Description

A Class II Biological Safety Cabinet (Type A2) designed to provide comprehensive protection for laboratory personnel, products, and the environment against pathogenic microorganisms.

Type & Airflow

- **Cabinet Type:** A2
- **Airflow Distribution:** 70% recirculation, 30% exhaust

Internal Dimensions (W × D × H)

- **Minimum Working Area:** 1.2 m × 0.6 m × 0.7 m

Construction Material

- **Main Body:** Electro-galvanized steel, finished with white oven-baked epoxy-polyester antimicrobial powder coating
- **Work Surface:** Stainless Steel (316 SS), enhanced anti-corrosion and antimicrobial coating, highly durable and resistant to disinfectants

Technical Specifications & Features

Front Access & Safety

- UV-protective tempered safety glass (≥ 1/4" thickness)/Poly Carbonate Sheet
- Fully automated UV safety system
- Sash tested opening ≥ 200 mm for safe access to work area
- Maximum sash opening: ≥ 500 mm
- Working height: < 215 mm

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

User Interface

- Integrated **LCD Display** showing:
    - Hour of operation
    - Inflow velocities
    - Downflow velocities
    - Safety status
- Audible & visual alarms

Mobility & Safety

- Mounted on **Castor Wheels** for mobility
- Independent pressure sensors on exhaust and downflow plenums for maximum operator safety

Lighting

- Fluorescent lamp
- UV lamp (with automated safety interlock)

Airflow & Energy Efficiency

- Equipped with **Direct Current Motor**
    - Low heat, low energy consumption
    - Auto-compensating blower speed adjustment to maintain airflow during filter loading
    - Up to **70% energy savings**
- Dual blower system to balance airflow imbalances

Fumigation Compatibility

- Adjustable front opening stabilizer arms for fumigation procedures

Filter & Performance

- **Filter Efficiency:** 99.995% at MPPS, tested as per EN1822 (H14 HEPA filter standard)
- Inflow velocity: < 0.45 m/s during operation
- Noise level: ≤ 58 dBA

Safety Features

- Automatic interlock: **UV light switches off when sash is open** and white light is on
- At least **two internal power supply sockets (220 V)** inside the cabinet

Power & Utility Requirements

- **Power Supply:** 220 V AC ±10%
- **Power Consumption:** ≤ 200 W (≤ 40 W with front door closed)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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