

OUDELONG® Air Shower

1400 SERIES



Air showers serve to protect your cleanroom environment from unwanted contamination.

Clean garments become contaminated during the gowning/ungowning process, general use, and because of high traffic in the gowning area. The contamination problem is amplified when the same garment is worn several times or is taken on and off numerous times during the day.

The OUDELONG air shower is a fast and effective method of removing this surface contamination, contamination that will otherwise be carried directly to your cleanroom and deposited on your product and critically clean areas by sloughing off from the surface of the garments.



The air shower is quality constructed using heavy stainless steel to minimize particle generation. The units provide air flow of approximately about 3200 m³/h, 20 m/s nozzle velocities.

It has a knock-down design that allows ease-of-installation and flexibility in use. The unit can be shipped knocked down or completely assembled. When shipped knocked down, all parts will fit through a standard door. All service to the blower, motor and filters is done from inside the air shower. The unit also offers an optional design that allows all the installation assembly to be done from inside the air shower.

Air showers are available in a variety of sizes and shapes to provide a cleaning system to meet your specific application.

General

- All metal construction
- Ships knocked down or fully assembled
- HEPA filtered with 40% pleated prefilters
- Variety of sizes, configurations and options
- Low maintenance and easily serviced.

Air showers can greatly enhance your cleanroom's performance by removing surface contamination from clothing and cleanroom garments. Gowning/changing room areas are the interface between a dirty "street clothes" environment and a clean room environment. Unfortunately, the changing or gowning process itself releases contaminants from street clothes that can settle onto the "clean" garments. Air showers blow off and remove much of this contamination preventing it from entering the clean space.

What Makes the OUDELONG Air Shower Perform Better

An air shower in many ways can be compared to vacuum cleaner. They are available in a variety of sizes, capacities and features; some work very well while others just seem to make noise. To be effective they need to have high cleaning force and power to do a good cleaning.

Cleaning Force. A good vacuum cleaner has high suction and airflow to pick up dirt. A small vacuum with low suction and airflow does little more than pick up a few crumbs. The same can be said for air showers.

Some air showers that have small blower/motor, low airflow and pressure fall into this category. These underpowered air showers give air showers a bad name. The OUDELONG air shower has high velocity and large air volume for fast, efficient cleaning. The OUDELONG air showers, as further described, offer the highest velocities combined with large airflow to provide an air shower that quickly and efficiently cleans particulates from the surface of clean room garments. The additional text describes why the OUDELONG air showers are the best.

In today's competitive market environment, the selection of quality raw materials is a key factor in ensuring superior performance and long product life. Our company proudly utilizes a range of high standard steel materials that not only exceed industry standards, but also demonstrate our relentless pursuit of product quality in a number of ways.

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construction is flow for a simple rightle, but not for a piece of equipment that is, being integrated into your dis-

NCTS: A tapical laminated particle board at shower has the plants laminate or the cutoffe hat offer

concepted at duck just painted over the one particle board leaving a rough surface frost that furtions

it our pursuit of excellence, we don't write for the sum. The SSR opinio

and other critical process controls.

Construction Materials



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difficult or improvable with exterior-recorded sensic pureris. The critic decision control puter is consentently, incombal on the

Spillage. The control parent can be foculated in other appear side positions, on a focus antento extended.

Inside of the at chosen one of the side base the closeling, bloods, and it constact how consider the at it beauti-

Service Access

The doors are a harry-duty representable transact, place-eight with a NA-door subtly-gloss-results; panel. Each door is furnished with feesty-daty door fringes and a door closes. Storr options include double-doors, power saling, basilies doed frame, power stiding and painted steel with desiring window. Air disseas can be furnished eithead a death; on one and in the cell on half against an eating door. A door interfack reagrent can be alligated base for fall resorting. When interfacing with an existing or allifug door, the air shower can be furnished with a day cented to automatically open the door at the end of the deating and such Sertial and horizontal diding doors are often used when the all-drover is used for parts channing. These or is being used to transfer parts.

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The control panel include the castor formal contracts and minigenous arminder (MC) and for timing the

The flame of the control panel is made of plack by default, and can be approach to deviden sted optional.

drawing suck and controlling the interface of the above, damp with the starting of the air shawer.

MARCH.

Microprocessor Controller and Door Start Switch A recognission contribution define at those to that the cold self-clarif when people are going brough it are director. On applications where there is to directional though the air shower 'people using the disser to both write and solt the dispressor; the all shower only dark when people on going into the dispressor, sot when they are booking. The distring line argumen is field adjustable by tagging the budges of the controller. There is one budges for adjusting the channey time, 3-35 seconds. Note: Only units with magnetic door interfects have the door-part switch other units have a wall don't



When door interfacils are installed total three foreergony power off. (IPC) parts factors are provided on the interior and both extensive ends of the of the shower. When the IPC factor is present, the interior and describes and factors can be speed because presing the IPC factor describes the interfact system and safety. We done
which the door.

When the IPC factor is presed translate are described and an earlies done counts denting individuals to the emergency condition. A day context for a sense sensor or observe is available to indicate that the IPC system has been actuated the done is surrect off by a key switch on the reside and of the architecture.

Blower/Motor

The titue wheel's at average efficient bulleage cannot during a that is about done recommend to a efficient 1 of the parts of the safe that the sensor and the safe that the safe is a strongent.

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There are 12 adjustable all recolles in each standard all shower section, 6 per side. This provides a uniform

a file highest which, resourced at the outlier of the rounder.) This high rounds willoutly provide room dearing hour

power), and the high rocale selectly flores, the people inside the all shower are cleaned factor and reco-

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The recollected distribution made They State a Street readle-distribute with ... a Street records all values by Paul which's

CPIC provide appropriately TRE CPIC patent SEE male; and MRE the high-or-flow volume

near compartment or under the floor grant. Algoriding on the options ordered

Air Nozzles

effectively.

box No not of the air du

Air Flow Capacity

concentration of recodes for fact, effective descring.

to offertually didning partition and other contentions.

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dearing a required

Flooring Inside Air Shower

Optional Raised-Grated Floor Air Return

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shower is purged of contamination prior to the characters door being specied. The length of the purpoleal time

is adjustable from it to 15 accords. The interior light Notice continn is used to indicate when the purge time is

Optional Ceiling Air Purge

complete and the parties can enter the clean region.

Optional Variable Frequency Drive, Nozzle Air
Purge

Optional Point Ionization

set dozen by pusping and depoing the interior

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ad of the shower hafters it would become a problem. When applying all conditioning to the air shower it is

bid to use a self-complexed all handler that recitculates all willion the air allower. Optional self-

Optional Air Shower Styles and Configurations

Mil-Degree Air Showers.
The air allower can be provided with the above in a Mil-Degree configuration for those applications that straight in will not work.

These desir Air Showers
This air physion has three above. The typical configuration is one-entrance above and two above entiring to be

Multiple-chilts formed

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3. They offers are not walk through but only have one door, and the unit without the door is put against an

5. A reginator should be used for the tool material being desert of ... REMINTR 6 ONLY RESIDED. TO

It Optional compressed air filting can also be installed to allow additional liber off during cleaning or to liber air into the outer countil to "black trap" and make it water to clean. The germent, Consult the factory for

These air discusses, are pireliar to the specified air discuss too have a few common coptions.

It. They hadrodly do not have door implicate.

sating self-or you write and not firrough the same door

4 cover citir-and profiters unless pated floor option is chosen.

3. They have self-start self-flex.

DECREMENTAL OF THE MATRICE.

has at most all dissent can be continued to form a longer unit. By adding complete sections, as

groups, or for "continuous flow" dearing swhere the disserting time is how long it taken to wall the length of the

control is coupled by the first and additional units don't reset these been.

Loss Profile Air Shower

These turneds can be used for Yange bald?" classing 2f's large number of ... people will enter and exh. at a

The CHIRCORD OF Sommander reside has an exercit assemble freight of DRESSOR The unit has the Money

assettly, HETA Bios, and observed components recorded on the cole to point the boson height. It are be

Custom Features

MATERIAL MENTER.

Garment Type and Cleaning Effectiveness

of contamination. Large Sight particles such as N4, Sat. dender, and dir Nate, an file spaticitis reviews

Contact

serical band, making it seels to blow the surface contemposition off the germents. Natural filters, such as

such as Yorks, Godden, problembles and rudice, but reprine a final. These materials are loss-shadding and recording the

The cleaning effectiveness of the air please is affected by the type of - garments, the cost, shape and type

Mechanical bonds between the garment and particulate contentration are reduced when smooth surface ments are utilized. These include "deservan-designed" garments and those much from synthetic materials.

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phones. This space is filled with an optional trin angle. The phones can also built up against a wall with an

for different class of other recold). Heave request a quote selfs a specific job number before planning cut-outs. Different configurations and sizes may require different cut-outsizes. When the unit is buding against the wall, the contact point between the air strong and the formed spening is typically coullect or small time mobility is applied.

Mounting Against Wall

The experies of the all phones would have a time angle.



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