THERMICORE
SOLUTIONS
QUALITY BEYOND IMAGINATION

CLEAN ROOM & LAB EQUIPMENTS

THERMICORE SOLUTIONS

QUALITY BEYOND IMAGINATION

CERTIFIED ISO 9001:2015 COMPANY

CE

WHO-GMP

EUROPEAN NORM EN

THE COMPANY

We Thermicore Solutions PVT. LTD. are an ISO 9001-2015, CE, WHO-GMP and EN - 12469- 2000 certified company situated at Faridabad, Haryana. We are one of the fast growing leading manufacturer of Biosafety Cabinets, Laminar Air flow, PCR Hood, Air Shower, Static Pass box, Fan Filter Units, Dispensing Booth and other Cleanroom equipments along with all type Air Filter like - Hepa Filter, Mini Pleat Hepa, Pre Filters, Microvee Fine Filter and Wire mesh filters etc.

We also deal in Cleanroom / Operation Theatre and Equipments Validation & Certification as per NABH and ISO guideline.

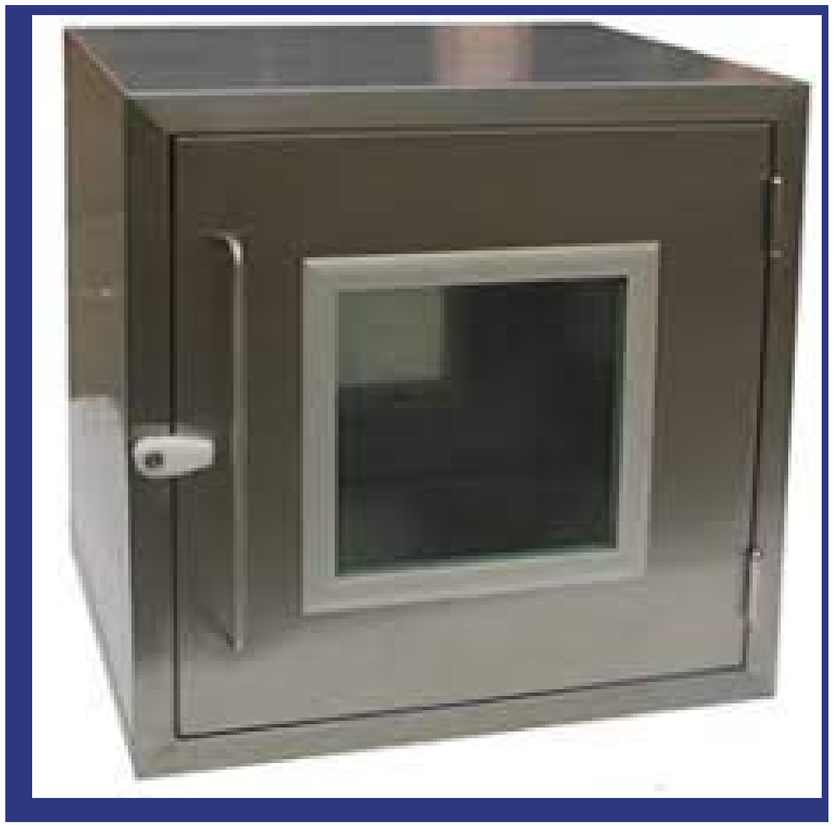
Over time, we made an incredible mark in the Healthcare & Pharma Industry. One can choose from a diverse and comprehensive product range of our surgical, medical, hospital and Cleanroom Equipments. Certified by relevant up to date quality standards, our product carries a high degree of precision, attributing a certain degree of reliability. All our products come with a comprehensive warranty which ensures our customers about our quality and service.

Our theory of making every product as per customer specification makes them valuable and easy to use also we ensure that it cost will be in competitive range. Every quality standards no matter how small or how large adds up to ensure that Thermicore delivers you the most precise products

PASS BOX

Static Pass box is one of the cleanroom system, which is used to transfer materials from one side to other side through controlled environment in order to avoid airborne crosse contamination. As the name states itself, the primary and only work of a pass box is to pass material from one side to other without raising contamination concern and if any particulate matter presents on the material surface, it swipes away during the operation.

Static pass box on the other hand is fitted only between two clean room areas and has no air supply or extract. It is also known as passive pass box and equipped with UV Light.



DYANAMIC PASS BOX

Dynamic Pass box is one of the cleanroom system, which is used to transfer materials from one side to other side through controlled environment in order to avoid airborne crosse contamination. As the name states itself, the primary and only work of a pass box is to pass material from one side to other without raising contamination concern and if any particulate matter presents on the material surface,it swipes away during the operation.

A Dynamic pass boxes are designed in conformation to the international standards. These equipment are used for transferring material through controlled environment to different classified area, to avoid cross contamination & maintain integrity of product & process with the help of electromagnetic interlock and UV light

REVERSE LAMINAR AIR FLOW

Reverse Laminar is an exclusive clean containment enclosure for bulk powder or liquid weighing , sampling, mixing or dispensing. The self contained , free standing booth provides localized protection of product or personnel when handling non - potent bulk materials.

- Air filtration is achieved by means of three stage filtration system with EU4 PRE-FILTERS, Eu7 intermediate filters and EU14 HEPA Filters.
- Ventilation system by means of motor blower centrifugal type balanced to reduce noise levels
- Double skin puff filled side panels.
- Construction in stainless steel finish, resistant to most common industrial disinfectants
- Clean down timer with operator HOLD indictor
- DOP Test port
- ON/OFF switches, 5/15A switch socket for external equipment.

AIR SHOWER

We are manufacturing Air showers in below mentioned materials,

a. MS Powder Coated
b. SS-304
c. Puff Panel

Thermicore Air Showers are designed on the basis of person that need to passed at a time from it . We can provide from 1 person entry Air Shower.

Air Shower concentrate air flow to lift off contamination such as lint, dirt, dust etc. While Person moves through a specially constructed chamber. The high velocity air from jet nozzles ensures efficient scrubbing action necessary to remove particulate to matter . Contaminated air then flow through sidewalls of the air shower and flows through pre - filters and final HEPA filter then re - circulated again in the chamber .

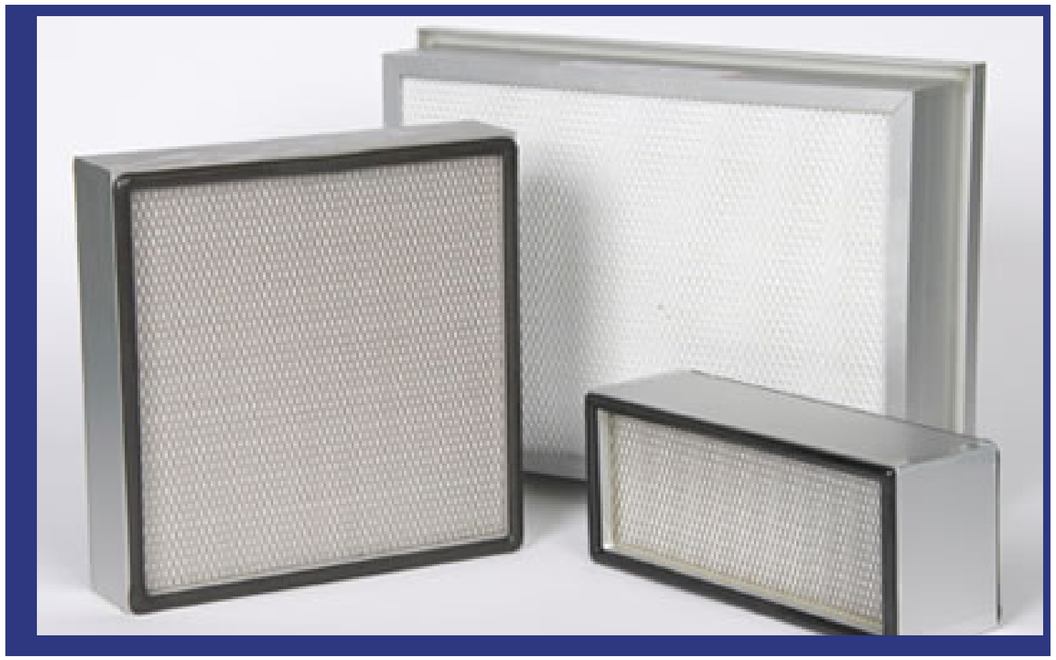
AIR CURTAIN

Aesthetically designed with the latest Air barrier technology. This is an ideal solution wherever transparent and abstraction air barrier/ curtain is required. Most common application areas include Air Condition Showrooms, Restaurants, Hotels, Hospitals' Computer rooms, Cinema Halls, Pharmaceuticals, and Biological & Electronic Industries. It provides an effective insulation to conserve energy by preventing temperature loss in controlled atmosphere areas and maintains a high level of cleanliness by inhibiting the movement of dust particles across it. It consists of study heavy duty centrifugal blower/ s balanced for vibration free operation Construction is of CRC sheet duly powder coated and provided with clamps to mount on the wall. It gives a thick air curtain with total air flow capacity varying according to the size depicted as follows. Supplied complete with Cord & Plugs.

HEPA FILTER

HEPA FILTER (Mini PleaPleat)
EU-13

- Air Filtration of 0.3micron particles.
- Secondary filtration for class 100 or better clean room
- Final filtration for clean room industry like Electronic, pharmaceuticals,
- Medical disposable, Biotechnology, Photo film, Optical & critical O.T.’S etc.
- Clean Air equipment like laminar flow work stations, Bio Safety Cabinet Dispensing booth etc



SAMPLING BOOTH

Imported Mini pleat HEPA Filter with hot melt technology, which conforms to EU 13 Grade, with an efficiency rating better than 99.99% for 0.3µ at supply position

Imported Mini pleat HEPA Filter with hot melt technology, which conforms to EU 13 Grade, with an efficiency rating better than 99.99% for 0.3µ at exhaust position

Fabtech make prefilter which conforms to EU 4 Grade, with efficiency of 90% down to 10µ. These Filters are basically made from micro-fiber-glass media and are inherently washable

Fabtech make Intermediate filter which conforms to EU 7 Grade, with efficiency of 95% down to 3µ. These Filters are basically made from micro-fiber-glass media and are inherently washable

Motor Blower provided are statically and dynamically balanced, Supply of sufficient capacity and static pressure is used to take care of airflow requirement for entire life of HEPA. The blower is high-performance, noise abated, light weighted statically and dynamically balanced

SS 304 Double Walled Side Panels

DISPENSING BOOTH

Dispensing booth is a kind of partial purifying equipment for filling , refilling, weighing and sampling of raw material and compounds. It is provided with HEPA filter, which prevents the airborne dusts by down draught technique. Dispensing booth is also called sampling booth or weighing booth. It is also . called RLAF unit.

This booth is suitable for handling power in aseptic conditions and provides safety to the operators. This Sampling / Dispensing Booth (RLAF0 Unit) is equipped with a three stage filtration method, for providing excellent efficiency to the customers.

Features:

1. No Risk of inhalation of powders
2. Easy HEPA Filter exchange from underneath unit
3. Easy to Clean
4. No Cross Contamination
5. Easy to Clean
6. Easy HEPA Filter exchange from underneath unit

GARMENT CABINET

Garment Storage Cabinet is one of essential equipment in any clean room. It is used to keep cleanroom garments, tools, wipes and other materials and plays important role in maintaining cleanliness of a cleanroom environment.

Our sterile and clean cabinets can effectively purge and remove particles such as lint and dust ingress on the clothing fabric. A direct - drive variable - speed blower is mounted above a HEPA filter that prevents contaminations from entering the unit, keeping garments safe and completely free of particulates.

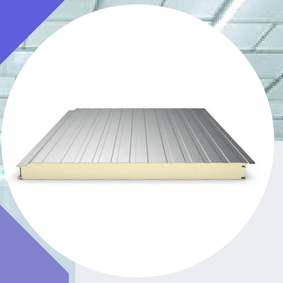
Features

- Made with high quality stainless steel (304 to 316) with pencil coving inside and double skin body
- Ideal for storing medical tools, wipes, process equipment along with garments
- Spacious in size as hold up to 30 garments
- Comes with multiple adjustable shelves
- Different door options from sliding doors to two-side opening
- Low power consumption and user - friendly
- Equipped with PVC front panels for static safety and ensuring optimum cleanliness
- A heater with thermostat
- Caster wheels for easy movement

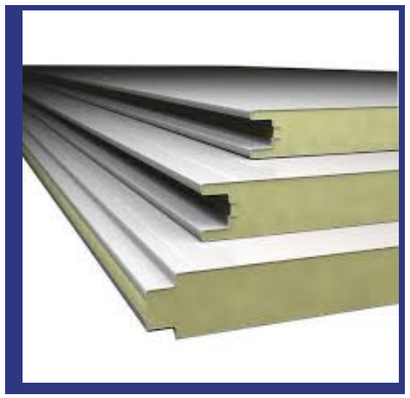
CLEAN ROOM DOOR

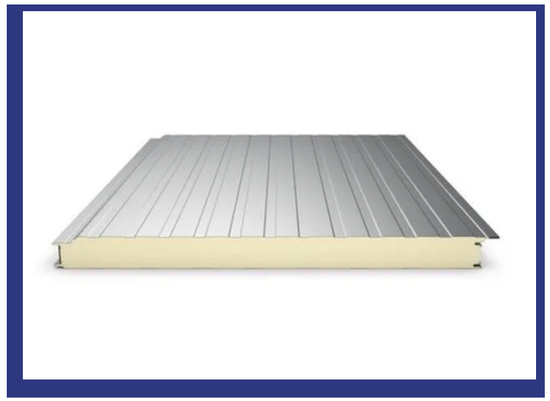
To keep operating theatre sterile, hermetically sealed automatic/ manual, sliding / swing doors are provided made out of high density particle board cores, high pressure laminated faced and effortless sliding arrangement with nylon wheels & aluminium extruded track. Hand sensor, foot switches and infra-red photo sensor, radiation shield can also be provided as per individual requirement.

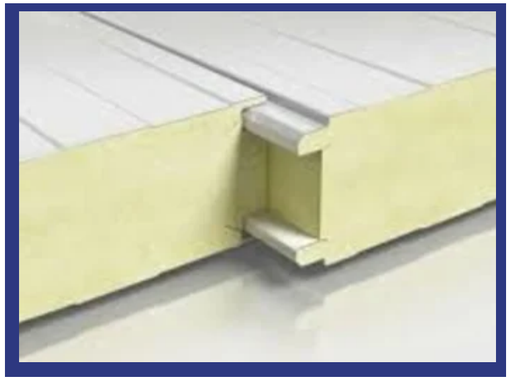
PUFF PANEL



A PUF panel’s core is made of polyurethane while the interior and exterior are made up of thin metal sheets. This gives them excellent heat and sound resistance and insulating properties. Due to these reasons, they are commonly used in the construction of various structures such as airports, exhibition halls, cold storages, auditoriums etc.







HEPPA HOUSEING

HEPA Filter Housing, also called HEPA Box Module, Air Plenum Box , Air Inlet, is used for holding HEPA filter at End terminal. For different size of Hepa filters, the housing is different. We are the manufacturer of all custom size of Hepa Housings.
There are three types of filter housing & available with two different type of damper arrangements as mentioned below,

1. MS Hepa Housing
2. SS Hepa Housing
3. Aluminum Hepa Housing Powder Coated/ without Powder Coated

There are two types of Air Dampers available with all above housings

1. MS Powder Coated Damper
2. Aluminum Extrusion Damper

PRE & FINE FILTER

- Air filtration of 3 micron to 5 micron particles.
- Secondary filtration in critical clean room industry such as vaccine, production work, Injection filling work etc.
- Final filtration in mirror o.t ‘s in patient care, photo film industry.

AIR HANDLING UNIT

Air handling units (AHUs) are one of the key elements in HVAC. If you are working with medium to large-scale HVAC projects, you'll be dealing a lot with AHUs. Since I've worked on AHUs before, I'll share the basics of AHUs.

AHUs can be as simple as having only 3 components which are the fan, cooling coil and filter or they can be as complicated as having 7 components which the 4 additional components are mixing box, UV light, heat pipe and heat wheel.

FAN FILTER

We offer Fan Filter Units (FFU),which is a type of terminal module. These units are specially designed to offer superior - quality clean air into the work area. Very convenient for the user and integrated with a blower and filtration system with in single low profile casing. The FFU is quality certified for compliance to international standard. Our FFU is a perfect and most cost - effective solution for constructing low budget clean room. Our units are specifically designed to provide clean and filter air to the work area. They are self - contained, motorized supply air modules equipped with either HEPA filters and can be used in either horizontal or vertical flow positions, wherever clean air is needed. They are designed for easy connection to the building power system and equipped with a pre- filter and a HEPA Filter.

TECHNICAL SPECIFICATION

1. Sleek Model & Robust Model
2. Body - MS Powder Coated / ss-304
3. Filter Type - Mini Pleat HEPA Filter and a PRE Filter,
4. Efficiency -99.99% down to 0.3 Micron, 90% Down to 5 Micron
5. Fan Controller with on/off switch,
6. Media Grade - EU - 13 & EU - 4
7. Operating Temperature - Ambient

AIR PURIFICATION MODULE

Provided with

1. **Dust filter**
2. **Electrostatic precipitator - generates heavy electrostatic force to precipitate all micro - organisms & particles.**
3. **Ultra violet tube**
4. **Activated carbon filter**
5. **HEPA filter (0.3 micron) - Use to remove micro - organism and all other air born contaminants.**

General :

Rust proof fitted body with pre- filter, electrostatic filter, electrostatic filter size 14"x18"x4" and activated carbon filter range with Loniser, absorbs upto minute particles.

DE DUSTING TUNNEL/BOOTH

The De-Dusting Tunnel/Booth system is used to remove the loose foreign particles/dust present on the received material, which are brought into the warehouse area before they transferred into the quarantine area.

Motorized roller conveyor transfers heavy load material from material loading area to de-dusting chamber and then finally to the material unloading side.

CLEAN ROOM WINDOW

- Enter desired width, height and wall-thickness to instantly calculate pricing and custom specifications
- BioSafe design (stainless steel/powder-coated steel) eliminates cracks where microbes colonize for easy cleaning and sterilization
- -design (polypropylene frame) offers an economical alternative without compromising cleanroom conditions
- Double-pane models ideal for installation between two cleanrooms
- Single-pane models must be installed with the "clean-side" facing the cleanroom
- Frameless Bio Safe windows feature glass that sits perfectly flush with the wall surface for the most critical applications
- Framed Bio Safe models feature a smooth, stainless steel or powder-coated lip that fits tightly against the wall to minimize crevices
- Stainless steel will not produce contaminants during sterilization and resists harsh biocides
- Powder Coated Steel offers excellent corrosion and chemical resistance while extending the life of the steel
- Polypropylene offers excellent chemical resistance and does not shed particles
- Suitable for cleanrooms, medical facilities, labs

CLEANROOM FURNITURE SEGMENT

CLEANROOM PROJECTS

HORIZONTAL LAMINAR AIR FLOW

A laminar air flow is a closed cabinet fitted with HEPA filtered air flow system. Here, laminar means unidirectional constant flow of air with almost no or minimal turbulence. The air flow velocity remains between 0.3 m/s to 0.5 m/s. The purpose of using such workstations in laboratory is to create particle and bacteria free working environment to carry out specialized work. As these units discharge air towards user, they provide no personal protection but product protection from room contaminants.

Laminar air flow systems are used in various application such as life science research, mushroom cultivation, microbiology, IVF, IUI and histopathology/ pathology lab, plant tissue and cell culture and pharmaceutical and electronics industry and many more.

VERTICAL LAMINAR AIR FLOW

It is the most used type of laminar air flow. In vertical flow cabinet, room air is entered in working area through HEPA filter fitted on top of the cabinet. Thus, air flows downward (vertically) towards work surface and leaves the cabinet sweeping out particles and bacteria.

BIOSAFETY CABINET

The biological safety cabinet offers a revolutionary airflow management system with proven containment technology that saves energy, increases productivity and improves comfort

BODY - BODY IS MADE UP OF MS POWDERCOATED/SS 304
WORK TABLE - MADE UP OF SS 304 SHEET
FRONT PANEL - SLIDING TYPE CLEAR ACRYLIC SHEET OF 6 MM THICK
PRE FILTER - MADE OF NON WOVEN SYNTHETIC MEDIA EFFICIENCY 10 MICRON STD SIZE - 01
HEPA FILTER - HEPA FILTER MADE FIBER GLASS MEDIA (IMPORTED)
HEPA FILTER OF STD SIZE 01 NO
EXHAUST HEPA FILTER OF STD SIZE - 1 NO
MOTOR - SINGLE SHAFT MOTOR
BLOWER - DYNAMICALLY BALANCED BLOWER WITH HIGH STATIC PRESSURE & LOW VIBRATION LEVEL
CONTROL PANEL - DIGITAL CONTROL PANEL/TOUCH CONTROLLER
TUBE LIGHT - QTY - 01 - 15 WATT Havells Make
UV LIGHT - QTY - 02 - 8 WATT Philips Make
GAS COCK - STD - 1
PRESSURE GAUGE - STD - 1

FUME HOOD

Fume hood is designed for use in laboratories providing operator’s protection when working with chemically harmful materials and for their effective removal.

Application of the Fume Hoods

- Removes chemically harmful and low toxic materials from the working zone providing operator’s protection in laboratories with different profiles.
- Fume hoods are designed to be used as part of the external exhaust system in clinical, diagnostic, dental, and other laboratories, medical organizations, food production and other industries.
- Fume hoods are used for studies and works causing and spreading toxic vapors and gases harmful to human health and for work with materials that require quick elimination of accessory substances from the operating area.
- Fume hoods are not to be used with hazardous and potentially hazardous pathogenic agents and microorganisms.

BOD INCUBATOR

BOD Incubator manufactured by Thermicore Solutions Equipments are designed as per ICH & WHO guidelines & I.S standard with the help of several years of experience to meet the requirement of different bio chemical oxygen demand test equipment in various field like medical, vaccines, agricultural, research, laboratories, culture of bacteria, microorganism, seed germination studies

Application:

Temperature testing is an essential part of R & D, Microbiology departments and formulation development.

It helps to generate information, which permits well-considered proposals to be made for the shelf life of drug substances and products and recommended storage condition.

Temperature date are required to be submitted as part of the record to the regulatory agencies for licensing approval.

AUTO CLAVE

Autoclave, also known as steam sterilizer, is the most effective machine used for the sterilization of lab equipment, water, or media. The machine uses steam under pressure to kill bacteria, viruses, and spores present in/on the equipment or culture media. It is used in scientific labs, healthcare facilities, and industrial operations for the sterilization of a range of tools, vessels, solutions or media, and materials.

- **Purge phase: Air present in the sealed chamber is displaced with steam that moves in through the sterilizer.**
- **Exposure phase: In this phase, the exhaust valve is closed and the temperature and pressure inside the sealed chamber are increased to the desired set point. The temperature is maintained for the set duration of time.**
- **Exhaust phase: The exhaust valve is opened, steam is removed, and the chamber is restored to normal temperature.**

MIST SHOWER BOOTH

Mist Shower Booth supplies a fine, low volume mist intended to affix suspended hazardous particles of loose powder on the surface of the occupant's protective clothing (PPE). This helps to prevent any hazardous particle from turning air borne while the occupant is de - gowning.

Mist SHOWER Booth is installed at the exit of clean room where Hazardous Products like Oncology Drugs, Hormonal & Injectable facility, and likewise, are handled and processed.

The Mist Shower Booth is a contamination control device, which provides respiratory protection from the Inhalation of any hazardous products to the operator during the de-gowning process.

OUR ESTEEMED CLIENTS

Bond Chemical Industries Limited
METRO Group of Hospitals
PSG Hospitals
CARE Health City
UNIQUE
VOS
IGIB
Dixon
KMC Group
Yashoda Super Speciality Hospitals
Foresight Eye Clinic
icmr NIP
Central Research Institute Kasauli (H.P.) - 173204 Estd: 1905
NAYATI
Fortis
Saraswati Medical College
SIA Pharma Pvt. Ltd.
Sabar Dairy
Virk Hospital Pvt. Ltd.
Symbiosis Centre for Health Skills
Mata Chanan Devi Hospital
Sitaram Bhartia Institute of Science & Research webp
NIDAAN Hospital
SURYA
GETWELL
Take Care Diagnostics ISO 9001:2015
KLAB Khandelwal Laboratories Pvt. Ltd.
Vibro Tech
Futura Hospital
The Nairobi West Hospital
M-Genix
Ambe
FLOWGAIN
BLK
POLYMED
Jamia Millia Islamia A Central University
prayag Hospital
MGS

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