

vertical laminar flow clean bench with ultraviolet lamp

Vertical laminar flow clean bench is a kind of equipment used to provide a clean environment, mainly used in laboratories, pharmaceuticals, electronics and other fields of dust-free operating environment.

Vertical laminar flow clean bench through the vertical airflow filtration of the work area, to ensure that the operation area is dust-free and bacteria-free, to provide reliable protection for precision operations.

Main Features of Vertical Laminar Flow Clean Bench

1. high efficiency filtration: the equipment is equipped with high efficiency filter without partition, the filtration efficiency reaches 99.995%, can effectively filter the diameter of 0.3um and above the tiny particles, to ensure that the work area air clean.
2. positive pressure design: positive pressure design of the work area, the outside air through the filter after purification, vertical downward discharge, thus effectively avoiding external pollution into the work area.
3. materials and structure: shell using cold-rolled steel, electrostatic spraying on the surface, with high corrosion resistance and oxidation resistance. The worktable is made of stainless steel, corrosion-resistant and easy to clean.



4. intelligent control system: equipped with a light touch switch control panel, and has a three-block wind speed design, flexible adjustment of air flow to meet the needs of different operations.
5. Intelligent interlocking design: equipped with UV lamps and fans, fluorescent lamps interlocking function, UV lamps can only be turned on when the fan and fluorescent lamps are off, to ensure the safety of the operator.
6. ergonomic design: the top air inlet is equipped with embedded lighting to avoid eye fatigue caused by direct light source, the whole equipment adopts silent design, effectively improve the comfort of the operator.

Advantages of Vertical Laminar Flow Clean Bench

1. high-efficiency air filtration: the use of high-efficiency filters to ensure that the air inside the bench is clean, reduce the contamination of particles and germs, suitable for experimental operations with high environmental requirements.
2. durability and durability: the use of high-quality materials and advanced design, so that the clean bench can not only provide a long time of stable operation, but also extend the service life of the filter, reduce maintenance costs.
3. operational safety: UV lamps and fans, fluorescent lamps, interlocking design, effectively preventing ultraviolet exposure to the operator, to ensure the safety of the process of use.
4. energy saving and environmental protection: Intelligent wind speed adjustment function can be adjusted according to the need to adjust the air volume, not only to save energy, but also to ensure the cleanliness of the working environment.

Working Principle

Vertical Laminar Flow Clean Bench draws in the outside air through the fan, and after filtered by the high efficiency filter, the purified air is discharged vertically to the working area. The air flow ensures that the clean air continuously covers the operation area and prevents the entry of external pollutants. Due to the positive pressure system, the working area is always in a high air pressure state, thus effectively preventing the penetration of external pollutants.

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Model	CB10	CB11	CB12	CB13
Type	single-sided, single-person	single-sided, two-person	single-sided, two-person	double-sided, two-person
External Dimensions	920x750x1860mm	1390x750x1860mm	1480x750x1860mm	
Internal Dimensions	820x595x620mm	1290x595x620mm	1360x635x620mm	
Filter Dimensions	820x500x69mm	645x500x69mm, two pieces	635x500x69mm, two pieces	
Airflow Velocity	0.27 to 0.37 meters per second			
UV Lamp Power	20Wx1	30Wx1	15Wx2	

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Model	CB10	CB11	CB12	CB13
LED Daylight Lamp Power	12Wx2	22Wx1		
Height from Work Surface to Floor	800 meters			
Noise Level	≤63dB			
Safety	colony count ≤0.5CFU per 30 minutes			
Illumination	≥300LX			
Weight	160kg	220kg	240kg	