

Aeromech make Air Showers are enclosures specifically designed for removing surface particles from personnel or materials prior to entering a cleanroom work area. They are typically installed between the change room area and the cleanroom and are used for demanding applications in the pharmaceutical, semiconductor, animal research and food processing markets

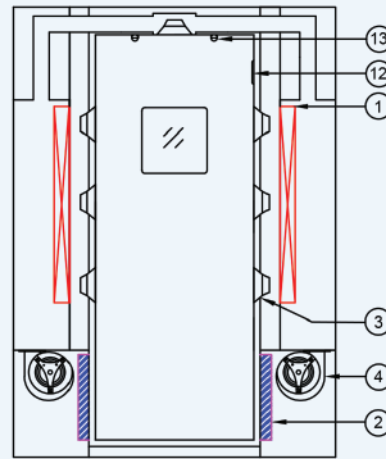
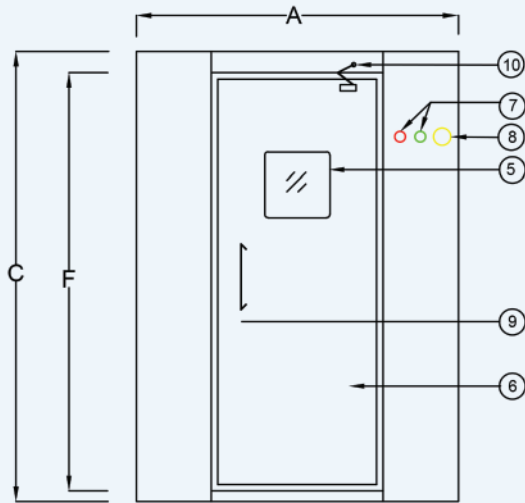
The Air Shower is a high velocity, low pressure type system, providing a normal entrance to and exit from a contamination controlled area. Air showers supply concentrated HEPA filtered air in high velocity jets that lift off contamination while an individual stands in, or walks through, the specially constructed air chamber. When the unit is activated, pressurised filtered air streams from adjustable nozzles at a velocity between 22 and 26 m/sec ensuring efficient scrubbing action necessary to remove particulate matter



Nozzles are arranged on walls and ceilings in a uniform pattern to ensure effective distribution of filtered air. The closed loop circulation design directs contaminated air downward through grills and hollow walls of the air shower and back to the filter, which removes 99.99% of all particles down to 0.3 microns. Interlocking doors prevent unnecessary contamination inflow and thereby prevent cross-contamination of the cleanroom and the air shower. A power failure safety feature automatically releases the doors in the event of a power failure to ensure operator safety. Fluorescent lighting built into the ceiling to allow unimpeded air circulation and ensures full visibility no matter what configuration or design is selected. In addition, an emergency stop button is supplied on each air shower with an optional audible alarm which releases the door lock for exiting

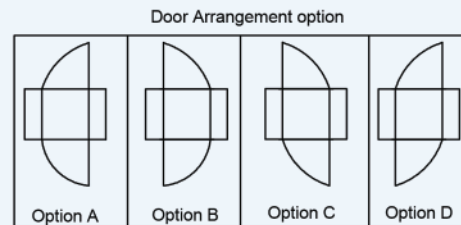
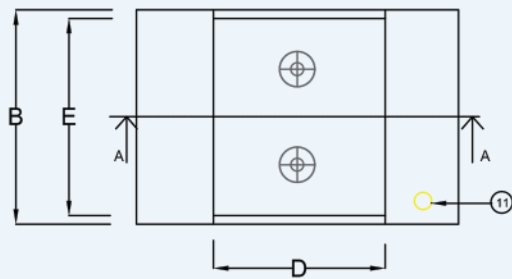
Features

- Main body construction: heavy gauge steel or 304SS with 304SS floor to minimise particle generation.
- Optional powder coating to a range of colours to suit customer specifications.
- Double Door model allows movement of carts and large equipment into cleanroom area.
- Emergency Stop button
- Power failure safety function
- Interior fluorescent lighting and flush mounted windows
- Programmable microprocessor control, and timer with LED display
- Running & clean mode indicators fitted on front & rear doors
- Optional timer, which deactivates interlock system 5 seconds after air shower clean mode has finished.
- Optional audio system & Touch Panel Systems
- Custom sizes are readily available



- ENGINEERING DETAIL**
- 1) SUPPLY HEPA FILTER
 - 2) PRE FILTER
 - 3) AIR NOZZLE
 - 4) BLOWER
 - 5) VIEW PANEL IN DOOR
 - 6) DOOR
 - 7) ON/OFF INDICATOR SWITCH
 - 8) EMERGENCY SWITCH
 - 9) DOOR HANDLE
 - 10) DOOR CLOSER
 - 11) INCOMING POWER SUPPLY CABLE INLET
 - 12) DISPLAY BOARD
 - 13) TUBE LIGHT

Section AA



AIRSHOWER

Model No	AAS 1000 X*	AAS 2000 X*	AAS 3000 X*
Internal Size in mm	L 900 x D 900 x H 1950	L 900 x D 1950 x H 1950	L 900 x D 2950 x H 1950
External Size in mm	L 1600 x D 1000x H 2100	L 900 x D 2000 x H 2100	L 900 x D 3000 x H 2100
Airchange rate	300 ACPH	300 ACPH	300 ACPH
Air Velocity	20-22 m/sec	20-22 m/sec	20-22 m/sec
Shower Duration	20 sec (adjustable)	20 sec (adjustable)	20 sec (adjustable)
Person per Cycle	1 -2 Person	3-4 Person	5-6 person
No of Nozzle	14 Nos	28 Nos	42 Nos
Filtration efficiency	Mini Pleat HEPA Filter efficiency 99.99% down to 0.3micron		
Pre Filter	Non-Woven media 90% efficiency down to 10 micron		
Main Cabinet	1.2mm Galvanised Iron epoxy power coated finish / IS 304 Stainless Steel with satin finish		
Flooring	2mm Galvanized Iron Epoxy Powder Coated finish/ IS 304 Stainless Steel with satin finish		
Door	Double Skin GI or SS Panel with sandwich Panel Door with Swing Arrangement		
Motor Blower	2 x 1000 Watts	4 x 1000 Watts	6 x 1000 Watts
Lighting	1 x 20 watts	2 x 20 watts	3 x 20 watts
Electrical	415 Volts,3 Phase, 50 Hz	415 Volts,3 Phase, 50 Hz	415 Volts,3 Phase, 50 Hz
G - Galvanized Iron Sheet & S - IS 304 Grade Stainless Steel			

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