

Installation and Operating Guide

OUDELONG Air Shower

Proprietary Notice

This manual pertains to proprietary devices manufactured by OUDELONG. Neither this document nor any portion of it may be reproduced in any way without prior written permission from OUDELONG.

Safety Notice

A thorough familiarity with all operating guidelines is essential to safe operation of the product. Failure to observe safety precautions could result in poor performance, damage to the system or other property, or serious bodily injury or death.

The following symbols are intended to call your attention to two levels of hazard involved in operation:

The information presented here is subject to change without notice.

OUDELONG makes no warranties applying to information contained in this manual or its suitability for any implied or inferred purpose. OUDELONG shall not be held liable for any errors this manual contains or for any damages that result from its use.



CAUTION

Cautions are used when failure to observe instructions could result in significant damage to equipment.



WARNING

Warnings are used when failure to observe instructions or precautions could result in injury or death.

1.0 Introduction

This manual provides information on installing and operating your OUDELONG Air Shower. By studying this document carefully, you can be assured of a long, efficient service life from the unit.

- Read all of the instructions before operating your unit.
- Pay particular attention to all safety precautions.
- Retain this Installation and Operating Guide for future reference.



WARNING

To reduce the risk of fire, electric shock, or injury to persons, use this unit only in the manner intended by OUDELONG.



WARNING

Before servicing or cleaning your Air Shower, switch off the power at the service panel and lock the service disconnect to prevent the system from being accidentally switched back on. If the service disconnect cannot be locked, attach a visible warning sign to the service panel.

2.0 Description

OUDELONG's Air Shower remove surface-deposited particles from personnel as they enter and exit a cleanroom or other controlled environment. These units are rated to exceed ISO 5 particle count standards.

Air Showers use one (1) HEPA Filtration System Blower Module(s) to achieve this contaminant removal.

The Blower Module circulates air at a very high speed through nozzles positioned throughout the interior walls of the Air Shower. Each nozzle can be adjusted to control the direction of the air flow. A highcapacity HEPA filter (rated to be 99.99% efficient @ 0.3-micron particles and installed with a closed-cell gasket) captures contaminants before air is forced through the nozzles.

The Air Shower is equipped with electro-magnetic interlocks that keep both doors locked during the operation cycle to prevent outside disturbance and contamination. After the cycle, both doors will unlock to allow entry and exit. The cycle can then commence again after a delay time has passed.

There are total two (3) Emergency Stop Buttons (1 located inside and 2 located outside the Air Shower). Either button cuts power to the Blower Module(s), stops the blower cycle and allows either door to be opened.

Low-energy 12W LED lights are positioned along the ceiling of the Air Shower/Tunnel. Operation is controlled by a switch on the PLC touch screen control panel located on the exterior of the unit.



3.0 Installation



Read this manual carefully before installation, and use the correct safety measures and sufficient personnel in accordance with all applicable codes and standards, including the local code rules.

Unloading Shipment

The following are installation requirements about the shipment:

- Shipment weight and quantity is subject to the air shipment from the shipping center.
- Shipment includes: machine, mounting and supporting components. The customer is to ensure an adequate storage area for parts and equipment subject to the applicable code rules and local code rules.
- The customer must ensure the equipment is stored in a safe place from the weather, such as rain or fire. Shipment is not suitable for use in corrosive or high salt atmosphere. Depending on the specific requirements, the device should be kept away from the water 100%.

It is advised to install the device in a sheltered area.

Some installation requirements are included:

- The device is not to be installed in a place where there is a risk of explosion or fire.

Contact
oudelongsales04@163.com /
WhatsApp: (+86) 139 1273 1080
For FULL document download



The air stream is composed of air and water in the form of a fine mist which is released under high pressure and velocity.

1. Verify that the flow is within the rated capacity of the device, and adequately supported. Warning may be required if the flow is not used. Failure to use the flow may result in the inability to complete the assembly of the air stream.

2. Check a warning in the flow to indicate the position of the air stream. Verify light signal by checking the signal direction with a measuring tape.

Following the air stream:



Read this manual carefully before installation, and use the correct safety measures and sufficient personnel in accordance with all applicable codes and standards, including the local code rules.

- Use a suitable method for the device to stop the flow of the device.
- Use the water in the device to stop the flow of the device to ensure the safety of the user.

4.0 Operation

4.1 Introduction and safety

1. Overview

The automatic control system of the air shower room is mainly used for the automatic control of the air shower room, the large shower room and the air shower channel to achieve air purification in the clean area. The automatic control system of the air shower room can automatically realize the interlocking and unlocking of the door and water flush, start and stop of lighting, automatic human body sensing and the start and stop of the fan, water prompts and other functions during all working processes. The product has relevant water prompts during the automatic process, and has flexible functions such as air shower time, flush and water flush interlocking delay time, and lighting delay time adjustable.

2. motherboard button description



A. Button description of the control panel of the air shower room

- (1) Emergency stop button: [E-STOP] This button is used for emergency stop button. The emergency stop button light will be on and the system will automatically stop in case of a failure. When the emergency stop button is released and the light is released, the system will return to the emergency stop mode and automatically determine all the working modes. The lighting, water control light, the system will return to the emergency stop mode. This light is mainly used for the emergency stop button and the release of the emergency stop button.
- (2) Air shower button: [AIR SHOWER] This button is used to start the air shower. It is mainly used for the button and the system will be interlocked to the air shower process. The button is mainly used for the door interlocking, air shower release and fan interlocking.
- (3) Lighting button: [LIGHT] This button is used to control the lighting in the air shower room. The button is mainly used when the door is open to start or stop the fan interlocking.
- (4) Air shower interlocking time: [T1] [T2] [T3] This button is used to set the air shower time and the interlocking time. The button is used to set the air shower time and the interlocking time. The button is used to set the air shower time and the interlocking time.

B. Description of air shower room indicator and digital tube display

1. Air shower interlocking display: [T1] [T2] [T3] This display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower.
2. Air shower interlocking time: [T1] [T2] [T3] This display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower.
3. Air shower interlocking time: [T1] [T2] [T3] This display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower.
4. Air shower interlocking time: [T1] [T2] [T3] This display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower.
5. Air shower interlocking time: [T1] [T2] [T3] This display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower.
6. Air shower interlocking time: [T1] [T2] [T3] This display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower. The display is used to show the interlocking time of the air shower.

10. When the door is open, the door status indicator light is turned on, and the door indicator light is on.
11. The system will not be able to open the door when the door is open. The system will be able to open the door when the door is closed.
12. When the door is closed, the system will be able to open the door when the door is closed. When the door is open, the system will be able to open the door.
13. When the door is closed, the system will be able to open the door when the door is closed. When the door is open, the system will be able to open the door.
14. When the door is closed, the system will be able to open the door when the door is closed. When the door is open, the system will be able to open the door.
15. When the door is closed, the system will be able to open the door when the door is closed. When the door is open, the system will be able to open the door.
16. When the door is closed, the system will be able to open the door when the door is closed. When the door is open, the system will be able to open the door.
17. When the door is closed, the system will be able to open the door when the door is closed. When the door is open, the system will be able to open the door.

Notes on use

1. Product panel size: 240x120 (mm), required opening size: each side plus 2-25mm.
2. Electronic lock on the door frame opening size: 30 (mm).
3. Door magnetic sensor opening size: 28 (mm).
4. Door electronic lock hole opening size: 22 (mm).
5. Requirements for the door magnetic switch used with the product: contact closure when closing the door, contact disconnection when opening the door, open the door panel indicator light off when closing the door when needed. The sensors on the door frame and door must be aligned, and the exterior and interior door must be closed when the door is closed.
6. Requirements for the external power supply: the product 12VDC power supply, contact closure when closing the door, contact disconnection when opening the door. The external power supply must be used when the door is closed.

Contact

oudelongsales04@163.com /
WhatsApp: (+86) 139 1273 1080
For FULL document download

5.0 Maintenance

Read the maintenance instructions for the OUDLONG® Air Blower carefully and follow the instructions for maintenance and safety of the unit.



Read the maintenance instructions for the OUDLONG® Air Blower carefully and follow the instructions for maintenance and safety of the unit.

General

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

Blower Head

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

Motor and Fan

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

6.0 Warranty

The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications. The OUDLONG® Air Blower is a powerful and durable unit. It is designed to be used in a variety of applications.

Thank you for ordering from
OUDLONG®