

## Model JSCB-1800SB : Biological Safety Cabinet Class II Type A2



Cabinet enclosure designed Class II Type A2 provides personnel, product and environment protection from hazardous particles such as bacteria, viruses and genetically manipulated materials such as nucleic acids that require Biosafety Level 1, 2 or 3 containments.

Various applications in medical, biomedical, biotechnology, pharmaceutical, cell culture, tissue culture, virology and pathology applications using pathogens, genetic materials, carcinogens, allergens may generate hazardous airborne particles.



### MAIN FEATURES

#### Controller

- Integrated Digital microprocessor control system with graphic LCD display
- Fan ON/OFF and 10-step adjustable air velocity
- LED lamp ON/OFF
- UV lamp ON/OFF
- Adjustable UV sterilization timer
- Elapsed time counter and alarm for HEPA filter replacement

### Performance

- Biological Safety Level Class II Type A2 design provides a higher level of personnel, product and cross contamination protection by keep filtrate airborne particles from the air stream
- Inflow moves from the room air is drawn into the inlet grille at the work access opening and pass through a negative pressure plenum to blower creates HEPA filtered downward laminar air stream over the work area
- Approximately 70% of the HEPA-filtered air is re-circulated through the cabinet into the work zone, while 30% passes through an exhaust HEPA filter and is discharged into the laboratory room air
- Aluminum Frame Mini-pleated HEPA filters with nominal filtration efficiency of 99.993% ~ 99.995% for airborne particles larger than 0.3 um
- Optional ULPA filter had higher filtration efficiency of 99.999% for airborne particles larger than 0.12 um

### Construction

- Durable epoxy powder coated metallic casing
- Removable Stainless Steel 304 working plate

### Convenience

- Ergonomic arm rest and 3 degree slanted front glass window
- Removable working zone plate for easy cleaning and decontamination
- Front service access panel for comfortable maintenance
- The front door can also be closed fully to keep the cabinet interior clean during non-use period as well as to prevent exposure to UV radiation during sterilization
- Epoxy powder coated SPCC exterior for durability
- Silent and vibration free blower fan motor for comfortable working environment
- LED lamp working light
- 253 nm Germicidal UV lamp on working zone
- Supplied with Base Stand with caster

### Safety

- UV Lamp CUT-OFF when front door is opened
- TOTAL USING TIME LOG
- HEAP Filter replacement alarm
- OVER CURRENT CUT-OFF : Fuse

## SPECIFICATIONS

Description	MODEL JSCB-1800SB
<b>Performance Data</b>	
Safety Class	BSC Class II Type A2
Air flow type	70% re-circulation / 30% exhaust
Down-Flow	0.3 m/sec
In-Flow	0.5 m/sec
Filtration Efficiency	HEPA filter 99.993~99.995 % for particles > 0.3 um
(Nominal)	ULPA filter 99.999 % for particles > 0.12 um
Noise Level	< 65 dB
Work Light	1510 Lux
Type of Work Light	LED 20 watt x 2 ea
Germicidal UV Lamp	40 Watt x 1 ea, 253.7 nm 19.8 W Ultraviolet Output

Dimension Data	(W x D x H mm)
Working Width	1790 mm (5 ft)
Int. Dims. (W x D x H)	1790 x 550 x 585 mm
Ext. Dims. (W x D x H)	1860 x 800 x 1290 mm (without stand)
Ext. Dims. (W x D x H)	1860 x 800 x 1970 mm (with stand)

Controller
<ul style="list-style-type: none"> <li>Digital microprocessor control system with graphic LCD display</li> <li>Soft touch capacitive buttons with light</li> <li>10-step adjustable air velocity control</li> <li>Fan ON/OFF and speed control</li> <li>Working lamp ON/OFF</li> <li>UV lamp ON/OFF</li> <li>Adjustable UV sterilization timer</li> <li>Total time used of HEPA Filter</li> <li>HEPA filter replacement alarm</li> </ul>

Safety Data
<ul style="list-style-type: none"> <li>Safety Device</li> <li>Over Current Cut-Off</li> <li>Automatic UV Lamp turn off on door open</li> <li>HEPA filter replacement alarm</li> </ul>

**Material Data**

Working Plate	Removable Stainless steel 304 (AISI 304)
Body	SPCC /w epoxy powder coating
Front sash door	Tempered safety glass door

**Utility & Accessories**

Working LED lamp 20 watt x 2 ea
Germicidal UV lamp 40 watt x 1 ea
Power receptacle for 220 V European cord x 2 ea
Gas cock x 2 ea

**Electrical Data**

Rated voltage	220 ± 10% VAC
Power frequency	50 / 60Hz
Nominal power	375 Watt 1.7 amp
Phase	1 Phase
Plug configuration	CEE 7/7 Schuko or BS 1363

**Usable Condition**

Temp. & Humidity	5°C - 40°C, < 80% RH
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**Packaging Data**

Shipping Dims. (W x D x H mm )	1940 x 940 x 1650 mm
Type of packaging	Carton on a wooden palette
Net Weight	267.0 kg
Shipping Weight	290.0 kg

## ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSCB-1800SB	<b>Biological Safety Cabinet Class II Type A2, 1800mm</b> including Stand with Caster Instruction Manual Warranty Card	230 VAC 1~ ph 50/60Hz

## ACCESSORIES

Art. No.	Descriptions
OHF-U04	ULPA Filter Option (Factory built-in) 99.999 % for particles > 0.12 um filtration efficiency



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