

# **Laboratory Protection Clean Air Solutions**

Your Haier Biomedical Partner



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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



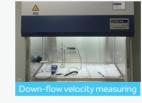








# **Strict QC Tests and Pre-delivery Inspections**















#### >> 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

**Haier** Biomedical Laboratory Protection Clean Air Solutions

# 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**







Drug storehouse Admixture and preparation area Finished product area Common drugs and nutrients admixture room Antibiotics and cytotoxic drugs admixture room

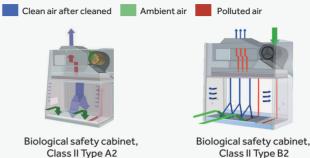
Medical kits Biological safety cabinets Horizontal flow clean benches Computers TVs Washing machines

- Carts Drug baskets
- Shelves
- Printers, bar codes

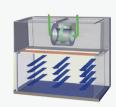
- - Drug admixture and prescription system • Drug management system

# Differences between Biological Safety Cabinet and Laminar Flow Cabinet

#### >> Working Principles







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	Negative pressure	High efficiency	√	√	,
Biological safety cabinet, Class II, Type B2	100% discharged to outdoor space	other hazardous samples	(Air pulled into cabinet)				V
Vertical laminar flow clean bench	100% discharged to indoor space	Operation of non-hazardous	Positive pressure (Supply air to space				
Horizontal laminar flow clean bench	100% discharged to indoor space	bacteria, PIVAS	outside of cabinet)			√	X

# **Model Selection Guide for Biological Safety Cabinet**

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

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# **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  $\mu m$  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 06

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# **NSF Series Biological Safety Cabinet**

# Specifications

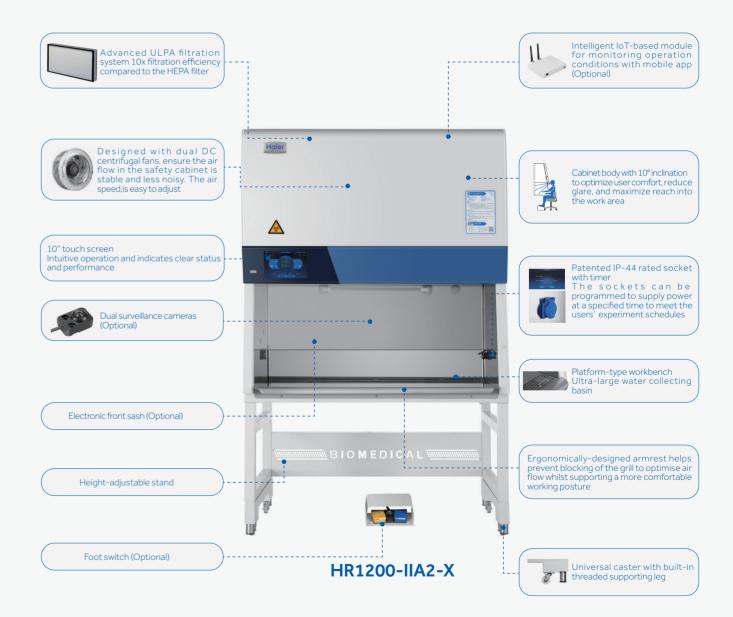
	Model		HR900-IIA2-N	HR1200-IIA2-N	HR1500-IIA2-N	HR1800-IIA2-N
	Power Supply(V/Hz)		100~230/50/60	100~230/50/60	100~230/50/60	100~230/50/60
	Power (VA)		1300	1300	1400	1400
	Power of Blower (W)		DC 190W 112W	DC 120W 112W	DC 190W 112W	DC 120W 112W
	Airflow Circulation		70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust
General	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
Specification	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	TBD	1292
	Sound Level (dB(A))		67	64	TBD	67
	Net/Gross Weight	kg	225/280	275/335	325/376	375/460
	Net/Gloss Weight	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
	internal Birneriore (V B 11)	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)	mm	1040*850(790)*2160	1340*850(790)*2160	1640*850(790)*2160	1940*850(790)*2160
	(Width without Armrest)	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
Dimensions	D1: D: (M/*D*II)	mm	1105*935*1720	1435*945*1700	1705*940*1720	2038*945*1700
	Packing Dimensions (W*D*H)	in	43.5*36.8*67.7	56.5*37.2*66.9	67.1*37.0*67.7	80.2*37.2*66.9
	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 Op	ening	Y	Y	Υ	Y
	Door Ajar		Y	Y	Υ	Y
Alarms	Abnormal Inflow		Y	Y	Υ	Y
Functions	Abnormal Downflow		Y	Y	Υ	Y
	Door Open More than Limit		Y	Y	Υ	Y
	Filter Clogging		Y	Y	Υ	Y
	Filter Damage		Y	Y	Υ	Y
	Filter Lifetime Lack		Y	Y	Y	Y
	UV Light Lifetime Lack		Y	Y	Υ	Y
	UV Lamp		Y	Y	Υ	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
A	Antimicrobial Coating		Optional	Optional	Optional	Optional
Accessories	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		One-piece	One-piece	One-piece	One-piece
	Touch Screen		Optional	Optional	Optional	Optional
	Motorized Window		N	N	N	N
	Foot Switch		N	N	N	N
	Armrest		Y	Y	Y	Y
	Exhaust Duct Connection Kits		Optional	Optional	Optional	Optional
Others	Certification		UL, NSF	UL, NSF	UL, NSF	UL, NSF

<sup>\*</sup>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.



07 | NSF Series Biological Safety Cabinet | 08

# **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



	Model		HR1200-IIA2-X	HR1500-IIA2-X	HR1800-IIA2-X
	Power Supply(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%@0.12un
	Exhaust Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12un
General	Exhaust Filter		Single	Single	Single
Specification	Filter's Brand		AAF	AAF	AAF
	Downflow Velocity (m/s)		0.30	0.30	0.30
	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
		kg	280/340	320/400	380/465
	Net/Gross Weight	lbs	617/750	705/882	838/1025
		mm	1230*600*655	1530*600*655	1830*600*655
	Internal Dimensions (W*D*H)	in	48.4*23.6*25.8	60.2*23.6*25.8	72.0*23.6*25.8
	External Dimensions (W*D*H)	mm	1336*845(790)*2120	1636*845(790)*2120	1936*845(790)*2120
Dimensions	(Width without Armrest)	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
JIIII EII SIOII S		mm	1435*945*1700	1720*945*1700	2038*945*1700
	Packing Dimensions (W*D*H)		56.5*37.2*66.9	67.7*37.2*66.9	80.2*37.2*66.9
	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
	Alarm		Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Opening		Υ	Y	Υ
	Door Ajar		Y	Y	Υ
	Abnormal Inflow		Y	Y	Y
Alarms	Abnormal Downflow		Y	Y	Y
Functions	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	Y
	UV Lamp		<u> </u>	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
Accessories	Work Surface		One-piece	One-piece	One-piece
	Touch Screen		Y	Y	Y
	Motorized Window		Optional	Optional	Optional
	Foot Switch		Optional	Optional	Optional
	Armrest		Y	Y	Y
	Exhaust Duct Connection Kits		Optional	Optional	Optional
Others	Certification		CE	CE	CE

 $\hbox{^*Haier Biomedical reserves the right to change products and specifications without prior notice}\\$ 

09 | Smart IoT Series Biological Safety Cabinet | 10

# 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



# 



#### **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



#### Lower Noise and Airflow Uniformity

DC&EC fans operate with lower noise and deliver excellent air flow uniformity



#### 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



#### **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



#### 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

11 | Biological Safety Cabinet (Single/Double exhaust filter)

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# **Biological Safety Cabinet (Single/Double Exhaust Filter)**

# Specifications

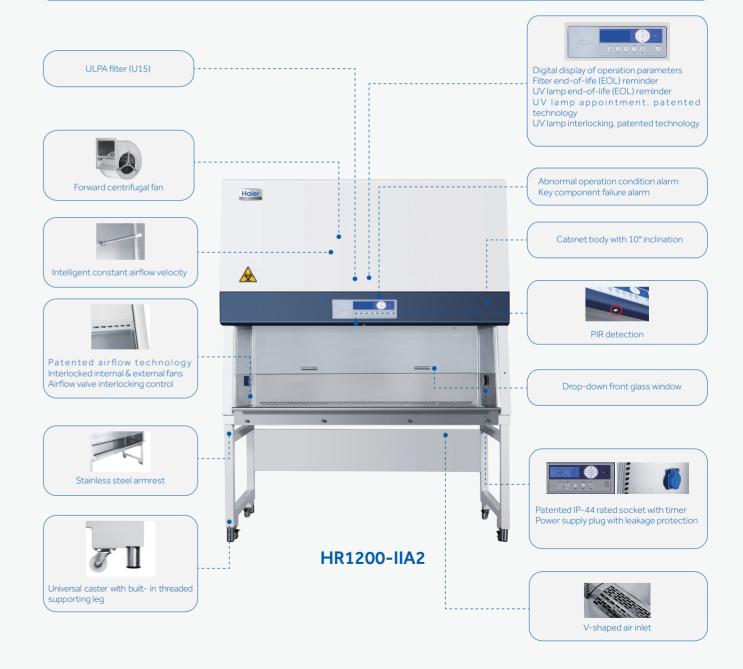
	Model		HR900-IIA2-S	HR1200-IIA2-S	HR900-IIA2-D	HR1200-IIA2-D
	Power Supply(V/Hz)		220-240/50/60	220-240/50/60	220-240/50/60	220-240/50/60
-	Power (VA)		1500	1600	1500	1600
-	Power of Blower (W)		DC 120W EC170W	DC 120, DC 112	DC 120W EC170W	DC 190, DC 170
-	Airflow Circulation		70% Downflow,30% Exhaust	70% Downflow,30% Exhaust	70% Downflow,30% Exhaust	70% Downflow,30% Exhaus
	Main Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	HEPA, H14,99.995%@0.3um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um
General Specification	Exhaust Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	HEPA, H14,99.995%@0.3um	ULPA×2, U15,99.9995%@0.12um	HEPA×2, H14,99.995%@0.3um
Specification	Exhaust Filter		Single	Single	Dual	Dual
	Filter's Brand		AAF	AAF	AAF	AAF
	Downflow Velocity (m/s)		0.30	0.30	0.30	0.30
	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
	internal Dimensions (W D 11)	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)	mm	1002*856(796)*1485	1380*856(796)*2164	1002*856(796)*1485	1380*856(796)*1485
Dimensions	(Width without Armrest)	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
Diffictions	S. I. S	mm	1185*925*1720	1475*935*1720	1105*932*1730	1475*935*1720
	Packing Dimensions (W*D*H) in		46.7*36.4*67.7	58.1*36.8*67.7	43.5*36.7*68.1	58.1*36.8*67.7
	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)		11/21/21	8/16/16	11/21/21	8/16/16
	Alarm		Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Ope	ening	Y	Y	Y	Y
	Door Ajar Alarm		Y	Y	Y	Y
	Abnormal Inflow Alarm		Y	Y	Y	Y
Alarms	Abnormal Downflow Alarm		Y	Y	Y	Y
Functions	Door Open More than Limit Alarn	n	Y	Y	Y	Y
	Filter Clogging Alarm		Y	Y	Y	Y
	Filter Damage Alarm		Υ	Y	Υ	Υ
	Filter Lifetime Lack Alarm		Υ	Y	Υ	Y
	UV Light Lifetime Lack Alarm		Υ	Y	Υ	Υ
	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, 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
Accessories	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		Three-piece	Four-piece	Three-piece	Three-piece
	Touch Screen		N	N	N	N
	Motorized Window		Optional	Optional	Optional	Optional
-	Foot Switch		Optional	Optional	Optional	Optional
	Armrest		Υ	Y	Y	Y
	Exhaust Duct Connection Kits		Optional	Optional	Optional	Optional
Others	Certification		CE, UKCA	CE, UKCA, TUV	CE, UKCA	CE, UKCA, TUV

#### $\hbox{^*Haier Biomedical reserves the right to change products and specifications without prior notice}\\$

# **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.



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# **Biological Safety Cabinet**

# Product Advantages



#### 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.



**HR700-IIA2** 

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# Mini Biological Safety Cabinet





#### Safe and Reliable

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



#### Interlocking Function

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



#### **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



#### Alarms

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



#### 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



#### **Uniform Airflow**

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



#### Two Waterproof Sockets

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



#### Safety Certified

Complies with EN12469





	Model		HR700-IIA2	HR900-IIA2	HR1200-IIA2	HR1500-IIA2
	Power Supply(V/Hz)		220-240/50	220-240/50	220-240/50	220-240/50
	Power (VA)		1200	1500	1500	1900
	Power of Blower (W)		AC 210	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,H14,99.995%@0.3um	ULPA,U15,99.9995%@0.12um	ULPA U15.99.9995%@0.12um	ULPA,U15,99.9995%@0.12um
General	Exhaust Filter Typical Efficiency		ULPA,U15,99.9995%@0.12um	ULPA,U15,99.9995%@0.12um	HEPA,H14,99.995%@0.3um	HEPA,H14,99.995%@0.3um
Specification			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
		kg	100/130	290/310	320/339	350/393
	Net/Gross Weight	lbs	220.4/286.52	639.3/683.4	705.5/747.4	771.6/866.4
			600*550*540	920*620*650		1520*620*650
	Internal Dimensions (W*D*H)	mm :-	23.62*21.65*21.26	36.2*24.4*25.6	1220*620*650	59.9*24.4*25.6
		in	700*720*1200		48.0*24.4*25.6	
	External Dimensions (W*D*H)	mm		1080*845(790)*2160	1380*845(790)*2160	1680*845(790)*2160
Dimensions		in	27.56*28.35*47.24 800*810*1385 (without stand)	42.5*33.3(31.1)*85.0	54.3*33.3(31.1)*85.0	66.1*33.5(31.1)*85.0
	Dacking Disconnians (M/*D*LI)	mm	825*820*1495 (with stand)	1185*925*1720	1475*935*1720	1785*932*1720
	Packing Dimensions (W*D*H)		31.5*31.9*54.5 (without stand) 32.5*32.3*58.9 (with stand)	46.7*36.4*67.7	58.1*36.8*67.7	70.3*36.7*67.7
	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	11/21/21	8/16/16	6/12/12
	Alarm		Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Op	ening	Υ	Y	Y	Y
	Door Ajar Alarm		Y	Y	Y	Υ
	Abnormal Inflow Alarm		Y	Y	Y	Υ
Alarms	Abnormal Downflow Alarm		Y	Υ	Y	Υ
Functions	Door Open More than Limit Alarn	n	Y	Υ	Y	Y
	Filter Clogging Alarm		Y	Y	Y	Υ
	Filter Damage Alarm		Y	Y	Y	Υ
	Filter Lifetime Lack Alarm		Y	Y	Y	Υ
	UV Light Lifetime Lack Alarm		Y	Y	Y	Y
	UV Lamp		Y	Y	Y	Υ
	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, vaccum tap, 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	Standard gas tap and vaccum tap; optional compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional	Optional	Optional
Accessories	316SS Work Surface		Optional	Optional	Optional	Optional
2220001103	Work Surface		One-piece	One-piece	One-piece	One-piece
	Touch Screen		N	N	N	N
	Electric Front Sash		Y			Optional
	Foot Switch		Optional	Optional Optional	Optional Optional	Optional
	Armrest		'	Optional Y	У	У
			N			
	Exhaust Duct Connection Kits		N	Optional	Optional	Optional

 $\hbox{^*Haier Biomedical reserves the right to change products and specifications without prior notice}\\$ 

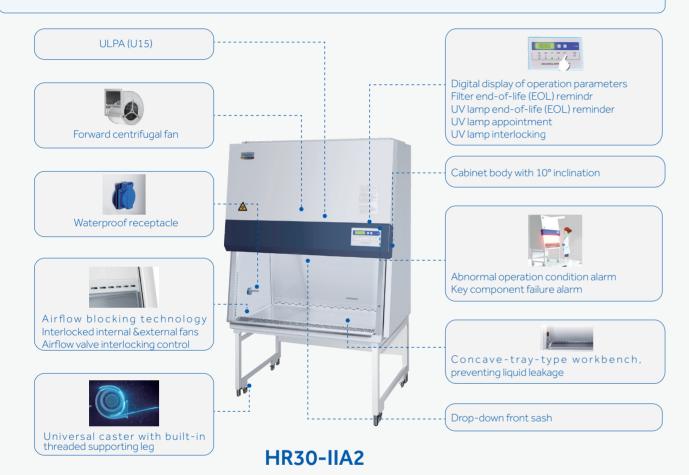
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Laboratory Protection Clean Air Solutions **Haier** Biomedical

# 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.



# 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



The internal walls on three sides of operation area is constructed by a single plate, and the 12mm arc angle corner for optimal cleaning



Quality 304 stainless steel work surface without screws, no accumulation of contaminant



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 volume of liquid tank is over 4L, designed with outlet valve for convenient cleaning and maintenance



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



#### 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

# **Specifications**

	Model		HR30-IIA2	HR40-l	IIA2
	Power Supply(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
eneral	Exhaust Filter		Single	Single	Single
pecification	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
			0.55 ≥1100	0.55 ≥1200	0.55 ≥1200
	Lighting Intensity (Lux)				
	Sound Level (dB(A))		61	64	64
	Bench or Stand Only		Stand only	Stand only	Stand only
	Net/Gross Weight	kg	220/248	258/305	258/305
	INEL/ GIOSS WEIGHT	lbs	485/546.7	568.8/672.4	568.8/672.4
	Internal Dimensions (W*D*LI)	mm	900*610*680	1167*610*680	1167*610*680
	Internal Dimensions (W*D*H)	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
	External Dimensions (W*D*H)	in	43.3*32.3*86.6	53.5*32.3*86.6	53.5*32.3*86.6
	D 1: D:	mm	1185*945*1750	1445*945*1720	1445*945*1720
mensions	Packing Dimensions (W*D*H)	in	46.7*37.2*68.9	56.9*37.2*67.7	56.9*37.2*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
	Alarm		Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Oper	ing	Υ	Y	Y
	Door Ajar		Υ	Y	Υ
	Abnormal Inflow		Y	Υ	Y
	Abnormal Downflow		Y	Υ	Y
arms	Door Open More than Limit		Y	Y	Υ
nctions	Filter Clogging		Y	Y	· Y
	Filter Damage		Y	Y	 Y
	Filter Lifetime Lack		Y	Y	· Y
	UV Light Lifetime Lack		Y	Y	Y
	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 with 2 valve Port Standard gas tap and vaccum Tap; optional compressed air tap and water tap	Standard with 2 Valve Fort Standard gas tap and vaccum Tap; optional compressed air tap and water tap	Standard with 2 valve Fort Standard gas tap and vaccum Tap; optional compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional	Optional
cessories	316SS Work Surface		Optional	Optional	Optional
	Work Surface		One-piece	One-piece	One-piece
	Touch Screen		N	N	Ň
	Motorized Window		N	N	N
	Foot Switch		N	N	N
	Armrest		Y	Y	Y
	Exhaust Duct Connection Kits		Optional	Optional	Optional
thers	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		
	Power Supply(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		
General	Exhaust Filter Typical Efficiency		HEPA ,H14,99.995%@0.3um		
Specification	Exhaust Filter		Single		
opecineation	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		
	N	kg	252/308		
	Net/Gross Weight	lbs	555.6/679.0		
	11 10 10140411	mm	1167*610*680		
	Internal Dimensions (W*D*H)	in	45.9*24.0*26.8		
	5	mm	1360*820*2330		
Dimensions	External Dimensions (W*D*H)	in	53.5*32.3*91.7		
Difficusions	0 11 01 1 (11/40 41)	mm	1445*945*1930		
	Packing Dimensions (W*D*H)		56.9*37.2*76.0		
	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		
	Alarm		Sound and Flash		
	Closing Fan Alarm After Door Opening		Y		
	Door Ajar		Υ		
	Abnormal Inflow		Υ		
	Abnormal Downflow		Y		
Alarms	Door Open More than Limit		Υ		
Functions	Filter Clogging		Υ		
	Filter Damage		Υ		
	Filter Lifetime Lack		Y		
	UV Light Lifetime Lack		Y		
	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		
Accessories	Work Surface		One-piece		
	Touch Screen		N		
	Motorized Window		N		
	Foot Switch		N		
	Armrest		Υ		
	Exhaust Duct Connection Kits		N		
Others	Certification		CE, TUV		

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Classic Series Biological Safety Cabinet (Type B2)

**Haier** Biomedical Laboratory Protection Clean Air Solutions

#### **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.

# **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



HR1500-IIA2-DW



#### 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



#### 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



#### Traceable

The work area in the cabinet is monitored by camera and the images are stored for future reference (optional)



#### **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)

#### **Laminar Flow Cabinet**



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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# 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



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# **Laminar Flow Cabinet**

# 



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 0.3um 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 IS014644.1 Standard, and is better than Class 100 cleanliness requirements

Built-in lighting prevents exposure to

fluorescent lamp to avoid eye stain



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



# 

	Model		HCB-900V	HCB-	1300V	HCB-1600H
	Flow Type		Vertical	Vertical	Vertical	Horizontal
	Power Supply(V/Hz)		220/50	115/60	220/50	220/50/60
	Power (W)		1200	1200	1200	350
	Vibration Amplitude (UM)		2	2	2	2
General Specification	Exhaust Filter Typical Efficiency		H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um
opeemedion	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
	Sash Opening(mm)		Max 310	Max 310	Max 310	/
		kg	115/145	145/171	145/171	165/214
	Net/Gross Weight	lbs	254/319	320/376	320/376	363.7/471
		mm	900*530*520	1300*530*520	1300*530*520	1710*550*750
	Internal Dimensions (W*D*H)	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 Dimesion (W*D*H)	mm	970*630*1730	1370*630*1730	1370*630*1730	1780*790*1960
Dimensions		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
Dimensions		mm	1100*750*1290	1510*770*1280	1510*770*1280	1875*940*1410
	Packing Dimensions (W*D*H)	in	43.3*29.5*50.8	59.4*30.3*50.4	59.4*30.3*50.4	73.8*37.0*55.5
	Support Stand(mm)		755mm (standard)	755mm (standard)	755mm (standard)	765mm (standard)
	Container Load (20'40'40'H)		15/33/33	10/22/22	10/22/22	6/12/12
	UV Lamp		Υ	Y	Υ	Υ
	Power Outlet Socket		2 Sockets	2 Sockets	2 Sockets	/
	Conversion Socket		Optional	Optional	Optional	/
	Cleanliness Classification		ISO 14644.1 Class 5			
	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
Accessories	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		Single-piece	Single-piece	Single-piece	Single-piece
	Touch Screen		/	/	/	/
	Motorized Window		/	/	/	/
	Foot Switch		/	/	/	/
	Armrest		Υ	Υ	Υ	Y
	Exhaust Duct Connection Kits		/	/	/	/
Others	Certification		CE	/	CE	CE

 $<sup>\</sup>hbox{*Haier Biomedical reserves the right to change products and specifications without prior notice}\\$ 

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Haier Biomedical —— Laboratory Protection Clean Air Solutions

# **Laminar Flow Cabinet**



# Product Advantages



Positive pressure chamber design ensures air velocity uniformity and forms effective seal





Designed with access ports on left and right sides, easy and convenient to mount valves such as gas supply



Ergonomic cabinet design with a 10  $\,^{\circ}$  inclination, to improve user comfort during operation



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

# Specifications

	Model		HCB-1300VS	HCB-1600VS
	Flow Type		Vertical	Vertical
	Power Supply(V/Hz)		220/50/60	220/50/60
	Power (W)		1350	1200/1350
	Vibration Amplitude (UM)		2	2
General Specification	Exhaust Filter Typical Efficiency	/	H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um
peemeation	Average Velocity (M/S)		0.20-0.50	0.20-0.50
	Lighting Intensity (Lux)		≥600	≥1000
	Sound Level (dB(A))		60	63
	Sash Opening(mm)		Max 360	Max 360
	N / C N	kg	180/232	202/260
	Net/Gross Weight	lbs	397/511.5	445.3/573
		mm	1300*510*550	1600*510*550
	Internal Dimensions (W*D*H)	in	51.2*20.1*21.7	60.0*20.1*21.7
	External Dimesion (W*D*H)	mm	1370*640*1820	1670*640*1820
Dimensions		in	53.9*25.2*71.7	65.7*25.2*71.7
	D1:: D:: (\A/*D*1.1\	mm	1480*845*1290	1780*840*1270
	Packing Dimensions (W*D*H)	in	58.3*33.3*50.8	70.1*33.1*50.0
	Support Stand(mm)		750mm (standard)	750mm (standard)
	Container Load (20'40'40'H)		11/20/20	7/14/14
	UV Lamp		Y	Y
	Power Outlet Socket		2 sockets	2 sockets
	Conversion Socket		Optional	Optional
	Cleanliness Classification		ISO 14644.1 Class 4	ISO 14644.1 Class 4
	Valve Port		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
	Antimicrobial Coating		Optional	Optional
Accessories	316SS Work Surface		Optional	Optional
	Work Surface		Single-piece	Single-piece
	Touch Screen		/	1
	Motorized Window		/	1
	Foot Switch		/	/
	Armrest		Υ	Y
	Exhaust Duct Connection Kits		/	/
Others	Certification		/	/

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**Haier** Biomedical Laboratory Protection Clean Air Solutions

#### **Ductless Fume Hood**

# Scope of Application

Haier Biomedical Ductless Fume Hood utilizes carbon filtration to protect laboratory personnel and the environment from toxic chemical fumes, odours, and particles. It is widely used in universities, public health, chemical and petrochemical industry, drug testing, museums and many other fields which involve the use of chemicals

# Product Advantages



Intelligent constant speed design, ensures the best adsorption effect of the filter



Standard VOC sensor detects presence of volatile organic compounds in the exhaust and alarms to indicate filter saturation



Energy-efficient EC fan for a longer service life and reliable operation



Multiple stackable filter types: remove vapor contaminants from the air, can be combined to handle different types of chemicals and particulates during the same application



Offers a broad range of accessories and options to meet clients' different requirements

#### 10-inch touch screen

Real-time display of VOC concentration, wind speed, filter service life and UV lamp running time. Alerts when filter or UV lamp lifespan falls below 10%

#### Air velocity sensor

Intelligent constant air velocity ensures the stability

Universal casters with built-in threaded support legs



Energy-efficient EC fan for a longer service life and reliable and quieter operation

#### 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

#### Electrical sockets

Included as standard are two, waterproof sockets with timing technology, which allows the user to program timed on/off function

#### HTF-1200W/1500W

# **Optional Components**



UV lamp

IoT module



Dual surveillance cameras



Height adjustable

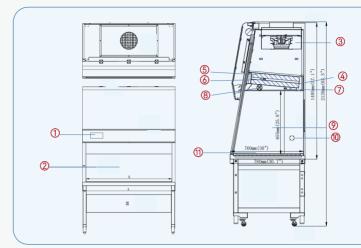


Electrically operated glass



PVC worktable

# N Product Dimension



- 1. Microprocessor Control System
- 2. Tempered Glass Sliding Sash Window
- 3.EC fan
- 4.First filter
- 5. Second filter(optional)
- 6.VOC sensor
- 7. Temperature and humidity sensor
- 8. Wind velocity sensor
- 9. Tempered Glass Side
- 10. Electrical sockets (2 on each side)
- 11. Powder coated steel worktop

# Types of Filters

Carbon filters are used to remove toxic gases, hazardous fumes, and odors. These filters are constructed from high-quality carbon pellets and durable chemical-resistant cases. Below is Haier Biomedical filters list

Code No	Name	Suitable Applications	
А	Standard Filter (Mixed with N4A1, N4B1 and N4G1 activated carbon)	Suitable for all common laboratory chemicals, especially with organics. When no specific requirements are present, or when more than one type of chemical is used	
В	Organic Solvent Filter (N4G1 activated carbon)	Removal of toluene, benzene, xylene, acetone, acetic acid, carbon tetrachloride, chloroform, CxHy, VOC, etc	
С	Acid Gas Filter (N4A1 activated carbon)	Removal of hydrochloric acid, sulfuric acid, hydrofluoric acid, hydrogen sulfide, sulfur dioxide, etc	
D	Alkaline Gas Filter (N4B1 activated carbon)	Removal of ammonia, amine, etc.	
Е	Formaldehyde Filter	Mainly used for adsorption of formaldehyde	
F	Particle Filter	Mainly used to absorb dust	

# Specifications

Model		HTF-1200W	HTF-1500W
Power Supply (V/Hz)		220/50/60	220/50/60
Power (W)		1200	1300
Sound Level (dB(A))		≤58	≤58
Inflow Air Velocity (m/s)		0.4-0.6	0.4-0.6
Fluorescent Light Intensity (lux)		≥1000	≥1000
Filtration	First Filter	Activated Carbon with Granular Media bed (6 different filter types available , codes A-F)	
Elements	Second Filter (optional)	Activated Carbon with Granular Media bed (6 different filter types available , codes A-F)	
Exterior Dimensions (W*D*H)(mm)		1336*780*2120	1636*780*2120
Operation Dimensions (W*D*H)(mm)		1230*760*655	1530*760*655
Packaging Dimensions (W*D*H)(mm)		1400*925*1665	1700*925*1665
Net Weight (Kg)		230	250
Packaging Weight (Kg)		290	330
Display		10 inch screen	10 inch screen
VOC Sensor		Standard (1)	Standard (1)
Certification		CE	CE

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

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