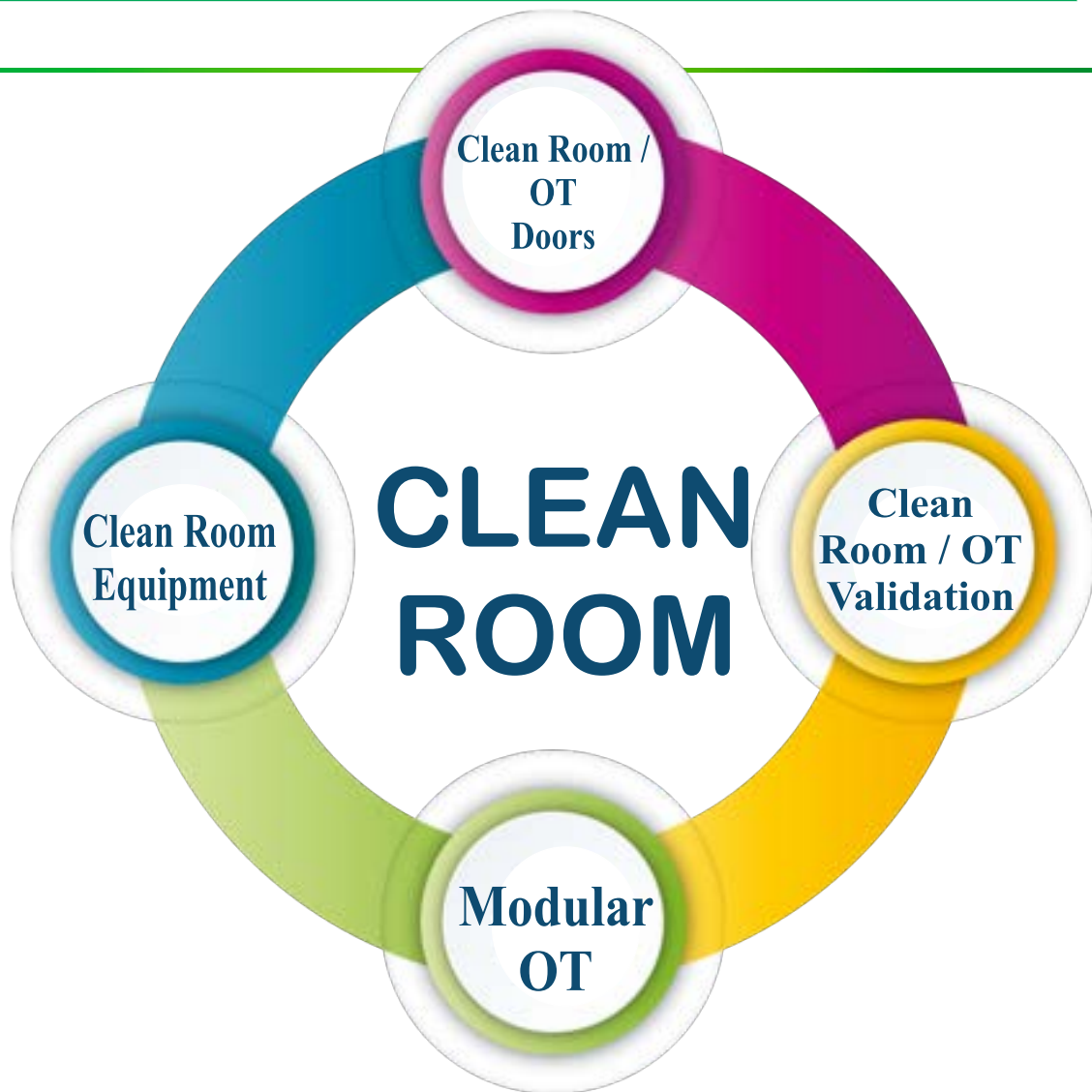




Sterile Tech India

ensuring technology...

We manufacturer and service for following:





Modular Clean Room

Sterile Tech™ Clean room defined as specially constructed, environmentally controlled enclosed spaces with respect to air borne particulates, temperature, humidity, air pressure, air flow patterns, air motion, vibration, noise, viable (living) organisms lighting and concentration of air

borne particles controlled to specified limits. So we need to control process of killing ultra - fines air borne contaminants. The contaminations are generated by people, processes, facilities, and equipment. They must be continually removed from the air.

The level of air clean lines in the room must be regulated by standards. The most frequently used standard is the ISO14644. It is a document that establishes standard classes of air clean lines in terms of air borne particulate levels in Clean room and clean zones. "Federal standard 209E" defines a clean room as a room in which the concentration of air borne particles is controlled to specified limits.



ISO 14644-1 Airborne Particulate Cleanliness Classes for Cleanrooms,

<i>ISO CLASSIFICATION Number</i>	<i>Maximum Concentration Limits (Particles equal to and larger than the considered sizes shown below :</i>					
	$\geq 0.1\mu\text{m}$	$\geq 0.2\mu\text{m}$	$\geq 0.3\mu\text{m}$	$\geq 0.5\mu\text{m}$	$\geq 0.1\mu\text{m}$	$\geq 5.0\mu\text{m}$
<i>ISO CLASS 1</i>	10	10				
<i>ISO CLASS 2</i>	100	100	10	4		
<i>ISO CLASS 3</i>	1000	1000	102	35	8	
<i>ISO CLASS 4</i>	10000	10000	1020	352	83	
<i>ISO CLASS 5</i>	100000	100000	10200	3250	832	29
<i>ISO CLASS 6</i>	1000000	1000000	102000	35200	8320	293
<i>ISO CLASS 7</i>				352000	83200	2930
<i>ISO CLASS 8</i>				3520000	832000	29300
<i>ISO CLASS 9</i>				35200000	8320000	293000

<i>FEDERAL STD 209E</i>	<i>ISO</i>
<i>1</i>	<i>3</i>
<i>10</i>	<i>4</i>
<i>100</i>	<i>5</i>
<i>1000</i>	<i>6</i>
<i>10000</i>	<i>7</i>
<i>100000</i>	<i>8</i>



Modular Partition

Sterile Tech TM panels for Cleanroom systems are designed according to the proper standards. Panel, Walk-able & Non-walkable ceiling Panels with infill material of PUF, Rock wool. Each and every component of the systems is engineered & developed for easy installation and functioning.

Wall Panel

Sterile Tech TM wall partitions are a composite construction of two skin of PPGI or SS304 with powder coated frame work with a sealed and insulated interior. Standard panel thickness ranges of 100/80/60 mm. The self-supporting internal walls are constructed with an interior GI frame work. The Partition seams are sealed by silicon with a perfectly flush finishing. PUF insulation material is sandwiched between the two skin layers PPGI or Ss304.



Ceiling Panel

Sterile TechTM ceiling panels are designed to fit within each other and suspended by threaded tension bars with adjustable turnbuckles fastened to the overhead support at fixed intervals, Standard Ceiling Panels are 60 mm/80mm thick and have a composite construction of two skins of PPGI or SS304



Special Features of Panels :

- ❖ Extremely Low Weight
- ❖ Excellent Strength
- ❖ High Resistance to Moisture
- ❖ Excellent Thermal Conductivity
- ❖ High Resistance to Fungi
- ❖ Easy Installation
- ❖ Easy Cleanable



Clean Room Accessories sterile TechTM Modular Clean Room complete accessories include Aluminium powdercoated / anodized corving, PVC corvings, corner pieces and inner “L” flashing and outer “L” flashing, bottom supporting channel, center suspension rod, “C” clamp, etc.,



Soft Wall Clean Room

The Tent softwall Cleanroom is the most economical approach and design for your Cleanroom needs. This design is commonly used in the microelectronics and medical mold injection industry as well as many others. The Tent's soft wall design allows it to be used as either a totally freestanding room or it can be used in combination with your existing walls and ceiling. Each room comes completely factory prefabricated for minimal on-site erection time and is totally self-contained with all components factory-finished



Clean Room /OT Doors

Sterile Tech™ Cleanroom Doors are available in galvanized iron with Powder Coated with in filled material of Honeycomb, PUF. Our Cleanroom doors are extremely durable and are available in Diferent models for Cleanroom, hospitals, and other special purposes. The swing type doors are available with a variety of options including double glazed toughed vision panels, hardware like imported hinges and total specialized metal frame for proper air tightns and automatic door drop seal arrangements and locking mechanisms.





Clean Room Equipments

Air Showers are self contained chambers installed at entrances to clean rooms and other controlled environments. They minimize particulate matter entering or exiting the clean space. Personnel and materials entering or exiting the controlled environment are "scrubbed" by high velocity HEPA-filtered air jets with velocities of 22-24m/s (5500-6000fpm). Contaminated air is then drawn through the base within the unit, filtered and recirculated.



Technical Specification

Cleanliness: class 100, (ISO – 5)

Standard: FED 209E

Velocity: 90FPM±20

Noise Level: 65db max

Power Supply: 230V (1Ø) or 420V (3Ø), 50Hz

Particle Retention: 0.3 micron

Supply filter: HEPA Filter efficiency 99.99% Down to 0.3µ H-14 Rating.

Pre Filter: Micro glass fibre media of EU-4 Rating

Motor Blower Assembly: Centrifugal Blower statically and dynamically balanced with Suitable Rating



Dimension Table

Sterile Tech TM	Model No	SAS 336	SAS 366	SAS 396
Working Size	(W x D x H)Ft	3' x 3' x 6'	3' x 6' x 6'	3' x 9' x 6'

Pass Box

❖ Static Pass Box ❖ Dynamic Pass Box

Static Pass Box Controlling the ingress of particulate contamination into cleanrooms and other controlled environments is paramount in order to maintain the integrity of products and processes. Personnel traffic is the most important factor which must be controlled. Pass Boxes and Transfer Hatches are an executive solution as they allow materials to be transferred into the controlled environment without actual personnel movement. They may also be used to protect the external environment from egress of contamination.



Modular OT

Modular Operating Theatres can effectively maintain desired sterilized environment with superior laminar air flow system and a perfect working environment for any surgeon with zero contamination.

We are introducing as Total Turnkey Solution Provider for Modular Operation Theatre. Having well trained with hands-on experience and thorough knowledge about the latest technology guidelines of NABH and ISO standard in Operation Theatre.

Features: A continuous flow of highly filtered 'bacteria-free' air is reticulated under positive pressure into the operating Room; field and air contaminants generated during surgery are removed from the site

Description: In an operating department for which the most integrated function is required, cleanliness must be kept and the safety of facilities, equipment's and devices must be maintained any times. Furthermore, the working environment for medical staff such as doctors and nurses must be considered from the view point of human engineering. The modular operating theatre satisfying those conditions consists of wall, ceiling, and is capable of incorporating not only electrical equipment, medical gas system and lighting gears but all the necessary functions and equipment's at need. In addition, the most complex and challenging area of hospital construction is the operating department.

PRODUCT DESCRIPTION AS FOLLOWS:

Laminar Air Flow: Sterile Tech™ Laminar Air Flow means that the flow of air is continuous, steady and unidirectional, with the entire body of air in the room moving with a low uniform velocity in parallel planes. In rooms equipped with Laminar Flow Patterns, the idea is to have a steady

Its provide ultra-clean sterile CLASS 100 clean air in an isolated area where various kinds of critical and highly sensitive process activities are carried out in as per CLASS 5 OF ISO 14644-1 standards. HEPA filters Retention capacity of 0.3 micron at 99.99% efficiency with initial pressure drop at 12 mm WG.

View Window: Sterile Tech™ the view window of specified size to be provide consisting of double insulated fixed glazing with not less than 5mm thick toughened glass. Window frame to be powder coated GI frame of flush mounted with wall panelling.



Clean Room & OT Validation

Sterile Tech™ Cleanrooms are validated to a required class of cleanliness. The level of cleanliness chosen is driven by user requirements. Cleanroom classes are defined in ISO 14644-1 Methods for evaluation and measurements for Certification are specified in

Standards:

CERTIFICATION SERVICES

- USFEDSTD209E
- ISO14644•1
- IEST•RP.CC•002•2

It calls out for the following tests.

1. Air Borne Particle Count Test
2. Airflow Test
3. Air Pressure Diferential Test
4. Airflow Direction Test
5. Temperature Test
6. Humidity Test

Once certified to a particular class the Cleanroom factors are monitored to ensure that parameters have not drifted, or changed, and that the environment is under control



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