

PRODUCT DATA SHEET

VERTICAL FLOW CLEAN BENCH



Product Description

The vertical laminar flow clean bench is a localized air purification device designed based on the principle of unidirectional vertical airflow. It utilizes high-efficiency air filters to purify the incoming air, creating a vertical clean air barrier that flows from top to bottom. This effectively prevents external contaminated air from entering the work area and rapidly removes contaminants generated during operation, thereby establishing a controlled environment within the workspace that meets specified cleanliness levels.

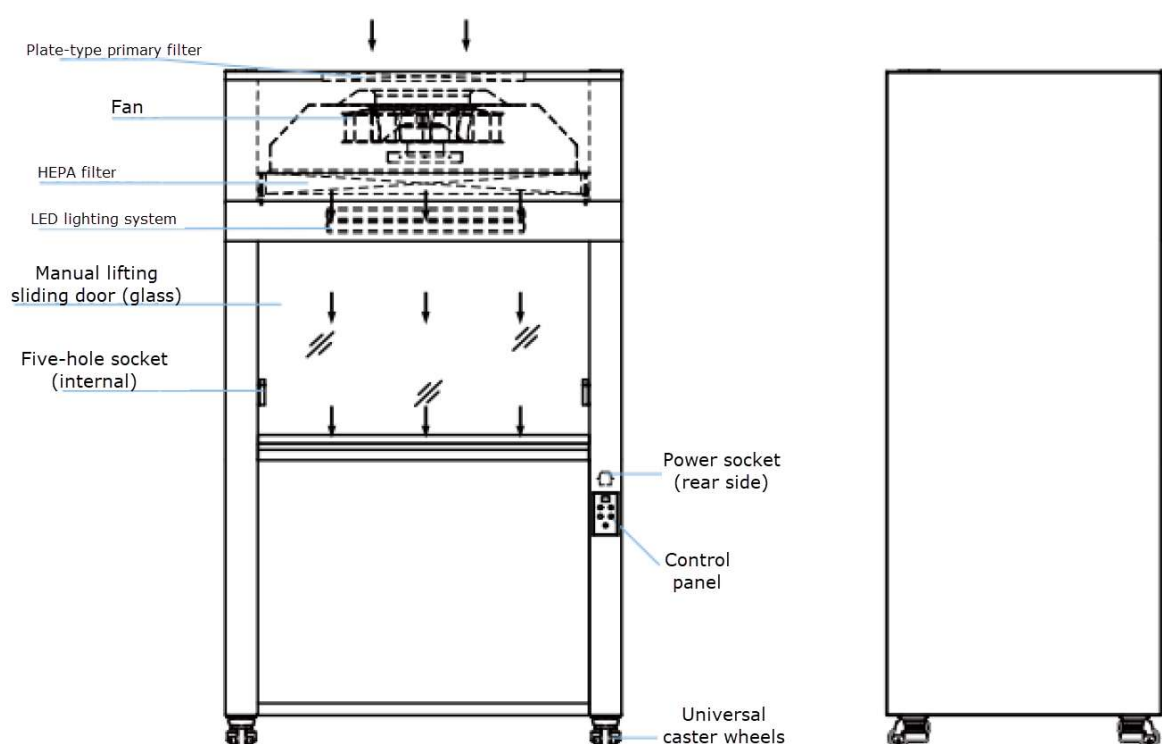
Product Features

- Vertical laminar airflow design with stable and uniform air velocity, creating an efficient clean pressure gradient in the work area to effectively isolate external contamination.
- Thickened stainless steel work surface with smooth, rounded edges (no dead corners), corrosion-resistant and easy to disinfect; overall structure is stable and capable of bearing heavy loads.
- Multi-stage air purification system with primary and HEPA filtration; capable of filtering more than 99.99% of particulate matter, continuously maintaining Class A (Class 100) cleanliness level within the work area.
- Intelligent control panel for fan speed adjustment, UV lamp and lighting control; intuitive operation with real-time status display.

Application Scenarios

Suitable for environments requiring localized sterile conditions, such as microbiological experiments, cell culture, pharmaceutical preparation, precision electronic assembly, and food testing. The vertical clean airflow effectively prevents contamination, ensuring operational safety and precision.

Airflow Diagram



Technical Specifications

Model Variants	SW-CJ-2FD
Dimensions	
External Size (mm)	1610 × 750 × 1670
Working Area Size (mm)	1450 × 680 × 500
Filter Size & Qty (mm)	705 × 580 × 50 × (2)
Operating Configuration	
Operation Mode	Single-side

Performance Parameters	Cleanliness Level: Class A / ISO Class 5 (Class 100)
	Filtration Efficiency: ≥ 99.995%
	Air Velocity: 0.45 m/s ± 20%
	Noise Level: ≤ 65 dB

Construction & Materials	
Cabinet Material	High-quality cold-rolled steel plate
Work Surface	Premium 304 stainless steel with brushed finish
Front Sash	Aluminum alloy frame with 5 mm tempered clear glass

Electrical & Lighting	
Power Supply	220V, 50Hz
UV Lamp Intensity	≥ 75 μW/m²
Illumination	300 LUX

Control System	
Touch-button / LCD display control panel enabling	Fan speed adjustment
	UV lamp control
	Lighting switch control
	Real-time operational status display