Haier Biomedical
Intelligent Protection of Life Science

N Series Class II Type A2 Biological Safety Cabinet

The 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.

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

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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.

Biosafety Cabinet - N Series- Features

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

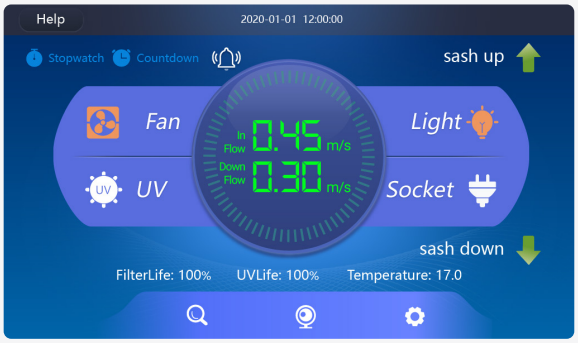
One-piece arm rest , comfortable to use, relieve fatigue.

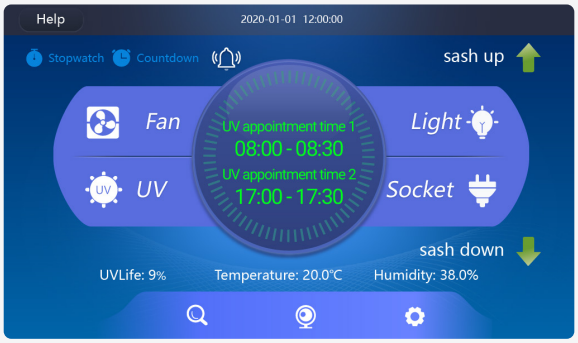
Universal casters

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

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.

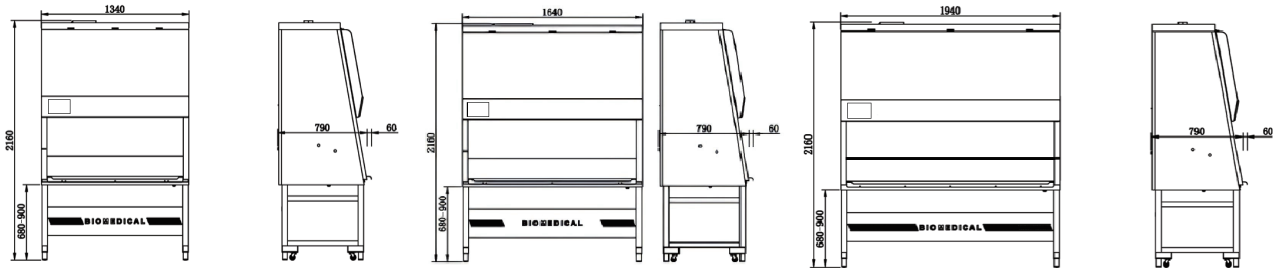
Caster and Foot

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

Platform Arm Rest

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

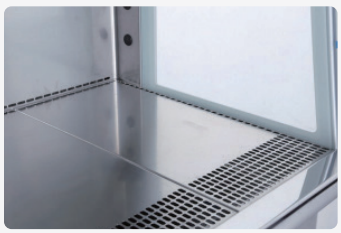
Product Model Diagram



HR1200-IIA2-N　　HR1500-IIA2-N　　HR1800-IIA2-N

Optional Components

Segmented Work Surfaces ①



Foot Switch ②

316 Stainless Steel Workbench and Liner

Valve Port

Exhaust Hood and Pipe

① CE12469 standard models only
② CE12469 standard models only

Specifications

		NSF/ANSI 49				EN12469		
	Picture							
	Model	HR900-IIA2-N	HR1200-IIA2-N	HR1500-IIA2-N	HR1800-IIA2-N	HR1200-IIA2-N	HR1500-IIA2-N	HR1800-IIA2-N
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 (m^3/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