



OUDELONG®

Air Shower



Data Sheet



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Air Shower

OUDELONG provide installation, servicing, technical advice, product selection and demonstrations for clean controlled environments with **Innovation, Design and Quality** at the heart.

OUDELONG manufacture high quality clean room, high containment and material decontamination products. When you need areas and staff to be contamination free and protected from pathogens, you need dependable equipment which will maintain critical biosafety levels, achieve sterility and protect data reliability.

Complying with local and global regulations OUELONG's products can be designed to meet your specific requirements. Over 10 years knowledge and competence within the specialist sectors, always going through extensive research and development and offering accurate assistance during project planning to consultants, architects and end users to deliver successful projects.



Innovation

Incorporating your requirements to create product ranges to exceed expectations



Design

Leading the way with pioneering design, ensuring customer requirements are achieved



Quality

Delivering high quality products for over 10 years, with rigorous testing and inspection

A leading one-stop supplier of cleanroom--OUDELONG

The search for innovative design, an eye for detail and advanced manufacturing techniques has seen PBSC gain a deserved reputation as the premier supplier within cleanroom environments.

Supporting the customer throughout the process continuing to meet the growing challenges and striving for continual improvement with our ISO 9001 QA processes independently audited and updated on a regular basis.





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Air Shower

Introduction

[Features and benefits](#)

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Double doors are a pair of single leaf doors that cannot be opened at the same time, so that the air shower room acts as an airlock at the same time. The door frames are stainless steel to fully ensure the durability and cleanliness of the air shower. The door frame has a magnetic electronic contact seal for opening the door and LED lighting panels on both sides. The fully glass door is made of 8 mm thick tempered safety glass fixed on three hinges and is equipped with an automatic door seal and self-cleaning mechanism. Clear with 800 mm, door height 1880 mm. The available types of doors are electrically operated double swing doors, roller shutter doors.

LED lighting uses LED light tubes with aluminum and optional liquid crystal display to indicate status. There can be replaced from the side of the door when the side door is opened. A pre-filter is installed at the return air outlet, and the main filter is protected by a magnetically mounted

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Adjustable door closer It is a hydraulic device like a spring on the door head. When the air shower room door is opened, it can close the door automatically by compression and release, ensuring the normal operation of the air shower room.

Microcomputer Controller intelligent voice warning LED display screen It can automatically control functions like interlocking and unlocking of inner and outer doors, lighting control, human body induction, and fan starting. It also has adjustable wind - shower time, voice prompts, and is very user - friendly.

Flowrate maximum internal diameter is 25 mm, through which air is blown at a mean wind velocity of 25 m/s towards a person standing in the centre of the cabinet. Therefore can be customized to be installed on top of the air shower.

Stainless Steel made of high - quality stainless steel, is durable and has a smooth surface. It is not only practical but also adds a touch of modernity to the door.

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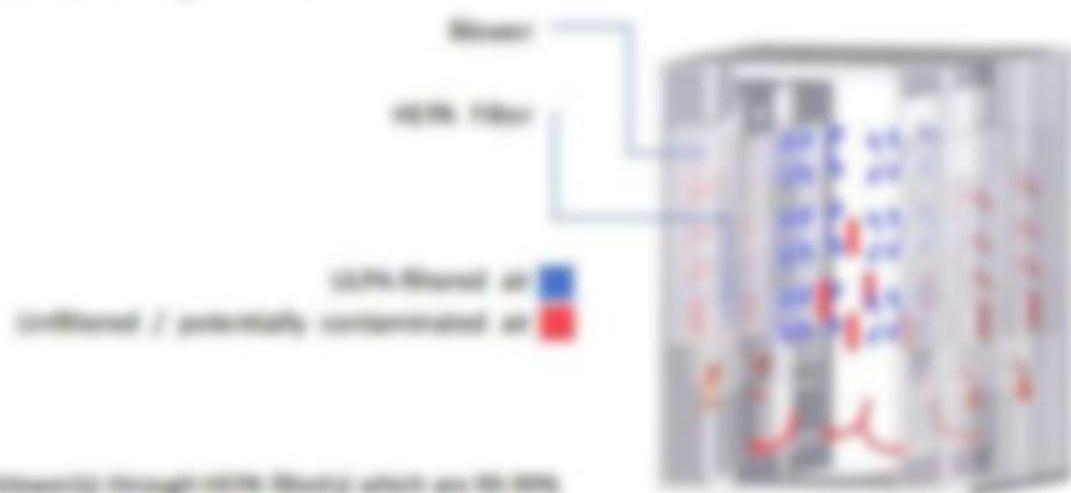
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Air Shower Filtration System



- Air is forced by the blowers through HEPA filters which are 99.99% efficient against particles of 0.3 microns.
- Filtered air is sprayed through nozzles at high velocities into the chamber. These turbulent air streams disperse particulate matter on all surfaces.
- Dispersed particulate matter migrates with the air stream towards the lower area in the air shower chamber. As within the blower supply stream through an HEPA filter located at the base of the chamber.
- The air is continuously filtered and recirculated within the chamber and does not exchange air with the environment it is placed in.

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One Way

Personnel may enter the controlled environment but not exit through the air shower. At the exit side, the door side door is locked while the entry side is unlocked. This mode of operation is useful for controlling traffic patterns into and out of the controlled environment.

Two Way One Way

Personnel may enter or exit the controlled environment through the air shower. When entering the controlled environment the shower is activated, when exiting the shower is disabled to reduce throughput time. The air shower program is able to detect if the person is entering or exiting the controlled environment via door sensors and a time sequenced control.

Two Way

Personnel may enter or exit the controlled environment through the air shower. In both directions the air shower is activated. This mode of operation is useful in pharmaceutical and lab animal research applications to prevent the spread of hazardous substances and allergens from the controlled environment.



Typical Configurations



Single Turn Pattern



Right Turn Pattern



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180 Turn Pattern

Left Turn Pattern

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