



DUST REMOVAL SYSTEM



AirSHOWER

Clean Room
Dust Removal Shower



DASITGROUP



PROTECTION, SAFETY, RELIABILITY.
AND MORE.

AirSHOWER

Clean Room
Dust Removal System


*Air Shower
Deduster solution
for Clean Room*

In a nutshell...

TECHNICAL SPECIFICATION

- ✓ **CONSTRUCTION:** Full body of the Air Shower manufactured in AISI 304L stainless steel with Scotch Brite pharmaceutical-grade finishing. Doors are manufactured in stratified safety glass of 8 mm thickness flush mounted within the body of the unit (without any unsightly aluminium frames), installed one in front of the other or square mounted; interlocked electromagnetic automatic release system allows the opening at the end of each dedusting cycle. Handle bars are made in stainless steel.
- ✓ **VENTILATION** is provided by double inlet centrifugal electrical fan with nominal air flow rate of 2.400 m³/h - at an operational pressure of 1.600 Pa.
- ✓ **FILTRATION:**
1° bank – Class H14 high pressure drop HEPA filter according to CEN EN 1822,
2° bank – Class G3 coarse particulate pre-filtration.
Access for filters replacement is from the inspection panel mounted on top of the unit. Pre-filter panels are fitted with quick-release system (no screws needed for removal of the panel).
- ✓ **PRESSURE CONTROL** is provided by means of analogic Dwyer manometer to check the differential pressure on the filter face.
- ✓ **AIR NOZZLE:** The air is blown into the transfer chamber by means of adjustable air-nozzles made in aluminium with internal damper to regulate the air flow outlet. Air flow speed is manually adjustable within a range between 20 to 30 m/s.
- ✓ **HALF SPEED:** Air flow speed reduction starts automatically at the end of each cycle.

OPTIONS AVAILABLE

- ✓ Construction fully made in AISI 316L stainless steel
- ✓ ATEX Version 
- ✓ Automatic entry controls (badges, cards, codes etc.)
- ✓ Elevated footboard
- ✓ Sliding doors
- ✓ Air ionizer
- ✓ Intercom ports
- ✓ Visual and LED alarms

DIMENSIONS AVAILABLE (useful internal width x depth)

- ✓ **Singol Shower:** 700x700 mm
- ✓ **Double Shower:** 1500x700 mm

Custom dimensions are always available upon request.



Faster AirSHOWERS are devices used in clean room areas such as *micro-electronic, semiconductor, spray-painting, pharmaceutical and food market* to remove dusts from the outer surfaces of operators' garment and clothing prior to enter into clean and dust free environments.

This thorough dust-removal effect is achieved by means of special aluminium adjustable air-nozzles blowing filtered clean air at very high speed (exceeding 25 m/s) onto the garments in the transfer chambers. This action will cause detachment of dusts, powders and other particulate contaminants from the garments as a result of the air blown from different directions, including from the top. The air is pulled downwards and re-circulated via G3 pre-filter grids by virtue of the slight negative pressure kept inside the transfer chamber in comparison to the surrounding environment. The air is channelled through G3 pre-filters and high efficiency HEPA filter and blown into the chamber. The resulting clean air inside the unit is in Class ISO 5 quality according to ISO 14644-1 Standard.



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Striving everyday to improve our environmental performance, Faster developed environmental procedures are founded on three guiding principles:
Protect the Environment for present and future generations - manufacturing low energy consumption equipments
Reduce risks and improve efficiencies
Introduce improved technology and processes