Haier Biomedical
Intelligent Protection of Life Science

Laboratory Protection
Clean Air Solutions

Your Haier Biomedical Partner

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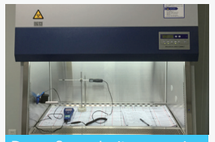
Certifications, Quality Control, Patented Technologies

» Certifications

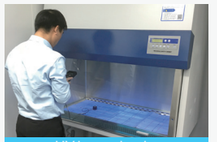
Safety certification to EN 61010
EMC certification EN 61326
Certified EN 12469 for Biological Safety Cabinets
Certified CFDA YY-0569
ISO 13485:2016 and ISO 9001:2015 Certified Company

SFDA YY0569-2011 · CE · cen EN 12469 · TÜVRheinland · MANAGEMENT SYSTEM CERTIFICATION DNV·GL ISO 9001 ISO 14001 ISO/IEC 27001

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

Infrastructure design plan

Integrated product plan

Complete Safe Solution for PIVAS

Supporting consumables plan

Information-based software plan

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

Infrastructure design plan | Integrated product plan
Supporting consumables plan | Information-based software plan

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

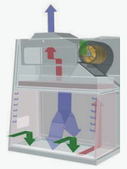
- Carts
- Drug baskets
- Shelves
- Printers, bar codes

- Drug admixture and prescription system
- Drug management system

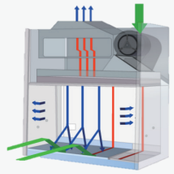
Differences between Biological Safety Cabinet and Laminar Flow Cabinet

Working Principles

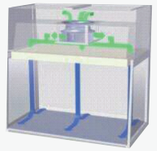
Clean air after cleaned Ambient air Polluted air



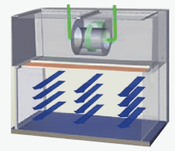
Biological safety cabinet, Class II Type A2



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	×	√	×
Horizontal laminar flow clean bench	100% discharged to indoor space						

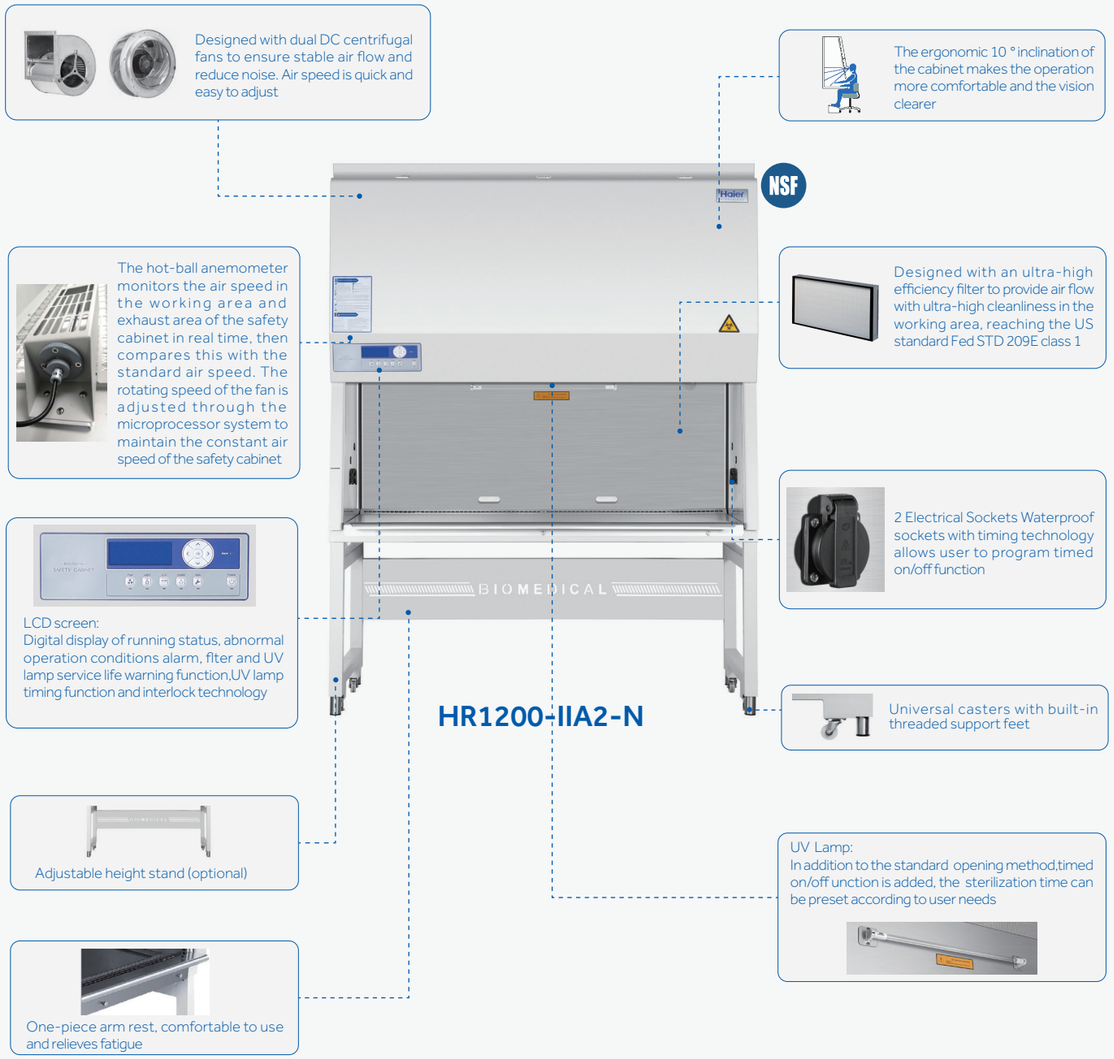
Model Selection Guide for Biological Safety Cabinet

	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 purifcation equipment suitable for pharmaceuticals, medical and health industries, scientifc 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
General Specification	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
	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	TBD	1292
	Sound Level (dB(A))		67	64	TBD	67
Dimensions	Net/Gross Weight	kg	225/280	275/335	325/376	375/460
		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 Armrest)	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	1105*935*1720	1435*945*1700	1705*940*1720	2038*945*1700
		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)	680mm (standard), 680-900mm adjustable height (optional)	680mm (standard), 680-900mm adjustable height (optional)	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
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		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
Accessories	UV Lamp		Y	Y	Y	Y
	Socket		2 sockets (optional GFCI socket)	2 sockets (optional GFCI socket)	2 sockets (optional GFCI 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		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

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

N Series Class II Type A2 Biological Safety Cabinet

Scope of Application

Designed to deliver airflow performance with exceptional precision for cell culture applications and other sensitive work requiring assured safety for product, personal and environment, especially for Bio-pharma and advanced research laboratories.

Dual DC fans - independent air supply and exhaust system to provide a uniform airflow and excellent energy efficiency, not affected by voltage fluctuations.

Dual wind speed sensors

Intuitive Touch screen ① Digital display of running status,abnormal operation conditions alarm, filter and UV lamp service life warning function, UV lamp timing function and interlock technology

Adjustable height supporter (680-900mm) (optional) ②

The ergonomic 10° inclination of the cabinet makes the operation more comfortable and the vision clearer

Equipped with an U15 ULPA; filter to provide 10x Filtration efficiency of HEPA filter, reaching the US standard Fed STD 209E class 1

Two Electrical Waterproof sockets with timing technology allows user to program timed on/off. Optional CFCI sockets

One-piece arm rest , comfortable to use, relieve fatigue.

Universal casters

HR900-IIA2-N (NSF/ANSI 49 ONLY)
HR1200-IIA2-N
HR1500-IIA2-N
HR1800-IIA2-N

① Optional for NSF standard models
② Adjustable supporter is optional for NSF

N Series Class II Type A2 Biological Safety Cabinet

Product Advantages

Microprocessor Control System

The hot-ball anemometer monitors the downflow and inflow wind speed of the safety cabinet in real time and compares it with the standard wind speed. The rotating speed of the fan is adjusted through the microprocessor system to maintain the constant wind speed of the safety cabinet.
Intuitive digital touch screen ①, real-time display of operational information and parameters including airflow velocity, 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.

① Optional for NSF standard models

Superior Filter, Multiple Protection

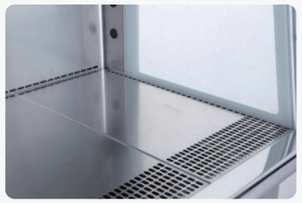
ULPA is made of moisture-proof and flame-retardant glass fiber filter paper which can intercept 99.9995% solid particles with a diameter of 0.12 μm to ensure high cleanliness of air supply flow and exhaust flow with 10x Filtration efficiency of HEPA filter.

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.

Optional Components

Segmented Work Surfaces ①



Foot Switch ②

Exhaust Hood and Pipe

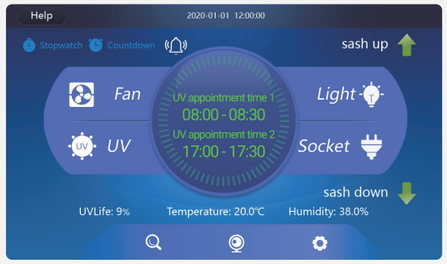
316 Stainless Steel Workbench and Liner

Valve Port

① CE12469 standard models only
② CE12469 standard models only

Product Features

Intuitive and User-friendly 10 " Touchscreen Controller



- Cabinet parameters with understandable graphical illustration
- Real Time display of downflow and inflow velocity
- Scheduled UV appointment for most efficient decontamination
- Company common menu bar from Haier Biomedical
- Angled down for easy reach and viewing

Dual Wind Speed Sensors

Dual wind speed sensors-real-time monitoring the wind speed in the working area and exhaust area of the safety cabinet. Our microprocessor system will automatically adjust wind speed according to safety standard.

Wear-resistant and Easy to Clean

- The inner liner coaming adopts stainless steel one-piece structure design, 12mm large arc transition, no cleaning dead angle.
- Operating table adopts high quality 304 stainless steel, without any fixed screws, will not form the accumulation of pollutants.
- The cabinet is made of cold rolled steel plate with corrosion resistant epoxy resin powder sprayed on the surface, which is resistant to acid and alkali corrosion.

Caster and Foot

4 universal casters +4 feet design, easy to move and lock leveling.

Platform Arm Rest

Platform arm rest frame, comfortable to use, relieve fatigue.

N Series Class II Type A2 Biological Safety Cabinet

Specifications

		NSF/ANSI 49				EN12469		
General Specifications	Working Voltage&Frequency (V/Hz)	100~230/50/60	100~230/50/60	100~230/50/60	100~230/50/60	220~240/50/60	220~240/50/60	220~240/50/60
	Nominal Power Consumption (W)	200	200	240	440	200	240	440
	Heat Load (BTU/Hr)	682	682	818	1500	682	818	1500
	Power of Blower (W)	DC 120, DC 112	DC 120, DC 112	DC 190, DC 112	DC 120, DC 112	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	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	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	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	AAF	AAF	AAF
	Downflow Velocity (m/s)	0.35	0.35	0.35	0.35	0.30	0.30	0.30
	Inflow Velocity (m/s)	0.53	0.53	0.53	0.53	0.45	0.45	0.45
	Inflow Volume (m³/h)	390	516	642	768	438	545	652
	Lighting Intensity (Lux)	946	1323	1248	1292	1233	1313	1212
	Fan	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC
	Fan's Brand	EBM	EBM	EBM	EBM	EBM	EBM	EBM
	Solid or Glass Sides	Solid	Solid	Solid	Solid	Solid	Solid	Solid
	Sash Opening (mm)	200(Max 460)	200(Max 460)	200(Max 460)	200(Max 460)	200(Max 460)	200(Max 460)	200(Max 460)
	Sound Level(dB(A)) EU units measured according to EN 12469, NSF units measured according to NSF/ANSI 49	67	64	63	67	58.9	60.5	62.8
Dimensions	Net/Gross Weight	225/280	275/335	325/376	375/460	275/335	325/376	375/460
		496/617	617/750	716.5/804.7	827/1014	617/750	716.5/804.7	827/1014
	Internal Dimensions (W*D*H)	930*600*650	1230*600*650	1530*600*650	1830*600*650	1230*600*650	1530*600*650	1830*600*650
		36.6*23.6*25.6	48.4*23.6*25.6	60.2*23.6*25.6	72.0*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)	1040*850(790)*2160	1340*850(790)*2160	1640*850(790)*2160	1940*850(790)*2160	1340*850(790)*2160	1640*850(790)*2160	1940*850(790)*2160
		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	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)	1105*935*1720	1435*945*1700	1705*940*1720	2038*945*1700	1435*945*1700	1705*940*1720	2038*945*1700
		43.5*36.8*67.7	56.5*37.2*66.9	67.1*37.0*67.7	80.2*37.2*66.9	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)	680mm(standard), 680-900mm adjustable height(optional)	680mm(standard), 680-900mm adjustable height(optional)	680mm(standard), 680-900mm adjustable height(optional)	680-900mm adjustable height (standard)	680-900mm adjustable height (standard)	680-900mm adjustable height (standard)
	Container Load (20'/40'/40'H)	8/16/16	8/16/16	6/12/12	6/12/12	8/16/16	6/12/12	6/12/12
Alarm Functions	Alarm	Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Opening	Y	Y	Y	Y	Y	Y	Y
	Door Ajar	Y	Y	Y	Y	Y	Y	Y
	Abnormal Inflow	Y	Y	Y	Y	Y	Y	Y
	Abnormal Downflow	Y	Y	Y	Y	Y	Y	Y
	Door Open More than Limit	Y	Y	Y	Y	Y	Y	Y
	Filter Clogging	Y	Y	Y	Y	Y	Y	Y
	Filter Damage	Y	Y	Y	Y	Y	Y	Y
	Filter Lifetime Lack	Y	Y	Y	Y	Y	Y	Y
	UV Light Lifetime Lack	Y	Y	Y	Y	Y	Y	Y
Accessories	Service Ports (Port Holes)	Y	Y	Y	Y	Y	Y	Y
	UV Lamp	Y	Y	Y	Y	Y	Y	Y
	Socket	2 Sockets (optional GFCI socket)	2 Sockets (optional GFCI socket)	2 Sockets (optional GFCI socket)	2 Sockets (optional GFCI socket)	2 Sockets	2 Sockets	2 Sockets
	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	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 Powder Coating	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	316SS Work Surface	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Work Surface	One-piece	One-piece	One-piece	One-piece	One-piece	One-piece	One-piece
	Touch Screen	Optional	Optional	Optional	Optional	Y	Y	Y
	Motorized Window	N	N	N	N	Optional	Optional	Optional
	Foot Switch	N	N	N	N	Optional	Optional	Optional
	Armrest	Y	Y	Y	Y	Y	Y	Y
	Exhaust Duct Connection Kits	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Others	Certification	UL NSF	UL NSF	UL NSF	UL NSF	CE/EN12469/TUVMark	CE/EN12469/TUVMark	CE/EN12469/TUVMark

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

HR1200-IIA2-S
(Single Exhaust HEPA)
HR1200-IIA2-D
(Dual Exhaust HEPAs)

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

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

Biological Safety Cabinet (Single/Double Exhaust Filter)

Specifications

	Model		HR900-IIA2-S	HR1200-IIA2-S	HR900-IIA2-D	HR1200-IIA2-D
General Specification	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% Exhaust
	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
	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
	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
Dimensions	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 Armrest)	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	1185*925*1720	1475*935*1720	1105*932*1730	1475*935*1720
		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
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	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		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		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-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

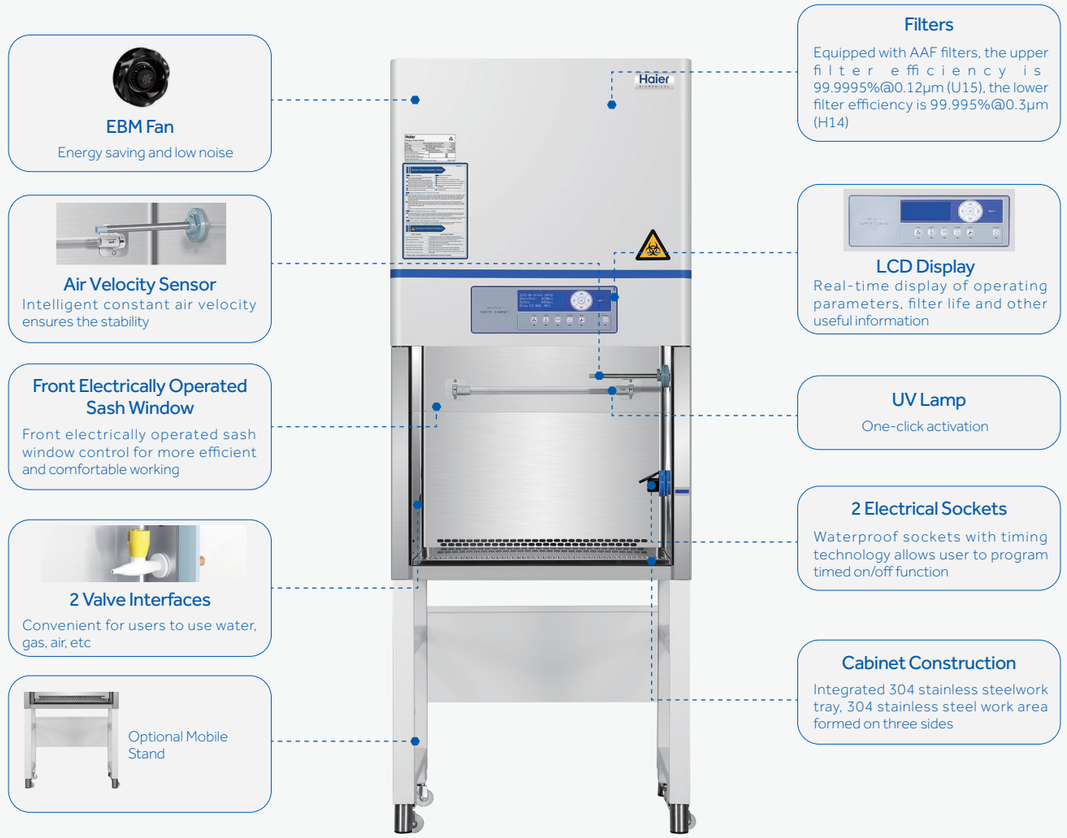
The microcomputer will add up the service time of UV lamp, and will remind by warning the user to replace the UV lamp when its remaining life is less than 10%

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

Mini Biological Safety Cabinet

Product Advantages

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

Specifications

Model			HR700-IIA2	HR900-IIA2	HR1200-IIA2	HR1500-IIA2
General Specification	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
	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
	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)	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	800*810*1385 (without stand) 825*820*1495 (with stand)	1185*925*1720	1475*935*1720	1785*932*1720
		in	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
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, 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
	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		One-piece	One-piece	One-piece	One-piece
	Touch Screen		N	N	N	N
	Electric Front Sash		Y	Optional	Optional	Optional
	Foot Switch		Optional	Optional	Optional	Optional
	Armrest		N	Y	Y	Y
	Exhaust Duct Connection Kits		N	Optional	Optional	Optional
Others	Certification		CE, TUV	CE, UKCA, TUV	CE, UKCA, TUV	CE, UKCA, TUV

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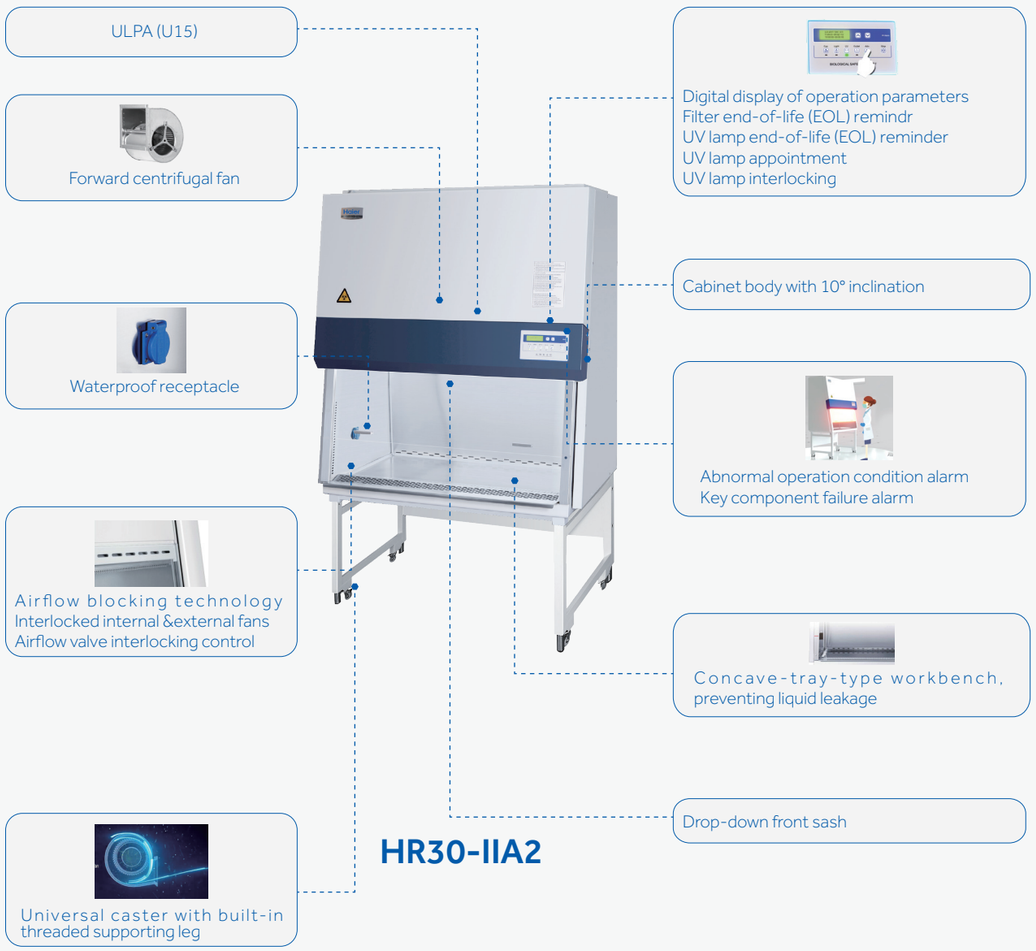
Classic Series Biological Safety Cabinet (Type A2)

Scope of Application

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



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

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

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

Classic Series Biological Safety Cabinet (Type A2)

Specifications

Model			HR30-IIA2	HR40-IIA2	
General Specification	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
	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	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	1185*945*1750	1445*945*1720	1445*945*1720
		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
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		One-piece	One-piece	One-piece
	Touch Screen		N	N	N
	Motorized Window		N	N	N
	Foot Switch		N	N	N
	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

Classic Series Biological Safety Cabinet (Type B2)

Specifications

Model			HR40-IIB2
General Specification	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
	Exhaust Filter Typical Efficiency		HEPA ,H14,99.995%@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	1445*945*1930
		in	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
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		One-piece
	Touch Screen		N
	Motorized Window		N
	Foot Switch		N
	Armrest		Y
	Exhaust Duct Connection Kits		N
Others	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

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)

Laminar Flow Cabinet

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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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
HCB-1600H

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 0.3um or above

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

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

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

Vertical Airflow
HCB-900V/1300V

Laminar Flow Cabinet

Specifications

Model			HCB-900V	HCB-1300V		HCB-1600H
General Specification	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
	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
	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	Sash Opening(mm)		Max 310	Max 310	Max 310	/
	Net/Gross Weight	kg	115/145	145/171	145/171	165/214
		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 Dimesion (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 Dimesion (W*D*H)	mm	1100*750*1290	1510*770*1280	1510*770*1280	1875*940*1410
		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
Accessories	UV Lamp		Y	Y	Y	Y
	Power Outlet Socket		2 Sockets	2 Sockets	2 Sockets	/
	Conversion Socket		Optional	Optional	Optional	/
	Cleanliness Classification		ISO 14644.1 Class 5	ISO 14644.1 Class 5	ISO 14644.1 Class 5	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
	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		Single-piece	Single-piece	Single-piece	Single-piece
	Touch Screen		/	/	/	/
	Motorized Window		/	/	/	/
	Foot Switch		/	/	/	/
	Armrest		Y	Y	Y	Y
	Exhaust Duct Connection Kits		/	/	/	/
Others	Certification		CE	/	CE	CE

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HCB-1300VS/1600VS

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-1300VS	HCB-1600VS
General Specification	Flow Type		Vertical	Vertical
	Power Supply(V/Hz)		220/50/60	220/50/60
	Power (W)		1350	1200/1350
	Vibration Amplitude (UM)		2	2
	Exhaust Filter Typical Efficiency		H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um
	Average Velocity (M/S)		0.20-0.50	0.20-0.50
	Lighting Intensity (Lux)		≥600	≥1000
	Sound Level (dB(A))		60	63
Dimensions	Sash Opening(mm)		Max 360	Max 360
	Net/Gross Weight	kg	180/232	202/260
		lbs	397/511.5	445.3/573
	Internal Dimensions (W*D*H)	mm	1300*510*550	1600*510*550
		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
		in	53.9*25.2*71.7	65.7*25.2*71.7
	Packing Dimensions (W*D*H)	mm	1480*845*1290	1780*840*1270
		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
Accessories	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
	316SS Work Surface		Optional	Optional
	Work Surface		Single-piece	Single-piece
	Touch Screen		/	/
	Motorized Window		/	/
	Foot Switch		/	/
	Armrest		Y	Y
	Exhaust Duct Connection Kits		/	/
Others	Certification		/	/

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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

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%

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

Air velocity sensor
Intelligent constant air velocity ensures the stability

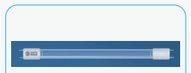
PIR detection
In intelligent mode, the PIR sensor will detect when the operating area has been clear of personnel for more than 15 minutes and automatically switch to LNS green-saving mode

Universal casters with built-in threaded support legs

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

HTF-1200W

Optional Components


UV lamp


Dual surveillance cameras


Electrically operated glass sash


IoT module


Height adjustable stand

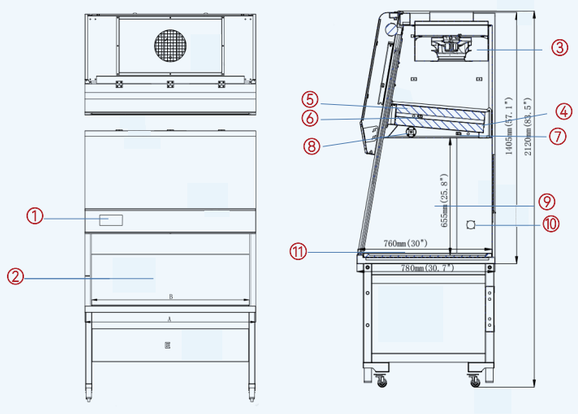

PVC worktable

Ductless Fume Hood

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

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
A	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
B	Organic Solvent Filter (N4G1 activated carbon)	Removal of toluene, benzene, xylene, acetone, acetic acid, carbon tetrachloride, chloroform, CxHy, VOC , etc
C	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.
E	Formaldehyde Filter	Mainly used for adsorption of formaldehyde
F	Particle Filter	Mainly used to absorb dust

Specifications

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

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