



CLEAN ROOM & HVAC SOLUTION
(Design / Manufacturing / Service)



AIR SHOWER UNIT / TUNNEL

An Air Shower Unit is a specialized enclosure designed to remove surface particles from personnel and equipment before entering a cleanroom or controlled environment. By emitting high-velocity, HEPA-filtered air jets from multiple nozzles, it effectively dislodges and removes contaminants from clothing and surfaces, reducing the risk of introducing particles into the clean environment. These units are crucial in industries such as semiconductor manufacturing, pharmaceuticals, and biotechnology, where maintaining cleanliness standards is paramount. Air Shower Units enhance contamination control protocols, ensuring the integrity of sensitive processes and products.

Key Features

- Shower Operation with No-Touch Display for Entry & Exit both
- If Air Shower MOC is in SS304 / 316 Material – Corner Section is in same Material
- Easy Installation and Maintenance
- Tailor-made configurations to meet client specifications.
- Ensures a clean environment for personnel and equipment.
- Air Shower bottom with double skinned PUF Filled with Chequered plate.

Unlike conventional air showers which are delivered with a fixed operating sequence, the Breath Air Cleanroom Air Shower's operating sequence may be selected from three pre-programmed sequences: One-Way, Two-Way One-Way (Middle Illustration), Two-Way (Right Illustration)

Application

- Micro electronics
- Semiconductors
- Pharmaceutical
- Spray painting
- Laboratory animal research
- food markets



Design	Standard & Customized
MOC	Main Structure Aluminum PUF Insulated, Inner / Outer Sheet – GI / SS 304
Blower Assembly	Dynamically & Statically Balanced Blower (Plug Type or Belt Driven Type) & Motor
Nozzles	SS 304 Flexible Type Jet Nozzles
Velocity @ Nozzles	15 ± 5 m/s (Uniformity of air velocity distribution within the air shower)
Standard Fitting	FL Light inside the Working Area, Emergency Button Inside the Air Shower, Interlocking System, Overload Protection by Thermal Relay, Shower Duration by Electronic Timer, Power Failure – All Doors are unlocked
Filters	Supply Air Through – HEPA Filters – 0.3 micron Return Air Through – Pre Filters – 10 /5 micron



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