



OUDELONG®

Cargo Air Shower



Data Sheet



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Cargo Air Shower

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

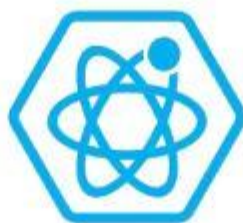
OUDELONG manufacture high quality clean room, high containment and material decontamination products. When you need areas and staff to be contamination free and protected from pathogens, you need dependable equipment which will maintain critical biosafety levels, achieve sterility and protect data reliability.

Complying with local and global regulations OUDELONG'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.





Study objectives

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Age Group	Should Do More (%)	Should Not (%)
18-29	68	32
30-49	62	38
50-69	60	40
70+	55	45

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100

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1. Cleanroom are low level ceiling clean. The clean body consists of an industrial base with a polypropylene fabric or a fully transparent PVC wall system. It has numerous advantages, such as good heat preservation, cold preservation, heat protection, wind protection, dust protection, sound insulation, fire protection, oil-proof protection, etc., and is also able to adapt light. It can quickly isolate the air stream and the working area, thus ensuring that the air quality in the working area meets the requirements of the cleanroom class, and the high-speed automatic closing feature helps to save energy while improving operational efficiency, which can create a good environment for operations. Standard dimensions are 1000mm x 1000mm x 1000mm.

2. HEPA Filter clean room HEPA filter with polypropylene and optional liquid media, designed to remove fine particles. Filters can be replaced from the side frame by a streamer when the side door is opened. A pre-filter is installed at the return air outlet. The air is protected by a magnetically mounted with a series of polypropylene mesh mesh.

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Working and unloading of inner and outer doors, lighting control, human body induction, and for working. It also has adjustable wind - streamer time, which prompts and is easy to use - friendly.

3. HEPA Filter minimum internal diameter is 20 mm. Through which air is blown at a mean axial velocity of 20 mm towards a person standing in the center of the cabinet. Therefore, can be customized to be installed on top of the air streamer.



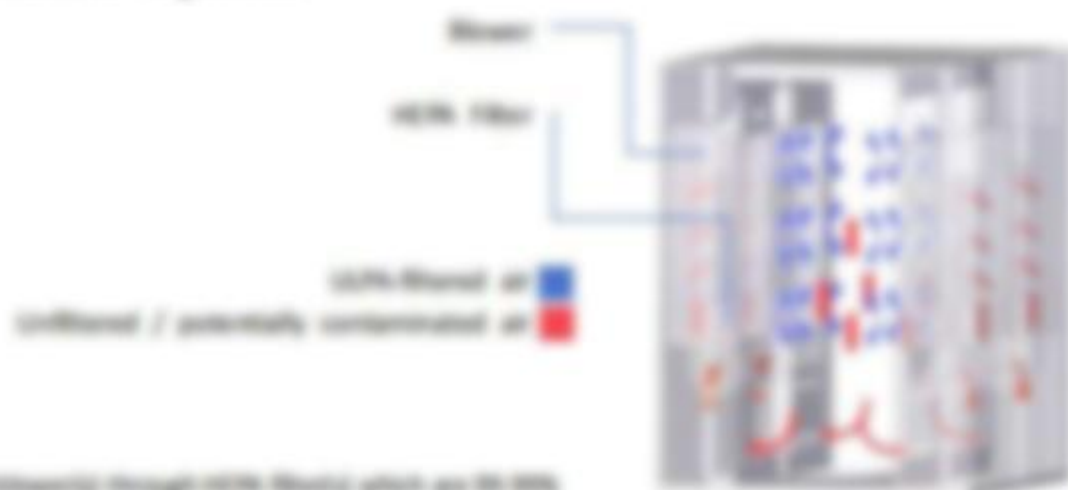
The background image is a technical drawing of a mechanical part, likely a pump or motor housing, shown in three views: front, side, and top. The drawing includes various dimensions and a table of data. The table is located in the upper right quadrant of the drawing and contains the following information:

Model	Power (kW)	Flow (m³/h)	Head (m)	Efficiency (%)
100	1.5	1.2	1.5	75
150	2.2	1.8	2.2	78
200	3.0	2.5	3.0	80
250	4.0	3.2	4.0	82
300	5.0	4.0	5.0	84
350	6.0	4.8	6.0	86
400	7.0	5.5	7.0	88
450	8.0	6.2	8.0	90
500	9.0	7.0	9.0	92
550	10.0	7.8	10.0	94
600	11.0	8.5	11.0	96
650	12.0	9.2	12.0	98
700	13.0	10.0	13.0	100

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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 spread 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 areas in the air shower chamber. As within the shower supply stream through an HEPA filter located at the base of the chamber.
- The air is continuously filtered and recirculated. The air shower is a self-contained device and does not exchange air with the environment it is placed in.

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Air Shower Operating Sequences

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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 will close is locked while the grey 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 life animal research applications to prevent the ingress of hazardous substances and allergens from the controlled environment.



Typical Configurations



Right Turn Pattern



Right Turn Pattern



T-Shape Pattern

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T-Shape Pattern

Left Turn Pattern

[illegible]

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