



Biosafety Cabinet

Class II A2 , 1220mm Unit

The EN Metal Structure Biosafety Cabinet Class II A2 is an advanced unit engineered to safeguard laboratory staff, the environment, and critical work processes involving biological agents.

The cabinet is built with a durable epoxy-coated metal structure and features SS304 stainless steel internals, including a retractable one-piece worktop with a spill tray. The front window, made of 6mm triplex safety glass, is equipped with a manual counterweight system for ease of use.

The microprocessor control system is accessible through a 10.1" colour touchscreen display. This intuitive interface provides real-time updates on the cabinet's status, including alerts for unsafe conditions, filter maintenance, and other critical reminders. The cabinet's airflow pattern, classified as Class II, Type A2, delivers 70% circulation and 30% exhaust, which, combined with two advanced HEPA H14 filters (99.9995% efficient at capturing particles as small as 0.3µm), ensures a high level of contamination protection.

For further functionality, the cabinet includes a high-efficiency, quiet ECM fan with VAV auto filter clogging compensation, as well as multiple alarms for inflow, downflow, sash position, critical chamber conditions, filter status, and service reminders. The cabinet is also equipped with a real-time filter gauge status display, a germicidal waterproof UV light system (254nm) with a safety interlock mechanism, and LED lighting with a brightness of 1000 lux.

Additional features include two universal sockets, time, date, temperature, and humidity displays, and multi-language control with metric or imperial units. The unit is supported by an adjustable stand and armrest, meets ISO 5/CLASS 100 cleanliness levels according to ISO 14644-1 and US Federal Standard 209E, and is CE certified, fully complying with EN 12469 standards.

Product Features

- Real-Time Status Updates & Alerts Via A 10.1" Colour Touchscreen
- High-Efficiency ECM Fan & VAV Auto Filter Clogging Compensation
- Advanced HEPA H14 Filters for Superior Contamination Protection
- Real-Time Filter Gauge Status Display

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Product Specifications

Type	Biosafety Cabinet Class II A2
Hood Material	Oven-Treated Epoxy Coated 16-Gauge Chemical-Resistant, 1.5mm CRCA Galvanised Metal Sheet Epoxy-Coated Metal 304 Stainless Steel Interior.
Digital Display	10.1" Colour Touchscreen Display
Illumination	1000 lux, Eco-Friendly LED Lighting, Germicidal UV Light 254mm
Microprocessor Control	Microprocessor Controlled, Air Velocity Monitoring, Alarm, Sash Alarm, UV Control, Lights Control & Electric Outlets Control.

Performance Information

Downflow Velocity	0.33 m/s, 66 fpm
Inflow Velocity	0.5 m/s, 100 fpm
Airflow Pattern	70% Circulation, 30% Exhaust
Power Supply	115/230V, 50/60 Hz, Single Phase
Noise Level	< 62 dB (Tested 200mm from the workstation and 1.2M above the ground.)
ECM Fan	Yes, with VAV auto filter clogging compensation.
Filters	HEPA H14 Efficiency 99.9995% At 0.3µm

Safety Information

Front Sash Opening	Clear visibility of 550mm, maximum opening of 450mm, and working height of 200mm.
Adjustable Stand	700/800/900mm
Workspace Dimensions	1135mm W x 620mm D x 650mm H
External Dimensions	1220mm W x 800mm D x 1450mm H

Physical Dimensions

Alarms	Inflow & Downflow Alarms, Sash Position Alarm, Critical Chamber Red Light Alarm, Filter Alarm, Service Reminder Alarm.
Cleanliness Level	Class 100/ISO 5
Standards Conformity	CE Certified, EN 12469
Country of Origin	United States of America

Ordering Information

SKU	Description
665-617	Biosafety Cabinet Class II A2, Metal, 1220 W x 800 D x 1450mm H