Haier Biomedical
Intelligent Protection of Life Science
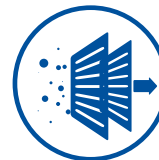
Tecomak
ENVIRONMENTAL SERVICES

Class II
Biosafety Cabinets

Energy Efficient
DC+EC fans and longer lasting LED lights reduce energy consumption.

Double Exhaust Filters
Two highly efficient HEPA dual output filters reduce the risk of lab pollution.

24/7 Protection

Haier Biomedical's double exhaust filtered Class II microbiological safety cabinet offers three levels of protection; operator, product and environment.

Side Glass Windows
Glass wall allows more natural light in, reducing optical stress caused by artificial lighting, as well as maximising the usable space.

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Safer by Design

The HR1200-IIA2 double exhaust filtered biological safety cabinet utilises two highly efficient HEPA exhaust filters and one ULPA downflow filter to provide three levels of protection; operator, product and environment. As there is no need for external ducting, this is a cost-effective solution.

The unit is certified to the EN 12469 standard. It uses energy efficient DC and EC fans, as well as LED lights to ensure for optimal performance with a low noise output and reduced energy consumption. The ergonomic design ensures maximum comfort and alleviates operator fatigue.

Patented Technologies
The range incorporates two patented technologies which offer total user protection and improves the cabinet's energy efficiency.

Patented Waterproof Socket Timer
The two IP rated 44 waterproof sockets within the cabinet have a timed on/off function for improved safety and energy conservation.

Patented Safe Airflow Disruption System
The units utilise side air design on the upper edge and on both sides of the front window to eliminate 'blind spots'. This prevents crossflow between inside and outside air, reducing contamination.

Certified to EN 12469 Standard
HEPA exhaust filters – typical efficiency of >99.99% for 0.3 micron particles. ULPA filter (downflow) provides vertical laminar flow to the worktable.

Easy to Clean
The divided work surface can easily be removed for sterilisation and allows for easy access to the base of the cabinet for cleaning. The unique drop-down front glass window can be removed in seconds to enable quick and efficient cleaning of upper sections, limiting downtime.
There is also a stainless steel rear wall and easy to access drain valve.

Lower Noise and Airflow Uniformity
DC fan operates with lower noise and better uniformity airflow.

Clear Controller with LCD screen display
LCD control panel displays various parameters and clear operational conditions.

Ergonomic Design
Designed with the user in mind, this cabinet features 10° angled front window to provide a comfortable workspace, adjustable height stand, castors with self-levelling feet and a drop-down window design for easy cleaning. A removable hand rest reduces arm fatigue without interfering with the air inflow.

Multiple Alarm Functions
Clear and easy to understand alarm with visual and sound alert functions. Alarms include filter and UV end-of-life alerts, fan turned-off after door opening alert and door open alarm.

Four Service Fixtures
Four access ports are located on either side of the cabinet for easy access and flexibility.

UV Lamp
Ultraviolet light can be set with one single key to automate on/off time, sterilisation time and sterilisation time interval from 0 to 24 hours, reducing downtime.

PRODUCT ADVANTAGES

Plugable Power Cable: Power cable can be changed according to a user's need.

LCD screen displays real-time operating parameters, filters lifecycles and other critical parameters.

Adjustable stand fits a customer's need.

Standard waterproof socket, water valve and air valve.

Debris grid catches debris such as paper scrap to damage negative pressure zone.

Drop-down glass door is easy to clean.

Compartmented working surface is easy to be sterilised and cleaned.

PRODUCT DIMENSION DRAWING

1380mm

1310mm

630mm

780mm

620mm

1460mm

90

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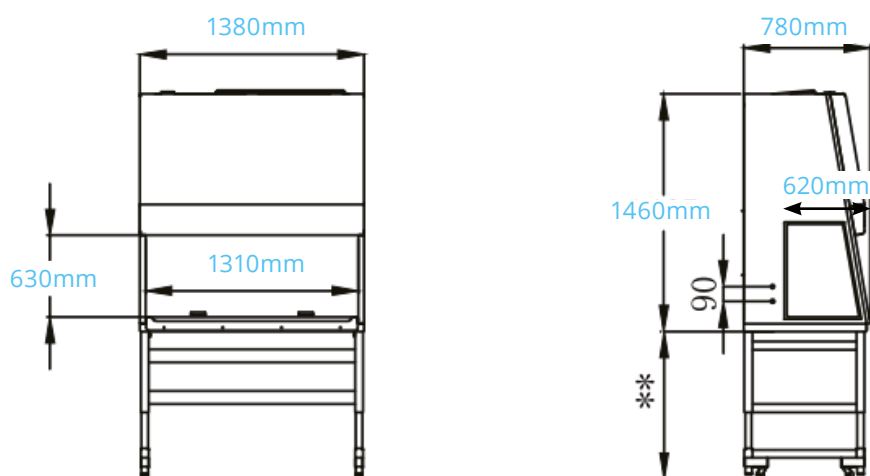
** Height adjustable stand, adjustable range: 680-900mm

PRODUCT SPECIFICATIONS

Model		HR1200-IIA2-D
Product Type		II,A2
Working Voltage & Frequency (V/Hz)		220V 50/60Hz
Power(W)		200W
Power of Blower(W)		DC 190W, EC 170W
Current(A)		8A（Including Socket）
Energy consumption (kW.h)		0.2
Applicable People		1~2
Airflow Circulation		70% Downflow,30% Exhaust
Main Filter Typical Efficiency		ULPA ,U15,99.9995%@0.12um
Exhaust Filter Typical Efficiency		HEPA ,H14,99.99%@0.3um
Filter's Brand		Camfil
Downflow Velocity(m/s)		0.3
Inflow Velocity(m/s)		0.45
Fluorescent Lamp Intensity(Lux)		≥1000
Ultraviolet Lamp		Y
Clean Level		10#（ISO Class 4）
Noise(dB(A))		58
Fan / Fan Type		EBM brand / DC+EC fan
Service Fixtures		4(2 on each side)
Outlet Sockets		2(1 on each side)
Net/Gross Weight	kg	320/360
	lbs	705.5/793.0
Internal Dimensions(W*D*H)	mm	1310*620*630
	in	51.5*24.4*24.8
External Dimensions(W*D*H)	mm	1380*780*1465
	in	54.3*30.7*57.7
Packing Dimensions(W*D*H)	mm	1470*920*1690
	in	57.9*36.2*66.5
Working Height of Front Window(mm)		200 (Max 380)
Stand		680-900mm adjustable height
Container Load (20'/40'/40'H)		8/16/16
Alarm		Sound and Flash
Certificate		CE, BS EN 12469, TUV