

Laminar Flow Cabinet, Vertical type



Laminar Flow Cabinet



Accessories



Description

Vertical Laminar Flow Cabinet provides sample protection as purified air travels across the working zone of the cabinet in a vertical, unidirectional stream and leaves the main work chamber across the entire open front of the cabinet.

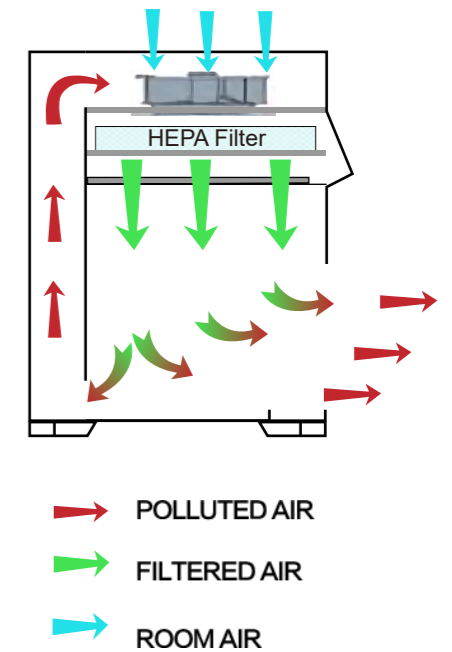
Application

- Microbiology (non-pathogenic)
- Forensics
- Sterile product compounding

Advantage

1. LCD display, Microprocessor control system.
2. Air speed adjustable, HEPA filter and sterilization lamp replacement reminder function.
3. HEPA filter with efficiency: 99.995% at 0.3um.
4. Pre-filter is polyester fiber, washable and anti-oxidation.
5. UV sterilization system.
6. With memory function in case of power-failure.
7. Interlock function: UV lamp only can be switched on when the front window is closed, ensuring operator safety.
8. UV timer: When the setting time expires, the UV lamp automatically switches off in preparation for the next experiment.

Airflow Pattern



Laminar Flow Cabinet



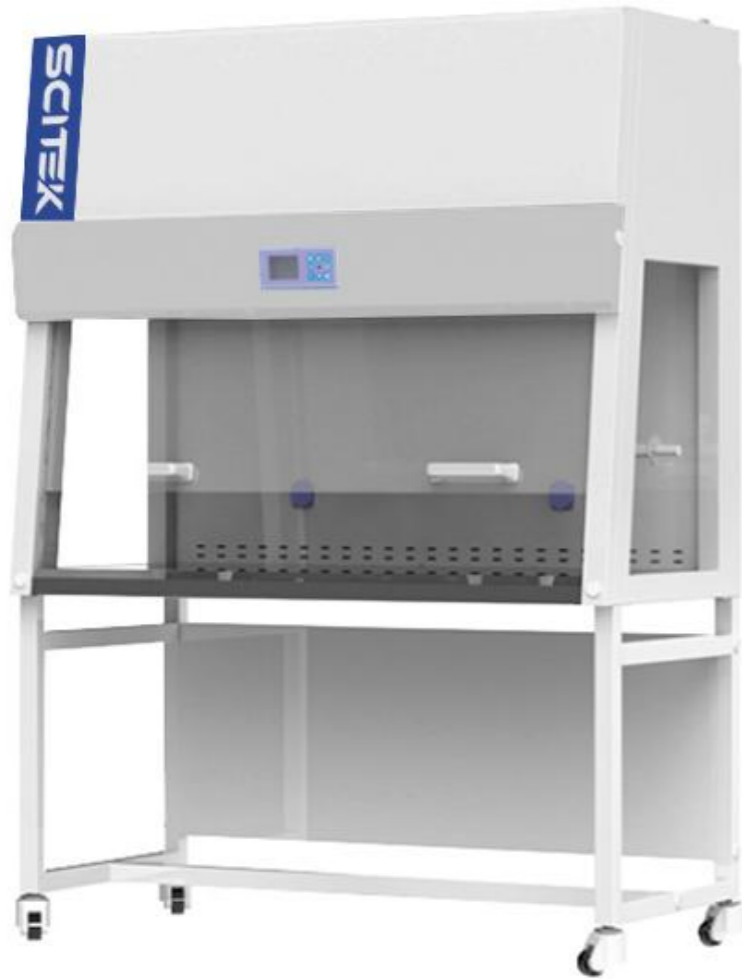
Specification

Model	LCB-V800
External Size (WxDxH)	710x680x1050mm (Without base stand) 710x680x1670mm (With base stand)
Internal Size (WxDxH)	610x590x625mm
Work Surface Height	750mm
Airflow Velocity	0.2-0.5m/s, speed adjustable
Pre-Filter	Polyester fiber, Washable
HEPA Filter	≥99.995% efficiency at 0.3μm
Windows	Front and Side windows, 5mm toughened glass, anti-UV
Display	Microprocessor controlled with LCD display, graphical and digital display of the operating status of each function
Material	Main Body: Cold-rolled steel with anti-bacteria powder Work Table: 304 stainless steel
Noise	≤62dB
UV Lamp	8Wx1pcs, Emission of 253.7 nanometers, with UV timing function, Interlock with front windows.
LED Lamp	8Wx1pcs
Illumination	≥500lx
Caster	Universal caster with leveling feet
Max. Consumption	800W
Waterproof Socket	1pcs
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz
Standard Accessory	UV lamp; LED lamp; Waterproof socketx1;
Optional Accessory	Base stand
Net Weight	80kg(Without base stand),130kg(With base stand)
Gross Weight	115kg(Without base stand),165kg(With base stand)
Shipping Size (WxDxH)	850x936x1218mm

## Laminar Flow Cabinet, Vertical type



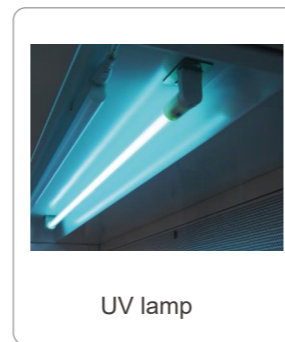
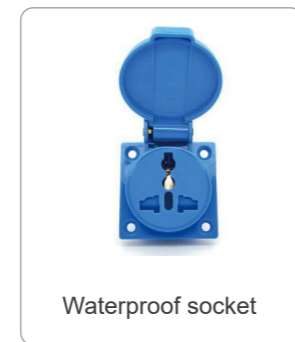
Laminar Flow Cabinet



### Description

Vertical Laminar Flow Cabinet provides sample protection as purified air travels across the working zone of the cabinet in a vertical, unidirectional stream and leaves the main work chamber across the entire open front of the cabinet.

Most vertical laminar flow cabinets also have perforations at the back wall of the work zone which are designed to eliminate air turbulence and the possibility of dead air corners in the work zone.



### Applications

- Microbiology (non-pathogenic)
- Forensics
- Sterile product compounding

### Humanized Design

- Ergonomic Control Panel Location, centered and angled down for an easy reach & viewing
- Brushed stainless steel work surface is for easy cleaning
- The non-direct light source design can effectively relieve the operator's visual fatigue under the condition of ensuring the illumination
- Intuitive and easy-to-use microprocessor controller with LCD display, graphical and digital display of the operating status of each function, such as filter life, UV life etc.

### Convenience Features

- HEPA filter and UV life indicators facilitate a timely replacement plan
- Two side glass windows installed for easy experiment observation
- Easy-to-change pre-filter installed could extend the HEPA filter's lifetime
- Equipped with temperature sensor to show the real temperature during operation
- Waterproof socket provide convenience for small instruments to be used in the operating area

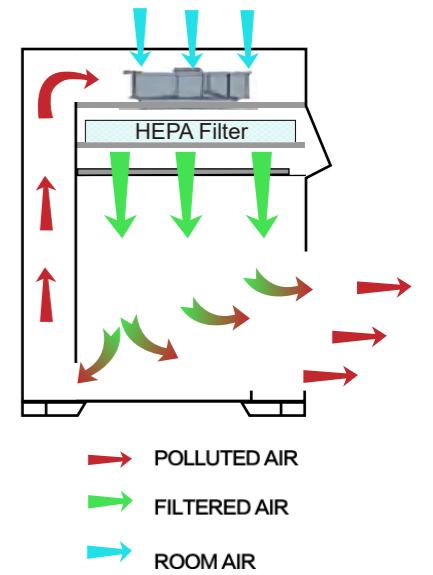
### Safety Performance

- Front sliding sash interlock with fan and UV lamp
- UV sterilization with UV lamp timing function
- Front sash and side windows are made of UV-resistant tempered glass
- The host and sockets have independent capacitors to prevent current overload
- Memory function in case of power-failure.

### Specifications

Model	LCB-V1100	LCB-V1300	LCB-V1600	LCB-V1900
External Size(W×D×H)(mm)	1050×710×1850	1320×710×1850	1625×710×1850	1930×710×1850
Internal Size(W×D×H)(mm)	950×615×625	1220×615×625	1525×615×625	1830×615×625
Control System	Microprocessor controller with LCD display, display the operating status of each function.			
Work Surface Height	750mm			
Airflow Velocity	Adjustable, 0.2~0.5 m/s			
HEPA Filter Efficiency	> 99.995% at particle size of 0.3 μm			
Pre-Filter	1 pc, made of washable polyester fiber			
Sound Emission	≤65dB(A)			
Fluorescent Lamp	LED Type, Intensity ≥900Lx			
LED Lamp	6.5W×1	9.6W×1	9.6W×1	6.5W×2
UV Lamp	20W×1	30W×1	30W×1	20W×2
Waterproof Socket	1pc	2pc	2pc	2pc
Consumption	155W	285W	285W	300W
Materials	Main Body: Electro-galvanized steel with antimicrobial Powder Coating Work Zone: Stainless steel, grade 304			
Windows	Manual Sliding Sash 5 mm UV Resistant Tempered Glass with counter-balance system and ergonomic handle Side Windows: 5 mm UV Resistant tempered glass			
Power Supply	AC 220V,50/60Hz; 110V,60Hz			
Standard Accessory	Base stand; LED lamp; UV lamp; Waterproof socket×2			
Optional Accessory	Water Tap; Gas Tap; IV bar; Height adjustable base stand			
Net Weight (kg)	170	190	220	230
Shipping Weight (kg)	225	255	285	330
Shipping Size(W×D×H)(mm)	1190×990×1325	1460×990×1325	1765×990×1325	2070×990×1325
Shipping Volume (m³)	1.56	1.92	2.3	2.7

### Airflow Pattern

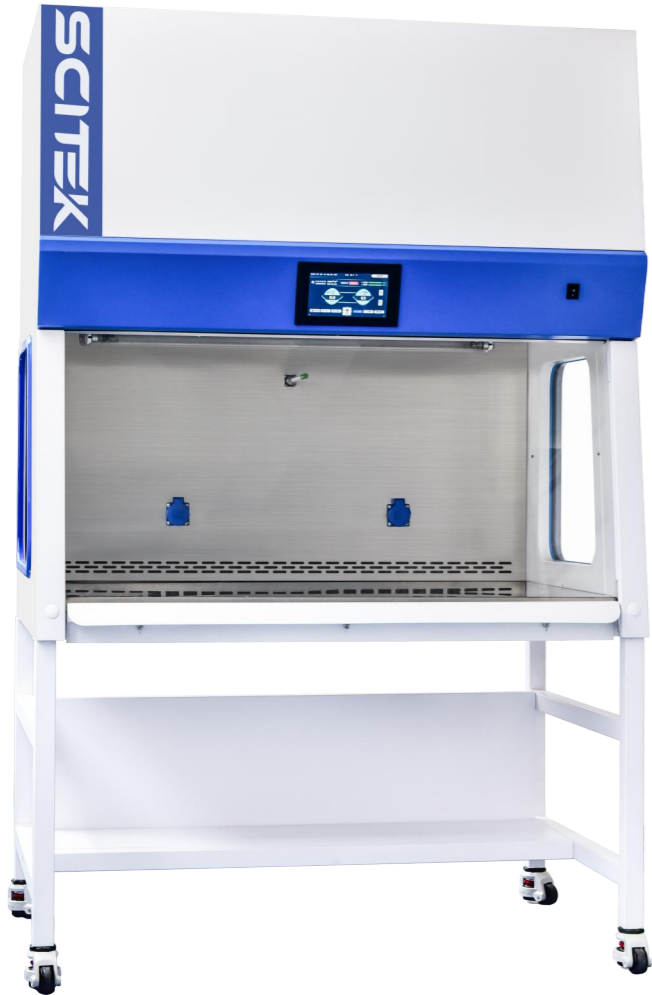


Laminar Flow Cabinet

Vertical Laminar Flow Cabinet



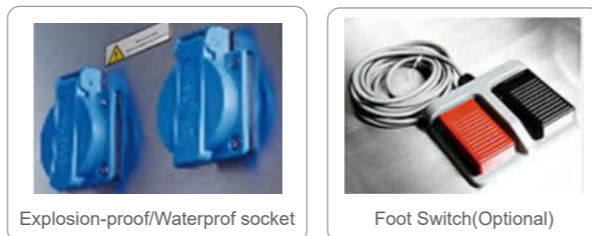
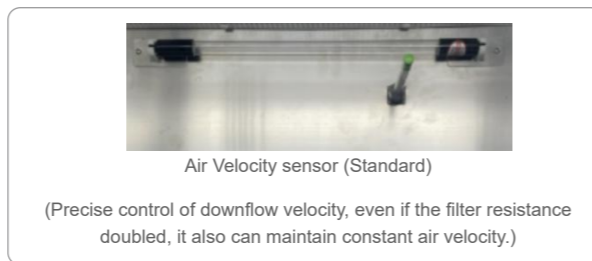
Vertical Laminar Flow Cabinet



Vertical Laminar Flow Cabinet

Microcomputer control

- Touch screen control and LCD display.
- Real-time monitoring and display of front window status, operating status, date, time, ambient temperature, HEPA filter life, UV lamp life.
- UV disinfection and sterilization function and its timing function can be set by appointment.
- Safety status display and sound and light alarm prompt function as well as operation log and alarm log query and viewing function.
- Three-level login management authority, control function setting, parameter setting and hierarchical menu entry can be performed.
- With memory function in case of power failure, the function before power failure will be automatically executed after power is restored.



Safety design

- Blower overheat and overload protection function;
- UV lamp button protection function;
- Automatic Motorized tempered glass front window, control limit and travel limit dual protection;
- Front window descent delay function, sound reminder to prevent pinching.
- Audio and visual alarm (Abnormal airflow velocity, HEPA filter failure, UV lamp failure, Front window at unsafe height).
- Interlock function: UV lamp and front window; UV lamp and blower, LED lamp; blower and front window.

Optional upgrade LED lamp can be choosed:

- Ra98 Color Rendering Index, restore the true color of the experimental object, experimental result is more accurate.
- RG0 without blue light, protects the operator from blue light.

Humanized design

- Removable stainless steel working surface, easy to pull out, convenient for cleaning and disinfection.
- Transparent side glass window design, which is convenient for multi-angle observation.
- The inclined operating front window design conforms to the ergonomic 10° inclination angle to improve the operating comfort.
- The base stand and casters are integrated and can be safely moved by casters. It can also be fixed and leveled.
- Low-noise design, energy-saving AC blower with built-in thermal protection, safe and efficient.
- Antibacterial material coating, effectively inhibits the growth of microorganisms on the surface of the cabinet, and is effective for a long time and will not be eliminated due to cleaning.
- Built-in Air velocity sensor, automatic control of blower adjustment, precise control of downward airflow, even if the filter resistance is doubled, it can maintain a constant wind speed.
- Equipped with dual filters, the Pre-filter effectively increases the service life of the HEPA filter.

Specifications

Model	LCB-V1300I
External Size (W×D×H) mm	1200×750×1870 (with base stand)
Internal Size (W×D×H) mm	1100×660×560
Work Surface Height	560mm
Max Opening	300mm
Front window	Automatic Motorized door, tempered glass, Thickness: 5mm
Display	LCD touch screen
Air Velocity	0.3-0.6m/s
Air Volume	600m <sup>3</sup> /h, 350cfm
Material	Work surface: 304 Stainless Steel Rear side of work area: 304 Stainless Steel Main body: Cold rolled steel
Pre-Filter	1pcs, Polyester synthetic fiber Filtration efficiency: G3 Size: 1000mm×350mm×46mm
HEPA filter	H14 HEPA filter, ≥99.995% efficiency at 0.3μm Size: 1050mm×490mm×70mm
Sound Emission	<64db(A)
Illumination	>350lx
Waterproof Socket	2pcs, Total power less than 500W
UV lamp	30W*1, T8
LED Lamp	10W*1 Standard general LED lamp (Color Rendering Index:Ra70~85) Optional upgrade LED lamp (Color Rendering Index:Ra98; RG0 without blue light)
Power Supply	220/110V, 50/60Hz
Power Consumption	Maximum 500W (without socket)
Standard Accessory	Air velocity sensor*1, Waterproof socket*2, LED lamp*1, UV lamp*1, base stand.
Optional Accessory	Manually adjustable base stand, Foot switch, Gas Tap, Differential pressure sensor, ULPA filter, Optional upgrade LED lamp
Shipping Size (W*D*H) mm	1400×1050×1620
Gross Weight	250kg

(Double Sides) Vertical Laminar Flow Cabinet



Vertical Laminar Flow Cabinet



Description

Double Sides Vertical Laminar Flow Cabinet provides sample protection as purified air travels across the working zone of the cabinet in a vertical, unidirectional stream and leaves the main work chamber across the entire open front of the cabinet. The Double-sides design is more convenient for multiple people to operate together.

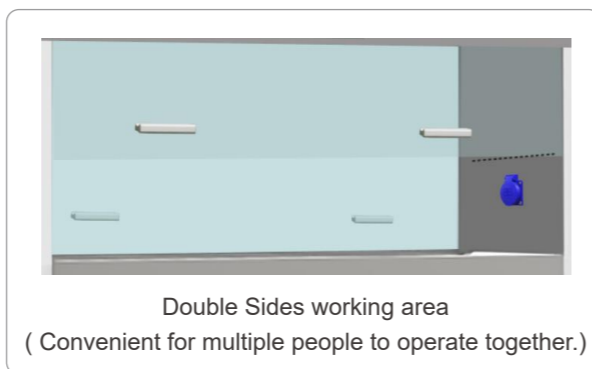
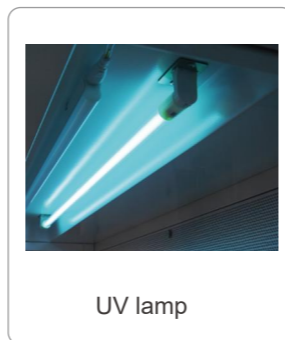
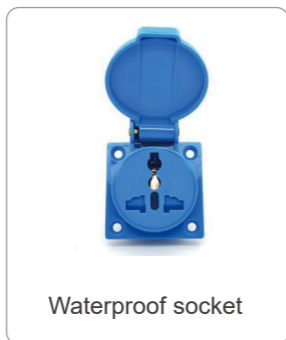


Humanized Design

- Brushed stainless steel work surface is for easy cleaning.
- The non-direct light source design can effectively relieve the operator's visual fatigue under the condition of ensuring the illumination.
- Intuitive and easy-to-use microprocessor controller with LCD display, graphical and digital display of the operating status of each function, such as filter life, UV life etc.

Safety Performance

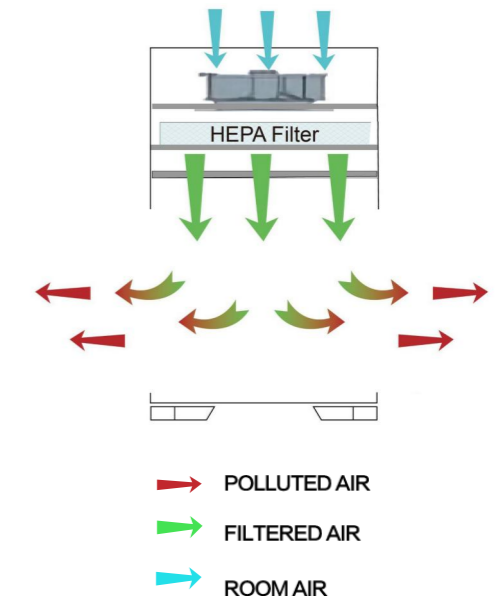
- Front and Back sliding sash interlock with fan and UV lamp.
- UV sterilization with UV lamp timing function.
- Front sash and back windows are made of 5 mm UV Resistant Tempered Glass .
- The host and sockets have independent capacitors to prevent current overload.



Convenience Features

- Memory function in case of power-failure.
- HEPA filter and UV life indicators facilitate a timely replacement plan .
- Double sides glass windows installed for easy experiment observation.
- Easy-to-change pre-filter installed could extend the HEPA filter's lifetime.
- Equipped with temperature sensor to show the real temperature during operation.
- Waterproof socket provide convenience for small instruments to be used in the operating area.

Airflow Pattern



Vertical Laminar Flow Cabinet

Technical Specifications

Model	LCB-V1100D	LCB-V1300D	LCB-V1600D
External Size (WxDxH)	1090×755×1850	1360×755×1850	1665X755X1850
Internal Size (WxDxH)	950×650×620	1220×650×620	1525X650X620
Max.Opening	450mm (Safety height is 400mm)		
Work Surface Height	750mm		
Control System	Microprocessor controller with LCD display, graphical and digital display of the operating status of each function.		
Airflow Velocity	Adjustable, 0.2~0.5 m/s		
HEPA Filter Efficiency	≥ 99.995% at particle size of 0.3 μm		
Pre-Filter	1 pcs, made of washable polyester fiber		
Cleanness	ISO Class 5 (formerly Class 100)		
Sound Emission	≤65dB(A)		
Illumination	≥900Lx		
LED Lamp	6.5W×1	9.6W×1	9.6W×1
UV Lamp	20W×1	30W×1	30W×1
	With timing function, Interlock with front sliding sash. Emission of 253.7 nanometers for best sterilization effect.		
Power Consumption	155W	285W	285W
	Doesn't include external device connected via power socket		
Cabinet Construction	Main Body: Electro-galvanized steel with antimicrobial Powder Coating		
	Work Zone: 304 Stainless steel		
	Manual Sliding Sash: 5 mm UV Resistant Tempered Glass with counter-balance system and ergonomic handle		
Power Supply	AC220V ±10%, 50/60Hz, 110V,60Hz, 1P		
Standard Accessory	Base stand; LED lamp; UV lamp; Waterproof socket×2; Footmaster caster		
Optional Accessory	Air velocity sensor, Manual Height adjustable base stand		
Net Weight	180kg	220kg	260kg
Gross Weight	230kg	275kg	320kg
Shipping Size (W×D×H) (mm)	1220×880×1395	1490×880×1395	1795X880X1395
Shipping Volume (m3)	1.5	1.8	2.2