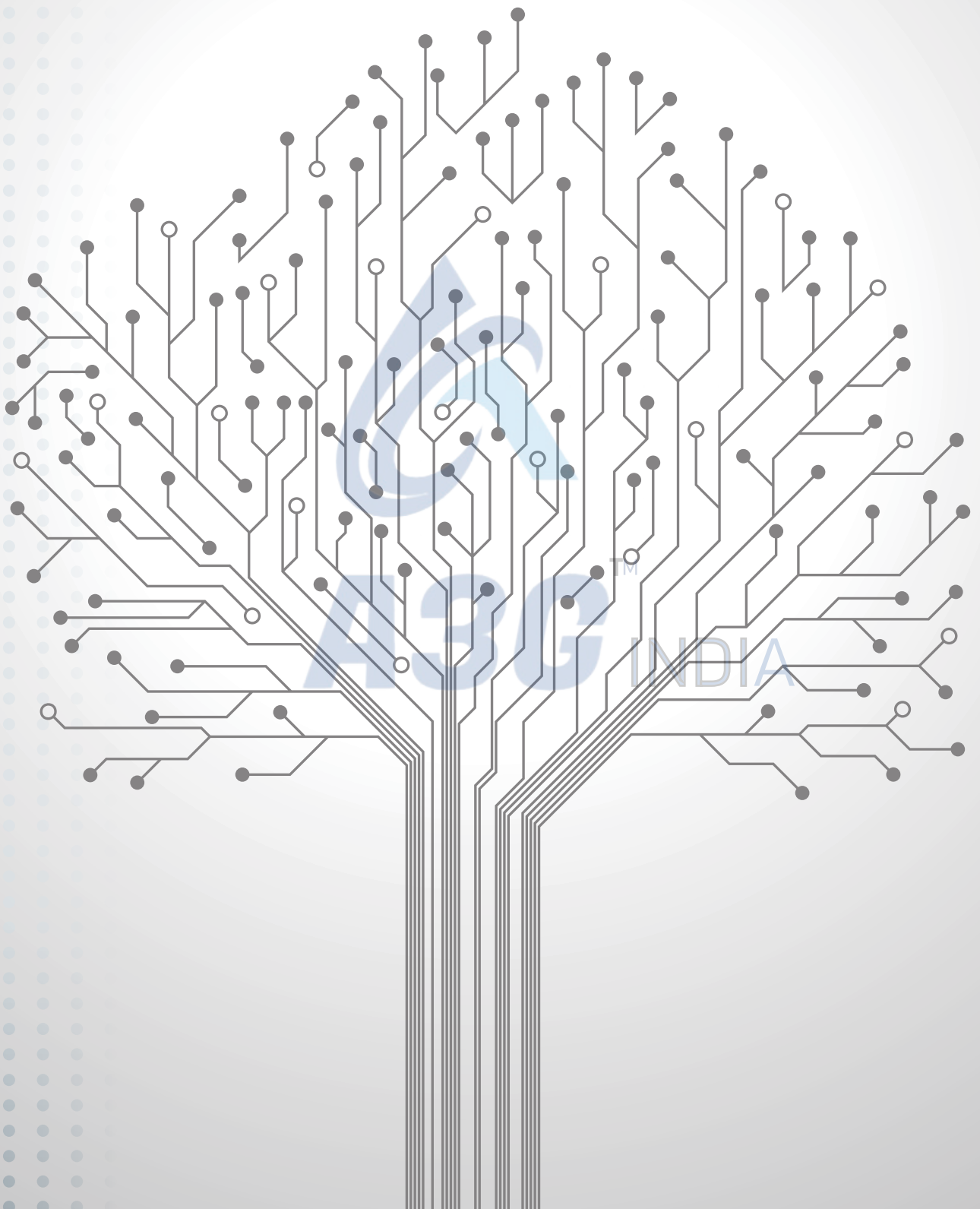




All You Need Is Always Be Here
Modular OT, Clean Room & Cold Room

PRODUCT CATALOGUE

www.a3gindia.com





COMPANY PROFILE

A3G India. Feels proud to introduce ourselves as one of the leading Electronics & Clean Room Equipment's Manufacturing Company. We offer a wide range of products and serve all kinds of market segments, whether national or international. It has been over 4 decades since we have been dealing in all types of

- Controllers Series
- Door Hardware

In order to meet today's emerging demands of customers, we have lately expanded by diversifying in various categories.

A3G has a full range of Intelligent Lock/Digital Lock Series that consists of Finger Print/ Bio-metric Locks, Keypad/ Password Locks & Hotel Locks/ RF Card Locks, together with Personal/ Electronic/ Hotel Safes. We ensure that only the latest and best technology is offered.

A3G provides complete solutions for all ranges like Security & Access Control solutions, Door & Window Hardware solutions, Hotel Security solutions, to cater to the following segments:

1. Real Estate
2. Government & Private Projects
3. Commercial Projects
4. Architectural & Interior Design Projects
5. Hotels & Luxury Apartments
6. Dealers & Distributors
7. Offices, Homes, Villas & Residences
8. Malls & Shopping Complexes
9. IT Parks
10. Hospital

To suit every taste and pocket, our products go beyond the luxury and niche segment to the commercial range of Controllers solutions.

Mission

Our mission is to exceed our customers' expectations in quality, delivery and cost through continuous improvement and innovations in our business and building good customer relations

Vision

A3G India is committed:

- To provide the highest quality product possible through our highly skilled and dedicated employees and state-of-the-art and patented products and manufacturing process.
- To pursue an aggressive, outgoing research and development program thus insuring its future as a leader in sterilization and healthcare products.
- To provide the highest standards of service available through our highly trained, domestic and international field representatives and customer service personnel. Proper employees are expected to serve the customer with the highest level of technical knowledge in the industry.

Passion

Our passion is to serve more and more people, with better products and services each day, and to grow and expand in various other sectors under our brand name.



With our technical capabilities, we have catered various clients with our below mentioned in-house product segments

PORTFOLIO

1 Electronics Segments

- Cleanroom Door Interlocking
- Static Pass Box Controllers
- Dynamic Pass Box Controllers
- Air Shower Controllers
- Laminar Air Flow Controllers
- Electromagnetic Padlocks)
- Digital Magnehelic Gauge
- Laminar Air Flow
- Peripheral Lights
- Pendants
- Gas Alarm System
- 4 Reflector Single Dome Light

2. Cleanroom Equipment Segment

- Static Pass Box
- Dynamic Pass Box
- Ceiling Suspended Laminar Air Flow Unit
- Table Top Vertical Laminar Air Flow Unit
- Table Top Horizontal Laminar Air Flow Unit
- Sampling/dispensing Booth
- Air Shower
- Mobile Laminar Air Flow Unit
- Sterile Garment Cabinet Unit
- Biosafety Cabinet Unit
- Laboratory Fume Hoods
- De-dusting Tunnel

3 Cleanroom Furniture Segment

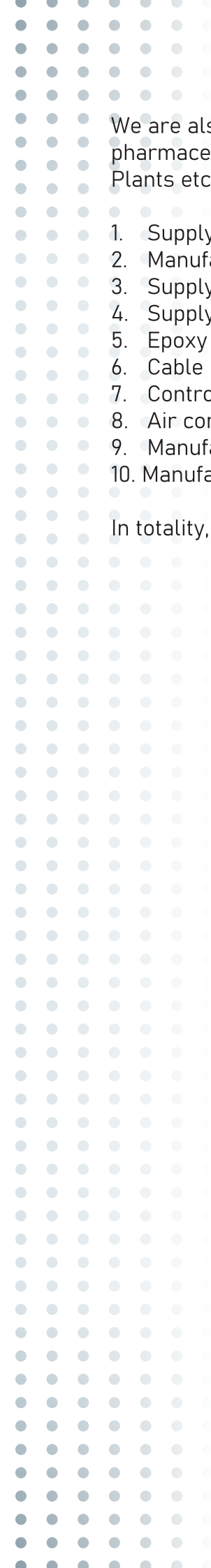
- SS Tables
- SS Chairs
- SS Stools
- SS Pallets
- SS Waste Bin
- SS Stairs
- SS Lockers/Cabinets
- Cross Over Bench
- Material Transfer Trolleys
- SOP Stand
- IPA Stand
- SS Scoops, Funnels, Spatulas

4 Hospital Equipment Segment

- Cleanroom Doors (M.O.C. - SS & PPGI)
- SS Scrub Sink (1 way, 2 way, 3 way)
- SS Pressure Release Damper
- Writing Board
- X-ray Board
- Control panel

We can also supply the below mentioned cleanroom hardware items;

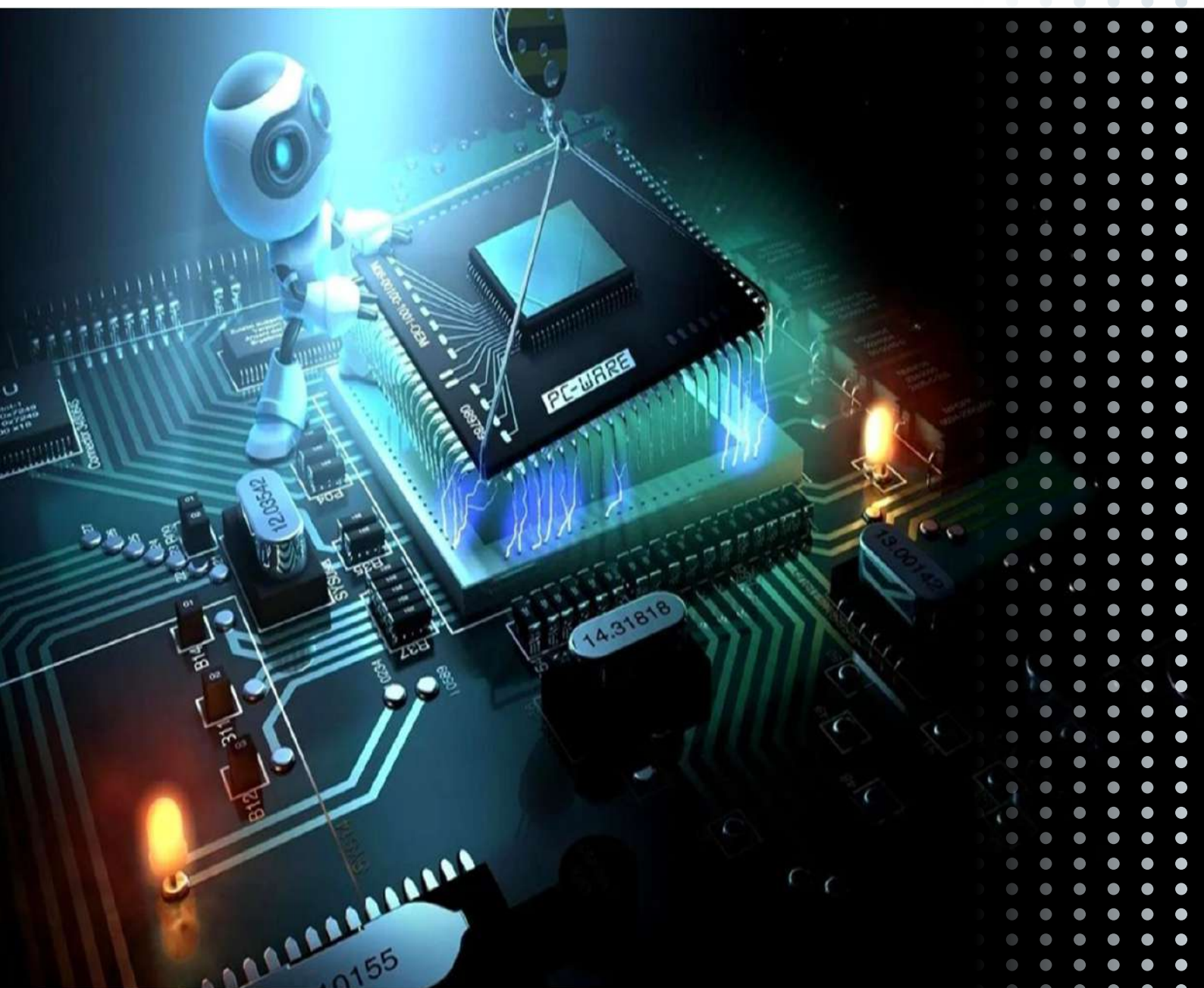
- Covings
- PVC Covings (R50, R100)
- Aluminium covings (R65, Powder Coated & Anodized)
- Powder Coated "T" with Clamp
- MOC - Aluminium
- MOC - M.S.
- Powder Coated "U" Channel & "L" Channel
- MOC - Aluminium
- MOC - M.S.
- Outer Coving
- Aluminium (Both Powder Coated & Anodized)
- Cleanroom Door Hardware
- SS 304 Door Hinges
- SS 304 Door Handles (Back to Back)
- SS 304 Door Handle & Push Plate
- SS 304 Kick Plate
- Door Locks
- SS 304 / Die Casted Tower Bolt
- Door Drop Seal
- Door Seal
- Door Closer
- Door View Window
- SS 304 Door Stopper



We are also having a dedicated in-house team for handling cleanroom projects for pharmaceutical, Chemical Plant, Cosmetics plant, Hospital setups, Surgical Equipment Plants etc. We are defining herewith our scope of work;

1. Supply & Installation of Cleanroom Modular Partitions
2. Manufacturing, Supply & Installation of Cleanroom Doors
3. Supply & Installation of Air Handling Units
4. Supply & Installation of AHU Ducting
5. Epoxy Flooring
6. Cable Lying & Electrical wiring
7. Control panels
8. Air compressors
9. Manufacturing, Supply & Installation of Door Interlocking
10. Manufacturing, Supply & Installation of Cleanroom Equipment etc.

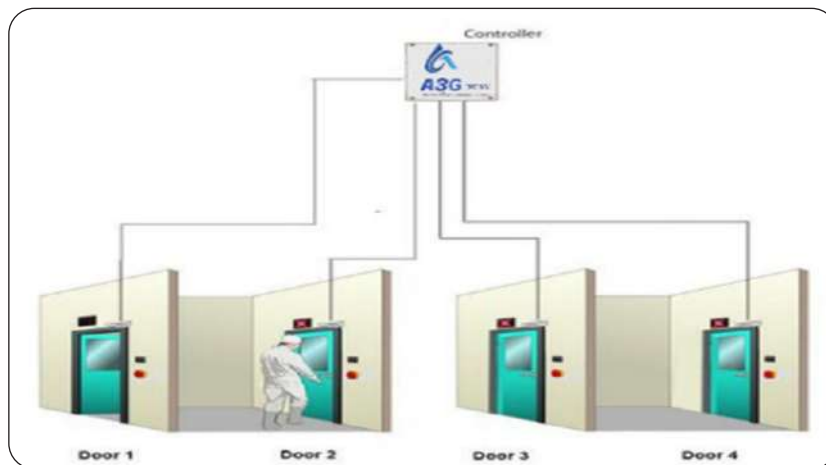
In totality, we can proudly say, we can be a one stop solution for all your requirements.



Door Interlocking Up to 12 Doors

The Door Interlock System (DIS) prevents more than one door from opening at the same time, under normal conditions. The Door Interlock System is electrically operated using magnetic locks and magnetic door switches. Pushbuttons installed at the doors are for overriding the magnetic locks in the event of an emergency. Visual and audible alarms sound when a door is opened and will silence upon closing.

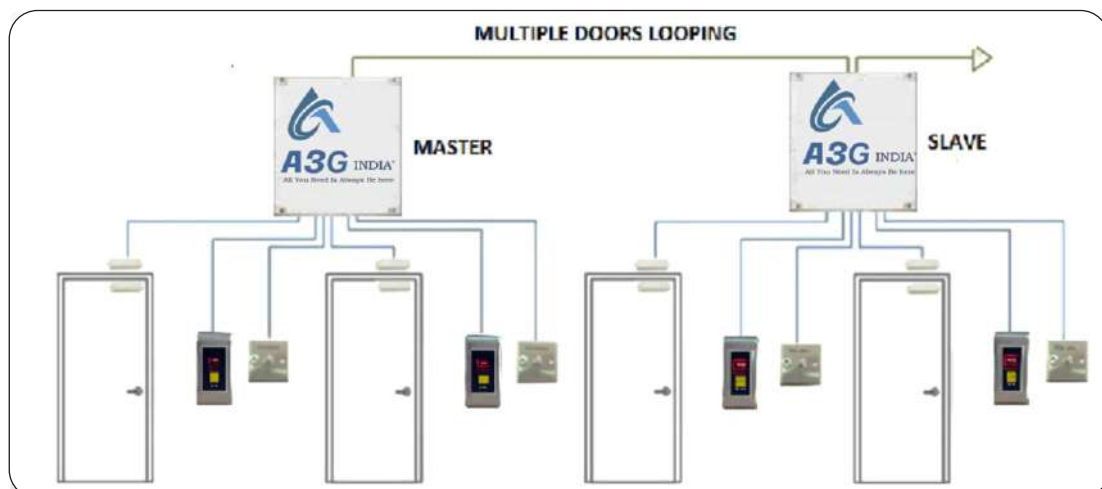
The Door Interlock System can be used in many applications for environmental and safety control such as laboratories and clean rooms where airlocks are utilized, darkrooms, x-ray and other treatment rooms



The Door Interlock System can be included as a kit containing a control panel with optional devices, such as: door magnetic locks, magnetic door switches and door emergency release pushbuttons mounted in stainless steel wall plates for a two, three or four door application. Control panels and pushbuttons are available in flush or surface models. The pushbuttons for a kit will be provided as flush or surface determined from the control panel selection.

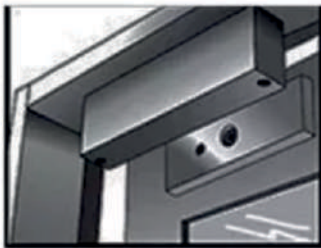
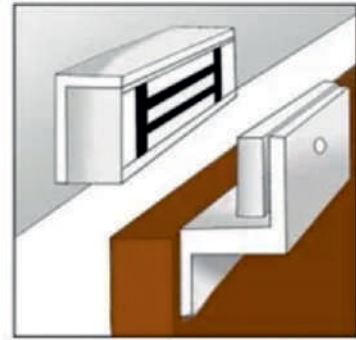
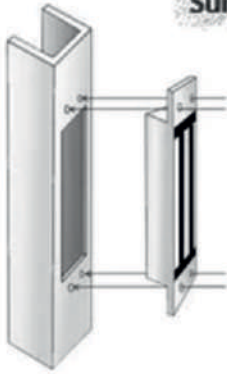
Integrate multiple doors in the same system

- Cascade feature for more than 8 doors Maximum up to 16 Doors



Installation

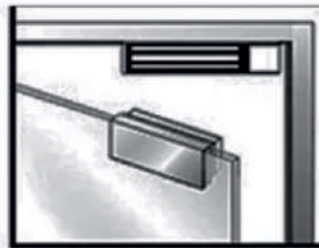
Suitable for: Wooden & Aluminum & Glass & Fireproof & Metal.



Regular Installation
(outswing door)



L-bracket for narrow
frame (optional)



U-bracket for frameless
glass door (optional)



LZ-bracket for inswing
door (optional)

Pass Box Controllers

In the process of material transfer from unclassified area to classified area pass box used. Pass box is rectangular box with two or three doors. The doors are interlocked such a way that doors cannot be open at the same time, due to which pressure losses and bacterial contamination doesn't take place throughout the material transferring process.

The prevention of simultaneous access of doors is been achieved by our Pass Box controller by ensuring that when one door for a Pass box is open then other doors closed.



Static Pass Box Controller Dynamic Pass Box Controller

1. When Door 1 is opened the display on the Door 2 will indicate "WAIT" and at the Door 1 the display will indicate "DOOR OPEN"
2. When any of the Door is kept open beyond a particular time say 2 min, a buzzer will be blown and the display at the doors will indicate "CLOSE DOOR"
3. When any door is opened the CF lamp is switched on and the UV lamp will be switched off
4. Both Doors are provided with Electromagnetic locks
5. Blower fan will be ON when door is open

Air Shower Controllers

We are manufactures of Electronic controller for Air shower cabinet. Our product are designed and manufactured considering long trouble free operation with easy serviceability. Designed products are tested for EMI/RFI interferences to avoid filed failure. The Air Shower system controls the sequential locking and release of the doors, and controls the Blower. The two doors are interlocked such that two doors cannot be open at the same time, to prevent pressure losses and cross contamination. Our Air Shower interlocking system achieve this by preventing simultaneous access of door by ensuring that when one door for an Air Shower interlocking system is open then other door is closed, before opening of door.

1. When any one of the Door is opened the display on the other doors will indicate "WAIT" & person access the door by pressing push button.
2. All Doors are provided with EM Locks.



Features:

- Advanced Micro controller based.
- Supports Maximum of 3 doors
- Supports Electromagnetic locks/Electric strikers
- Door status indication with high intensity Bar LEDs
- Status indication: GO, WAIT on push button station.
- Digital Display with soft touch Membrane keypad/Capacitive Touch button.
- Status indication: OPEN (Exit door open), Mode of operation:

MAN, AUTO on digital display module.

- Password protected configuration menu.
- User programmable Blower ON time variable from 0-999 Sec.
- Buzzer output for exit door is open.
- Air shower controller controls blower through overload protection relay
- MCB provided to control ON/OFF Air shower Controller

Laminar Air Flow Controllers

We are manufactures of Laminar Air Flow controller .Our product are designed and manufactured considering long trouble free operation with easy serviceability. Designed products are tested for EMI/RFI interferences to avoid filed failure



User Features:

- Advanced Micro-controller based
- 16x2 LCD Display
- Blower, UV, Lamp & Socket on/ off control through Hmi
- Opto isolated two digital reed inputs for sash window position
- UV Hour meter with RESET option.
- Blower speed controlling in m/s or fpm
- Sash sliding window UP/DOWN control
- Easy to installation& user friendly wiring

Technical Features:

- Microcontroller based design
- Emi/ Rfi tested design
- High quality electronic component
- OEN relay output
- Opto Isolation for inputs and outputs
- 230Vac / 110 Vac option available

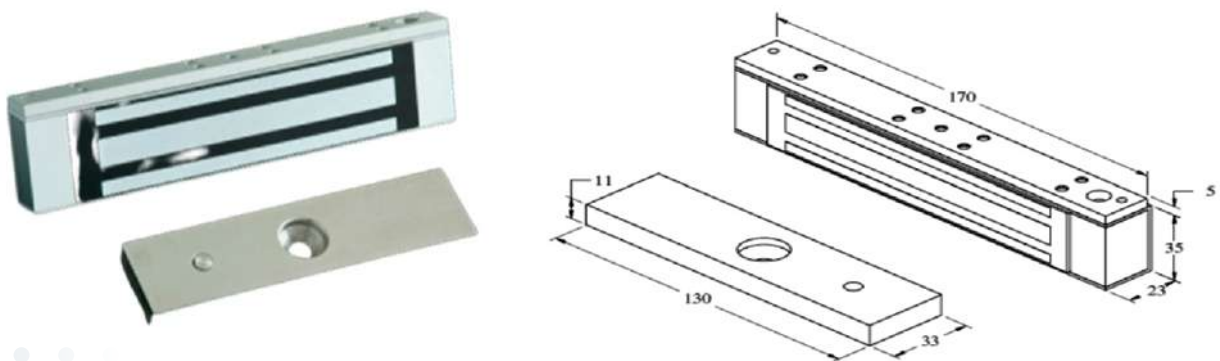
Electromagnetic Lock

EM lock or electromagnetic lock is a present-day contemporary door engaging lock which is used to provide secure and assured door entry at every professional and corporate place allowing only the authorized users to pass by.

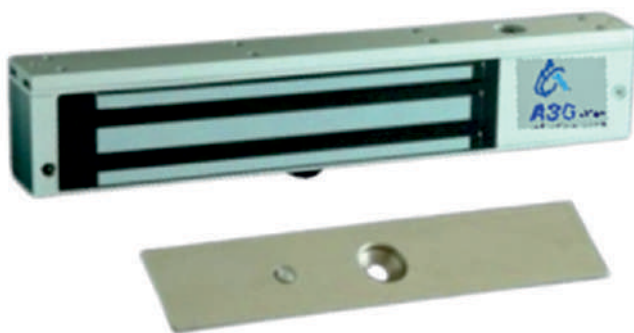
It can be used with access control and a Biometric Attendance System. Electromagnetic locks are used to block unauthorized movement in offices and work set-ups.

It is a fail-safe lock which means doors automatically open in cases of emergency, fire, and power failure assuring that no one gets stuck inside the buildings.

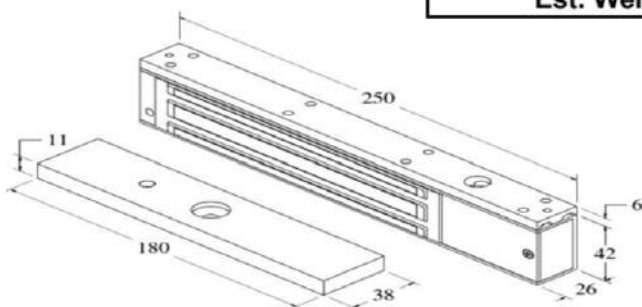
Model	AG-300 LBS
Features & Spec.	
Lock Status Monitoring	-
Holding Force	Up to 300lbs
Magnet Size	170 X 35 X 23 mm
Armature Size	130 X 33 X 11 mm
Current Drain	300mA±10%/12Vdc 150mA±10%/24Vdc
Operating Temperature	(-10 to 55) °C (14 to 131) °F
Housing Finishing	Anodized Aluminium
Est. Weight	1.5kg



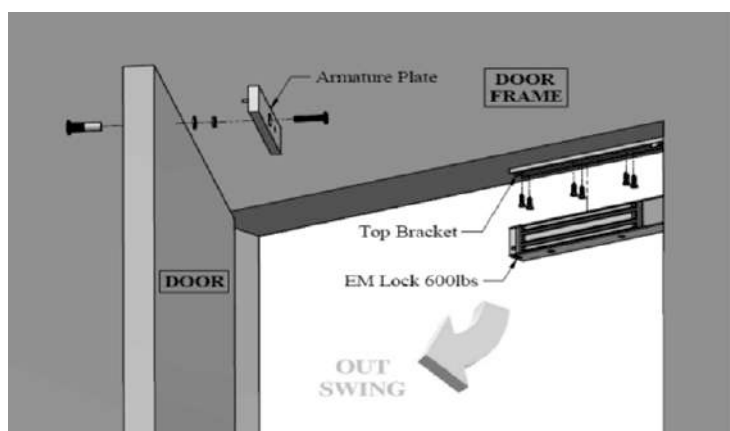
- The Dynamically powered electromagnet establishes a flawless connection with the door.
- A forceful armature plate is used to establish a firm connection with the electromagnet which can hold a force of up to 300 kgs.
- The interface is linked with a card reader or finger touch which authenticates the entry of any person.
- An Automated lock with a lock-unlock feature through card, finger, pin, password & button without any need for levers and doorknobs.



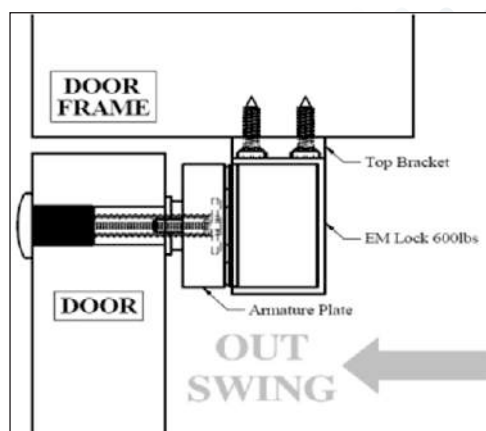
Features & Spec.	Models	
	AG-600 LBS	
Lock Status Monitoring	-	✓
Holding Force	Up to 600lbs	
Magnet Size	250 X 42 X 26 mm	
Armature Size	180 X 38 X 11 mm	
Current Drain	480mA±10%/12Vdc 240mA±10%/24Vdc	
Operating Temperature	(-10 to 55)°C (14 to 131)°F	
Housing Finishing	Anodized Aluminium	
Est. Weight	2.0kg	



STANDARD INSTALLATION DIAGRAM



Explode View



Side View

Digital Magnehelic Gauge

The Magnehelic gauge is the industry standard to measure fan and blower pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid levels with bubbler systems and pressures in fluid amplifier or fluidic systems



It also checks gas-air ratio controls and automatic valves, and monitors blood and respiratory pressures in medical care equipment. Differential Pressure Indicators are Digital Readout Magnahelic Gauges Suited For Application In Laminar Air Flow Cabinets, Clean Rooms, Biosafety Cabinets, AHU, Etc. Differential Pressure Indicators Are Part Replacement For The Analog Magnahelic Gauges & Are Easy To Use With Clear LCD Display. It Comes With Built In Sensor & Also A Buzzer Alarm With Acknowledgement Facility For Process Violation Alert.

Biosafety Cabinet Controller

We are manufacturers of Electronic controller for Bio Safety Cabinet. Our product are designed and manufactured considering long trouble free operation with easy service ability.



User Features:

Advanced Micro-controller based.

- Real time clock IC with date/ time setting
- Menu with Setting / Operating Mode / Calibration / Admin
- UV Timer / Experiment Timer / Warm up Time / PP Time
- Operating mode Normal / Quick Start-up / Maintenance



Cleanroom Equipment Segment



Clean Room Equipment's

Pass Box

Pass box is one of the cleanroom systems, which is used to transfer materials from one side to other side through controlled environment in order to avoid airborne cross 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. Interlocking door mechanism is the prime feature of a pass box, when door at one side is open the door at other side remains closed. It is popular with other names such as cleanroom pass through, clean transfer window and transfer hatch; in addition, it is widely used in Microbiology Laboratories in Food, Pharmaceutical, Chemical Industries and Hospital

A pass box is designed in two different types; Static and Dynamic, it is the user specific requirement which decides the right design configuration

- **Static Pass Box** 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.
- **Dynamic Pass Box** A dynamic pass box is fitted between classified and non-classified areas. Material is passed through vertically HEPA filtered air.



Dynamic Pass Box



Static Pass Box

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. LAF is short form of laminar air flow.

LAMINAR AIR FLOW APPLICATIONS

Laminar air flow systems are used in various applications 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.

TYPES OF LAMINAR AIR FLOW

There are two different types of laminar air flow cabinets are constructed; horizontal and vertical. The difference between vertical and horizontal laminar flow hoods is direction of air flow and placement of HEPA filter. These cabinets are made with either horizontal or vertical air flow systems and have two stages filtration. It is the type of application which decides which is most suitable to use.

VERTICAL VS HORIZONTAL LAMINAR FLOW

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.

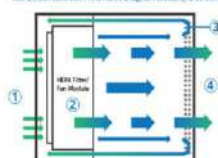
Horizontal Laminar Air Flow

In horizontal air flow cabinet, room air is entered in working area through HEPA filter fitted on the back side of the cabinet. Filtered air flows horizontally towards the user creating sterile working environment.

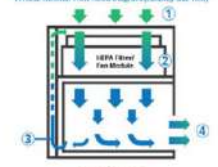
**Laminar Flow
hood / cabinet**



Horizontal Laminar Flow Hood Diagram (Courtesy: Safe Work)



Vertical Laminar Flow Hood Diagram (Courtesy: Safe Work)



Ceiling Suspended Laminar Air flow Unit

The air flow ceiling is widely used at operation room and laminar flow room as final filtration system. It has the effect of a high efficiency filtration, current and airflow compensation function. A3G series clean air ceiling is the crystallization of the experience and practice of the operating room supplying air. The use of this equipment can be a reasonable distribution of clean room airflow, and to effectively guarantee the indoor cleanliness. The air ceiling is widely used at operation room and laminar flow room as final filtration system. It has the effect of a high efficiency filtration, current and airflow compensation function.



Laminar Supply Air Flow Ceiling Advantages

In order to improve medical care quality, and to reduce postoperative infection, more and more hospitals adopt modern medical purification technology in the Pre-Operation Rooms, Operating Theatres, Delivery Rooms, ICU, Recovery Rooms, etc. It is crucial for clean rooms and operating theatres to be kept dust-free and for moisture and temperature to be regulated. For this reason it is necessary for laminar flow ceiling to be mapped properly and to be controlled.

3. Laminar Supply Air Flow Ceiling Parameter

Model/parameter	Class I	Class II	Class III
Efficiency	99.99%		
The wind speed(m/s)	0.45	0.3	0.23
Air supply size (mm)	2600×2400	2600×1800	2600×1400
Boundary dimension (mm)	2680×2480×500	2680×1880×500	2680×1480×500
Hepa size and QTY	610*305*292mm 8pcs	610*305*292mm 6pcs	610*305*292mm 4pcs
Usage occasion	Class I Special clean operating room.	Class II Standard clean operating room.	Class III General clean operating room.



Sampling/Dispensing Booth

Assembled dispensing booth, also called sampling or weighing booth, down flow booth or powder containment booth, is dedicated purification equipment for sampling, weighing and analysis. It can contain powders and particles within work area and prevent operator from inhaling them.

- Negative pressure design contains powder and particles inside booth, not overflowing booth
- Stainless steel construction make booth clean and hygienic
- Assembly design makes it possible to enter completed clean room
- Complete with user's manual, assembly drawing, quality certificate, test report, etc.
- One set of pre-filter and medium efficiency filters as spare parts

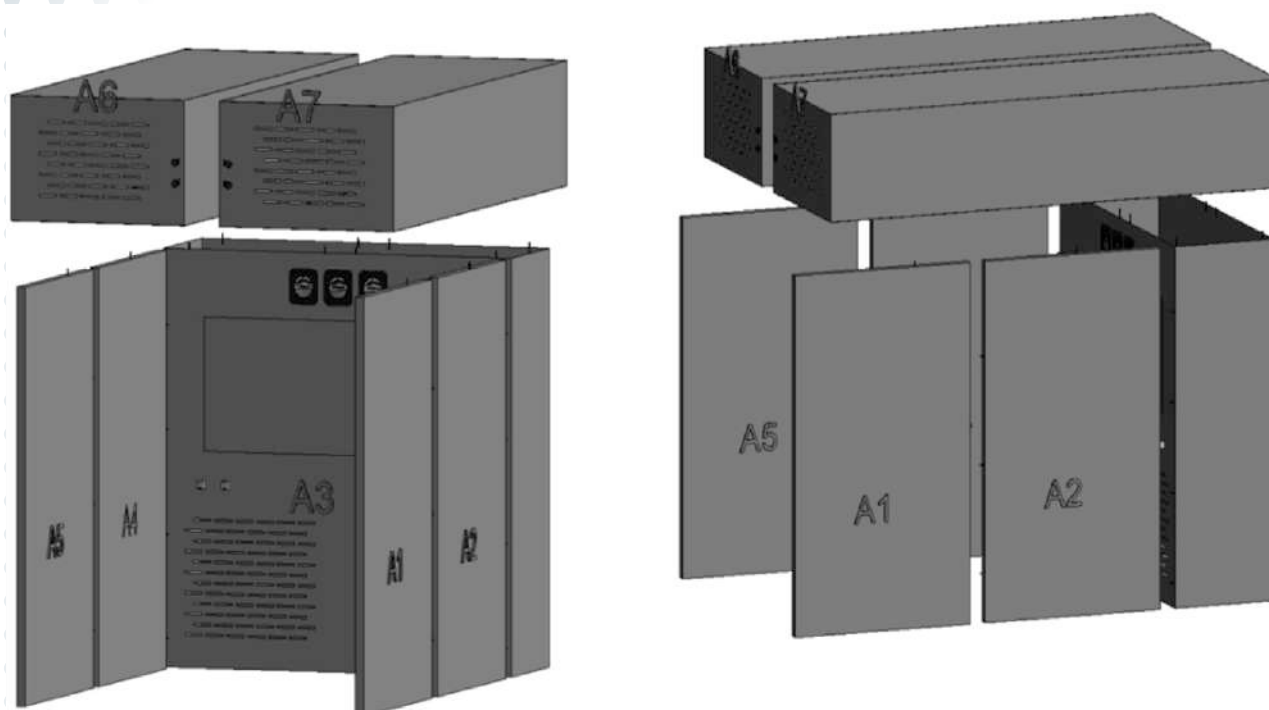


Technical Specification

- Cabinet fabricated in SS 304/316
- Air flow direction: Down
- Design according to GMP-guideline easy to clean and to disinfect.
- Specially design centrifugal or backward curved type air blower
- Magnehelic differential pressure gauge
- Soft touch LED controller for blower/light/pressure display
- Sensitive oxygen sensor with safety hooter
- Mini-plate HEPA filters H-14, 99.997% down to 0.3 μ .
- Pre-filter non-woven, HDPE mesh EU-04 95% efficiency 5 μ
- Florescent light
- PAO port/atmospheric nozzles
- Sound level minimum 65db on scale
- Power supply single phase 220v 50 HZ



Assembly Design



Model no	Working Area W x D x H	Overall Dimension W x D x H
A3G 001	915 x 610	1070 x 1170 x 2240
A3G 001	1220 x 610	1370 x 1170 x 2240

Note: The dimension of the booth can be customized.

Application

- Drug Formulation
- Chemical Industry
- Product Dispensing
- Large Scale Powder weighing and dispensing
- Raw Material Dispensing
- Pharmaceutical Industry
- Food Industry
- Cosmetic Industry

Air Showers

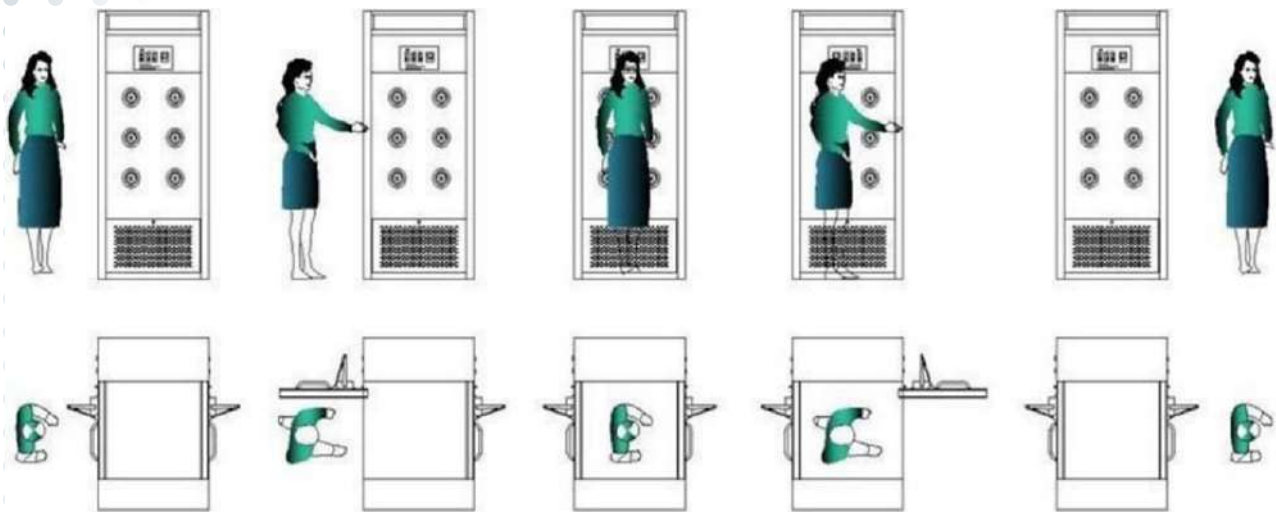
Air Showers are self-contained chambers installed strategically at entrances to cleanrooms and other controlled environments. They minimize particulate matter entering or exiting the clean space to mitigate the risk for cross-contamination.

How an Air Shower Works

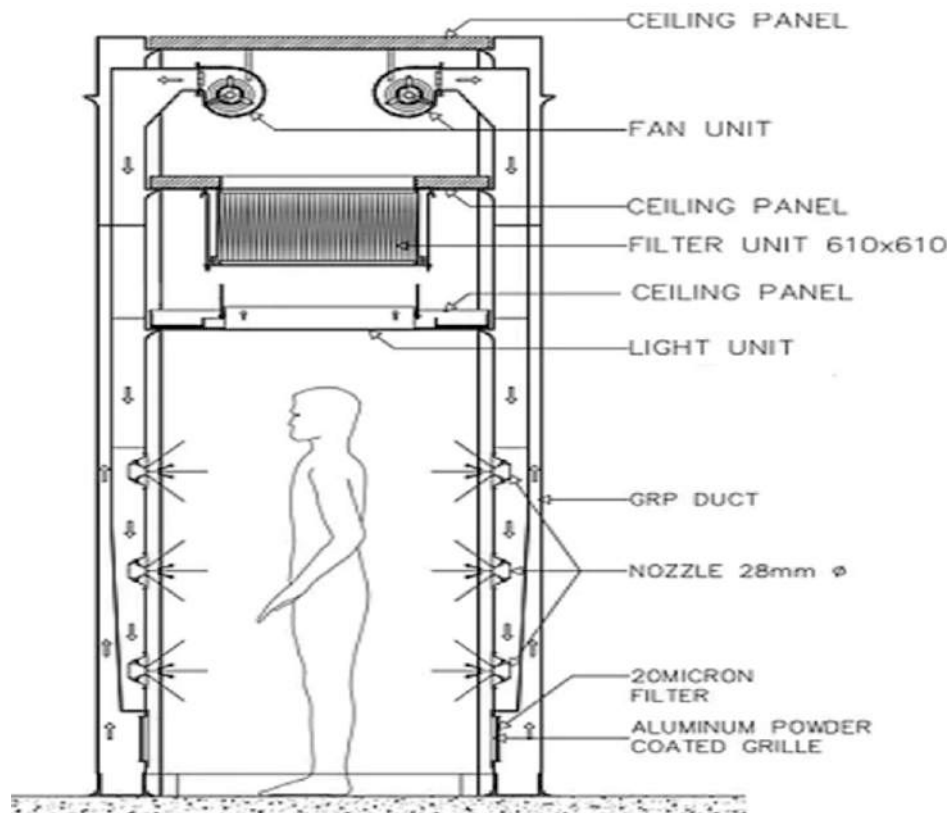
1. Completely self-contained, pre-wired, fully equipped Air Shower/Tunnel systems help solve decontamination problems
2. Modular design lets you order a system to suit your cleanroom
3. HEPA filter/blower modules (rated 99.97% efficient @ 0.3-micron particles) wash personnel with Class 100 air to dislodge and remove particles
4. Solid-state microprocessor panel provides programmable control over access door operation
5. Interlocking doors minimize contamination, release automatically in the event of power failure
6. Fluorescent lighting is housed in the ceiling for minimal turbulence
7. Available in white epoxy-finished CR steel, stainless steel, or plastic laminate to meet various cleanroom requirements
8. Variety of sizes and door configurations
9. Economical to operate, easy to maintain
10. System options include HEPA-filtered ceiling, ionized grid, and safety glazing
11. These Air Showers and Tunnels offer an effective way to remove surface-deposited particles from personnel-before they get to the cleanroom.



Operation of Air Shower:-



Microprocessor Control System, Programmable The microprocessor control detects improper operation and displays corresponding error messages should the integrity of the cleanroom be violated. The LCD displays shower duration and countdown, and reports cycle progress and operational status. A 24 hour clock displays local time



Mobile Laminar Air Flow:



Mobile Trolley is designed for transporting sterile products like Rubber Stopper, cap seal, Sterile garments, Vials and Ampoules under ISO Class 5/Class 100 particle-free work area for storing sterile products to meet Pharma needs while making a positive contribution to maintaining the cleanliness of your controlled cleanroom environment.

Operation

- Mobile Laminar Flow Unit is made of stainless steel metal that is movable with its wheels. Units are designed for transferring sterile products under Class 100 conditions
- The ventilation design creates a clean environment inside the working zone with positive pressure that prevents cross contamination risk from surrounding environment of unit.

OPTIONAL FEATURE FOR MOBILE TROLLEY

- Digital Pressure Gauge with Alarm
- Hour Meter

Specifications

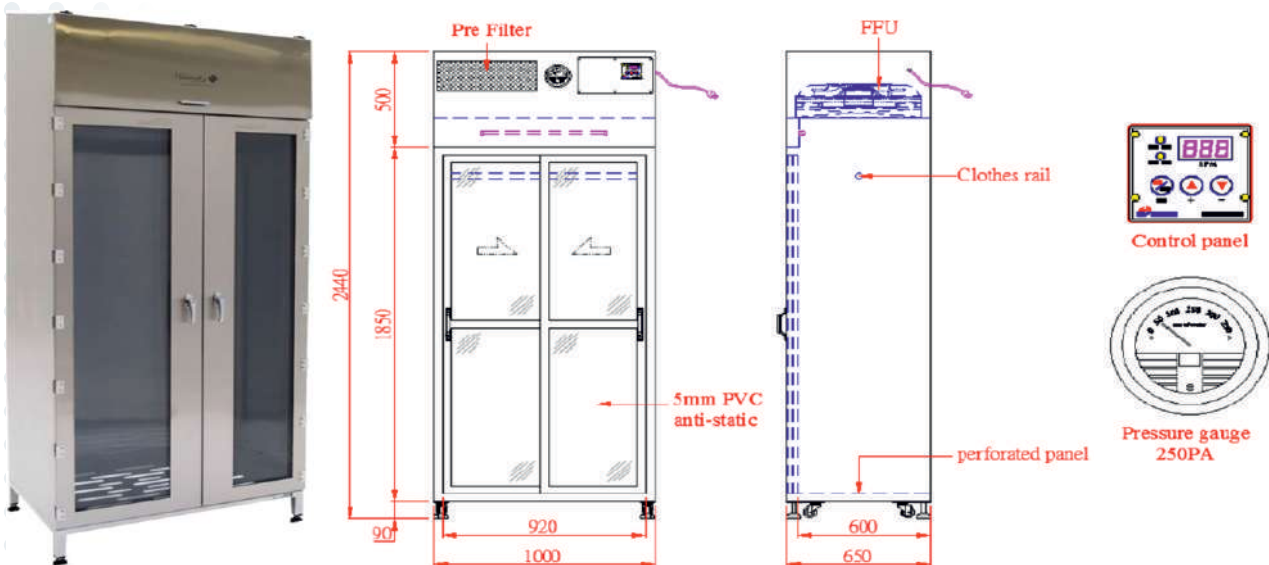
- Working zone under positive pressure
- Body structure fully made in stainless steel AISI 304
- Available in various dimensions
- Improved design for better air flow distribution
- High technology AC and EC fans
- Adjustable airflow with variable speed controller
- Constant speed controller available on request
- A horizontal airflow passes along each cage
- Stainless steel solid shelves
- Easily movable to any sides with wheels
- High quality HEPA Filter with gel type gasket
- Replace HEPA filter easily
- PVC transparent doors restrict the opened area
- Built-in UPS (for 30 minutes)
- Magnehelic Manometer for HEPA filter



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 contaminants from entering the unit, keeping garments safe and completely free of particulates.



Some of the salient features of the Cleanroom /Laboratory Cabinets are:

- 1-Made with high quality stainless steel (304 to 316) with pencil coving inside and double skin body
- 2-Ideal for storing medical tools, wipes, process equipment along with garments
- 3-Spacious in size as hold up to 30 garments
- 4-Comes with multiple adjustable shelves
- 5-Different door options from sliding doors to two-side opening
- 6-Low power consumption and user-friendly
- 7-Equipped with PVC front panels for static safety and ensuring optimum cleanliness
- 8-Equipped with a HEPA filter and a blower ensuring sterile garments storage
- 9-Ultra violet light with an hour meter
- 10-Easy to design with horizontal or vertical air flow system
- 11-A heater with thermostat
- 12-Two-stage filtrations: pre-filter and HEPA filter
- 13-Two kinds of storage options: adjustable shelves and hanging rods
- 14-Caster wheels for easy movement
- 15-Available at competitive market prices
- 16-Availability in scores of custom-made sizes
- 17-Works competitively in single-phase supply due to low power consumption

Biosafety Cabinet Unit



Biosafety Cabinets are designed to provide protection to operator, environment and materials inside the workspace. These Biosafety Cabinets are utilized for containing low-to-moderate risk bio hazardous materials. These Biosafety Cabinets have downward airflow and HEPA filters that re-circulate air providing required level of protection from microorganisms and aerosols. As these Biosafety Cabinets are extensively used in drug preparation, chemotherapy preparation, clinical research, medical and pharmaceutical sectors, life science and industrial laboratories etc. it must follow relevant application specific standards.

Different Names Same Purpose

A Biosafety cabinet is called by several names in research industry; microbiological safety cabinet, biological safety cabinet and Biosafety hood are such common names which are referred by microbiologists.

Biosafety Cabinet Maintenance

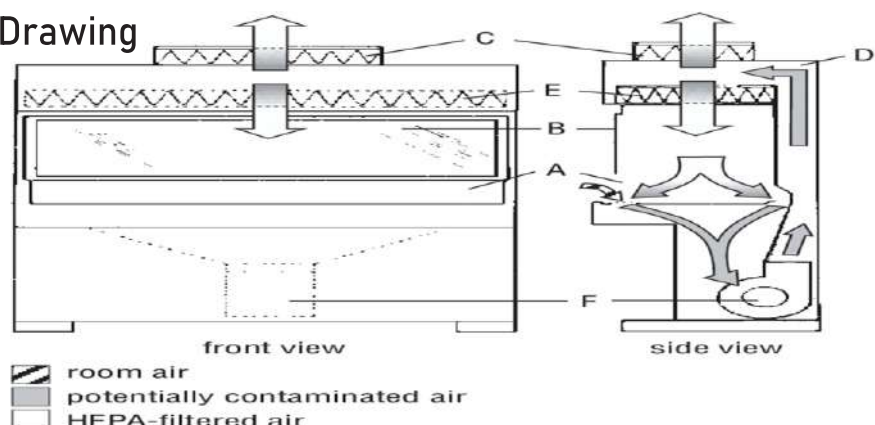
In order to take optimum use of a Biosafety cabinet and maintain operational integrity, proper maintenance is essential. A Biosafety operator must follow routine cleaning and inspection schedule. As chemicals are extensively used in these Biosafety Cabinets, filter saturation should be checked regularly, if need replace i immediately.



Standard Sizes (Dimensions)

Nominal Size	2 ft.	3 ft.	4 ft.	5 ft.	6 ft.
Working area (ft.)	2 x 2 x 2	3 x 2 x 2	4 x 2 x 2	5 x 2 x 2	6 x 2 x 2
External size (ft.)	2 x 3 x 7	3 x 3 x 7	4 x 3 x 7	5 x 3 x 7	6 x 3 x 7

Biosafety Cabinet Unit Drawing



Laboratory Fume Hoods

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

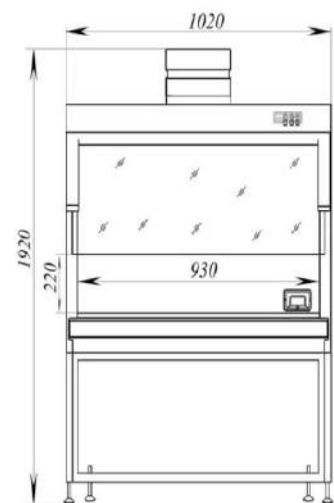
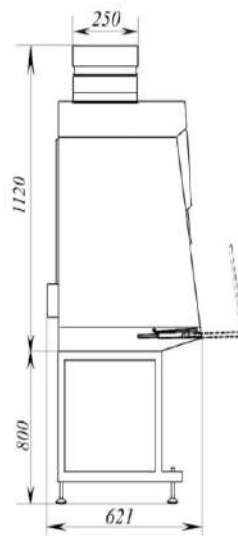
Application of the Fume Hoods

- 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.



Distinctive Features of the Laminar Fume Hoods

- All-metal frame;
- Stainless steel tabletop;
- Adjustable stand allows to horizontally level the work surface;
- Illumination lamp with protection screen located inside the working chamber;
- Electrical sockets inside the cabinet for connection of additional tools;
- All metal surfaces powder coated and resistant to disinfectants;
- Built in vent fan;
- Slanted front sash made of tempered glass can be fixed in two positions;
- Tabletop can be produced from tempered glass (optional);



De-Dusting Tunnel

De Dusting Booth is designed to provide dust controlled working environment and are used to remove loose particles/dust that accumulate on raw material even before they are entered in the ware house prior to sampling.

- General Specifications
- Three Stage filtration
- Statically & Dynamically balanced Motor-blowers with suspension arrangement to reduce noise level for suction and booster
- Differential Pressure Gauge
- Emergency STOP
- Motorized SS conveyor
- Automatic as well as Manual Mode
- Dust Collection Trays



Options and Accessories

Brushing Arrangement
SS Rolling Shutters
PLC Based System

Area of Application

Pharmaceutical Industries
Hospital and Medial
Microbiology laboratories
Chemical Research laboratories
Food processing Industries
Electronics Industries



Cleanroom Furniture Segment



Hospital Equipment Segment



Cleanroom Doors (M.O.C. - SS & PPGI)



These doors are prime high-performance doors that are designed to protect clean rooms in the organization. The clean room doors enhance the environmental structures that can impact your buildings. Such as pollutants, contaminants, dust and microbes. Clean room doors are one of the most important considerations of weight.

The core material that is used to build is a vital part of the overall performance of the clean room door and the material used to create these doors are paper honeycomb and aluminium honeycomb. These doors have features like high-efficiency particulates that filter to trap unwanted particles and remove them from the space. Also, clean room doors have climate control properties.

The food, pharmaceutical, health, and other industries have the most comprehensive and strict hygiene standards in the world.

The clean room doors allow cleaning and have several hygienic features. These doors need low maintenance but they are highly energy-efficient, which gives the productivity advantages of high-speed doors for pharmaceutical and food industries.

Available for use with;

Hinged doors
Single swing action

- Lock System Standard : Mortise Lock
- Pivot/Hinge SS Butt Hinge :
- Door Closer
- Other Hardware:
- Kick Plate (Optional)
- Concealed Flush Bolt (Double Leaf Door)
- Drop Seal
- Door Bumpers
- Door Stopper
- MOC : PPGI /Stainless Steel
- Finish : Powder Coating / SS

Double Swing Action Sliding Doors

Specifications:

- Frame Sheet Thickness : 1.2mm
- Leaf Sheet Thickness : 0.8mm
- Infill : Honeycomb Kraft Paper
- Glass : Double Glazed Glass 5mm Thick



Sliding Doors

The medical automatic & manual door is a door that is generally installed in the operating room or the ICU ward for the medical staff to push in and out of the hospital bed. The medical automatic door has the function of inductive opening and safety anti-pinch. The medical staff's only needs to extend the foot into the light control foot sensing box next to the entrance, and the door will automatically close. Door panel inside filled polyurethane foam with technology overall high-pressure, high-strength aluminium alloy frame, the automatic lifting large platform hydraulic pressing equipment.

After a period of time, the door will automatically close after the cart and medical staffs have fully entered. If someone or a cart is next to the door leaf, the door will not close to provide a safe anti-pinch. In addition, the door frame of the medical automatic door is made of sealed profile, which has the characteristics of high air tightness; the light control foot sensing is adopted for the entrance and exit, so that the medical staff can open the door [without contact], which can effectively isolate the bacteria and personnel.



Door Sliding Modes	Single-opening	Double-opening
Door Leaf Weight	<*195 Kg	<*185 Kg
Door Leaf Width	600-1200mm	500-1150mm
Opening Speed	150-500mm/s (adjustable)	150-450mm/s (adjustable)
Closing Speed	100-450mm/s (adjustable)	150-430mm/s (adjustable)
Motor	24v 100w Brushless Dc Motor	
Opening Time	0-9s(adjustable)	
Automatic Function	Automatically Reverse Upon Obstruction	
Voltage	Ac220v 50hz-60hz	
Operating Ambient Temp.	-20°C~60°C	

SS Scrub Sink (1 way, 2 way, 3 way)

The primary goal of SS OT sink is to protect patients by preventing contamination in the surroundings. It also aims to keep transient bacteria and detritus from spreading from the hands and forearms. Grade and excellence are assured with the premium quality of hospital scrub sink in India, and much focus is placed on the quality of the materials used in their manufacture.

They serve as the scrub station for surgeons and other OR staff to scrub their hands and arms before a surgical or invasive procedure. By performing a surgical hand scrub before surgery, surgeons and surgical staff take the necessary precautions to mitigate transient and resident flora, which may reduce the risk of Healthcare Associated Infections (HAIs).

Water Control - Water controls on scrub sinks may be operated by hand or with a hands-free feature like a knee operated panel, foot pump, or infrared sensor.

Digital Timer - A digital timer is used to ensure that the proper amount of time is spent on hand hygiene before entering the operating room. Timers count down from a pre-determined start to prevent scrubbing in for less than the desired length of time.

Soap Dispenser - Proper dose of surgical scrub chemistry is also very important when selecting a scrub sink. Soap is typically dispensed by a hand pump, foot pump, knee operation, or infrared methods.

Station/Bay - Scrub sinks may be constructed with one, two, or three stations at which multiple members of the OR staff can wash their hands at the same time.



Product Details:

Brand	A3G India
Usage/Application	Hospital
Dimension	As per customer requirement
Tap Operated By	Automatic/Manual
Color	Silver
Material	Stainless Steel



Pressure Release Damper

A pressure relief damper is a backdraft damper that has an adjustable start-open pressure capable of maintaining a



relatively constant pressure at various airflows and closes upon a decrease in differential pressure. Pressure relief dampers do not immediately open fully upon reaching their start-open pressure.

Dampers maintain tight leakage to approximately 60% of the start-open pressure and have a relatively flat flow control, somewhat above the start-open pressure. Counterbalance weights are mounted externally for easy adjustment and balancing in the field. This backdraft damper is designed to handle velocities up to 6400 ft/min. (32.5 m/s).



Writing Board

Operating List Writing Board is a necessary product in OT and nursing rooms. This list board works as an instructor to guide surgeons step by step for the entire procedure to avoid mistakes. These boards are known for improving the operation performance and reducing the chances of mistakes during a major operation in a shorter time period. There are several operating list board manufacturers available in the market, but the modular healthcare system is the best operating list board manufacturer and suppliers.



X-ray Board

The 2-plate X-Ray viewing screen will meet electrical safety codes for high & low voltage system. It will be designed to provide flicker free luminance for the film viewing purpose. It will be installed flushed with the theatre wall for hygienic and ease of cleaning purpose. The X-Ray viewing screen will be designed for the purpose of front access.

The X-Ray viewing screen will be illuminated by 4 pieces of high frequency fluorescent lamps and the dimming is controlled by the usage of dimming ballast with the PCB that is mounted inside the box



Control Panel

Surgeon Control Panel has been designed to cope with technology and equipment in operating environment. It is designed to be user friendly and ease of operating & maintaining purpose. Control panel comprising of following. User can choose any of the services as per their requirements.

1. Daytime digital clock Elapsed
2. Time digital clock
3. Temperature And humidity Indicator
4. Peripheral light controller
5. Medical gas alarm (Hi/Low/Normal)
6. LCD Hands free telephone



Laminar Air Flow

Ceiling Mounted Laminar Flow makes an integral application in Operation Theatres. Hospitals search for top quality Ceiling Mounted Laminar Flows to ensure ultra clean sterile HEPA filtered Class 100 first air into OTs where highly sensitive activities take place

Features of Modular Healthcare System's Ceiling Mounted Laminar Flow:

- The best quality raw material
- Advanced manufacturing technology
- Perfect sterilization of air
- Equipped with HEPA filters with different performances
- Factory assembled for easy installation
- Simple fixation system
- Availability of ceilings in various shapes
- Filter frames made from stainless steel
- Uniform and constant air distribution



Peripheral Lights

Peripheral light: Recess mounted IP54 Protocol, non-hygroscopic peripheral lights having compact fluorescent lamp and LED Lights. We are offering comprehensive range of Sealed Clean Room Light. Our production process is executed out under the guidance of highly skilled and well trained experts. Their vast industrial experience and extensive knowledge enable us to offer optimum range of products

Features:

- Easy installation
- High brightness
- Long working life



OT Pendants:

Our multipurpose OT Pendants are designed to provide convenient positioning of medical equipment, gas and other instruments. The flexibility for the movement of head end axis allows the user to choose optimum height and position. Arms and shelf's can be easily cleaned in order to minimize possible contamination. We offer OT Pendants in different models with option for single and double arms.

Our OT Pendants provides a platform for surgical and monitoring equipment for medical staff operative theatre. Our pendant is designed to produce suited positioning of medical equipment, gas and other instruments. They supply all necessary services and equipment needed operative Theatre and Delivery Rooms for anaesthesia and surgical purposes.

Type of Pendant:

- Single arm surgical pendant
- Double arm surgical pendant
- Fixed Surgical pendant
- Fixed Laparoscopic pendant
- Single ARM Laparoscopic pendant
- Double ARM Laparoscopic pendant
- Modular Electric Single ARM Pendant



Gas Alarm System

We are engaged in offering a high quality of Medical Gas Alarm System - Analog Display Type. With monitoring gas flow totally and partly, its system that monitors to take prompt action of unexpected situation with ringing a bell abnormal at a special area. It installs at each floor of corridor and nurse call station of important departments like ER, ICU, and OR and monitors and abnormal pressure and so on.



Medical Alarm System

Available for single line or 3 line - for oxygen air suction nitrous vacuum.
Very precise and compatible for hospital services,

OT Examination Light

The all new Hospedia LED Elite 19 examination light comes with an excellent illuminance of 60,000 lux and promises to deliver the highest lighting performance and colour

A large operating illuminated area makes it extremely easy for the practitioners to analyse the large areas of tissue and makes it easier for them to target the examination light on the patient.



Zonal Valve Box

Zone Valve Boxes are mainly used in medical pipelines to allow maintenance of individual zones without disturbing the gas flow to other zones. In case of emergencies, zone valve boxes can also be used to shutoff of gas distribution to individual zones. A single box can hold from 1 to 6 valves, allowing control of 6 types of gas. All boxes are factory-assembled with the smallest valve on top, largest on bottom.



Hospital Curtain Track

The hospital curtains and tracks can be mounted either on the wall or on to the ceiling. The Load Release System is our answer to the health care sector's need to have cubicle curtain track and regular curtains rails released under certain conditions. This unique, patented solution allows the rail to be released from its attachment points under momentary loads of approximately 35kg. The rails can then be easily reinstalled without tools.



Cleanroom Hardware:



PVC Coving R 50 & R 100 MM



PVC 3D Corner



Aluminium covings R 65



Aluminium 2 D Corner



Aluminium 3D Corner



Aluminium T Profile



Aluminium U Chanel



Aluminium L Chanel

Aluminium Outer Coving

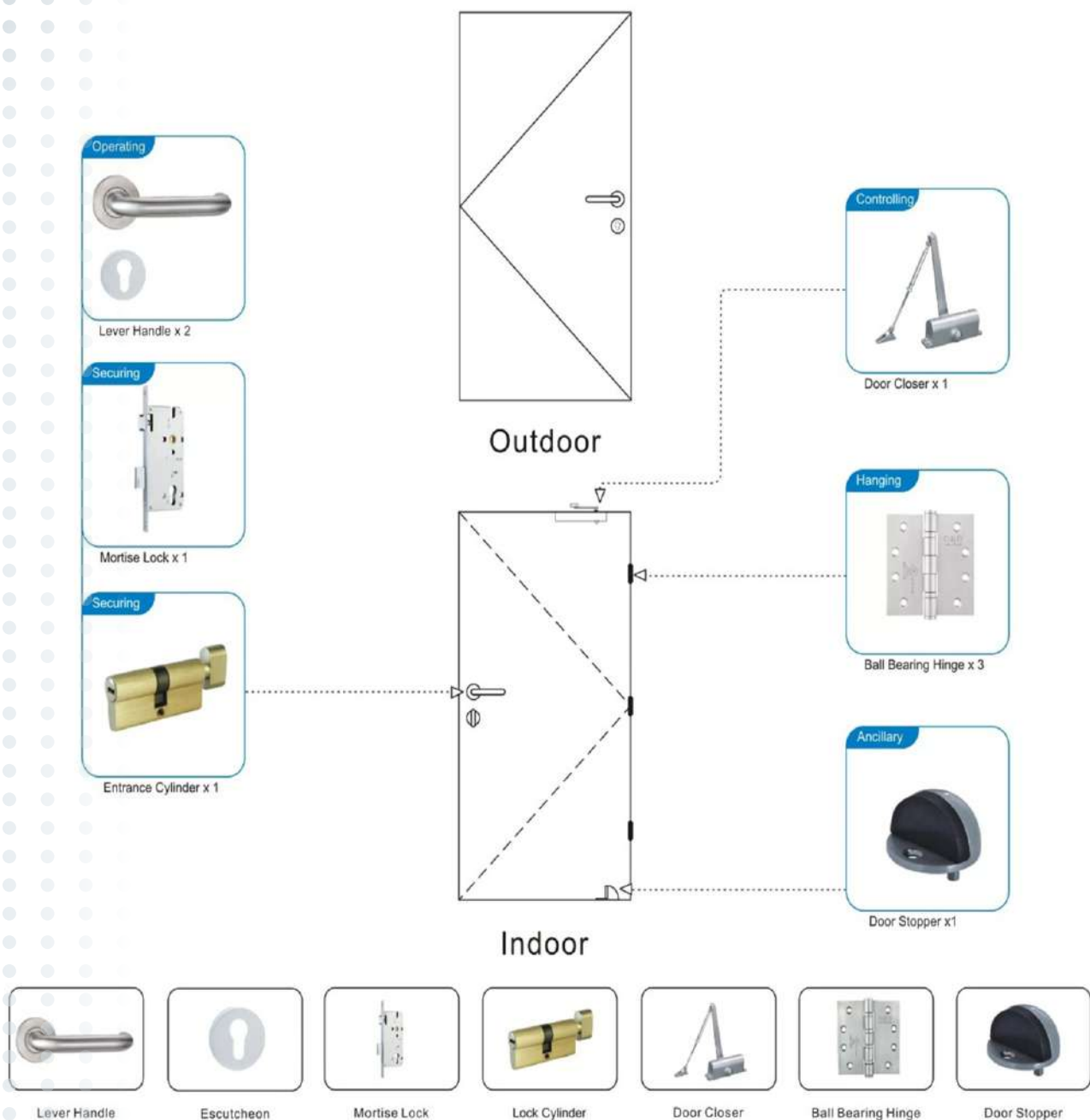


Aluminium Outer Corner



Aluminium Clamp

Cleanroom Door Hardware:



We are also having a dedicated in-house team for handling cleanroom projects for Pharmaceutical, Chemical Plant, Cosmetics Plant, Hospital Setups, Surgical Equipment Plants etc. We are defining herewith our scope of work;

1. Supply & Installation of Cleanroom Modular Partitions
2. Manufacturing, Supply & Installation of Cleanroom Doors
3. Supply & Installation of Air Handling Units
4. Supply & Installation of AHU Ducting
5. Epoxy Flooring
6. Cable Lying & Electrical wiring
7. Control panels
8. Air compressors
9. Manufacturing, Supply & Installation of Door Interlocking
10. Manufacturing, Supply & Installation of Cleanroom Equipment

OUR CLIENTS





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