Helix Biosciences
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BIOSAFETY CABINET CLASS II B2

Description :-

Class II, type B2: this cabinet must be totally exhausted, with100% of the air exhausted through a dedicated duct.This cabinet may be used with etiologic agents treated with toxic chemicals and radionuclides required as an adjunct to microbiological studies.

This cabinet is designed for 100% exhaust through a proper ducting facility. This cabinet has no air re-circulation and dedicated to hazardous chemical reactions & biological agents like fungus, bacteria, and viruses in the microbiology lab. We design what you ask and we deliver with perfection at a reasonable price.

Most Importantly HEPA/ULPA filters are used to trap the particulates & contaminated hazardous agents. These Filters are selected for the filtration of chemical powders which are manufactured according to the ASTM standards. Biological Safety Cabinets Class II is specially manufactured for Microbiology laboratories because of its advantage of protecting samples from airborne contaminants. This is the advantage given by HEPA filters and Prefilters with air circulation in the workspace.

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REGISTERED OFFICE :- A-7, SOUTH WEST DELHI, NARAINA INDUSTRIAL AREA PHASE 1, NEW DELHI - 110028
MANUFACTURING :- PLOT NO. 360, IMT INDUSTRIAL ESTATE, SECTOR 68, FARIDABAD, HARYANA - 121004

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Applications :-

- Clinical laboratory processes
- Biotechnology
- Pharmaceutical industry
- General health care sectors
- R&D and industrial sectors
- Bacteria & virus handling

Special Features :-

- Magnarelli Gauge – Optional
- Floor Standing and table top models available.
- Single Piece Wall
- Large radius for easy cleaning
- Side-mounted electrical outlets and staggered service fixtures, for easy reach
- Raised arm rest: Helps prevent grille blocking and provides comfortable working posture.
- Microprocessor based control / HMI+PLC- Optional
- Displays all safety information on one screen
- Centered and angled down for easy reach & viewing
- Selectable Quick start mode for fast operation

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- Equipped with HEPA filter.
- ULPA filter (optional)
- UV Light
- UV interlock to prevent UV exposure (optional)
- UV hour meter to monitor bulb life (optional)
- UV timer (optional)

FEATURES :-

CE Certified	Highly Reliable
Energy Efficient	Proper Airflow Management System
Proper Fluorescent Lamp	DOP Test Port
Microprocessor-Based Controller	User-Friendly
Durable & Low Mainteance	MS Powder Coated Construction
Low Noise Operation	Wall Plenum Construction
Class 100 Work Environment as Per ISO 14644-1	audio/Visual sash alarm

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Operating Principle: :-

Ambient air is taken in through a pre filter at the top of the cabinet, and passes through the down flow HEPA filter, entering the work zone as Biosafety Cabinet. The uniform, non-turbulent air stream protects against cross contamination within and throughout the work area.Near the work surface, the down flow air stream splits with a portion moving toward the front air grille, and the remainder moving to the rear air grille. A small portion of the HEPA filtered down flow enters the intake perforations at the side capture zones (small blue arrows). The uniform, non-turbulent air stream protects against cross contamination within and throughout the work area. A combination of inflow and down flow air streams form an air barrier that prevents contaminated room air from entering the work zone, and prevents work surface emissions from escaping the work zone. The down flow combined with the inflow air enters the common air plenum. All air in the common plenum is HEPA filtered and exhausted via a dedicated ducting system to the external environment.

Construction Details: :-

The Biosafety Cabinet units are fabricated of PCRC, pre-coated corrosion resistant GI sheet or Stainless Steel-304.

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Motor and Blower Assembly:

Cabinets are provided with perfectly balanced (Static as well as dynamic) motor and blower motors bearing ISI mark. The rating of the assembly is 1/2 HP. high efficiency pumps which have life log lubricated bearings ensure a trouble-free operation for a long time.

Illumination:

Fluorescent light illumination greater than 800 lux on work table along with optimal wattage ultra violet UV light ensure high level of cleanliness in our equipment's.

Noise level:

Biosafety cabinet class II are designed to ensure minimum possible vibration and noise level.

HEPA filter:

Biosafety cabinet uses 99.97% efficient HEPA Filter (Also available in 99.99% ULPA) to remove particulate airborne contamination to meet cleanliness requirements.

Dimensions Matrix :-

Model	HBS-B222	HBS-B232	HBS-B242	HBS-B252	HBS-B262
Nominal Size	2 ft.	3 ft.	4 ft.	5 ft.	6 ft.
Working area (ft.)	2 x 2 x 2	3 x 2 x 2	4 x 2 x 2	5 x 2 x 2	6 x 2 x 2

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Technical specifications :-

Cabinet Contruction	PCRC, pre-coated resistant GI sheet
Working Platform Construction	Stainless Steel-304
Front Door	Vertical Sliding
Filter	HEPA (Optional-ULPA Filter)
HEPA Filter	99.97% for particle size 0.3 microns
Air Supply Filter	Pre-Filters are washable
Illumination	900 lux
Magnecule Gauge	Optional
Supply Air Blower	1440-RPM enclosed
Direction of Flow	Vertical
Air Flow speed	90 ft/minute ±20
Noise Pressure (DB) (A)	65 decibel ON a scale ±5
UV Germicidal lamp	30 germicidal UV lamp Emission of 253.7 nanometers for most efficient decontamination
Controller	Micro-processor Controller
Utilities as standard	Tap for Vacunm/Gas and Water
Electrical outlet socket	5 Ampere rating
Supply	Single Phase (220 V)

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