

Model JSCB-900SL : 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.

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 μm
- Optional ULPA filter had higher filtration efficiency of 99.999% for airborne particles larger than 0.12 μm

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-900SL |
|------------------------------------|--|
| Performance Data | |
| 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 11 watt x 2 ea |
| Germicidal UV Lamp | 20 Watt x 1 ea, 253.7 nm 7.5 W Ultraviolet Output |

| Dimension Data | (W x D x H mm) |
|------------------------|-------------------------------------|
| Working Width | 830 mm (3 ft) |
| Int. Dims. (W x D x H) | 830 x 550 x 585 mm |
| Ext. Dims. (W x D x H) | 900 x 800 x 1290 mm (without stand) |
| Ext. Dims. (W x D x H) | 900 x 800 x 1970 mm (with stand) |

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

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

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 11 watt x 2 ea |
| Germicidal UV lamp 20 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 | 200 Watt 0.9 amp |
| Phase | 1 Phase |
| Plug configuration | CEE 7/7 Schuko or BS 1363 |

Usable Condition

| | |
|------------------|----------------------|
| Temp. & Humidity | 5°C - 40°C, < 80% RH |
|------------------|----------------------|

Packaging Data

| | |
|--------------------------------|----------------------------|
| Shipping Dims. (W x D x H mm) | 950 x 940 x 1650 mm |
| Type of packaging | Carton on a wooden palette |
| Net Weight | 120.0 kg |
| Shipping Weight | 170.0 kg |

ORDERING INFORMATION

| Art. No. | Descriptions | Voltage |
|------------|---|-----------------------|
| JSCB-900SL | Vertical Laminar Flow Safety Cabinet, 900mm including Stand with Caster Instruction Manual Warranty Card | 230 VAC 1~ ph 50/60Hz |

ACCESSORIES

| Art. No. | Descriptions |
|----------|---|
| OHF-U05 | ULPA Filter Option (Factory built-in) 99.999 % for particles > 0.12 um filtration efficiency |



JS RESEARCH INC.

Gongju-City, Korea

TEL +82 41 856 3677

FAX +82 41 856 3679

info@jsresearch.co.kr

www.jsr.kr