

Bio-Safety

NSW-205

BIOLOGICAL SAFETY CABINETS

- A laminar flow biological safety cabinet is designed to provide three basic types of protection.
- Personnel protection from harmful agents inside the cabinet.
- Product protection to avoid contamination of the work, experiment or process
- Environmental protection from contaminants contained within the cabinet.
- A class II cabinets is widely suitable for protection of product, personnel and the environment and generally used in clinical, hospital, life science, research and pharmaceutical laboratories.
- These class II cabinets are once again classified based on the method and volume of air re-circulated and exhausted.
- The key features of class II cabinets are: carefully calculated inflow through front access a vertical laminar airflow through HEPA filter inside the work – area the exhausted air through HEPA Filter, let inside the room or into an dedicated exhaust facility.

A1 CLASS II CABINETS CLASSIFICATIONS

GENERAL SPECIFICATIONS

- 70% air re-circulated; 30% exhausted from a common plenum to the room;
- 75fpm intake;
- May have biologically contaminated positive pressure plenum.

CLASSIFICATION	BIO SAFETY LEVEL	APPLICATION
Class I	1,2,3	Low to moderate risk biological agents
Class II	1,2,3	Low to moderate risk biological agents
Class III	4	High risk biological agents

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BIOLOGICAL CABINET WITH CLASS II B-2

Specifications:

- Accord with the regulation for Class II, Type B2 Biological Safety Cabinet in American NSF/ANS149.
- The vertical lamina airflow has the patterns of 100% air exhaust to the outdoor or to the air exhaust system.
- HEPA and ULPA with NO LEAKING (Patent No. ZL200520140347.2) in air supply and exhaust system, ensure the cleanliness of ISO (Class 100) or ISO Class 4 (Class 10).
- The view screen of gradient of 10° make it comfortable to operate.
- Non-obstructive air return mode in the front suction channel (Patent No. ZL200520140353.8).
- V notch and humanized design of the shelf can make sure the protection of negative pressure and alleviate working tiredness.
- The air supply and exhaust pipelines adopt PDI Control Valve with BELIMO Actuator, which can effectively reduce air disturb from the outside.
- Interlocked light and sterilizing.
- Anti-splash safety spare socket and junction valve.
- Intelligent auto-supply system ensures the change of air volume less than 10% when the resistance of filter increases 50% and enhance safety.
- Leak detection in cabinet, no leakage at 500Pa.
- Leak detection in HEPA/ULPA, leaking ratio is ≤0.01% (scanned), ≤0.005% (not scanned).



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WORK DIMENSION

MODEL	SIZE		
	W	D	H
SIZE - BSC-1, B2	970	600	620
SIZE - BSC-2, B2	1270	600	620
SIZE - BSC-3, B2	1570	600	620