

FALCON 4002B




BIOLOGICAL SAFETY CABINET CLASS II B2





BIOLOGICAL SAFETY CABINET CLASS II B2


AirBio's Biological Safety Cabinet Class II B2 is a type of containment system designed for working with hazardous biological agents and chemicals. It offers both personnel and environmental protection through a combination of inward airflow, HEPA filtration, and exhaust systems. Unlike other Class II cabinets, the Class II B2 is specifically designed for use with microvolatile chemicals and radionuclides, featuring a 100% exhaust system, meaning all air is filtered through two HEPA filters and then vented outside the laboratory to prevent contamination. It maintains a sterile working environment by providing unidirectional airflow and high containment, ensuring that hazardous materials do not escape into the laboratory. Additionally, the Class II B2 cabinet typically includes a redundant filtration system for maximum safety, and it is built to meet stringent standards making it suitable for pharmaceutical, research, and clinical environments where both biological and chemical safety is critical.


FALCON-4002B KEY FEATURES


- 


7" inch large touch screen display for real time performance data monitoring and operations with multiple audible/visual alarm features.
- 


Power-on password protected for user specific programmed operation and to prevent unauthorized cabinet access.
- 


Power-off memory, restore the state before power-off, and have a visual reminder to alarm.
- 


Monolithic construction of work surface area provides enhanced sterility, ease of cleaning and improved airflow.
- 


Airflow velocity sensor for real time monitoring of constant airflow profile and to activate alarm in case of fluctuation.
- 


Manually operated standard 200mm sash opening for easier access into the work zone and safety.
- 


The cabinet is separated from the base. The height of the adjustable base can be customized.
- 


Safety interlock function integrates sash, UV lamp and fan operations to ensure safe and efficient operation.
- 


It has an appointment timing function, which can automatically set the timing of turning on, turning off and the running time of the UV lamp, fan, and socket.
- 


Ergonomically designed front window with counterbalancing for easy lifting and comfortable head and elbow positioning reducing fatigue.
- 

The cabinet is designed with a 10" inclination angle, which conforms to the principle of ergonomics, has a larger viewing angle, is easy to operate and is more user-friendly.
- 

Anti-paper dust structure at the air inlet to prevent paper dust from entering the air cavity.
- 

Removable countertop is easier to clean and easy maintenance in case of spillage.
- 

Automatic airflow compensation technology ensures constant air volume when there is air disruption or filter loading
- 

Automatic programmable UV timing function when the equipment is unattended.
- 

Front loading plenum box for ease of maintenance and improved accessibility.



The AirBio Ethics

At AirBio, we are committed to delivering precision-engineered solutions that redefine safety and efficiency in your workspace. Our BioSafety Cabinets, Fume Hoods, and Laminar Flows are designed to meet the highest standards, ensuring your team and research are always protected. Built with cutting-edge technology and unmatched reliability, our products empower you to focus on innovation without compromise. With AirBio, you're choosing a partner dedicated to safeguarding your success and advancing your mission.

Statistics



100%
Equipment
Quality



40+
Years Team
Experience



6+
Industries
Served



54+
Country
Reach

Trusted by



FALCON-4002B SPECIFICATIONS

Model	Falcon 4002B
Type	Certified Biological Safety Cabinet class II Type B2
Airflow System	0% air recirculation; 100% air exhaust
Inflow Velocity(m/s)	0.35+0.025
Downflow Velocity(m/s)	0.53+0.025
HEPA Filter	Supply and exhaust filter with 99.97% typical efficiency at 0.3 micron.
Max Opening	500 mm
Tested Opening	254 mm
Work Surface Height	760 mm
Work Zone Material	1.2mm/18gauge thick Stainless Steel type 304 with 2B finish
Main Body Material	1.2mm/18 gauge thick galvanized steel with epoxy polyester powder coating.
Front Window	Manually operated UV resistant and UV opaque 6mm thick tempered glass
UV Lamp	30 W
LED Lamp	24 W
Illumination	2600 Lumens
Display	7" inch large touch screen display for real time operations & data monitoring
Visual and audio alarm	Low or high airflow alarm, sash position alarm, maximum filter load alarm and UV lamp life expectancy alarm.
Motor	AC single fan, Adjustable speed, high efficiency, low power
Noise	<65dB
Standard Accessory	Cabinet Base stand, LED lamp, UV lamp, Drain ball valve, Socket, Arm rest, and Gas tap
Optional Accessory	SS water tap, SS gas tap, motorized sash and Height adjustable base stand.
External Size (WxDxH)	1310x780x2130mm
Internal Size (WxDxH)	1178x595x630mm
Package Size (WxDxH)	1480x1050x2250mm
Gross Weight	185 kg
Power Supply	AC 230V, 50Hz