

Intergrated Cleanroom Technologies Pvt. Ltd.



CLEANROOM EQUIPMENT

Cleanroom Equipment

- ◆ Pass Box
- ◆ Laminar Airflow Unit
- ◆ Mist Shower
- ◆ Sterile Trolley
- ◆ Bio-Safety Cabinet
- ◆ Dispensing & Sampling Booth

www.icleantech.com



ABOUT US

Integrated Cleanroom Technologies Pvt. Ltd. (Iclean), a subsidiary of Takasago Thermal Engineering Co. Ltd., (TTE), Japan was established in 2003 to primarily serve the cleanroom requirements of customers, which were until served through imports, in India.

Over the years Iclean has evolved as an appreciated partner in building facilities for Pharmaceutical/ Biotechnology, Micro Electronics, Semiconductor, Nanotechnology, Hospitals, Food & Beverages, Dry Rooms, Specialty applications and Research & Development labs on turnkey basis. We are a technocrat driven company with management and senior staff having vast experience in similar industry spear heading the company into newer heights.

We are a facility build company since 2003, having manufacturing base at Hyderabad & Vadodara and project locations in all major cities across India. In a short span of time, we have evolved as one of the largest manufacturer of Cleanroom components such as Modular Partitions, Cleanroom Equipment, Lab Furniture, AHUs, Ducting etc.

All our products manufactured in a state-of-the art manufacturing facilities, are designed to meet operational flexibility and conform to stringent quality norms as per cGMP standards.

Rich Experience

Established in 2003, with over 22 years of rich experience

Technocrat Driven

Key management team with vast experience various segments

Wide Product range

One stop shot with full spectrum of design, manufacturing, installation, validation and handover

High quality

Products in compliance with major international quality standards

State of art facility

One of the largest facility in the country with state-of-art machines

Project Expertise

Highly experienced and skilled team of project engineers



NUMBERS AT A GLANCE (PRODUCTION CAPACITY/YEAR)

CLEANROOM INTERIORS
(M²)

7,20,000

CLEANROOM EQUIPMENTS
(NOS.)

2000

LAB FURNITURES
(UNITS)

4000

DUCTING
(M²)

4,00,000

AIR HANDLING UNITS
(UNITS)

2000

CLEANROOM EQUIPMENTS

iCLEAN offers Cleanroom equipment within the Cleanroom for Pharmaceuticals, Biotech, Microelectronics, Semiconductor, Laboratory and Hospitals. iCLEAN provide tailor made solutions and design cleanroom equipments for specific use. The equipments are designed with durability, ease of use, compactness and aesthetics in focus. iCLEAN design engineers have incorporated many small features that differentiates our products. iCLEAN product standardization ensures the deliveries are faster and also enables easy access to the spares of each equipment. iCLEAN design engineers have also worked to ensure these equipments integrate easily with our cleanroom partitions.



PASS BOX



AIR FLOW UNIT



AIR SHOWER



MIST SHOWER



BIO-SAFETY CABINET



DISPENSING & SAMPLING BOOTHS

PASS BOX

iCLEAN manufactures Static and Dynamic pass boxes meeting the customer specific requirements and to the highest standards.

In pharmaceuticals manufacturing facilities, it is essential to minimise man / material movement and avoid cross contamination between different classified areas to achieve desired classification and to maintain integrity of products and processes. Pass Box is designed to allow material transfer without much personnel movement. It also aids controlling ingress of particulate contaminants into cleanroom from different classified/unclassified areas.

iCLEAN also manufacture the units with flameproof constructions as per end user requirements



AIR FLOW UNIT

Air flow unit offers proven protection for samples and processes. The work area is continuously supplied with positive pressure.

Unidirectional Air Flow Units are designed for offering highest product protection by providing ISO Class 5 work area for handling critical process.

The work area is continuously supplied with positive pressure HEPA filtered Vertical/Horizontal air flow. The laminarity of the flow prevents cross contamination between the items handled in the working space.

Horizontal LAFU

Vertical LAFU

Mobile LAFU

Ceiling LAFU



Static Pass Box

- Double Walled Construction
- Electro-magnetic Interlocking Doors
- Mechanical / Pneumatic interlocking (Optional)

Dynamic Pass Box

- Two Stage filtration
- Statically & Dynamically balanced Motor-Blower assembly
- Electro-magnetic Interlocking Doors

AIR SHOWER

Air Shower is designed to supply Class 100 HEPA filtered air at high velocity to remove particulate matter from the person entering into the CleanRoom.

Air shower is a self-contained air chamber installed at the entrance to cleanrooms in order to minimize the amount of particulate contaminants entering the cleanroom. Personnel move through the air shower while particulate contaminants are washed off with high velocity HEPA-filtered air jets. The high air velocity of 6000 FPM ensures efficient scrubbing action necessary to remove particulate matter. Contaminated air is then taken through the bottom of the unit, filtered, and re-circulated into the chamber.

Two stage filtration- EU6 and EU 14

SS 304 doors with double walled flush glass view doors & door closer

**Air cleanliness
ISO Class 5 (ISO 14644-1:1999 (E))**

Air Velocities- 6000 fpm

Vibration Level - Minimum

Noise Level - Less than 70 dB





MIST SHOWER

Mist Showers are used for the control and containment of Hazardous Powders & Potent Compounds

The Misting Shower provides a fine atomized fog to affix any loose powders on the user garments to prevent the powders from becoming airborne or migrating outside of the containment during de-gowning. The additional feature of airjet cycle will be provided optionally to remove water droplets from the gowning. The contaminated water droplets will be collect at bottom of shower.

BIO-SAFETY CABINETS

All Class II cabinets are designed for work involving microorganisms assigned to bio safety levels 1, 2 and 3.

Bio-safety cabinets are designed to provide personnel, environmental and product protection. Air flow is drawn around the operator into the front grille of the cabinet which provides personnel protection. Additionally, the downward laminar flow of HEPA-filtered air provides product protection by minimizing the chance of cross-contamination along the work surface of the cabinet. Because cabinet air passes through the exhaust HEPA filter, it is contaminant-free (environmental protection). All Class II cabinets are designed for work involving microorganisms assigned to bio safety levels 1, 2 and 3. Class II cabinets provide the microbe-free work environment necessary for cell culture propagation, and also may be used for the formulation of non-volatile antineoplastic or hemotherapeutic drugs. Bio safety cabinets are available in powder coated Galvanized Steel, SS 304 / SS 316 or a combination of both.

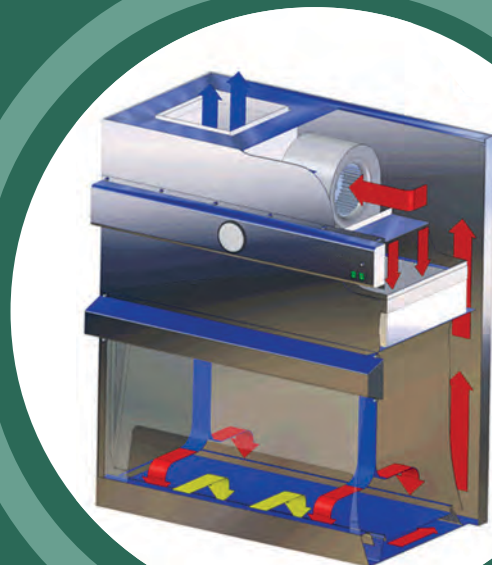
Two stage filtration- EU6 and EU 14

Double walled flushed Glass Side Panels

Sealed Fluorescent Lights with Milky White Diffuser

Clean Down Timer with Operation HOLD indicator

Single piece fully openable sliding toughened glass front door with counterweight arrangement



Alarm triggers in case front door is raised more than 150mm

STERILE TROLLEY

- Two stage filtration- EU6 and EU 14
- Statically&Dynamically balanced Motor-Blower assembly
- Battery back-up with inverter for 30 mins
- PU coated Lockable Castor Wheels
- SS 304 removable Shelves
- Differential Pressure Gauge



DISPENSING & SAMPLING BOOTHS

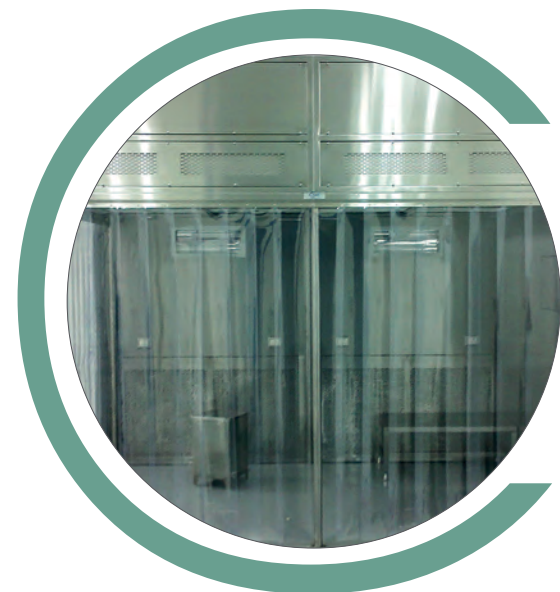
Protection from airborne contaminants generated during powderhandling operations such as sampling, charging and dispensing.

Reverse Laminar Air Flow Unit provides

- Operator Protection
- Product Protection
- Environment Protection

The downflow booth operates on a recirculatory airflow principle providing containment by air movement. A clean, constant, laminar downflow of ISO class5 air is supplied in work area suppressing any dust clouds generated during open powder processing, removing and capturing airborne particles from the operator's breathing zone. The Prefilters at the base of the rear wall, capture the airborne contaminants generated. Intake velocity at prefilters increases to ensure scavenging effect. A small percentage of air is discharged from the booth through the bleed exhaust HEPA filter to maintain the working space under negative pressure. RLAF is available in GI powder coated / SS304 / SS316 or combination.

iCLEAN also manufacture the units with flameproof constructions as per end user requirements



Three stage filtration- EU4, EU4 & Eu14

Double walled flushed Glass Side Panels

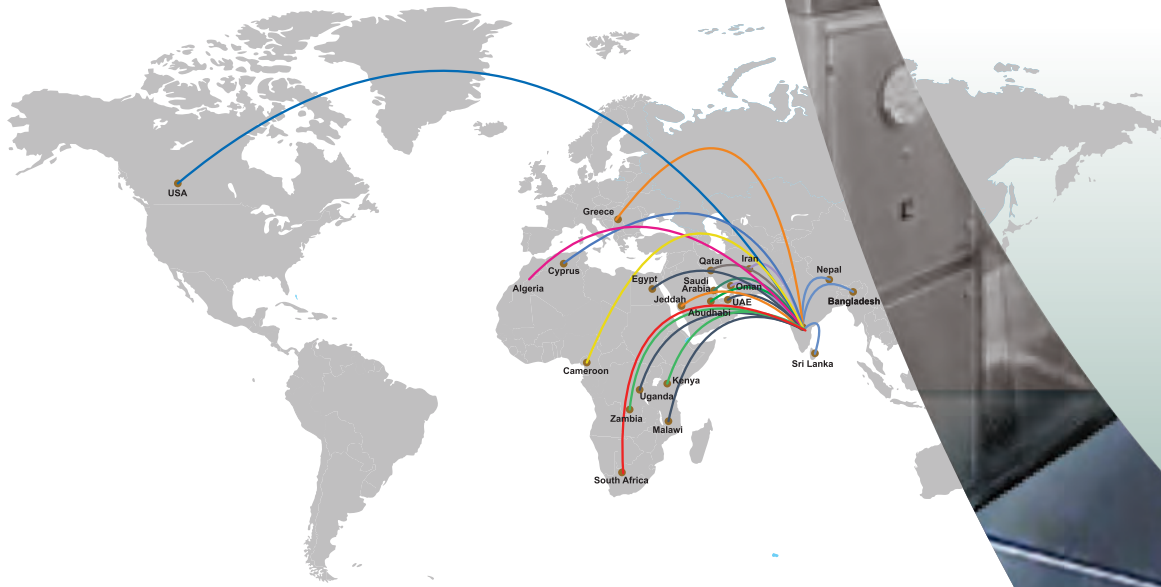
Statically & Dynamically balanced Motor

Double skin puff filled side panels

Internal covings at base

Differential pressure gauges

Global Presence



WORLDWIDE EXPORTS
to 22 Countries in
5 Continents

2500+ INSTALLATIONS
across the globe

EXPERIENCE
of over 22 Years in
Mfg & Management

2000+ TEAM MEMBERS
Skilled & Committed



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iClean reserves the right to change specifications without notice due to continous product improvements.
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