



**Static and Dynamic Pass Box**

**DYNAMIC PASS BOX**

Dynamic Pass Box Works like an airlock or Laminar Air Flow unit. Clean air enters in the pass box and prevents the entrance of the contamination.

**STATIC PASS BOX**

Pass boxes are used to transfer material for blending, granulation or sterilization in the manufacturing area and sterilization & incubation in the microbiology laboratory. In some cases, equipment parts are also transferred through the pass boxes in sterile manufacturing areas.

**TECHNICAL SPECIFICATIONS**

Sr No.	Model	STD-DPB	STD-SPB
1	Design type	Dynamic	Static / Passive
2	Cleanliness level	Class 100	-
3	Internal Dimension	As per Client Requirement	As per Client Requirement
4	MOC	Stainless steel 304	Stainless steel 304
5	Illumination	LED tube light	LED tube light
6	Air system	Motor-blower with suspension arrangement or EC blower	-
7	Filters	* Pre filter (95% down to 5 micron) * HEPA filter (99.97%) * Protected by SS grills	-
8	Door	* Two side doors / 3 side door * Glass window * SS handles & SS hinges. * Electromagnetic Interlocking system	* Two side doors * Glass window * SS handles & SS hinges. * Electromagnetic Interlocking system
9	Standard Fittings	* UV light * Light indicators for door * SS Handles & SS hinges * On / Off Switch for blower	* UV light * Light indicators for door * SS Handles & SS hinges
10	Power supply	220 Volts / 50 Hz	220 Volts / 50 Hz
11	Optional	* MOC SS 316 / 316 L * Differential Pressure Gauge * DOP Test Port * Flange * Test certificates * Calibration certificate * Mechanical door interlocking * Door buzzer * UV light hour meter	* MOC SS 316 / 316 L * Flange * Test certificates * Mechanical door interlocking * Door buzzer * UV light hour meter

# Who We Are

## About Us

Pratham Aircon is an Indian company established in 2016 which is headquartered in Thane District of Maharashtra, excellent products for HVAC Industry.

Pratham Aircon provides you the complete solution, utilizing latest technologies and software to deliver superior Air Side Products Viz Air Handling Units, Evaporative Cooling Systems, Scrubbers, TFA units, Heat recovery units and various Clean Room Products Viz Modular Wall panels, Modular Doors, Reverse Laminar Air Flows, Static and Dynamic Pass Boxes etc

## Contact Us

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**Air Shower**

## AIR SHOWER

Air Showers are installed between change areas and classified rooms or between lower and higher-grade classification rooms in cleanrooms and controlled environments.

- Available in one person, two person or 4-person configuration.
- 100% recirculatory. Air is discharged via high velocity discharge nozzles and recirculated at low level back to the fan and filter section within the shower.
- Internal LED Lighting providing illumination of 500 Lux.
- Interlocked doors with emergency override
- HEPA filtration with 99.997% efficiency at 0.5 micron
- Dedicated PLC controller with adjustable timer function.
- Available connection to client Fire Alarm and BMS
- Easy to replace G4 pre-filters and H14 HEPA filters
- Emergency Stop button installed and connection available for alarm sounder/beacon.

# PRATHAM AIRCON

Persistence, Precision & Perfection

## Pharmaceutical

## SS

## Equipment



**Laminar Airflow (LAF)**

### Laminar Airflow (LAF)

Laminar Flow Cabinets create particle-free working environments by projecting air through a filtration system and exhausting it across a work surface in a laminar or uni-directional air stream. They provide an excellent clean air environment for a number of laboratory requirements.

- Vertical Laminar Flow Cabinets
- Horizontal Laminar Flow Cabinets
- Laminar Flow Cabinets and Hoods
- Laminar Flow Benches and Booths

### General Specifications

- Triple Stage filtration
- EU4 -Prefilters (90% down to 10 micron)
- EU7 - Intermediate Filter (95% down to 3 micron)
- EU14 - HEPA Filter - Supply / Exhaust (99.999% down to 0.3 micron)
- Statically & Dynamically balanced Motor-blower with suspension or EC fan arrangement to reduce noise level.
- Double skin puff filled side panels.
- Horizontal internal Covings at base
- Fluorescent Lights with Milky White Diffuser
- Differential Pressure Gauges: 3 Nos
- ON/OFF Switches
- Clean Down Timer with Operation HOLD indicator
- DOP Test Port 5/15 Amp Switch Socket for external equipment

### Clean Room Partition Panels

Pratham Aircon modular cleanroom walls are a composite construction of two skins of GI Pre-Painted or Powder Coated over an aluminum/GI framework with a PUF insulated (Density 40±2 kg/m<sup>3</sup>). Standard modular clean room panel dimensions are 1200 mm wide with an overall length ranging up to 4 mt. Standard modular clean room walls panels have an overall thickness of 50 mm, 80 mm and 100 mm.

### Technical Specification

- MOC-PPGI/PCGI.
- Normal panels Dimensions-1200mm width and 3000mm height.
- Panel's thickness – 50 mm to 100 mm.
- Infill - PUFF of 40±2 Kg / m<sup>3</sup> density.
- Joining systems – panels shall be joined by GI/Aluminum connecting profiles system to insure structural rigidity and proper panel to panel alignment.
- Wall base runners – panels shall sit in a minimum 20-gauge galvanized steel track anchored to the floor required.
- Ceiling panel hanging arrangements – fixed from concrete ceiling or structural MS Grid.
- Coving and 3-way corners systems – Aluminum / PVC.
- Sealing systems – Silicon sealant / food grade sealant.
- Clean room window - our standard clean room window is with safety glass wrapped in anodized aluminum / PPGI / PCGI frames and radius corners. These are premanufactured in our modular wall panels before arriving to sites custom clean room windows sizes, colours and materials are available upon request.



**Clean Room**

### CLEAN ROOM DOORS

Pratham Aircon clean room doors plays an essential role in preventing cross contamination as well as maintaining correct room pressure, air circulation rates and ensuring optimum operating efficiency.

### Technical Specification

- Construction – 40 mm to 80 mm thick metal frame.
- Surface – Powder coated ACC to RAL or smoothed stainless steel.
- Options – Single leaf & double leaf.
- Door Accessories = The specification will be as per customer requirement .

### Our Other Product

1. Hepa Box and OT Plenum
2. Cross Bench
3. Sterile Garment Cabinet
4. SS Table
5. Return Air Riser