

# Class II Type A2 / B2 Biological Safety Cabinet

Zhichu Biosafety Cabinet can provide the best security protection for products/samples,high efficiency ULPA filter, operator/experimenter and lab environment.

- Using professional-grade wind speed sensor to realize fan automatic speed regulation.
- Real-time wind speed data uploaded to the cloud, traceable.
- Airflow mode: A type Exhaust 30% / Circulated 70%; B type Exhaust: 100%
- 2 pieces high safety and efficiency ULPA filters(option).
- Fan system with maintenance free is stable(Germany EBM fan is optional).
- Low power consumption, shutdown by remote control.



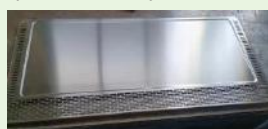
## FEATURE

### Latest glass touch screen with control



### Humanized internal design

Work area is made of 304 stainless steel plate, it is easy to disassemble and clean.



### High efficiency ULPA filter

- The filter efficiency reaches 99.9995% for granules above 0.12um.
- ULPA filter can protect samples while meeting Class 1 air cleanliness standards (compliant with ISO14644.1 standard Class 3100 times cleaner than Class 100).
- The external discharge ULPA filter filters the bio-hazardous particles in the operating room air before discharging them into the laboratory environment to protect personnel and the environment.



### A2 type roof

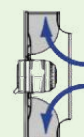


### B2 type roof



### Clearness

- The yellow warning maintain parts in the non-polluted area are easy to replace and maintain.
- The cabinet front cover can be opened to clean.
- UV sterilization.



### German EBM maintenance-free fan system

Maintenance-free centrifugal external rotor fan from German ebm-past company.



### Surrounding negative pressure leak- proof design

- Negative pressure can surround all contaminated positive pressure area to prevent leaks caused by damaged filter and failed seal.
- The design makes easily open the front cover to replace parts.



### Ergonomic design

The height adjustable host shelf is optional

## Accessory List

| Item No. | Remark                                 |
|----------|--|
| SD-13    | 711mm Support shelf (for 1300)         |
| SD-15    | 711mm Support shelf (for 1500)         |
| SD-18    | 711mm Support shelf (for 1800)         |
| UV30     | 30W,254nm UV lamp (for 1500, 1800)     |
| PLUG     | Recessed Splash Resistant Power Outlet |
|          | European water port                    |
| FLOW     | American universal gas interface       |

# Technical Data



| Model  |                    | 1300  | 1500                                       | 1800                                       |
|--|--------------------|---|--|--|
| External Dimension(W×D×H)without shelf           |                    | 1340mm×760mm×1400mm<br>(52.8"×29.9"×55.1")  | 1645mm×760mm×1400mm<br>(64.8"×29.9"×55.1") | 1950mm×760mm×1400mm<br>(76.8"×29.9"×55.1") |
| Internal Dimension(W×D×H)                        |                    | 1270mm×608mm×670mm<br>(50"×23.9"×26.4")   | 1575mm×608mm×670mm<br>(62"×23.9"×26.4")    | 1880mm×608mm×670mm<br>(74"×23.9"×26.4")    |
| Airflow Velocity                                 | Inflow             | Initial setpoint: >0.50m/s (When airflow is lower than 0.40m/s, the sound and light alarm will start)   |  |  |
|  | Downflow           | Initial setpoint: >0.35m/s (When airflow fluctuates more than 20% of the nominal value, the sound and light alarm will start)                   |  |  |
| Airflow exchange Volume (Air Volume Rated value) | Inflow-A2          | 356cmh  | 441cmh                                     | 527cmh                                     |
|  | Downflow (70%)-A2  | 741cmh  | 919cmh                                     | 1096cmh                                    |
|  | Downflow-B2        | 790cmh  | 993cmh                                     | 1194cmh                                    |
|  | Exhaust(30%)-A2    | 356cmh  | 441cmh                                     | 527cmh                                     |
|  | Exhaust(100%)-B2   | 1146cmh   | 1434cmh                                    | 1721cmh                                    |
| Air Cleanliness Standards In The Work Area       |                    | Class I ,ISO14644.1 Class3, FS 209E Class1/M1.5, AS1386 Class1.5, JIS B9920 Class3, BS5295 Class, KS27030.1,2083 and AFNOR X44101 Class M10,000 |  |  |
| Downflow / Exhaust Filter                        |                    | ULPA Filter , with built-in metal mesh and metal frame, for compliance to EN 1822 and IEST-RP-CC001.3   |  |  |
| Filter Efficiency(%)                             |                    | ULPA Filter >99.9995% @ above 0.12μm  |  |  |
| Sound Emission(EN12469)*                         |                    | <59dBA  | <59dBA                                     | <60dBA                                     |
| Fluorescent Lamp Intensity(NSF49)*               |                    | >1190Lux  | >1100Lux                                   | >1020Lux                                   |
| Cabinet Construction                             | Main Body          | 1.5mm cold rolled sheet   |  |  |
|  | Sidewall structure | 0.8mm 304# stainless steel, stainless steel double-layer negative pressure chamber design   |  |  |
| Power  |                    | 220-240V / 50Hz   |  |  |
| Rated Power / Current                            |                    | 306W / 1.75A  | 322W / 1.7A                                | 556W /3.3A                                 |
| Net Weight                                       |                    | 210 kg (463.0 lbs)  | 248kg(546.7 lbs)                           | 298kg(656.9 lbs)                           |
| Shipping Weight                                  |                    | 260 kg (573.1 lbs)  | 310kg(683.3 lbs)                           | 350kg(771.5 lbs)                           |
| Shipping Dimension (W×D×H)                       |                    | 1400mm×860mm×1650mm<br>(55.1"×33.9"×65")  | 1700mm×860mm×1650mm<br>(66.9"×33.9"×65")   | 2010mm×860mm×1650mm<br>(79.1"×33.9"×65")   |
| Shipping Volume                                  |                    | 2.0 m <sup>3</sup>  | 2.41 m <sup>3</sup>                        | 3.0 m <sup>3</sup>                         |

## Other lab equipments from Zhichu family

- Shaking Incubator
- CO2/tri-gas incubator
- Laminar Flow Clean Bench
- Ultrasonic Cell Disruptor
- Refrigerated Thermostatic Circulator

Distributor:

Information is subject to change and/or updating without notice @ 2023 Zhichu A2B2 BSC -202312

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