



CLIMATE CONTROL INSTRUMENTS

**A reliable name for scientific equipment for Industrial,
Laboratory, Research, Medical and Educational Establishments.**



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Bio Safety CABINET

We have domain expertise in offering an extensive range of Class II Biological Safety Cabinet, which is available in three different modules. Our range of Class II Bio Safety Cabinets meets the laboratory requirements for life science research, clinical or industrial applications.

These Class I Bio safety Cabinet are manufactured using stainless steel for easy cleaning and maintenance and excellent powder coating finish helps to prevent microbial or bacterial growth.

Technical Specifications:

- Cleanliness :
Class 100
- Control :
Digital
- Particle retention :
0.3 micron
- Velocity :
90FPM + 20%
- Illumination :
750 - 800 lumen
- Noise level :
60-65 decibels
- Standard :
FED 209E
- Power supply :
220v single phase



Key Features Bio Safety Cabinet



Nominal inflow velocity of 105 fpm (0.5 m/sec)

Nominal down flow velocity of 55 fpm (0.3 m/sec)

Approximately 70% air recirculation

Smart-Start System

Night-Smart System that idles the blower when the sash is fully closed

Digital display of inflow air velocity

Fluorescent light or UV light control

Control on right-hand side post for manual activation of blower, light

304 grade stainless steel seamless interior

Epoxy-coated mild steel exterior

99.99% efficient HEPA filters

Fully-closing, clear 1/4" Acrylic sash with two sash handles, Sash counterbalanced, anti-racking mechanism and 10 degree slope

21.7" (54 cm) maximum sash opening height and 27.0" (69 cm) viewing height

Glare-free fluorescent lighting

10' (3 m) power cord with plug

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CABINET DRYER

Cabinet Dryer consist of an enclosed chamber where products to be dried are placed on stainless steel trays. These drying systems reduce the relativity humidity allowing the moisture to evaporate quickly. Cabinet dryers are widely used for reducing the moisture content of sensitive products.

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Laboratory Dryers are constructed of powder coated mild steel.

Each shelves are removable and adjustable.

Drying temperature is set by a thermostat. The thermal safety protection with an independent high temperature.

Limit cut-off thermostat can protect the samples from destruction.



Key Features Of Cabinet Dryer



Capacity	400 ltr
Shelves	5 shelves
Temperature	30 to 70 degree
Tray Material	Stainless Steel
Outer Material	Mild Steel
Air-Flow Direction	Horizontal
Humidity	10 percent
voltage	220/380/460 , 50/60Hz

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Digital Laboratory Seed Germinator (Single Chamber)

Digital Laboratory Seed Germinator is a machine used for germination of different types of seeds in laboratories. These machines are specifically designed growth chambers that create artificial environment using temperature, humidity and light responsible for germination of seeds. These chambers play important role in crop productions.

About:

Our seed chambers are known for rugged heavy-duty construction. Inner chamber of each machine is made of thick sheet of stainless steel 304; while the exterior is made of GI sheet which is powder coated for corrosion resistance surface.

Each jointed is nicely molded and arc welded.



Specification

Of Digital Laboratory Seed Germinator (Single Chamber)



No. of chambers: Two (heating and cooling).

Inside chamber: Stainless steel grade 304.

Outside chamber: Painted mild steel of 20SWG.

No. of trays : Adjustable stainless steel wire mesh trays in each chamber.

Humidity: Humidity with compact Humidifier.

Temperature & Humidity sensor: Imported Hygro-clip for measurement of temperature & Humidity. Non-condensing type.

Temperature: 10°C-50°C±1°C.

Compressor: Hermetically sealed type of standard make. Kirloskar / Copeland make.

Evaporator: Finned tubes.

Control : Micro controller based Graphic LCD display with advanced features like, audio visual alarm, low water detection, automatic defrost, Data Storage and data logging through USP, Real Time clock, six profile programming for various temp., humidity and light settings to be run during different time slots in a day.

Operating voltage: 220V, 50Hz Ac±10%.

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Plant Growth Chamber LSI-134-PGC

Vibrant and healthy plants are essential for all plant biology studies. No other environment provides more accurately controlled conditions for optimum plant research than a Plant Growth Chamber. Lab Solution India provides a full range of innovative, environmentally controlled Plant Growth Chambers to grow a wide variety of plant life. Our chambers are optimized for specific applications with the ideal temperature range, lighting and growth space for your particular application.

About:

Depending on your temperature, light, shelf and humidity requirements, our chambers meet many plant cultivating applications, such as algae research, plant pathology, plant virology, horticulture, plant incubation and so much more.



Key Features

Of Plant Growth Chamber LSI-134 -PGC



Light Type	22 mm
Light Orientation	Vertical On Door
No. Of Tiers	Two
Shelf Area	18 x 24
Grow Height	12
Temperature Range	5-70 Degree
Temperature Control	PID
Temperature Uniformity	1Degree (Light Off)
Temperature Sensor	PT 100(Three Wired)
Interior Construction	Stainless Steel
Exterior Construction	Mild Steel Epoxy Powder Coating
Work Space	4.5 CFT
Shelf Dimension	18"x24"
Humidity	PID Controlling
Controller	Graphic LCD Based
Profiles	6
Data Storage	Through USB With Computer Interface
Temp Overshoot	Audio Visual Alarm
Humidity Overshoot	Audio Visual Alarm
Water Intake	Automatic

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FUME HOOD

Used when performing acid digestion applications. The fume hood is designed in order to throw out toxic or harmful Fumes. Fume hood are used to protect the persons and eliminate the toxic gases through ducting by exhaust blower.

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Easy-of-Use: Sliding sash movement offers easy and thorough cleaning to every users.

The high-grade transparent glass door offers excellent visibility of the chemical handling.

The most suitable UV light provides you with optimum decontamination in the work zone surface.

Highly effective backup safety device for the contaminant and exhaust of toxic, offensive or flammable materials.



Features Of Fume Hood



Power	2hp, 3 Phase
Dimension	15mm
Pressure	2.5 W.G.
Inner Size	2'x2'x2' or 3'x2'x2' or 4'x2'x2'
Front Door Material	6mm Acrylic Sheet
Volume	1800 CFM
Motor Speed	1440 RPM
Type	Centrifugal
MOC	1 mm Mild Steel

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LAMINAR AIRFLOW CABINET

Laminar Flow principle involves double filtration of air through coarse pre- filters (up to 5 microns) and Hepa filter (down) to 0.3 microns) for filtration of biological and particulate contaminants. A constant airflow is drawn from atmosphere and passed through pre and hepa filters on the work surface. Table top covered with stainless steel sheet. Side panels are fixed and are made out of transparent acrylic sheet.

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The front door is folding type and made of thick acrylic sheet.

Stand is built in type. Blower unit has AU or equivalent motor and is dynamically balanced with minimum sound & vibration level.

Fluorescent lighting is also provided. A suitable UV tube is provided for sterilization. The chamber has been installed with One way gas tap for gas line.

The manometer fixed outside the cabinet reflects the condition of the filters fitted inside and whether it is the right time to change the filters.



SPECIFICATION

Of Laminar Airflow Cabinet



Motor: ¼ hp motor with centrifugal blower assembly

Filtration: through Hepa and pre filter

Fitted with ultra violet tube

Fluorescent light illumination

Manometer

Gas cock assembly

Thick acrylic front and side panels

Outer body made of thick mild steel duly powder coated

Platform made of stainless steel

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Laminar Airflow Cabinet (Horizontal)

Horizontal Laminar Flow Cabinet provides a sterile work zone through a purified air that travels in a horizontal, unidirectional stream and leaves the main work chamber across the entire open front of the cabinet.

01 > 02 > 03 > 04

Laminar Flow principle involves double filtration of air through coarse pre-filters (upto 5 microns) and Hepafilter (down) to 0.3 microns) for filtration of biological and particulate contaminants.

A constant airflow is drawn from atmosphere and passed through pre and hepa filters on the work surface. Tabletop covered with stainless steel sheet. Side panels are fixed and are made out of transparent acrylic sheet. The front door is folding type and made of thick acrylic sheet. Stand is built in type.

Blower unit has AU or equivalent motor and is dynamically balanced with minimum sound & vibration level. Fluorescent lighting is also provided. A suitable UV tube is provided for sterilization. The chamber has been installed with One way gas tap for gas line.

The manometer fixed outside the cabinet reflects the condition of the filters fitted inside and whether it is the right time to change the filters.



SPECIFICATION

Of Laminar Airflow Cabinet (Horizontal)



Motor: ¼ hp motor with centrifugal blower assembly.

Filtration: through Hepa and pre filter.

Fitted with ultra violet tube.

Fluorescent light illumination.

Manometer.

Gas cock assembly.

Thick acrylic front and side panels.

Outer body made of thick mild steel duly powder coated.

Platform made of stainless steel.

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MORTUARY CHAMBER

Mortuary chambers are equipments that are used for storing cadaverous under cool conditions to prevent decomposition. These equipments are made of corrosion free metal components, with insulation ensuring maximum thermal efficiency and durability. These are extremely useful in hospitals, railways and hospitals. The external surface of these equipments is chemically treated, antitrust coated and duly furnished with power coated paint. Mortuary chambers are double walled cooled units. The outer body of these equipments is constructed out of thick mild steel that are painted with long lasting power coated paint.

Salient Features:

Temperature Range/control:

Temperature range of these equipments is from 2 to 8 or 0 to -10 degree Celsius. However the temperature range of these equipments can be modified as per customer requirement.

- Durable.
- Energy efficient.
- Sturdy construction.
- PUF insulation.
- Special loading trolley.
- Digital temp indication.
- Designed for long storage of cadaverous.
- Environmental friendly.



Technical Feature Of Mortuary Chamber



Outer Body	Made of Mild Steel with epoxy powder coating
Inner Chamber	Made of medical grade stainless steel
Storage Capacity	Two Bodies
Trays	Two numbers, made of stainless steel
Temperature Range	2-8 degrees
Control	Digital
Controller	Microprocessor based graphic display Alarm: Audio Visual Alarm for temperature deviation
Door Open detection	Through Audio Visual alarm
Data Storage:	Inbuilt data bank for Temperature reading storage
Data Logger	RS 232 connectivity for data download to Computer
Password Protection	Password protection to prevent un authorized use/change in temperature setting
Cooling	Through Fin type copper condensor with two axial fans
Defrost	Automatic
Compressor	Hermetically sealed branded compressor
Refrigerant	R 22
Castors	Unit mounted on castor wheels for ease of movement
Power	220 volts AC Single phase

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UV Sterilizer

Cabinet UV Sanitizer

The electrically operated Rectangular Water Bath are made of thick stainless steel and feature constant water levels maintained inside them. For optimum performance.

About:

Ultraviolet germicidal irradiation (UVGI) is a disinfection method that uses ultraviolet (UV) light at sufficiently short wavelength to kill microorganisms. It is used in a variety of applications, such as food, air and water purification. UVGI utilises short-wavelength ultraviolet radiation (UV-C) that is harmful to microorganisms. It is effective in destroying the nucleic acids in these organisms so that their DNA is disrupted by the UV radiation, leaving them unable to perform vital cellular functions.



Specifications

Of UV Sterilizer Cabinet

UV Sanitizer



S.S. Chamber with 12 die pressed SS trays.

Imported UV Tube mounted on S.S. Reflector.

Emits UV light (Germicidal in properties).

Effective tool for avoiding contamination of instruments once sterilized or autoclaved.

Can maintain & preserve instruments for days without any fear of contamination.

Door switch interlock prevents emission of UV light as soon the chamber is opened to avoid any harmful effect on operator.

Electronic circuits for instant start without flickering of tube.

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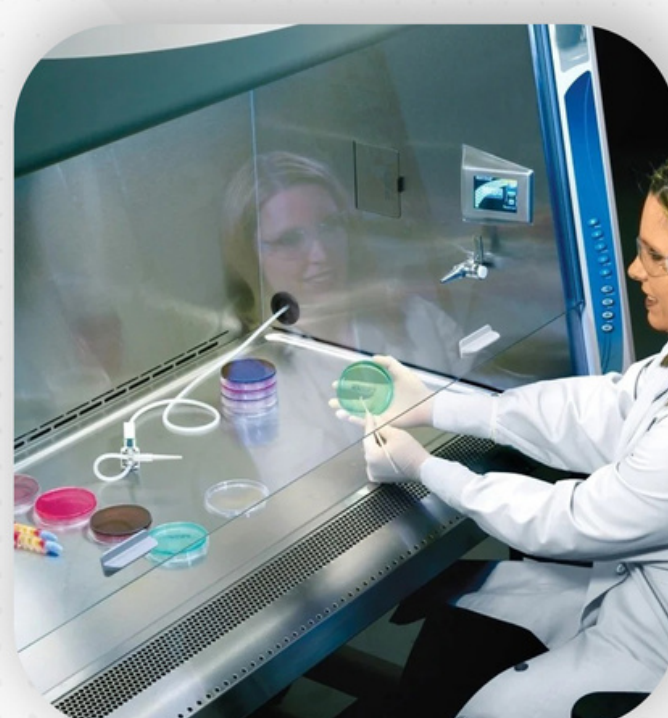




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