

Tissue Culture Laboratory

Welcome to Cominus Scientific's Tissue Culture Lab Setup Guide!

Setting up a tissue culture lab requires careful planning and the right equipment to ensure optimal conditions for cell growth and experimentation. Cominus Scientific is your trusted partner in providing comprehensive solutions for establishing a cutting-edge tissue culture laboratory. Our catalogue offers a wide range of products and services tailored to meet your specific needs.

Cominus Scientific is your trusted partner in providing premium-quality equipment for setting up and maintaining a cutting-edge tissue culture laboratory. Our comprehensive range of products is designed to meet the stringent requirements of tissue culture researchers and practitioners. From efficient storage solutions to advanced contamination control equipment, we offer everything you need to ensure optimal conditions for your valuable cell cultures. Explore our catalogue below:

Elevate your laboratory workflows with Cominus Scientific - where precision meets performance.

Choose from our extensive range of high-quality tissue culture equipment, including:

- **Tissue Culture Racks:** Secure and organized storage for culture vessels.
- **Tissue Culture Trays:** Suitable for various culture vessel sizes.
- **Positive Pressure Units:** Maintain a sterile environment with continuous filtered airflow.
- **Dynamic Pass Boxes:** Ensure contamination-free sample transfer between lab areas.
- **Trolleys:** Mobile workstations for convenient transport of materials and equipment.
- **Laboratory Refrigerators:** Preserve sample integrity at 4°C and -20°C.
- **Autoclave:** Experience advanced sterilization technology with our Vertical Autoclave Economy Series, featuring microcontroller-based PID control.

Tissue Culture Rack -

A sturdy and adjustable storage solution designed to keep your culture vessels organized and easily accessible.



Features –

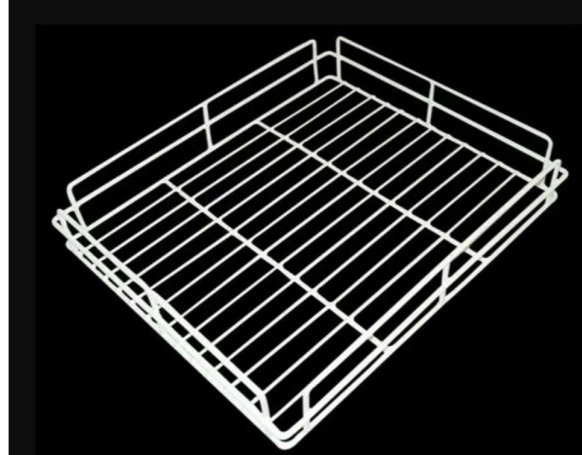
- Sturdy construction with adjustable shelves for flexible storage options
- Optimal airflow design to minimize contamination risks
- Ample space for storing multiple culture vessels
- Customizable to accommodate various vessel sizes and shapes

Technical Specifications –

Specification	Details
Material	Mild Steel, Powder Coated
Dimensions	Design as per room size
Shelves	Fixed
Weight Capacity	20-30 kg per shelf
Airflow	Optimal airflow design
Customization	Additional accessories available

Tissue Culture Tray -

Stackable trays that provide a secure and convenient platform for culturing cells in various vessel sizes.



Features –

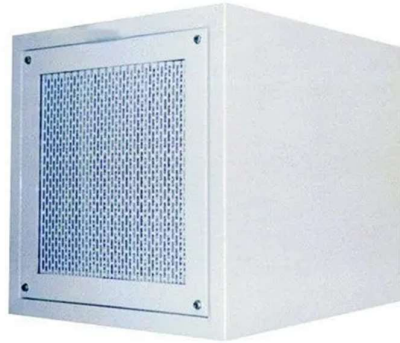
- Constructed from durable materials for dimensional stability and chemical resistance
- Stackable design for efficient storage and space utilization
- Precise dimensions to ensure consistent culture conditions
- Compatible with various cell culture vessels and accessories

Technical Specifications –

Specification	Details
Material	Mild Steel, Powder Coated
Dimensions (mm)	365 x 435 x 75
Sterility	Sterilized by autoclaving
Compatibility	Accommodates various culture vessel sizes
Stack-ability	Stackable Design
Surface Treatment	Low adherent surface

Positive Pressure Unit -

Maintains a clean and sterile environment by delivering continuous filtered airflow, minimizing the risk of contamination.



Features –

- Utilizes advanced HEPA filtration technology for a controlled and clean atmosphere.
- Delivers continuous flow of filtered air to exclude airborne contaminants.
- Maintains positive pressure to prevent outside air from entering the workspace.
- Ensures a sterile environment for sensitive tissue culture experiments.

Technical Specifications –

Specification	Details
Filtration	HEPA Filters with 99.99% Efficiency.
Airflow	Continuous Laminar Airflow.
Control Panel	User-friendly control panel.
Lighting	Integrated Fluorescent Lighting
Work Area	Single Operator
Sterility	Smooth, easy-to-clean surfaces
Available Sizes	600 x 600 x 600 (CFM 1000) 750 x 750x 750 (CFM 2000)

Trolley -

A mobile workstation equipped with storage compartments for convenient transportation of materials and equipment within the lab.



Features –

- Mobile workstation with lockable wheels for easy transportation.
- Ample storage space for culture vessels, reagents, and equipment.
- Ergonomic design for efficient use of laboratory resources.
- Enables convenient access to materials during experiments.

Technical Specifications –

Specification	Details
Material	AISI 304.
Dimensions	Customizable.
Mobility	Lockable Wheels.
Storage	Multiple Shelves and Compartments.
Ergonomics	Adjustable Height Options.
Accessories	Optional Features Available.

Dynamic Pass Box –

Enables safe and contamination-free transfer of samples and materials between different areas of the lab.



Features –

- Microcontroller based PID control system.
- Maintains positive pressure to prevent cross-contamination during sample transfer.
- Controlled air circulation for a clean and sterile environment.
- Facilitates efficient and safe movement of materials between lab areas.
- Double wall with puff insulation
- Ensures the integrity of samples during transfer.

Technical Specifications –

Specification	Details
Material	Stainless Steel.
Dimensions	Customizable.
Mobility	Castor Wheels for Easy Mobility.
Temperature Range	+10 to 50 °C
No. of Shelves	2-4 Nos of shelf provided as per volume of chamber.
Microcontroller based PID Control	Yes

Laboratory Refrigerator –

Provides reliable cooling at 4°C to preserve temperature-sensitive samples, media, and reagents.



Features –

- Microcontroller based PID control system.
- Precise temperature control for storing temperature-sensitive samples, media, and reagents
- Adjustable shelves and secure storage compartments for organized storage
- Reliable cooling performance to maintain consistent 4°C temperature
- Easy accessibility and user-friendly controls for efficient operation

Technical Specifications –

Specification	Details
Chamber Construction	AISI 304.
Dimensions	Customizable.
Mobility	Castor Wheels for Easy Mobility.
Temperature Range	Up to 4 °C
No. of Shelves	2-4 Nos of shelf provided as per volume of chamber.
Microcontroller based PID Control	Yes
Power	220V / 50 Hz

Laboratory Refrigerator –

Offers ultra-low temperature -20 °C storage to maintain the integrity and long-term preservation of valuable samples.



Features –

- Microcontroller based PID control system.
- Ultra-low temperature storage for preserving valuable samples
- Advanced cooling systems for stable freezing environment
- User-friendly controls for precise temperature management
- Secure storage compartments for long-term sample preservation

Technical Specifications –

Specification	Details
Chamber Construction	AISI 304.
Dimensions	Customizable.
Mobility	Castor Wheels for Easy Mobility.
Temperature Range	-20 °C
No. of Shelves	2-4 Nos of shelf provided as per volume of chamber.
Microcontroller based PID Control	Yes
Power	220V / 50 Hz

Autoclave –

With an operating pressure of 15 psi and an operating temperature range of 125 degrees Celsius, the Vertical Autoclave Economy Series ensures efficient and thorough sterilization.



Features –

- Precise temperature control for accurate heating.
- Excellent temperature uniformity and stability.
- Digital temperature display for easy monitoring.
- User-friendly control panel for easy operation.
- Durable construction for long-lasting performance.

Technical Specifications –

Model	CM-VAV-SLES-50	CM-VAV-SLES-90	CM-VAV-SLES-150	CM-VAV-SLES-200
Capacity (Litres)	50	90	150	200
Operating Temperature (°C)	100-125 °C	100-125 °C	100-125 °C	100-125 °C
Operating Pressure (PSI)	15 PSI	15 PSI	15 PSI	15 PSI
Lock Mechanism	Sliding Lock	Sliding Lock	Sliding Lock	Sliding Lock
Microcontroller based PID control	Yes	Yes	Yes	Yes
Heating System	Efficient and rapid heating system.	Efficient and rapid heating system.	Efficient and rapid heating system.	Efficient and rapid heating system.
Chamber Construction	AISI 304	AISI 304	AISI 304	AISI 304
Chamber Dimensions	Ø350 x 500	Ø450 x 600	Ø550 x 700	Ø600 x 750
Power	220 V / 50 Hz	220 V / 50 Hz	220 V / 50 Hz	220 V / 50 Hz
Warranty	1 Year	1 Year	1 Year	1 Year



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Office:- D-132 Sec 4 Bawana

DSIIDC Complex Delhi-110039

Landline:- 011-47553098

Mob:- 9027822747, 9667529087

Email:- sales@cominus.in