

## Model JSCB-1800SL : Vertical Laminar Flow Safety Cabinet



Vertical Laminar Flow Cabinet enclosure designed to maintain ISO Class 5 (formerly Class 100) clean air. HEPA filtered laminar air down flow over the work area to protect products or samples being handled in the cabinet from dust or biological contaminants such as bacteria, fungus and genetic materials.

Various applications in plant tissue culture, microbial inoculation, media preparation, PCR, electronic or medical parts inspection and assembly where dust particles and contaminants should not be present in the air of working area essentially needed.

### 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

- The contaminated room air intake through pre-filter and blower create HEPA filtered down ward laminar air stream over the work area which flows towards sash door to protect products or samples in the cabinet being handled from dust or biological contaminants such as bacteria or fungus.
- 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-1800SL
<b>Performance Data</b>	
Safety Class	Biosafety Level 1 for Product Protection Only
Air flow type	Vertical Laminar Flow
Down-Flow	0.3 m/sec
Filtration Efficiency (Nominal)	HEPA filter 99.993~99.995 % for particles > 0.3 um 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 audible 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
HEPA Filter / Frame	Glass Fiber / Aluminum
Pre-Filter	EN 779 Woven Nylon

**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-1800SL	<b>Vertical Laminar Flow Safety Cabinet, 1800mm</b> including Stand with Caster Instruction Manual Warranty Card	220 VAC 1~ ph 50/60Hz

## ACCESSORIES

Art. No.	Descriptions
OHF-U08	ULPA Filter Option (Factory built-in) 99.999 % for particles > 0.12 um filtration efficiency



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