

Haier



Biological Safety Cabinets

The Reliable Solution for Operator and Laboratory Environment

Biological safety cabinet is designed to protect operator, laboratory environment and samples from being exposed to the infective aerosol produced when the sample is bacteria strains, diagnostic material, and other infective subjects. It provides the operators with a more comfortable and safer working condition. It is widely used in medical health, disease prevention, food safety, biological pharmacy and environment monitoring. And it has been the important basis of sample safety and environment security.



EN 12469



American AAF ULPA filter are tested to a typical efficiency of >99.999% for 0.12 micron particles

Reverse centrifugal fan allows double side air inflow, decreasing noise and saving energy

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Digital microprocessor control system for easy operation

Intelligent alarming system

Multiple interlocking functions eliminate potential safety problems caused by misoperation.

Removable stainless steel work surface makes cleaning easier

Ergonomic angled design to improve comfort

Adjustable foot

HR40-IIA2

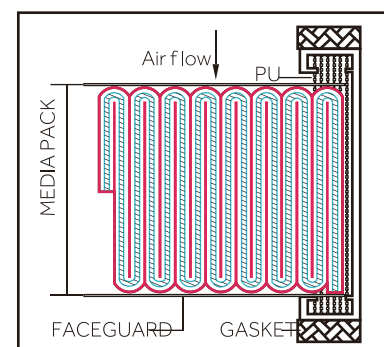
304 stainless steel operation platform and internal wall

- Stainless steel operation platform without screws, no accumulation of contaminant
- Dismountable air in-flow plate, easy to clean and disinfect.
- Internal wall is constructed by a single plate, and the 12mm arc angle conner leaves no cleaning blind area
- The volume of liquid tank is over 4L, equipped with outlet valve for convenient cleaning and maintaining
- Concaved operation platform, waste liquid easily collected.
- Adjustable supporter (0-75mm) without exposed screw thread, preventing the germs from multiplying.



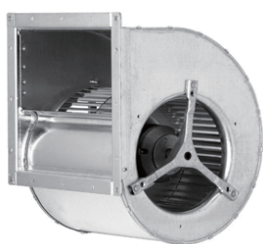
Ultra Low Penetration Air Filtration System

- American AAF brand ULPA filter
- Tested to a typical efficiency of 99.9995% for 0.12 micron particles
- Provides FED STD 209E class 1 (or ISO14644.1 class 3) clean air to work surface in a stable vertical laminar flow to protect samples
- The exhaust ULPA filter traps biohazard particles acquired from the work surface before air is exhausted to the room, offering personnel and environmental protection.

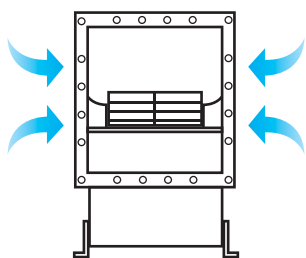


High Efficiency Blower System

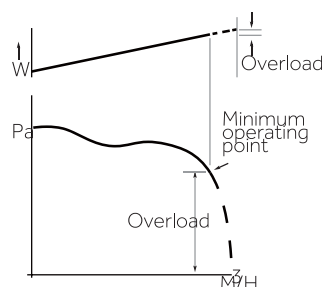
- The blower system is designed for high performance operation, maximum energy efficiency and minimal maintenance
- Self cooling system reduces energy consumption while enhances reliability



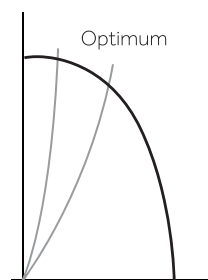
Reverse centrifugal fan



Double-side air inflow design decreases running noise



Air velocity auto-compensation function guarantees stable wind speed



Provide uniform airflow by adjusting working voltage of fan.

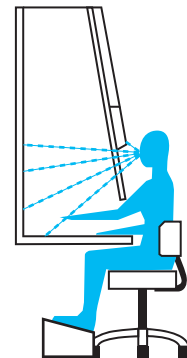
Digital microprocessor control system

- LCD display
- Real-time display of key parameters: downflow velocity, inflow velocity, airflow volume, static pressure, negative pressure, accumulative running time of fan and UV lamp, left lifetime of filter
- Sound & light alarming function
- UV sterilization reservation setting function
- Time setting function



Ergonomic Design

- The 10° angled viewing window improves comfort and alleviates fatigue of operator
- 75mm adjustable supporter ensures correct height for different users
- UV sterilization reservation function
- Lamp is set behind supporter, making eyes more comfortable
- Automatically remind when filter lifetime less than 10% , so that filter can be changed in time
- Removable stainless steel work surface makes convenient cleaning
- Draining valve is easy to clean and maintain



Interlock Safety Protection

- Glass sash and the blower/motor interlocking
Close sash, blower/motor stop automatically to avoid malfunction of blower/motor free-running.
- Fluorescent light & UV light interlocking
Close sash, the fluorescent light stays the status of on; Only after turning off fluorescent light, the UV light can be turned on, to avoid exposure of ultraviolet light.
- UV light, blower/motor and fluorescent light interlocking
When sash closed and UV light on, if sash is opened, UV light turns off automatically, while fluorescent light and blower/motor turn on automatically simultaneously, to avoid exposure of ultraviolet light and microorganisms.
- Sash and fluorescent light interlocking
When opening height of sash exceeds the safety limit line, fluorescent light turns off to avoid operator working in insecure environment.

Intelligence alarm system

- Alarm when opening height of sash exceeds the safety limit line
- Alarm when airflow fluctuation exceeds 20%
- Alarm when sash is not closed properly but blower turned off
- Alarm when filter life is less than 10% of total lifetime

	Biosafety Cabinets	Air Quality	Filtration	Electrical Safety
Standards Compliance	EN 12469, Europe SFDA YY-0569, China	ISO 14644.1, Class 3, Worldwide US Fed Std 209E, Class 1 USA	EN-1822 (H14), Europe IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	EN61010

Specifications



	Model	HR30-IIA2	HR40-IIA2	HR60-IIA2
Technical Data	Type	Class II Type A2		
Electrical Data	Working Voltage& Frequency	220V±10%,50Hz	220V±10%,50/60 Hz	220V±10%,50Hz
	Power(VA)	1300		
	Power of Blower(W)	350		
	Airflow Circulation	70% downflow, 30% exhaust		
	Main Filter Typical Efficiency	ULPA,99.9995%@0.12µm		
	Exhaust Filter Typical Efficiency	ULPA,99.9995%@0.12µm	HEPA,99.995%@0.3µm	ULPA,99.9995%@0.12µm
	Downflow Velocity(m/s)	0.30	0.28	0.32
	Inflow Velocity(m/s)	0.58	0.55	0.58
	Fluorescent Lamp Intensity(Lux)	≥1100	≥1100	≥1100
Dimensions	Net/Gross Weight	220/248(kg) 485.0/546.7(lbs)	258/293(kg) 568.8/646.0(lbs)	328/390(kg) 723.1/859.8(lbs)
	Internal Dimensions(W*D*H)	900*610*680(mm) 35.4*24.0*26.8(in)	1167*610*680(mm) 45.9*24.0*26.8(in)	1735*610*680(mm) 68.3*24.0*26.8(in)
	External Dimensions(W*D*H)	1100*780*2200(mm) 43.3*24.0*26.8(in)	1360*780*2200(mm) 53.5*30.7*86.6(in)	1960*780*2200(mm) 71.2*30.7*86.6(in)
	Packing Dimensions(W*D*H)	1170*930*1700(mm) 46.1*36.6*67.0(in)	1430*930*1700(mm) 56.3*36.6*67.0(in)	2000*930*1700(mm) 78.7*36.6*67.0(in)
	Supporter	75mm adjustable height		
	Container load (20'/40'/40'H)	8/18/18	7/16/16	6/13/13
Function	Alarm	Sound and Flash		
Others	Certificate	SFDA	EN12469,SFDA,CE	SFDA

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