



## 4.5 Laminar Flow Cabinet

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### Classification

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Purification Equipment

### Product Description

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#### Laminar Flow Cabinet(LFC)

##### ※Product Introduction

The laminar flow cabinet is a kind of auxiliary equipment for clean rooms. It is mainly used for transferring small items between the clean area and the non-clean area, or between clean rooms of different grades and pressures. On the one hand, it acts as an air lock to prevent the high pressure in the high-level clean room from being depressurized. On the other hand, it achieves self-purification during the transfer process to ensure the cleanliness of the items entering the clean area and reduce cross-contamination caused by the items. Its blowing time can be adjusted arbitrarily through a manual switch to maximize self-purification and energy-saving effects.

##### ※Basic Performance Requirements

1. Cleanliness requirement inside laminar flow cabinet: Class B.
2. Double-layer inner and outer walls, with rounded internal corners to ensure seamless connection.
3. Adopt laminar flow design. Upper-supply and lower-return for air flow direction. Bottom designed with 304 stainless steel perforations and equipped with reinforcing ribs.
4. Filters: coarse filter G4, fine-efficiency filter H14.



5. Air velocity: air velocity after passing through the fine-efficiency filter is controlled at 0.38 - 0.57m/s (tested 150mm below the high-efficiency air-supply diffuser plate).
6. Differential pressure function: display the filter differential pressure (fine-efficiency 0-500Pa/ coarse 0-250Pa), with an accuracy of  $\pm 5$ Pa.
7. Control function: fan start/stop button, equipped with an internal electronic door lock; ultraviolet lamps are installed with a separate switch.
8. Fine-efficiency filter can be disassembled and installed separately from the upper box body, which is convenient for maintenance and replacement.
9. Noise: <65dB during normal operation.
10. High-efficiency air-supply diffuser plate: Made of 304 stainless steel perforated plate.

**※Size&Data**

Model	LJ-PBF-500	LJ-PBF-600
Working dimension(W*L*H))(mm)	500*500*500	600*600*600
Outer dimension(W*L*H)(mm)	690*565*1080	790*665*1180
Air velocity at the nozzle (m/s)	0.3~0.45	0.3~0.45
Air showering time(s)	Manual control	
Box&Inner wall material	SS304	
Fine efficiency filter size(W*L*H)(mm)	395*93*430	495*93*530
Filtration efficiency	(H14) 99.995%@0.3 $\mu$ m	
Power of the fan	220V/50Hz/275W	

Besides the size above, custom size acceptable.

**Related Products**

