

PRODUCT SPECIFICATIONS

| Model   |   | HR1200-IIA2-D  |                      |
|---|---|--|----------------------|
| General Specifications                                | Power Supply(V/Hz)                        | 220-240/50/60  |                      |
|   | Power(VA)                                 | 1600   |                      |
|   | Power of Blower(W)                        | DC 190, DC 170   |                      |
|   | Airflow Circulation                       | 70% Downflow,30% Exhaust                                       |                      |
|   | Main Filter Typical Efficiency            | ULPA ,U15.99.9995%@0.12um                                      |                      |
|   | Exhaust Filter Typical Efficiency         | HEPA×2 ,H14.99.9995%@0.3um                                     |                      |
|   | Exhaust Filter                            | Dual   |                      |
|   | Filter's Brand                            | AAF  |                      |
|   | Downflow Velocity(m/s)                    | 0.30   |                      |
|   | Inflow Velocity(m/s)                      | 0.45   |                      |
|   | Lighting Intensity (Lux)                  | ≥1000  |                      |
|   | Sound Level(dB(A))                        | 60   |                      |
|   | Dimensions                                | Net/Gross Weight   | kg                   |
| lbs   |   |  | 705.5/747.4          |
| Internal Dimensions(W*D*H)                            |   | mm   | 1310*620*635         |
|   |   | in   | 51.6*24.4*25         |
| External Dimensions(W*D*H)<br>(Width without Armrest) |   | mm   | 1380*856(796)*1485   |
|   |   | in   | 54.3*33.7(31.3)*58.5 |
| Packing Dimensions(W*D*H)                             |   | mm   | 1475*935*1720        |
|   |   | in   | 58.1*36.8*67.7       |
| Support Stand(mm)                                     | No. 680-900mm adjustable height(optional) |  |                      |
| Sash Opening(mm)                                      | 200(Max 490)                              |  |                      |
| Container load (20'/40'/40'H)                         | 8/16/16                                   |  |                      |
| Alarm 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                                    | 2 Sockets  |                      |
|   | Valve Port                                | Optional   |                      |
|   | Side Wall Service Taps                    | Optional gas tap, vaccum tap, compressed air tap and water tap |                      |
|   | Antimicrobial Powder Coating              | Optional   |                      |
|   | 316SS Work Surface                        | Optional   |                      |
|   | Work Surface                              | Three-piece  |                      |
|   | Touch Screen                              | N  |                      |
|   | Motorized Window                          | Optional   |                      |
|   | Foot Switch                               | Optional   |                      |
|   | Armrest                                   | Y  |                      |
|   | Exhaust Duct Connection Kits              | Optional   |                      |
| Others  | Certification                             | CE, UKCA, TUV  |                      |

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

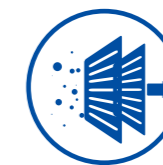
# Haier Biomedical

Intelligent Protection of Life Science

## Class II Biosafety Cabinets



**Energy Efficient**  
Two DC 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.



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

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

### Qingdao Haier Biomedical Co.,Ltd.

No.280 Feng Yuan Road, High-tech Zone,  
Qingdao, 266109, P.R. China  
E-mail: inquiry@haierbiomedical.com  
Website: www.haiermedical.com



Haier Biomedical International



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@haiermedicalint



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## Safer by Design

The HR1200-IIA2-D 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 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 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 >99.995% 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 access drain valve.



### Lower Noise and Airflow Uniformity

DC fan operates with lower noise and better uniformity airflow.



### Smart Mode Operation

A human body module detects whether a person has moved outside of the operating area for 15 minutes. The cabinet will automatically switch to a Low Noise Safety Energy Conservation mode, to reduce noise and improve the service life of the filter.



### Clear Controller with LCD screen display

LCD control panel displays various parameters and clear operational conditions.



### Optional Electric Glass Door

The glass door is electrically operated. The standard glass-height opening during work is set to 200mm. The glass door can also be pulled down - in order to allow easy access for complete and effective cleaning and decontamination.



### Intelligent Constant Velocity Technology

To maintain a constant airflow speed across the workbench, the Haier Biomedical series of biological cabinets utilise sensors to monitor workbench airflow in real-time and compare this with standards. The microprocessor controller then adjusts the fan speed to keep the downflow and inflow speed at a constant velocity.



### 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.



### 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.



### 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.



### Two Service Fixtures

Two 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



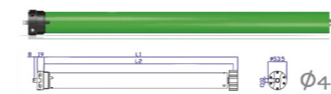
Plugable Power Cable: Power cable can be changed according to a user's need.



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



Adjustable stand fits a customer's need.



Electrical glass door motor make the use procedure more comfortable. (Optional)



Standard waterproof socket, water valve and air valve.



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

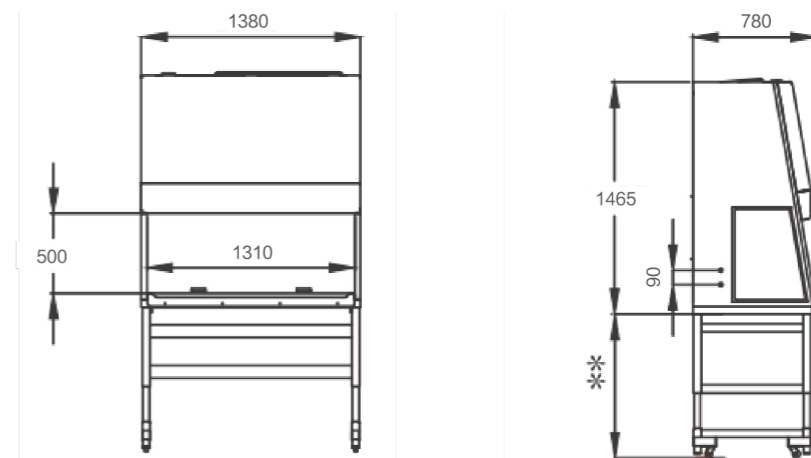


Drop-down glass door is easy to clean

Electric glass door Drop-down glass door is easy to clean.

Partitioned workbench is easy to sterilize and clean.

## PRODUCT DIMENSION DRAWING



HR1200-IIA2-D

\*\* means the adjustable stand ranges from 680mm to 900mm.