

# SAFETY CABINETS



**JSR**

[주] 제이에스리서치  
JS Research Inc.

# Safety

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## CABINET

## BIOHAZARD LAMINAR FLOW Clean Bench

### Biological Safety Cabinet Class II Type A2

Cabinet enclosure designed Class II Type A2 provides personnel, product and environmental 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 generates hazardous airborne particles.



Biological Safety  
Class II Type A2



HEPA Filter  
99.993 % for 0.3 um particles



ULPA Filter  
99.999% for 0.12 um particles



9 Step Air Velocity Control  
0.3 m/sec ~ 0.6 m/sec



Cold White  
Fluorescent Work Lamp



Germicidal UV Lamp  
/w Timer



# Vertical Laminar Flow Clean Bench



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.



Vertical Laminar Flow  
ISO Class 5 (Class 100)



HEPA Filter  
99.993 % for 0.3  $\mu$ m particles



ULPA Filter  
99.999% for 0.12  $\mu$ m particles



9 Step Air Velocity Control  
0.3 m/sec ~ 0.6 m/sec



Cold White  
Fluorescent Work Lamp



Germicidal UV Lamp  
/w Timer

# Safety CABINET

## BIOHAZARD LAMINAR FLOW Clean Bench

### JSCB-SB Series BSC Cabinet Class II Type A2



MODEL	WIDTH	AIR VELOCITY	PROTECTION
JSCB-900SB	830 mm	0.3 m/sec. ~ 0.6 m/sec.	Personnel Product Environment
JSCB-1200SB	1205 mm		
JSCB-1500SB	1490 mm		
JSCB-1800SB	1790 mm		

### Digital LCD Control



## Performance

### Digital Control

- ▶ Back light LCD display
- ▶ 9 Step Air velocity control
- ▶ UV sterilization timer
- ▶ Total using time counter
- ▶ LCD 디지털 컨트롤러
- ▶ 9 단계 풍속 제어 기능
- ▶ 자외선 살균시간 타이머
- ▶ 총 사용 시간 로그
- ▶ 필터 교체 시기 알람



### HEPA Filter

- ▶ Aluminum frame mini-pleated HEPA Filter efficiency 99.993 ~ 99.995% with guard mesh
- ▶ Optional ULPA Filter efficiency 99.999%
- ▶ 알루미늄 프레임 mini-pleated HEPA Filter 99.993% ~ 99.995% 여과효율
- ▶ 필터보호 메쉬 장착
- ▶ 옵션 : ULPA Filter 99.999%



### Safety

- ▶ UV Lamp cut-off in case of Fluorescent lamp turned on
- ▶ TOTAL USING TIME LOG
- ▶ HEPA FILTER REPLACEMENT ALARM
- ▶ OVER CURRENT CUT-OFF : Fuse
- ▶ 멸균램프 소등장치
- ▶ 형광등 켜면 멸균등이 자동으로 소등되어 유해 자외선으로부터 사용자 보호
- ▶ 총사용시간적산기록
- ▶ HEPA 필터 교체시기 알람
- ▶ 퓨즈 : 전기누설 시 주전원 차단

# Convenience

## ▶ Working Area

- ▶ Ergonomic arm rest
- ▶ Removable working zone plate for cleaning and decontamination
- ▶ Front service access panel for comfortable maintenance
- ▶ Base stand with caster
- ▶ 인체공학적으로 설계된 팔받침
- ▶ 분리 가능한 SUS 304 작업 바닥판
- ▶ 유지보수가 편리한 서비스 판넬
- ▶ 이동식 캐비닛 스탠드



## ▶ FL and UV Lamp

- ▶ Cold white fluorescent lamp
- ▶ 253nm Germicidal UV lamp
- ▶ 주광색 형광등 작업 램프
- ▶ 253nm 자외선 멸균램프



## ▶ Utility

- ▶ Tempered Safety Glass Sash Door
- ▶ Power receptacle
- ▶ Gas and air supply valve
- ▶ 상하 슬라이딩 전면 유리 도어
- ▶ 220V 전원 콘센트
- ▶ 가스 및 에어 공급 밸브



## JSCB-SL Series Vertical Laminar Flow Cabinet



MODEL	WIDTH	AIR VELOCITY	PROTECTION
JSCB-900SL	830 mm	0.3 m/sec. ~ 0.6 m/sec.	Product
JSCB-1200SL	1205 mm		
JSCB-1500SL	1490 mm		
JSCB-1800SL	1790 mm		

# Aspiration

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## SUCTION PUMP



## Bio-Suction Pump

Model JSBS-5000 Bio-Suction is an economical, compact and portable solution for aspirating tissue culture samples, aqueous solutions, buffers, culture media residual suction.

Two stage oil-free piston pump provides a high flow rate and powerful vacuum aspiration. 4000 cc glass autoclaveable collection receiver bottle with over flow protection stopper protects liquid ingested into the pump system which may lead to the valve failing or a diaphragm rupturing. Pump automatically shut down when full and a hydrophobic PTFE inline filter further protects the pump from aerosol ingestion.

Hands free foot pedal switch provides convenient On/ Off operation.

Built-in silencer provides comfortable noise-free operation





## Ordering Information

	JSBS-3000	JSBS-5000
Pumping Capacity	20 liter / min	40 liter / min
Ultimate Vacuum	650 mmHg (-0.08 Mpa ABS)	
Collection Bottle		
Capacity	4000 cc	
Material	Glass Bottle /w Cap	
Utility	Cap with overflow protection cut-off level sensor	
	Inlet / Outlet Fitting /w Cap	
Pump Control	On / Off / Foot Pedal	
Safety	<p>Φ50 mm Hydrophobic inline PTFE filter protects aerosol ingestion</p> <p>Automatic pump shut off when bottle is full</p>	
Convenience	<p>Built-in Silencer</p> <p>Portable carrying handle</p>	
Accessories included	<p>Main body built-in vacuum pump system</p> <p>Collection receiver bottle</p> <p>Φ50 mm inline PTFE filter</p> <p>Foot Pedal</p> <p>Silencer</p> <p>Silicone Tubing</p>	
Dimensions	240 x 370 x 330 mm	250 x 400 x 330 mm
Electrical Requirement	220 VAC 50 / 60 Hz	