

Introduction to weighing hood (room)



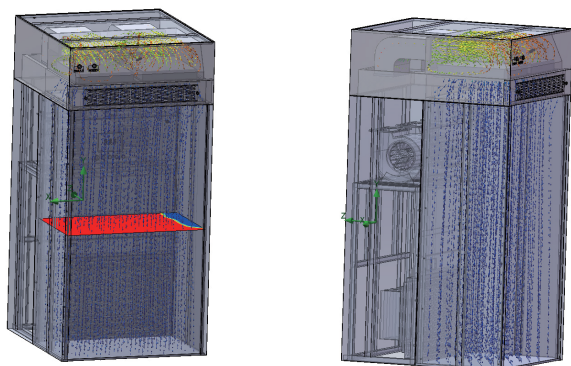
Model: DB series

SuXin DB series weighing hood (intermediate) is a local purification equipment, which can establish a local A-level environment in C or D grade clean room.

It can be used for raw material weighing, antibiotic sampling, hormone drug processing, etc., and can weigh powder drugs or liquid drugs.

Its working principle is as follows: after being filtered by the primary and medium efficiency filters, the air is pressurized into the static pressure chamber by a centrifugal fan. It then passes through the high-efficiency filter and spreads through the uniform flow membrane, forming a vertical unidirectional airflow. At the same time, about 10% of the circulating air is discharged from the top of the weighing hood to maintain a negative pressure in the operating area. This not only protects the safety of the operators but also safeguards the background environment and prevents drug contamination.

Airflow pattern diagram:



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product features

• The equipment uses online real-time particle monitoring

According to GMP standards, the cleanliness level of the operation area in the weighing room can be monitored and determined in real time, and displayed on the human-machine interface (A, B, C, D). In the idle period, it automatically switches to energy-saving mode; under the premise of ensuring the cleanliness of the equipment, energy saving is realized through intelligent operation of the fan.

Cleanliness level	Maximum allowable number of suspended particles /m ³				Approximate correspondence traditional specifications
	static state		trends		
	≥0.5μm	≥5μm	≥0.5μm	≥5μm	
A level	3520 (IS05)	20	3520 (IS05)	20	100 level
B level	3520 (IS05)	29	352000 (IS07)	2900	100 level
C level	352000 (IS07)	2900	3520000 (IS08)	29000	10,000 level
D level	3520000 (IS08)	29000	No provision is made	No provision is made	10,000 level

• The equipment adopts a variety of control modes

- Voice control: The device can be controlled through voice interaction
- Human-computer interface control:
The device is controlled through the touch screen

• Adopt the optimized design concept

- CFD fluid simulation is adopted to make the airflow more reasonable, reduce eddy current, and effectively improve the efficiency of the fan to achieve energy saving;
- CFD noise simulation is adopted to reduce noise and protect the health of workers through structural optimization
- Data storage function: The device provides a large storage space for data which can store 10,000 pieces of data. It also provides data export function to store the data in external mobile storage.
- Intelligent alarm: When the equipment is abnormal, the equipment can automatically determine and carry out intelligent alarm, and display the abnormal situation of the equipment in the human-machine interface.
- Easy cleaning design: the side panel is designed with seamless panels, and the connection is rounded, so the weld is easier to clean
- Easy to maintain design: the parts that need to be maintained are purchased and installed and fixed by magnetic door, which is convenient for later maintenance of the equipment

function

- Cleanliness level: 100
- Average attack speed: 0.3~0.54m/s adjustable
- Touch screen, use gloves to simplify the operation
- low noise

apply

- Widely used in pharmaceutical, food, chemical industry, electronics, scientific research laboratories, fine chemicals, new material research and development fields, for raw material weighing and measurement, antibiotic sampling, hormone drugs processing.

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parameter

model	DB series
Outline dimension	1200×1300×2500mm (L*W*H)
Working size	1100×700×2000mm
Main material	304 stainless steel
Cleanliness level	Level 100
Mean wind speed	0.3~0.54m/s (adjustable)
Primary filter	G4
Medium efficiency filter	F8
High efficiency particulate air filter	H14
Reduce the average wind speed of the airflow	0.45±20%
Noise	≤70dB
Vibration half peak	≤5μm
Illuminance	≥300Lx
Source	AC/380V/50Hz
Maximum power dissipation	≤1.5kW



Suzhou Suxin Environmental Technology Co., LTD



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