

# AIR SHOWER



MODEL NO. - ACM-42104- L

# Air Shower

We are manufacturers of air showers in India since 1990. Our air showers/Clean Room Air Showers have a wide usage in all the clean rooms and various microbiology, biochemistry, bio technology and genetic engineering laboratories.

Our clean room air showers help solve the problem of de-contamination from personnel entering into the clean rooms. We specialize in standard air showers and customized clean room air showers, specially designed to meet the



challenging demands of various basic and applied science laboratories. Over a short period of time we have been established as a reliable air shower exporters in India, catering to the vast markets in South East Asia, Middle East, Africa and Europe. Apart from that we are also supplying our clean room air shower to a variety of customers in India ranging from Defense installations, research laboratories, educational institutes and various R & D laboratories of leading national and multi national companies.

## PRODUCT OVERVIEW

Our air shower is a fully self contained unit with high degree of maneuverability. They are fully equipped to provide complete de-contamination solutions to the clean room or manufacturing/assembly area from personnel entering the space. The ease of operation of our air shower is such that, one just needs to roll it at the door of the clean room, plug in and it is ready to be used.

Our air showers are closed cubicles and work on the principle of subjecting the personnel through adequate velocity of clean air coming through a pre filter assembly comprising of poly



fiber synthetic media of approximately 1” thickness (washable). And then the same air is passed through a high efficiency perfect air filter made from glass pleated non woven filter media having a minimum efficiency of 99.99% at 0.3 micron particle size.

The normal face velocity of air coming through different jets of the air shower have a thorough cleaning effect and dislodges the suspended/stuck particles lying on the surface of the garment/body of the personnel entering the air shower and thus making him/her virtually free from the particulate matter.

## APPLICATIONS

- Clean Room
- Pharma Production
- Micro-Electronic Fabrications and Production Units
- Semi-Conductor Production Lines

## CONSTRUCTION

Our air showers are constructed out of heavy industrial grade wooden mica clad wooden boards or stainless steel sheets of grade ss-304/ss-316. The internal cubicle of air showers are plastic laminated and attractively finished. The unit is provided with blower access panel at the side of the shower. The two doors provided on the either side of the air shower are inter locked and operate on magnetic system.

The compartment access panels are hinged and made of coated aluminum. The doors are made of aluminum panel and have clear view glass/acrylic windows.

The HEPA filter and pre-filter assembly is mounted on the top of the air shower. The unit is controlled through a programmable solid state circuit control system, located at the junction box of the unit. This control unit facilitates the user to adjust the air nozzles and operation time. The operation timer of the air shower can be adjusted from 0-9,990 seconds,



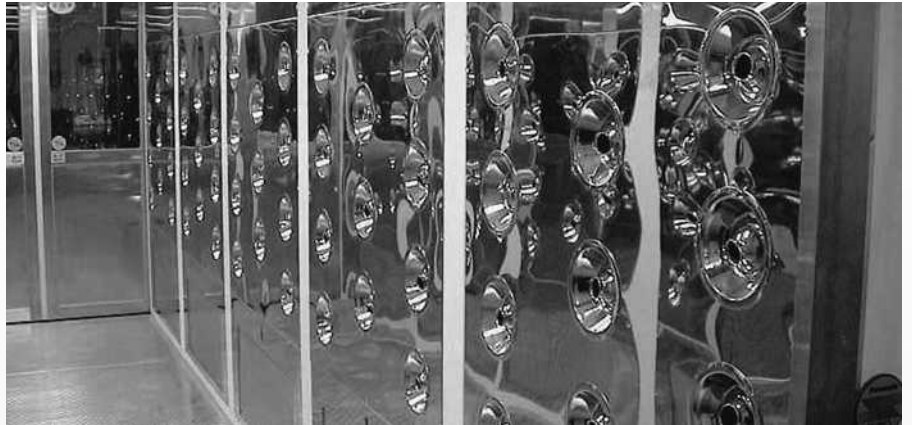
depending on various standard and customized requirements.

The junction box is a tamper proof enclosure that ensures that the pre-set range or value is maintained. It is also provided with an emergency setting button to switch off the unit with audio visual alarm. The sequential operation of our air shower is operated through floor matting operated switch. Our air shower has adequate lighting arrangement and ensures a minimum illumination level of 800 Lux.

## CONSTRUCTION

### Filter Assembly

All our air shower are fitted with fully washable synthetic pre-filter units and secondary high efficiency perfect air filters made of mini pleated non woven



fabric. The efficiency of our filters has a rating better than 99.99% at DOP (cold) and 99.97% at DOP (Hot). Our units have the capacity to hold all suspended particles of size greater Than 0.3 micron.

### Motor And Blower Assembly

All our air shower are provided with perfectly balanced (Static as well as dynamic) motor and blower motors bearing ISI mark. The rating of the assembly is 1/5 HP. Our high efficiency pumps which have life long lubricated bearings ensure a trouble free operation for a long time.

## APPLICATIONS

- Our air shower are designed to ensure that the work enclosure have minimum possible vibration levels and noise level is also contained below 60 db.
- Ergonomic Design
- Versatile Usage

- Low Noise And Vibration Levels
- Conforms to US Federal Standards
- Calibration And Protocol Documentation
- Programmable operation

## TECHNICAL MATRIX

Constructions	Industrial grade mica clad wooden board/Stainless Steel
Face velocity	6000 ft/min + 20 feet
Operation Time (Adjustable)	0-9,990 seconds
Pre Filter	Washable pre-filter unit (Non Woven-Synthetic Polyester)
HEPA Filters	Glass pleated non woven fabric filter having 99.99% efficiency 0.3 micron particlesize.
Air Flow	Multi Directional
Air Flow Control	Solid State Control Unit
Blower Assembly	Centrifugal lubricated bearing type ISI marked assembly
Illumination	Fluorescent light illumination greater than 800 lux on work table
Noise level	Noise level less than 60 db
<b>Add on features</b>	Sequential feature operation by door mat magnetic switch.
Power Requirements	500 watts – 950 watts (Model Specific)
Internal Work Space	1 meter x 1 meter x 2 meter
Nominal voltage	220-230 Volts, 50 Hz Single Phase
Frequency	50 / 60



An ISO 9001 : 2208 | ISO 14001 : 2008 | ISO 13485  
WHO: GMP Products | GLP Compliant Products

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