment suitable for pharmaceuticals, medical and health industries, scientific research laboratories of universities and colleges as well as other related fields.



### Product Advantages



#### Multiple Voltage Options, Suitable for Many Countries and Regions

Full voltage coverage (100-230V 50/60Hz), suitable for a wide range of countries and regions.



#### Microprocessor Control System

- Intuitive and informative interactive digital LCD display.
- The hot-ball anemometer monitors the downflow and inflow air speed of the safety cabinet in real time and compares it with the standard air speed. The rotating speed of the fan is adjusted through the microprocessor system to maintain the constant air speed of the safety cabinet.
- Real-time display of operational information and parameters including downflow air velocity, flow rate, temperature, humidity, positive pressure, negative pressure, fan cumulative running time and filter remaining service life.
- One button UV lamp timer function, allows users to set 0 to 24 hours of automatic on/off time.



#### Ultra-low Noise, Uniform Airflow

Designed with Dual DC centrifugal fans, combined with an innovative air distribution system, with lower noise, and more uniform air flow.



#### Superior Filter, Multiple Protection

- ULPA is made of moisture-proof and flame-retardant glass fiber filter paper which can intercept 99.9995% solid particles with a diameter of 0.12 μm to ensure high cleanliness of air supply flow and exhaust flow.
- Perfect air distribution design, no turbulence in the working area.
- Sound and light alarm function for abnormal parameters.



#### One-piece Welded Cabinet Structure, Leak Proof

Prevention of leakage performance of dangerous factors conforms to NSF specification.

## NSF Series Biological Safety Cabinet

## Specifications

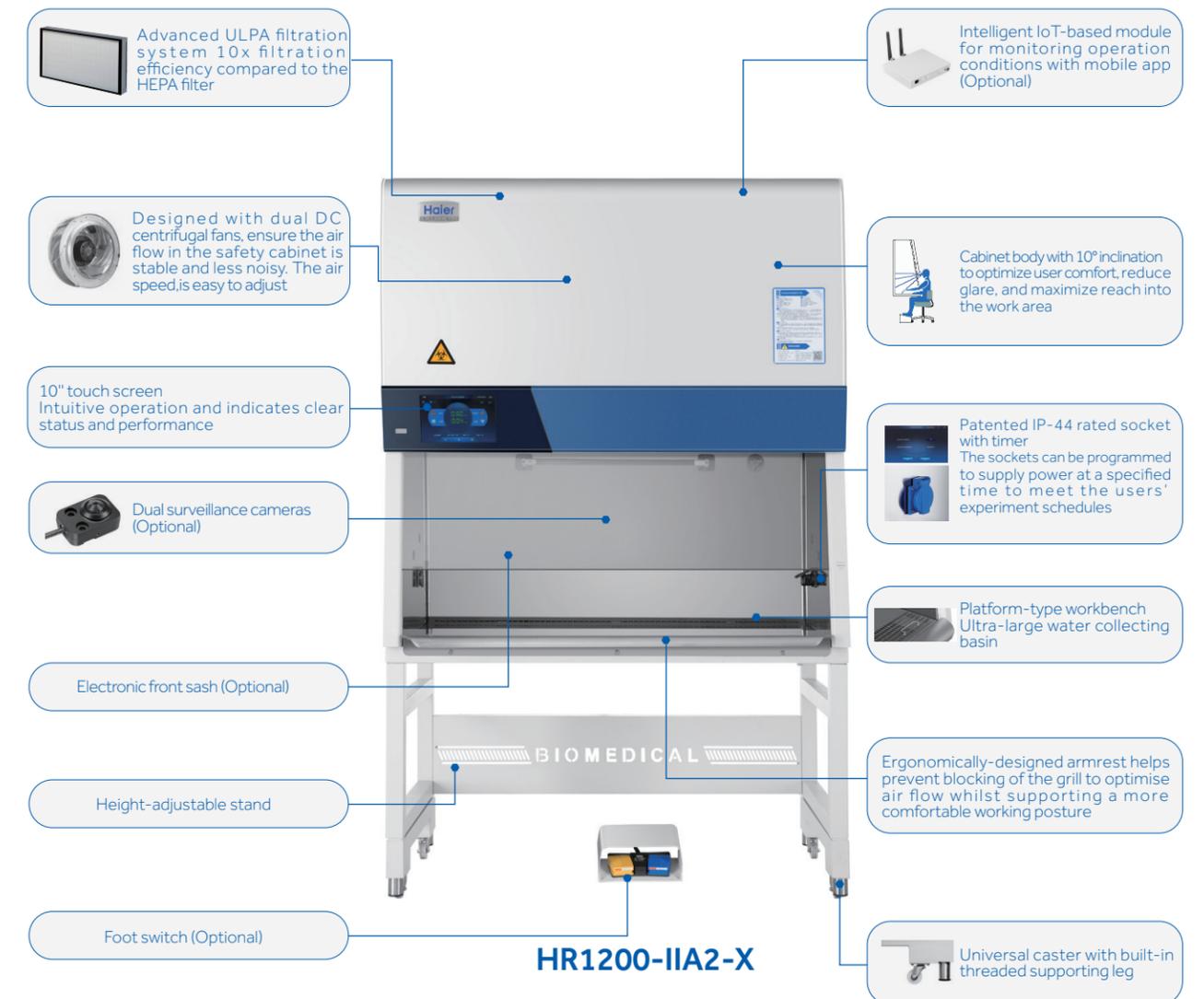
Model	HR900-IIA2-N	HR1200-IIA2-N	HR1500-IIA2-N	HR1800-IIA2-N	
Working Voltage&Frequency (V/Hz)	100-230/50/60	100-230/50/60	100-230/50/60	100-230/50/60	
Power (VA)	1300	1300	1400	1400	
Power of Blower (W)	DC 190W 112W	DC 120W 112W	DC 190W 112W	DC 120W 112W	
Airflow Circulation	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	
Main Filter Typical Efficiency	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	
Exhaust Filter Typical Efficiency	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	
Filter's Brand	AAF	AAF	AAF	AAF	
Downflow Velocity (m/s)	0.35	0.35	0.35	0.35	
Inflow Velocity (m/s)	0.53	0.53	0.53	0.53	
Lighting Intensity (Lux)	946	1323	/	1292	
Sound Level (dB(A))	67	64	/	67	
Net/Gross Weight	kg	225/265	275/335	325/365	
	lbs	496/584	617/750	716.5/804.7	827/1014
Internal Dimensions (W*D*H)	mm	930*600*650	1230*600*650	1530*600*650	1830*600*650
	in	36.6*23.6*25.6	48.4*23.6*25.6	60.2*23.6*25.6	72.0*23.6*25.6
External Dimensions (W*D*H) (Width without Arm Rest)	mm	1040*850(790)*2160	1340*850(790)*2160	1640*850(790)*2160	1940*850(790)*2160
	in	40.9*33.5(31.1)*85	52.8*33.5(31.1)*85	64.6*33.5(31.1)*85	76.4*33.5(31.1)*85
Packing Dimensions (W*D*H)	mm	1100*900*1710	1400*900*1710	1700*900*1710	2000*900*1710
	in	43.3*35.4*67.3	55.1*35.4*67.3	66.9*35.4*67.3	78.7*35.4*67.3
Support Stand (mm)		680mm (standard), 680-900mm adjustable height (optional)			
Sash Opening (mm)		200 (Max 460)	200 (Max 460)	200 (Max 460)	200 (Max 460)
Container Load (20'/40'/40'H)		12/24/24	8/16/16	6/12/12	6/12/12
Alarm		Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash
Closing Fan Alarm After Door Opening		Y	Y	Y	Y
Door Ajar		Y	Y	Y	Y
Abnormal Inflow		Y	Y	Y	Y
Abnormal Downflow		Y	Y	Y	Y
Door Open More than Limit		Y	Y	Y	Y
Filter Clogging		Y	Y	Y	Y
Filter Damage		Y	Y	Y	Y
Filter Lifetime Lack		Y	Y	Y	Y
UV Light Lifetime Lack		Y	Y	Y	Y
UV Lamp		Y	Y	Y	Y
Socket		2 sockets (optional GFCI socket)			
Valve Port		Optional	Optional	Optional	Optional
Side Wall Service Taps		Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap
Antimicrobial Coating		Optional	Optional	Optional	Optional
316SS Work Surface		Optional	Optional	Optional	Optional
Work Surface		Single-piece	Single-piece	Single-piece	Single-piece
Touch Screen		Optional	Optional	Optional	Optional
Electric Front Sash		/	/	/	/
Foot Switch		/	/	/	/
Armrest		Y	Y	Y	Y
Exhaust Duct Connection Kits		Optional	Optional	Optional	Optional
Others		UL, NSF	UL, NSF	UL, NSF	UL, NSF

\*Haier Biomedical reserves the right to change products and specifications without prior notice

## Smart IoT Series Biological Safety Cabinet

## Scope of Application

The X series of standard Class II microbiological safety cabinets are suitable for basic cell biology, microbiology, biomedicine, biosafety laboratories and other laboratories.



## Smart IoT Series Biological Safety Cabinet

## Product Advantages

**Microprocessor Control System**

- Utilizing intelligent constant air speed design to monitor the downward airflow and the inlet airflow in real-time. The dual air speed sensors adjust the fan speed through a microcomputer system so as to maintain constant air speed inside the cabinet
- Intuitive and informative interactive touch screen
- Real-time display of operational information and parameters including downflow air velocity, flow rate, temperature, humidity, positive pressure, negative pressure, fan cumulative running time and filter remaining service life

**Electronic Front Sash (optional)**

With push button simplicity the front window automatically opens to the correct aperture mandated by regional regulation to help ensure proper working conditions

**Dual Cameras (optional)**

As an option, two surveillance cameras can monitor and record the conditions at each side of the working area. The camera is positioned to avoid any splashback within the working area, minimizing cleaning required

**Intelligent IoT Module (optional)**

An IoT module is an option available to enable users to simply manage the biosafety cabinets, any time anywhere, using our app. The system monitors the cabinet in real-time and alerts in the event of any abnormal alarms. Users can view operational parameters, operation performance curves, event and alarm records as well as other useful information

**Ultra-low Noise, Uniform Airflow**

Designed with dual DC fans, for up to 50% energy savings vs AC motor, meeting the low-noise, energy-saving and high-reliability requirements

**One-touch UV Lamp Operation**

One-button UV lamp timer, learns and retains users' UV lamp usage habits for convenient one-key start-up of the UV lamp timing function

**Foot Switch (optional)**

The foot switch will open or close the front sash to allow users to access samples without direct contact with the sash handle

**Easy to Clean**

The armrest can be removed and the unique drop-down front sash can be removed in seconds to enable easy cleaning and full access to the cabinet interior work space for thorough cleaning/disinfection

**Interlocking Design to Ensure Maximum Safety and Reliability**

UV lamp, front sash, fan and interior light operation are interlocked together to protect against harmful UV rays and to prevent leakage of microorganisms

**PIR Detection**

In intelligent mode, the PIR sensor will detect when the operating area has been clear of personnel for more than 15 minutes and automatically switch to LNS green-saving mode to reduce the noise level, save energy and prolong the service life of filter

## Specifications

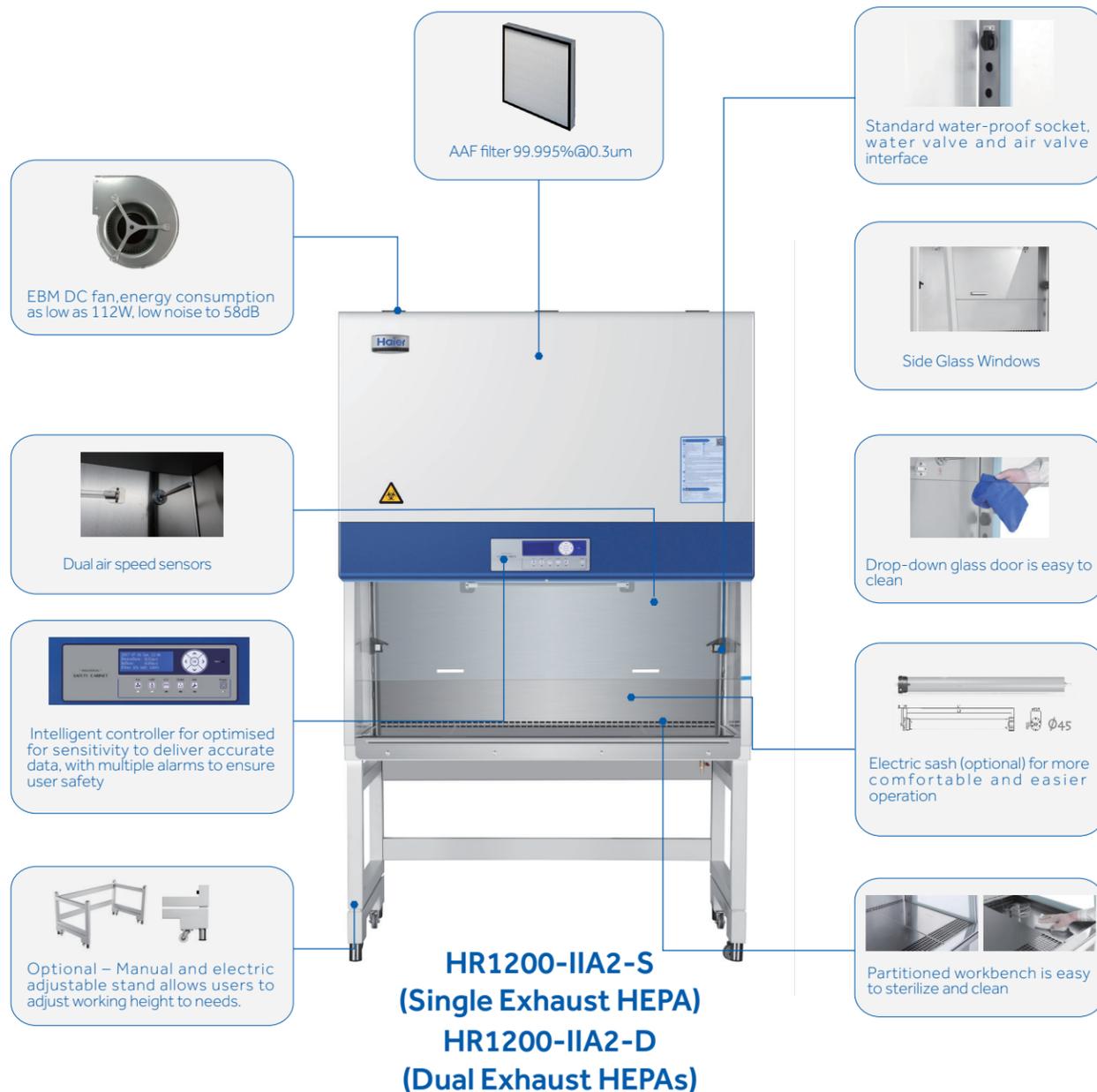
Model		HR1200-IIA2-X	HR1500-IIA2-X	HR1800-IIA2-X	
General Specification	Working Voltage&Frequency (V/Hz)	220-240 50/60	220-240 50/60	220-240 50/60	
	Power (VA)	1600	1670	1850	
	Power of Blower (W)	DC 120, DC 112	DC 190, DC 112	DC 120, DC 112	
	Airflow Circulation	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	
	Main Filter Typical Efficiency	ULPA, U15.99.9995%@0.12um	ULPA, U15.99.9995%@0.12um	ULPA, U15.99.9995%@0.12um	
	Exhaust Filter Typical Efficiency	ULPA, U15.99.9995%@0.12um	ULPA, U15.99.9995%@0.12um	ULPA, U15.99.9995%@0.12um	
	Exhaust Filter	Single	Single	Single	
	Filter's Brand	AAF	AAF	AAF	
	Downflow Velocity (m/s)	0.3	0.3	0.3	
	Inflow Velocity (m/s)	0.45	0.45	0.45	
Lighting Intensity (Lux)	1317	1396	1133		
Sound Level (dB(A))	59.3	61	63.5		
Dimensions	Net/Gross Weight	kg	280/340	320/400	380/465
		lbs	617/750	705/882	838/1025
	Internal Dimensions (W*D*H)	mm	1230*600*655	1530*600*655	1830*600*655
		in	48.4*23.6*25.8	60.2*23.6*25.8	72.0*23.6*25.8
	External Dimensions (W*D*H) (Width without Arm Rest)	mm	1336*845 (790)*2120	1636*845 (790)*2120	1936*845 (790)*2120
		in	52.6*33.3 (31.1)*83.5	64.4*33.3 (31.1)*83.5	76.2*33.3 (31.1)*83.5
	Packing Dimensions (W*D*H)	mm	1400*925*1665	1700*925*1665	2000*925*1665
		in	55.1*36.4*65.6	66.9*36.4*65.6	78.7*36.4*65.6
	Support Stand (mm)		680-900mm adjustable height (standard)	680-900mm adjustable height (standard)	680-900mm adjustable height (standard)
	Sash Opening (mm)		200 (Max 480)	200 (Max 480)	200 (Max 480)
Container Load (20'/40'/40'H)		8/16/16	6/12/12	6/12/12	
Alarms Functions	Alarm	Sound and flash	Sound and flash	Sound and flash	
	Closing Fan Alarm After Door Opening	Y	Y	Y	
	Door Ajar	Y	Y	Y	
	Abnormal Inflow	Y	Y	Y	
	Abnormal Downflow	Y	Y	Y	
	Door Open More than Limit	Y	Y	Y	
	Filter Clogging	Y	Y	Y	
	Filter Damage	Y	Y	Y	
	Filter Lifetime Lack	Y	Y	Y	
	UV Light Lifetime Lack	Y	Y	Y	
Accessories	UV Lamp	Y	Y	Y	
	Socket	2 sockets	2 sockets	2 sockets	
	Valve Port	Optional	Optional	Optional	
	Side Wall Service Taps	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	
	Antimicrobial Coating	Optional	Optional	Optional	
	316SS Work Surface	Optional	Optional	Optional	
	Work Surface	Single-piece	Single-piece	Single-piece	
	Touch Screen	Standard	Standard	Standard	
	Electric Front Sash	Optional	Optional	Optional	
	Foot Switch	Optional	Optional	Optional	
Others	Armrest	Y	Y	Y	
	Exhaust Duct Connection Kits	Optional	Optional	Optional	
	Certification	CE, TUV	CE, TUV	CE, TUV	

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## Biological Safety Cabinet (Single/Double exhaust filter )

### Scope of Application

Suitable for microbiology, biomedicine, biosafety laboratories and other laboratories. It offers three levels of protection-operator, product and environment



### Product Advantages

- Ultra-efficient Filtration**  
 High efficiency moisture proof and flame-retarded filter achieving a retention efficiency of 99.9995% for 0.12 micron solid particle system
- Intelligent Constant Air Velocity System**  
 Designed with intelligent constant air speed technology, which can ensure that the working area could have its downflow and inflow velocities in line with the standard requirements
- Side Glass Windows**  
 Tempered glass side walls increase visibility and prevents the operator from experiencing a "boxed-in" feeling
- Multiple Alarm Functions**  
 Audible and visual alarm functions: filter and UV end-of-life alerts, fan turned-off after door opening alert and door open alarm
- Ergonomic Design**
  - A comfortable platform-type armrest can reduce hand and arm fatigue
  - 10-degree angle inclination design, in accordance with ergonomic principles for more comfortable operation
  - With height adjustable stand, users can adjust the height of the work bench to requirements
- Easy to Clean**  
 The armrest can be removed and the unique drop-down front sash can be removed in seconds to enable easy cleaning and full access to the cabinet interior work space for thorough cleaning/disinfection
- Patented IP-44 Rated Socket with Timer**  
 The sockets can be programmed to supply power at a specified time to meet the users' experiment schedules
- Lower Noise and Airflow Uniformity**  
 DC&EC fans operate with lower noise and deliver excellent air flow uniformity
- PIR Detection**  
 In intelligent mode, the PIR sensor will detect when the operating area has been clear of personnel for more than 15 minutes and automatically switch to LNS green-saving mode to reduce the noise level, save energy and prolong the service life of filter
- UV Lamp**  
 Patented one-button UV lamp technology allows users to automatically activate or deactivate based on usage habits or at specific sterilization intervals to minimise waiting time

## Biological Safety Cabinet (Single/Double exhaust filter )

### Specifications

Model	HR900-IIA2-S	HR1200-IIA2-S	HR900-IIA2-D	HR1200-IIA2-D	
Working Voltage&Frequency (V/Hz)	220-240 50/60	220-240 50/60	220-240 50/60	220-240 50/60	
Power (VA)	1500	1600	1500	1600	
Power of Blower (W)	DC 120W EC170W	DC 120, DC 112	DC 120W EC170W	DC 190, DC 170	
Airflow Circulation	70% Downflow, 30% Exhaust				
Main Filter Typical Efficiency	ULPA, U15.99.9995% @ 0.12um	HEPA, H14.99.9995% @ 0.3um	ULPA, U15.99.9995% @ 0.12um	ULPA, U15.99.9995% @ 0.12um	
Exhaust Filter Typical Efficiency	ULPA, U15.99.9995% @ 0.12um	HEPA, H14.99.9995% @ 0.3um	ULPA*2, U15.99.9995% @ 0.12um	HEPA*2, H14.99.9995% @ 0.3um	
Exhaust Filter	Single	Single	Double	Double	
Filter's Brand	AAF	AAF	AAF	AAF	
Downflow Velocity (m/s)	0.3	0.3	0.3	0.3	
Inflow Velocity (m/s)	0.45	0.45	0.45	0.45	
Lighting Intensity (Lux)	≥1300	≥1000	≥1300	≥1000	
Sound Level (dB(A))	57.1	60	59.7	60	
Net/Gross Weight	kg	290/320	320/339	290/320	320/339
	lbs	639/705	705.5/747.4	639/705	705.5/747.4
Internal Dimensions (W*D*H)	mm	936*620*635	1310*620*635	936*620*635	1310*620*635
	in	36.9*24.4*25	51.6*24.4*25	36.9*24.4*25	51.6*24.4*25
External Dimensions (W*D*H) (Width without Arm Rest)	mm	1002*856(796)*1485	1380*856(796)*2164	1002*856(796)*1485	1380*856(796)*1485
	in	39.5*33.7(31.3)*58.5	54.3*33.7(31.3)*85.2	39.5*33.7(31.3)*58.5	54.3*33.7(31.3)*58.5
Packing Dimensions (W*D*H)	mm	1070*895*1680	1470*920*1690	1070*895*1680	1470*920*1690
	in	42.1*35.2*66.1	57.9*36.2*66.5	42.1*35.2*66.1	57.9*36.2*66.5
Support Stand (mm)	No. 680-900mm adjustable height (optional)	680-900mm adjustable height (standard)	No. 680-900mm adjustable height (optional)	No. 680-900mm adjustable height (optional)	
Sash Opening (mm)	200 (Max 490)	200 (Max 490)	200 (Max 490)	200 (Max 490)	
Container Load (20'/40'/40'H)	12/24/24	8/16/16	12/24/24	8/16/16	
Alarm	Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash	
Closing Fan Alarm After Door Opening	Y	Y	Y	Y	
Door Ajar Alarm	Y	Y	Y	Y	
Abnormal Inflow Alarm	Y	Y	Y	Y	
Abnormal Downflow Alarm	Y	Y	Y	Y	
Door Open More than Limit Alarm	Y	Y	Y	Y	
Filter Clogging Alarm	Y	Y	Y	Y	
Filter Damage Alarm	Y	Y	Y	Y	
Filter Lifetime Lack Alarm	Y	Y	Y	Y	
UV Light Lifetime Lack Alarm	Y	Y	Y	Y	
UV Lamp	Y	Y	Y	Y	
Socket	2 sockets	2 sockets	2 sockets	2 sockets	
Valve Port	Optional	Optional	Optional	Optional	
Side Wall Service Taps	Optional gas tap, vacuum tap, compressed air tap and water tap	Optional gas tap, vacuum tap, compressed air tap and water tap	Optional gas tap, vacuum tap, compressed air tap and water tap	Optional gas tap, vacuum tap, compressed air tap and water tap	
Antimicrobial Coating	Optional	Optional	Optional	Optional	
316SS Work Surface	Optional	Optional	Optional	Optional	
Work Surface	Three-pieces	Four-pieces	Three-pieces	Three-pieces	
Touch Screen	/	/	/	/	
Electric Front Sash	Optional	Optional	Optional	Optional	
Foot Switch	Optional	Optional	Optional	Optional	
Armrest	Y	Y	Y	Y	
Exhaust Duct Connection Kits	Optional	Optional	Optional	Optional	
Others	Certification	CE, UKCA	CE, UKCA, TUV	CE, UKCA	CE, UKCA, TUV

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## Biological Safety Cabinet

### Scope of Application

This Class II microbiological safety cabinet is designed to protect the operator, laboratory environment and samples from being exposed to the infective aerosol produced from samples with bacteria strains, diagnostic materials, and other infective substances. It provides the operator with comfortable and safer working conditions. It is widely used in medical health, disease prevention, food safety, biological pharmacy and environment monitoring.



## Biological Safety Cabinet

### Product Advantages

- V V-shaped Air Inlet**

The V-shaped air inlet can prevent the samples or arms of operator from blocking the air flow. The work surface can be easily lifted using the handles for cleaning purposes
- One-touch UV Lamp Operation**

UV lamp records and remembers users' setting and habits and can be preset with a startup delay with one-key operation for ease and convenience
- Energy Conservation**

**PIR detection**

In intelligent mode, the PIR sensor will detect when the operating area has been clear of personnel for more than 15 minutes and automatically switch to LNS green-saving mode to reduce the noise level, save energy and prolong the service life of filter
- Ergonomic**

  - **10° inclination design of cabinet body**

The front operation interface has an ergonomic design of 10° inclination for ensuring more comfortable operation

  - **Stainless steel armrest**

A comfortable platform-type armrest can reduce hand and arm fatigue
- Easy to Clean**

The armrest can be removed and the unique drop-down front sash can be removed in seconds to enable easy cleaning and full access to the cabinet interior work space for thorough cleaning/disinfection
- Intelligent**

**Constant airflow velocity**

The hot-bulb airflow velocity transducer performs real-time monitoring of the air velocity of the working area, compares it with the standard air velocity, and keeps a constant air velocity in the cabinet by regulating the fan speed with a microcomputer system
- IP 44 Rated Power Sockets with Timer**

The sockets can be programmed to supply power at a specified time to meet the users' demands for timing of experiments
- Safe**

  - **Abnormal operation condition alarm**

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

  - **Patented technology: filter end-of-life reminder**

Pressure transducer monitors the resistance variation of filter to determine the remaining life of filter and will remind the user by warning when the remaining life is below 10%

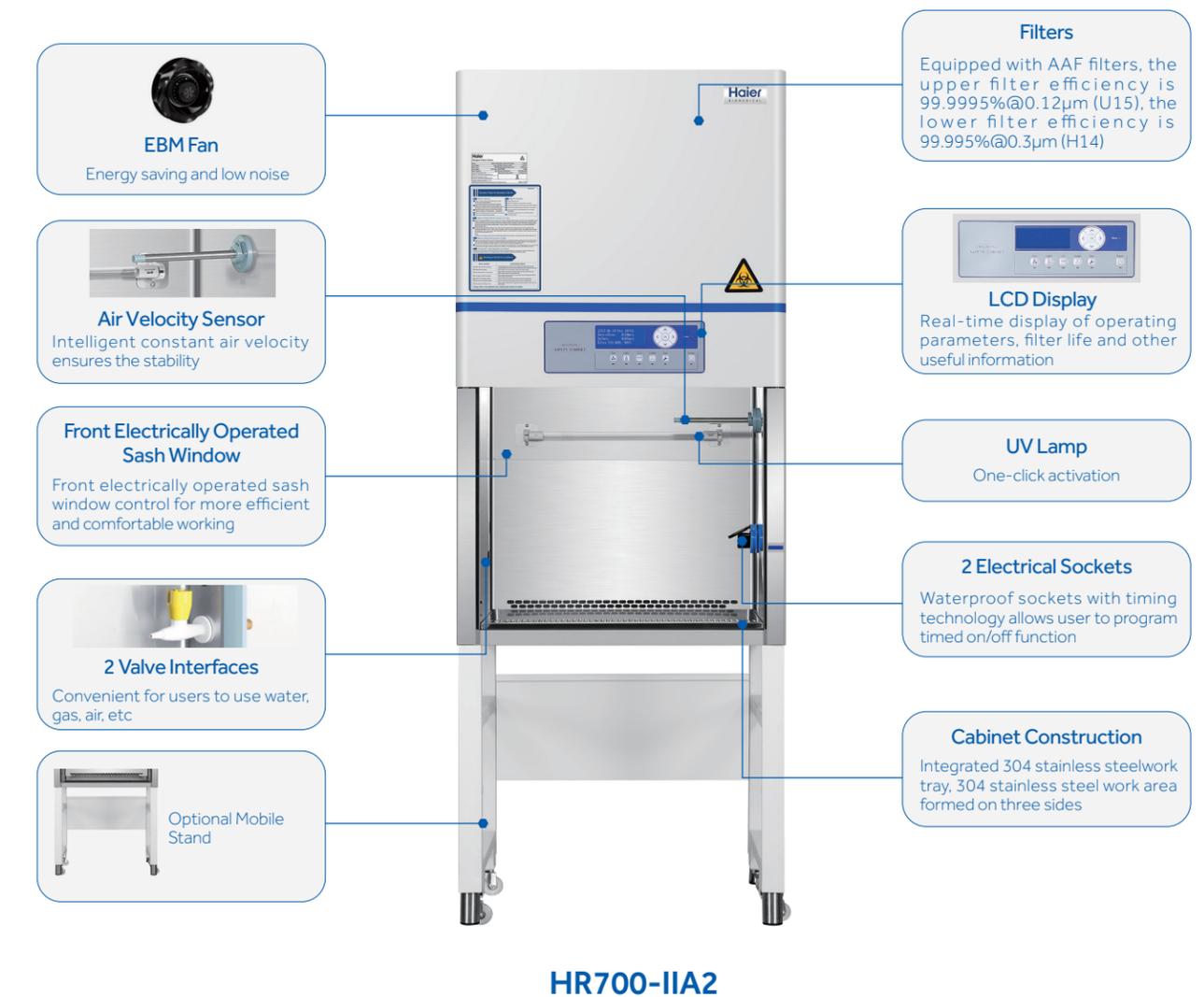
  - **Patented technology: UV lamp end-of-life reminder**

The microcomputer will add up the service time of UV lamp, and will remind by warning the user to replace the UV lamp when its remaining life is less than 10%
- Offers a Broad Range of Sizes to Fit any Available Laboratory Space**

## Mini Biological Safety Cabinet

### Scope of Application

Small size microbiological safety cabinet for single person operations and small working spaces, suitable for testing stations within warehouse, airports and mobile laboratories.



## Mini Biological Safety Cabinet

### Product Advantages



#### Safe and Reliable

Adopts AAF filters, class 1 cleanliness to provide maximum protection for people, environment and samples



#### LCD Display

LCD screen displays various parameters and service life of accessories in real time, and the operational condition of the equipment is clear at a glance



#### One-click Operation

UV lamp one-click reservation allows users to set 0 min to 24 hours of automatic on/off time and sterilization interval, reducing the waiting time



#### Two Waterproof Sockets

Sockets include timing technology to allow users to program socket on/off times



#### Interlocking Function

The product features an interlocking function between UV disinfection, fluorescent lamp, front sash and fan



#### Alarms

Audible and visual alarm functions: hardware failure alarm, operation parameter overrun alarm, filter and UV lamp life warning



#### Uniform Airflow

The EBM fan, combined with Haier Biomedical's professional air distribution design, provides lower noise operation and a uniform air flow



#### Safety Certified

Complies with EN12469



### Specifications

Model		HR700-IIA2	HR900-IIA2	HR1200-IIA2	HR1500-IIA2	
General Specification	Working Voltage&Frequency (V/Hz)	220-240 50	220-240 50	220-240 50	220-240 50	
	Power (VA)	1200	1500	1500	1900	
	Power of Blower (W)	210W	AC L=330, M=465, H=735	AC L=330, M=465, H=735	AC 650	
	Airflow Circulation	70% Downflow,30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	
	Main Filter Typical Efficiency	HEPA, H14,99.9995%@0.3um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	
	Exhaust Filter Typical Efficiency	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	HEPA, H14,99.9995%@0.3um	HEPA, H14,99.9995%@0.3um	
	Exhaust Filter	Single	Single	Single	Single	
	Filter's Brand	AAF	AAF	AAF	AAF	
	Downflow Velocity (m/s)	0.30	0.33	0.34	0.31	
	Inflow Velocity (m/s)	0.53	0.55	0.55	0.55	
	Lighting Intensity (Lux)	≥780	≥900	≥900	≥900	
	Sound Level (dB(A))	65	60	60	62	
Dimensions	Net/Gross Weight	kg	100/130	290/310	320/339	350/393
		lbs	220.4/286.52	639.3/683.4	705.5/747.4	771.6/866.4
	Internal Dimensions (W*D*H)	mm	600*550*540	920*620*650	1220*620*650	1520*620*650
		in	23.62*21.65*21.26	36.2*24.4*25.6	48.0*24.4*25.6	59.9*24.4*25.6
	External Dimensions (W*D*H) (Width without Arm Rest)	mm	700*720*1200	1080*845 (790)*2160	1380*845 (790)*2160	1680*845 (790)*2160
		in	27.56*28.35*47.24	42.5*33.3 (31.1)*85.0	54.3*33.3 (31.1)*85.0	66.1*33.5 (31.1)*85.0
	Packing Dimensions (W*D*H)	mm	795*790*1370	1145*920*1690	1470*920*1690	1755*920*1690
		in	31.3*31.1*53.93	45.1*36.2*66.5	57.9*36.2*66.5	69.1*36.2*66.5
	Support Stand (mm)		No.700mm (optional)	680-900mm adjustable height (standard)	680-900mm adjustable height (standard)	680-900mm adjustable height (standard)
	Sash Opening (mm)		200 (Max)	200 (Max 490)	200 (Max 490)	200 (Max 490)
Container Load (20'/40'/40'H)		14/28/28	12/24/24	8/16/16	6/12/12	
Alarms Functions	Alarm	Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash	
	Closing Fan Alarm After Door Opening	Y	Y	Y	Y	
	Door Ajar Alarm	Y	Y	Y	Y	
	Abnormal Inflow Alarm	Y	Y	Y	Y	
	Abnormal Downflow Alarm	Y	Y	Y	Y	
	Door Open More than Limit Alarm	Y	Y	Y	Y	
	Filter Clogging Alarm	Y	Y	Y	Y	
	Filter Damage Alarm	Y	Y	Y	Y	
	Filter Lifetime Lack Alarm	Y	Y	Y	Y	
	UV Light Lifetime Lack Alarm	Y	Y	Y	Y	
Accessories	UV Lamp	Y	Y	Y	Y	
	Socket	2 sockets	2 sockets	2 sockets	2 sockets	
	Valve Port	Optional	Standard with 2 valve port	Standard with 2 valve port	Standard with 2 valve port	
	Side Wall Service Taps	Optional gas tap, vacuum tap, compressed air tap and water tap	Standard gas tap and vacuum tap; optional compressed air tap and water tap	Standard gas tap and vacuum tap; optional compressed air tap and water tap	Standard gas tap and vacuum tap; optional compressed air tap and water tap	
	Antimicrobial Coating	Optional	Optional	Optional	Optional	
	316SS Work Surface	Optional	Optional	Optional	Optional	
	Work Surface	Single-piece	Single-piece	Single-piece	Single-piece	
	Touch Screen	/	/	/	/	
	Electric Front Sash	Standard	Optional	Optional	Optional	
	Foot Switch	Optional	Optional	Optional	Optional	
Others	Armrest	/	Y	Y	Y	
	Exhaust Duct Connection Kits	/	Optional	Optional	Optional	
	Certification	CE, TUV	CE, UKCA, TUV	CE, UKCA, TUV	CE, UKCA, TUV	

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## Classic Series Biological Safety Cabinet (Type A2)

### Scope of Application

Professional partial air purification equipment, it is suitable for cell biology, microbiology, biomedicine, biosafety and other related laboratories.



HR30-IIA2

## Classic Series Biological Safety Cabinet (Type A2)

### Product Advantages

- Patented air flow blocking technology is designed at the upper edge and both edges of front window to eliminate the exposure of microorganisms
- Real-time display of key parameters: down-flow velocity, inflow velocity, airflow volume, static pressure, negative pressure, accumulative running time off an accumulative running time of UV lamp, and remaining life of filter
- The internal walls on three sides of operation area is constructed by a single plate, and the 12mm arc angle corner for optimal cleaning
- The volume of liquid tank is over 4L, designed with outlet valve for convenient cleaning and maintenance
- Quality 304 stainless steel work surface without screws, no accumulation of contaminant
- Safe**
  - Abnormal operation condition alarm**  
Audible and visual alarms in form of voice or text will be present when air turbulence level exceeds 20% and door height (high or low)
  - Filter end-of-life reminder**  
Pressure transducer monitors the resistance variation of filter to determine the remaining life of filter and reminds the user by warning when the remaining life is below 10%
  - UV lamp end-of-life reminder**  
The microcomputer records service times of the UV lamp and will alert the user to replace the UV lamp when its remaining life is less than 10%
  - Interlocking feature to ensure high safety and reliability**  
Patented technology: UV lamp interlocking control UV lamp, sash, fan and interior light operation are interlocked together to protect against harmful UV rays and to prevent leakage of microorganisms
- Audible and visual alarms for abnormal parameters
- Digital LCD screen
- Dismountable air in-flow plate, easy to clean and sterilize
- UV lamp one-click reservation allows users to set 0 min to 24 hours of automatic on/off time and sterilization interval, reducing the waiting time
- Professional**  
**Digital display of operating parameters**  
Real-time digital display of down flow, inflow, exhaust volume, filter remaining life, UV lamp remaining life, negative pressure and positive pressure

## Specifications

Model		HR30-IIA2	HR40-IIA2		
General Specification	Working Voltage&Frequency (V/Hz)	220-240 50/60	115/60	220-240 50/60	
	Power (VA)	1300	1300	1300	
	Power of Blower (W)	AC 540/625	AC 540/625	AC 540/625	
	Airflow Circulation	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	
	Main Filter Typical Efficiency	ULPA, U15.99.9995%@0.12um	ULPA, U15.99.9995%@0.12um	ULPA, U15.99.9995%@0.12um	
	Exhaust Filter Typical Efficiency	HEPA, H14.99.995%@0.3um	HEPA, H14.99.995%@0.3um	HEPA, H14.99.995%@0.3um	
	Exhaust Filter	Single	Single	Single	
	Filter's Brand	AirePlus	AAF	AAF	
	Downflow Velocity (m/s)	0.3	0.28	0.3	
	Inflow Velocity (m/s)	0.53	0.55	0.53	
	Lighting Intensity (Lux)	≥1100	≥1200	≥1200	
	Sound Level (dB(A))	61	64	64	
	Bench or Stand Only	Stand only	Stand only	Stand only	
	Dimensions	Net/Gross Weight	kg	220/248	258/305
lbs			485/546.7	568.8/672.4	568.8/672.4
Internal Dimensions (W*D*H)		mm	900*610*680	1167*610*680	1167*610*680
		in	35.4*24.0*26.8	45.9*24.0*26.8	45.9*24.0*26.8
External Dimensions (W*D*H)		mm	1100*820*2200	1360*820*2200	1360*820*2200
		in	43.3*32.3*86.6	53.5*32.3*86.6	53.5*32.3*86.6
Packing Dimensions (W*D*H)		mm	1155*905*1720	1415*905*1720	1415*905*1720
		in	45.5*35.6*67.7	55.7*35.6*67.7	55.7*35.6*67.7
Support Stand (mm)		680mm (standard), 680-900mm adjustable height (optional)	680mm (standard), 680-900mm adjustable height (optional)	680mm (standard), 680-900mm adjustable height (optional)	
Sash Opening (mm)		190 (Max 490)	190 (Max 490)	190 (Max 490)	
Container Load (20'/40'/40'H)		10/20/20	8/16/16	8/16/16	
Alarms Functions	Alarm	Sound and Flash	Sound and Flash	Sound and Flash	
	Closing Fan Alarm After Door Opening	Y	Y	Y	
	Door Ajar	Y	Y	Y	
	Abnormal Inflow	Y	Y	Y	
	Abnormal Downflow	Y	Y	Y	
	Door Open More than Limit	Y	Y	Y	
	Filter Clogging	Y	Y	Y	
	Filter Damage	Y	Y	Y	
	Filter Lifetime Lack	Y	Y	Y	
	UV Light Lifetime Lack	Y	Y	Y	
Accessories	UV Lamp	Y	Y	Y	
	Socket	1 Socket	1 Socket	1 Socket	
	Valve Port	Standard with 2 Valve Port	Standard with 2 Valve Port	Standard with 2 Valve Port	
	Side Wall Service Taps	Standard gas tap and vaccum Tap; optional compressed air tap and water tap	Standard gas tap and vaccum Tap; optional compressed air tap and water tap	Standard gas tap and vaccum Tap; optional compressed air tap and water tap	
	Antimicrobial Coating	Optional	Optional	Optional	
	316SS Work Surface	Optional	Optional	Optional	
	Work Surface	Single-piece	Single-piece	Single-piece	
	Touch Screen	/	/	/	
	Electric Front Sash	/	/	/	
	Foot Switch	/	/	/	
	Armrest	Y	Y	Y	
	Exhaust Duct Connection Kits	Optional	Optional	Optional	
Others	Certification	CE, TUV	/	CE, TUV	

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## Classic Series Biological Safety Cabinet (Type B2)

### Scope of Application

Professional partial air purification equipment, it is suitable for cell biology, microbiology, biomedicine, biosafety and other related laboratories.

### Product Advantages

-  100% exterior exhaust
-  4m corrosion-resistant corrugated hose (standard)
-  Haier Biomedical exterior exhaust fan (optional)
-  Interlocking between safety cabinet and exterior exhauster, enables remote control of exterior exhauster parameters with safety cabinet



HR40-IIB2

## Specifications

Model		HR40-IIB2	
General Specification	Working Voltage&Frequency (V/Hz)	220-240 50/60	
	Power (VA)	1700	
	Power of Blower (W)	AC 115	
	Airflow Circulation	100% Exhaust	
	Main Filter Typical Efficiency	ULPA, U15.99.9995%@0.12um	
	Exhaust Filter Typical Efficiency	HEPA, H14.99.9995%@0.3um	
	Exhaust Filter	Single	
	Filter's Brand	AAF	
	Downflow Velocity (m/s)	0.28	
	Inflow Velocity (m/s)	0.55	
	Lighting Intensity (Lux)	≥1200	
	Sound Level (dB(A))	64	
	Bench or Stand Only	Stand only	
Dimensions	Net/Gross Weight	kg	252/308
		lbs	555.6/679.0
	Internal Dimensions (W*D*H)	mm	1167*610*680
		in	45.9*24.0*26.8
	External Dimensions (W*D*H)	mm	1360*820*2330
		in	53.5*32.3*91.7
	Packing Dimensions (W*D*H)	mm	1415*905*1910
		in	55.7*35.6*75.2
Support Stand (mm)	680mm (standard), 680-900mm adjustable height (optional)		
Sash Opening (mm)	190 (Max 490)		
Container Load (20'/40'/40'H)	8/16/16		
Alarms Functions	Alarm	Sound and Flash	
	Closing Fan Alarm After Door Opening	Y	
	Door Ajar	Y	
	Abnormal Inflow	Y	
	Abnormal Downflow	Y	
	Door Open More than Limit	Y	
	Filter Clogging	Y	
	Filter Damage	Y	
	Filter Lifetime Lack	Y	
	UV Light Lifetime Lack	Y	
Accessories	UV Lamp	Y	
	Socket	1 Socket	
	Valve Port	Standard with 2 Valve Port	
	Side Wall Service Taps	Standard gas tap and vaccum tap; optional compressed air tap and water tap	
	Antimicrobial Coating	Optional	
	316SS Work Surface	Optional	
	Work Surface	Single-piece	
	Touch Screen	/	
	Electric Front Sash	/	
	Foot Switch	/	
Others	Armrest	Y	
	Exhaust Duct Connection Kits	/	
	Certification	CE, TUV	

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## Animal Containment Workstation

### Scope of Application

Applicable for laboratory animal operations (surgery, weighing, etc.) in experimental animal centers of scientific research institutions, hospitals, colleges and universities, or experimental animal research and development projects and breeding institutions.



HR1500-IIA2-DW

## Animal Containment Workstation

### Product Advantages

-  **Low Maintenance Costs**  
 Experimental animal hair and debris are captured to eliminate the impact of hair debris and other debris on the service life of the fans and filters which ensures the cabinet is more durable
-  **Sectioned Pre-filter**  
 The interior of the sectioned pre-filter is easy to clean, and the pre-filter with a rear-mounted work surface is designed in sections, meaning the filter is easy to disassembled and sterilized as needed
-  **The Dual System Ensures Maximum Safety**  
 Each independent-controlled down flow and inlet airflow system is designed with dual fans, which ensures the stable airflow in the cabinet even if the pre-filter is 50% blocked. In the case of either damage to either fan, the air supply and exhaust system ensure safe air and protection
-  **Stable Laminar Flow Offers Safety**  
 The intelligent constant air speed design means that if abnormal air velocity is detected the fan adjust automatically to ensure the air speed stay within normal range

### Product Features

-  **Safety Interlock**  
 Ultraviolet lamp, sash window, fans, and lamps are interlocked to eliminate hidden dangers of ultraviolet and microorganism leakage
-  **Traceable**  
 The work area in the cabinet is monitored by camera and the images are stored for future reference (optional)
-  **Real-time Status Display**  
 The digital screen displays in real time the flow rate of downflow and inflow airflow, the volume of discharged air, the temperature and humidity of the working area, the remaining service life of the filter, the UV lamp, the pressure in the negative pressure area, and positive pressure area. Users are alerted if abnormal operation is detected
-  **Electric Foot Switch**  
 When it is inconvenient to open the safety cabinet door with both hands, the electric front sash can be opened by foot switch (optional)

### Specifications

Model	HR1500-IIA2-DW
Power (W)	1400
Downflow Velocity (m/s)	0.3
Inflow Velocity (m/s)	0.53
Lighting Intensity (Lux)	≥1100
Net/Gross Weight (kg)	350/400
Interior Dimensions (W*D*H)(mm)	1530*600*653
Exterior Dimensions (W*D*H)(mm)	1636*790*2170
Packing Dimensions (W*D*H)(mm)	1700*925*1715
Container Load (20'/40'/40'H)	6/12/12

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## Laminar Flow Cabinet

### Scope of Application

A professional localized air purification equipment suitable for pharmaceuticals, medical and health, scientific research laboratories of universities and colleges, photoelectric/microelectronics manufacturing and other fields



Horizontal Airflow

### Product Advantages

-  Moisture-proof and flame-retardant glass fiber high efficiency particulate air filters (HEPA), ensure a filtration efficiency of 99.99% or above for particles of 0.3µm or above
-  With the industry's first pre-cleaning function: namely pre-cleaning the workspace before sample treatment so as to further improve the protection of samples
-  The air cleanliness conforms to Class 5 of the ISO14644.1 Standard, and is better than Class 100 cleanliness requirements
-  **One-key operation, convenient and secure:**
  - With a timed UV lamp turn off function, it is adjustable between 0 and 99 minutes
  - With the lighting lamp and UV lamp interlock function; the UV lamp can only be lit when the lighting lamp is off. The UV lamp is turned off immediately if the fluorescent lighting is turned on to prevent mis-operation
-  Built-in lighting prevents exposure to fluorescent lamp to avoid eye stain

# Laminar Flow Cabinet



## Specifications

Model	HCB-900V	HCB-1300V	HCB-1600H			
General Specification	Flow Type	Vertical	Vertical	Vertical	Horizontal	
	Voltage/Frequency	220/50	115/60	220/50	220/50/60	
	Power (W)	1200	1200	1200	350	
	Vibration Amplitude (UM)	2	2	2	2	
	Exhaust Filter Typical Efficiency	H13 HEPA, 99.99% @ 0.3µm				
	Average Velocity (M/S)	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	
	Lighting Intensity (Lux)	≥300	≥300	≥300	≥1000	
	Sound Level (dB(A))	60	60	60	61	
	Dimensions	Working Height of Front Window (mm)	Max 310	Max 310	Max 310	/
		Net/Gross Weight	kg	115/145	145/171	145/171
lbs			254/319	320/376	320/376	363.7/471
Internal Dimensions (W*D*H)		mm	900*530*520	1300*530*520	1300*530*520	1710*550*750
		in	35.4*20.9*20.5	51.2*20.9*20.5	51.2*20.9*20.5	67.3*21.7*29.6
External Dimension (W*D*H)		mm	970*630*1730	1370*630*1730	1370*630*1730	1780*790*1960
		in	38.2*24.8*68.1	53.9*24.8*68.1	53.9*24.8*68.1	70.1*31.1*77.2
Packing Dimensions (W*D*H)		mm	1105*745*1280	1505*745*1280	1505*745*1280	1865*940*1370
		in	43.5*29.3*50.4	59.3*29.3*50.4	59.3*29.3*50.4	73.4*37.0*53.9
UV Lamp		Y	Y	Y	Y	
Power Outlet Socket	Y	Y	Y	/		
Conversion Socket	Optional	Optional	Optional	/		
Supporter	755mm (standard)	755mm (standard)	755mm (standard)	765mm (standard)		
Cleanliness Classification	ISO 14644.1 Class 5	ISO 14644.1 Class 5	ISO 14644.1 Class 5	ISO 14644.1 Class 5		
Container Load (20'40'40'H)	15/33/33	10/25/25	10/25/25	6/12/12		
Accessories	UV Lamp	Y	Y	Y	Y	
	Socket	1 Socket	1 Socket	1 Socket	Optional	
	Valve Port	Optional	Optional	Optional	Optional	
	Side Wall Service Taps	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	
	Antimicrobial Coating	Optional	Optional	Optional	Optional	
	316SS Work Surface	Optional	Optional	Optional	Optional	
	Work Surface	Single-piece	Single-piece	Single-piece	Single-piece	
	Touch Screen	/	/	/	/	
	Electric Front Sash	/	/	/	/	
	Foot Switch	/	/	/	/	
Armrest	Y	Y	Y	Y		
Exhaust Duct Connection Kits	/	/	/	/		
Others	Certification	CE	/	CE	CE	

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## Laminar Flow Cabinet



### Product Advantages

-  Positive pressure chamber design ensures air velocity uniformity and forms effective seal
-  Ergonomic cabinet design with a 10° inclination, to improve user comfort during operation
-  The workspace is made of easy-to-clean, high-quality, anti-corrosion 304 stainless steel
-  The front sash window and the left & right- side glass panels are all non-reflective tempered UV glass to maximise natural light during operation, which also makes the glass easy to clean
-  Designed with access ports on left and right sides, easy and convenient to mount valves such as gas supply

## Laminar Flow Cabinet

### Specifications

Model	HCB-900VS	HCB-1300VS	HCB-1600VS		
General Specification	Flow Type	Vertical	Vertical	Vertical	
	Voltage/Frequency	220/50/60	220/50/60	220/50/60	
	Power (W)	1200/1350	1350	1200/1350	
	Vibration Amplitude (UM)	2	2	2	
	Exhaust Filter Typical Efficiency	H13 HEPA, 99.99%@0.3um	H13 HEPA, 99.99%@0.3um	H13 HEPA, 99.99%@0.3um	
	Average Velocity (M/S)	0.20-0.50	0.20-0.50	0.20-0.50	
	Lighting Intensity (Lux)	≥400	≥600	≥1000	
	Sound Level (dB(A))	63	60	63	
	Dimensions	Working Height of Front Window (mm)	Max 360	Max 360	Max 360
		Net/Gross Weight	kg	140/166	180/232
lbs			308.6/366	397/511.5	445.3/573
Internal Dimensions (W*D*H)		mm	900*510*550	1300*510*550	1600*510*550
		in	35.4*20.1*21.7	51.2*20.1*21.7	60.0*20.1*21.7
External Dimension (W*D*H)		mm	970*640*1820	1370*640*1820	1670*640*1820
		in	38.2*25.2*71.7	53.9*25.2*71.7	65.7*25.2*71.7
Packing Dimensions (W*D*H)		mm	1083*772*1467	1470*810*1290	1760*810*1285
		in	46.2*30.4*57.8	57.9*31.9*50.8	69.3*31.9*50.6
UV Lamp		Y	Y	Y	
Power Outlet Socket	Y	Y	Y		
Conversion Socket	Optional	Optional	Optional		
Supporter	750	750mm (standard)	750		
Cleanliness Classification	ISO 14644.1 Class 4	ISO 14644.1 Class 4	ISO 14644.1 Class 4		
Container Load (20'40'40'H)	15/33/33	11/22/22	7/14/14		
Accessories	UV Lamp	Y	Y	Y	
	Socket	1 socket	1 socket	1 socket	
	Valve Port	2 on each side	2 on each side	2 on each side	
	Side Wall Service Taps	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	
	Antimicrobial Coating	Optional	Optional	Optional	
	316SS Work Surface	Optional	Optional	Optional	
	Work Surface	Single-piece	Single-piece	Single-piece	
	Touch Screen	/	/	/	
	Electric Front Sash	/	/	/	
	Foot Switch	/	/	/	
Armrest	Y	Y	Y		
Exhaust Duct Connection Kits	/	/	/		
Others	Certification	NMPA	NMPA	NMPA	

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