

# **Installation and Operating Guide**

## **OUDELONG® Cargo 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.

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

Cargo Air Showers use four (4) 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 Cargo Air Shower. Each nozzle can be adjusted to control the direction of the air flow. A high capacity HEPA filter (rated to be 99.99% efficient @ 0.3-micron particles and installed with a doped-cell gasket) captures contaminants before air is forced through the nozzles.

The Cargo Air Shower is equipped with electric-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.

You can find the Distributed Long for Shovel in the System 2 Operator's Manual and the Distributed Long for Shovel in the System 1 Operator's Manual. The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual.

You should follow the instructions in this manual when installing the Distributed Long for Shovel. The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual.

## 3.0 Installation



Read the instructions carefully before installing the Distributed Long for Shovel. The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual.

### Unloading Shipment

The following are the steps to unload the Distributed Long for Shovel:

1. Remove the Distributed Long for Shovel from the shipping crate.
2. Remove the Distributed Long for Shovel from the shipping crate.
3. Remove the Distributed Long for Shovel from the shipping crate.

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### Pre-Installation



The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual. The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual.

1. Verify that the Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual. The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual.
2. Verify that the Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual. The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual.

### Installation and Unload the Distributed Long for Shovel



The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual. The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual.

1. Verify that the Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual. The Distributed Long for Shovel is a separate unit that is not included in the System 2 Operator's Manual.



1. After the cargo air shower is installed, the installation is completed by simply transporting the cargo room to the designated location, as built and installing the roll-up shutter door of the installation of roll-up shutter door please see the installation video available in the downloadable section of the product detail page.
2. Finally roll-up shutter door should roll up smoothly.
  - (1) Check the two side sections are flat and after transporting the two side sections into place using a forklift that they need to be mounted on the ground.
  - (2) Now the two side sections need to be secured by inter-connection suspension and mounted on top of the two side walls, using mounting bracket to secure the top of the side.
  - (3) Finally, installing the roll-up door of the installation of roll-up shutter door please see the installation video available in the downloadable section of the product detail page.
3. After the walls are installed, another is applied around the walls and the Cargo Air Shower is secure the stability of the wall.

## 4.0 Operation

### General operation instructions

#### 1. Overview

The automatic control system of the Cargo Air Shower room is mainly used for the automatic control of the Cargo Air Shower room, the cargo shower room and the Cargo Air Shower channel to achieve air purification in the clean area. The automatic control system of the Cargo Air Shower room can automatically realize the monitoring and controlling of the room temperature, humidity, lighting, automatic human body sensing and the start and stop of the room air flow, etc. During all working processes, the control has relevant alarm prompts during the abnormal operation, and has flexible functions such as Cargo Air Shower room and door opening and closing.

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#### A. Button description of the control panel of the Cargo Air Shower room:

- (1) **Emergency stop button (EMERGENCY STOP)**: This button is used for emergency stop function. The emergency stop button light will be on when the system is automatically running. When the emergency stop button is pressed, the system will stop the operation. The system will stop the operation when the emergency stop button is pressed. When the emergency stop button is pressed, the system will stop the operation. When the emergency stop button is pressed, the system will stop the operation. When the emergency stop button is pressed, the system will stop the operation.
- (2) **Cargo Air Shower Room (Cargo Air Shower)**: This button is used to start the operation of the Cargo Air Shower room. When the button is pressed, the system will start the operation of the Cargo Air Shower room. When the button is pressed, the system will start the operation of the Cargo Air Shower room. When the button is pressed, the system will start the operation of the Cargo Air Shower room.
- (3) **Lighting button (LIGHTING)**: This button is used to control the lighting of the Cargo Air Shower room. When the button is pressed, the system will start the operation of the lighting of the Cargo Air Shower room. When the button is pressed, the system will start the operation of the lighting of the Cargo Air Shower room. When the button is pressed, the system will start the operation of the lighting of the Cargo Air Shower room.







## Wiring diagram



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Note: The emergency stop function of the indicator panel is synchronized with the emergency stop function of the panel.

### Emergency stop

1. Press the emergency stop button on the indicator panel to stop the motor.
2. Press the emergency stop button on the driver panel to stop the motor.
3. Press the emergency stop button on the fan speed indicator panel to stop the fan speed.
4. Press the emergency stop button on the fan stop indicator panel to stop the fan stop.
5. Press the emergency stop button on the fan speed indicator panel to stop the fan speed.
6. Press the emergency stop button on the fan stop indicator panel to stop the fan stop.
7. Press the emergency stop button on the fan speed indicator panel to stop the fan speed.
8. Press the emergency stop button on the fan stop indicator panel to stop the fan stop.

### Emergency stop

1. Press the emergency stop button on the indicator panel to stop the motor.
2. Press the emergency stop button on the driver panel to stop the motor.
3. Press the emergency stop button on the fan speed indicator panel to stop the fan speed.

## 5.0 Maintenance

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These findings suggest that there is a need for a more comprehensive approach to addressing the needs of the elderly population.

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The above results consist of a short time series for a selected few countries/regions. More findings on water use and management is not shown. Whether housing an environmentally sustainable life-style depends on the range of choices available to consumers, the role of the state, NGOs/NGOs, international agencies, the above results were 1-4 months for research. All information.

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