

ZHICHENG[®]

www.zhichenginstrument.com

Class II Type A₂
Biological Safety Cabinets

Work Safely
Work Comfortably



70% Re-circulated Airflow
30% Exhaust
No exhaust connection required!

Description:

The Class II A2 Biological Safety Cabinets released by ZHICHENG are designed to protect personnel, sample, the environment from exposure to biohazards agents of low to moderate risks that require Biosafety Level 1, 2 or 3 containment. The Cabinets provide the following three basic types of protection for work in the life science, clinical and pharmaceutical fields.



- ◆ Personnel protection from biohazards agents inside the cabinet
- ◆ Sample protection to avoid contamination during experiment or process
- ◆ Environmental protection from contaminants contained within the cabinet

The Biological Safety Cabinets incorporate a number of features include:

- Built-in sash position alarm that is triggered when the sash is raised above its operating height.
- Room air is drawn into the perforated front grille through a front access opening with carefully maintained inward airflow.
- Approximately 70% of the air recirculates through a supply ULPA filter and 30% exhausts through an exhaust HEPA filter.
- An integral alarm system constantly monitors the volume of air exhausted. Should the exhaust air volume drop below an acceptable level, an audible and visible alarm triggers, and the blower stops.
- Intrinsically safe negative pressure design captures any contamination, preventing its escape into the laboratory.
- Interlocked UV light only operates when blower and fluorescent light are off and sash is fully closed.
- 10° sloped, tempered safety glass sash for less glare and more comfortable viewing.
- One-piece, crevice-free type SUS304 stainless steel interior minimizes the potential of any leaks.

Ergonomic Design, Eye-Level Controls
New Motor Technology, Virtually Silent



Technical Specifications

Models	ZSB-900 II A2	ZSB-1200 II A2	ZSB-1500 II A2	ZSB-1800 II A2
Category	Class II, Type A ₂			
Airflow Mode	70% air recirculated, 30% exhausted			
Setting	Digital			
Display	LCD			
Operating Condition	@ ambient 10-30 degree.C, RH humidity ≤85%, air pressure 80-105Pa			
Inflow Air Velocity	Nominal 0.5~0.6m/s			
Downflow Air Velocity	Nominal 0.35m/s (±0.015)			
Sash Opening	200mm (±5mm)			
Sash Control	Manually-controlled			
Supply Filter Type (main)	ULPA			
Supply Filter Efficiency	≥99.999%@0.1-0.2μm			
Exhaust Filter Type	HEPA			
Exhaust Filter Efficiency	≥99.999%@0.3μm			
Illuminating	≥650Lux			
Disinfection	UV Light			
Noise	≤67dB (A)			
Alarms	ULPA/HEPA filter monitoring alarms			
Power Supply	AC 220V 50/60Hz			
Workarea Dimension	930x635x655 (mm)	1230x635x655 (mm)	1540x635x655 (mm)	1840x635x655 (mm)
External Dimension	1120x805x2270 (mm)	1420x805x2270 (mm)	1730x805x2270 (mm)	2030x805x2270 (mm)
Power	550W	660W	800W	1100W
Net Weight	205kg	250kg	295kg	350kg

Class II Type B₂ Total Exhaust

Biological Safety Cabinets

(Not applicable to export)

Models	ZSB-900 II B2	ZSB-1200 II B2	ZSB-1500 II B2	ZSB-1800 II B2
Category	Class II, Type B2			
Airflow Mode	100% exhausted			
Setting	Digital			
Display	LCD			
Operating Condition	@ ambient 10-30 degree.C, RH humidity ≤85%, air pressure 80-105Pa			
Inflow Air Velocity	Nominal 0.5~0.6m/s			
Downflow Air Velocity	Nominal 0.35m/s (±0.015)			
Sash Opening	200mm (±5mm)			
Sash Control	Manually-controlled			
Supply Filter Type (main)	ULPA			
Supply Filter Efficiency	≥99.999%@0.1-0.2μm			
Exhaust Filter Type	HEPA			
Exhaust Filter Efficiency	≥99.999%@0.3μm			
Illuminating	≥650Lux			
Disinfection	UV Light			
Noise	≤67dB (A)			
Alarms	ULPA/HEPA filter monitoring alarms			
Power Supply	AC 220V 50/60Hz			
Workarea Dimension	930x635x655 (mm)	1230x635x655 (mm)	1540x635x655 (mm)	1840x635x655 (mm)
External Dimension	1120x805x2270 (mm)	1420x805x2270 (mm)	1730x805x2270 (mm)	2030x805x2270 (mm)
Power	550W	660W	800W	1100W
Net Weight	205kg	250kg	295kg	350kg