

## 4500L IP56X Sand Dust Test Equipment For Dust Testing Of Large-Sized Products

Our Product Introduction

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### Basic Information

- Place of Origin: Guangdong , China
- Brand Name: YueXin
- Certification: IEC60529:2013 , DIN EN 60529-1:2014-09 (VDE 0470-1)
- Model Number: YX-IP56X-4500L
- Minimum Order Quantity: 1 pcs
- Price: usd+20000-50000+pcs
- Packaging Details: wooden box package
- Delivery Time: 30-45 days
- Payment Terms: T/T
- Supply Ability: 100+pcs+30



### Product Specification

- Product Name: Dustproof Test Chamber
- Test Function: IP5X IP6X
- Capacity: 4500L
- Test Medium: Talcum
- Experimental Scenarios: Dust Environment
- Outer Material: Steel Plate
- Number Of Dust Outlet: 2
- Controller: 7-inch Touch Screen + PLC
- Material Of Window: Tempered Glass
- Highlight: Sand Dust Test Equipment, IP56X Sand Dust Test Equipment, 4500L Sand Dust Test Equipment



### More Images



## Product Description

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#### Vacuum system:

The user needs to connect the sample to a special pumping pipe, and the gas inside the sample is pumped out by a vacuum pump, and the pumping speed can be adjusted by an air flow meter.

► Need to reserve the air hole position for the sample.

#### Equipment structure:

The walk-in dust chamber is capable of supporting heavy loads up to 300kg, rendering it ideal for conducting dust tests on oversize products. Its structural layout is thoughtfully engineered, ensuring straightforward cleaning and maintenance procedures. Furthermore, equipped with a dual-fan dust dissemination mechanism, it drastically cuts down the duration needed to attain the specified dust density, ultimately boosting the efficiency of testing operations.

The talcum powder is blown to the top of the pipeline by the circulation pump and is sprayed out from the dust outlet above the inner box, and moves in disorder after falling freely.

There is a special outlet at the bottom of the funnel, user can quickly collect dust through there.

To keep the test space as dry as possible, a heater is mounted on the outside of the funnel floor.

A vibrator is mounted on the outside of the funnel, which can work intermittently to keep the dust from sticking to the inner wall as much as possible.

The pumping pressure is displayed by the pressure sensor(Unit:kPa), and can be adjusted by the pressure regulating valve;

The pumping speed can be displayed by the flow sensor(Unit:slpm), and the total pumping volume and current pumping speed can be displayed.

The door is transparent and equipped with a window wiper to allow perfect observation of the test space.

The sample power socket (220V, 10A) is mounted under the side of the chassis, which is convenient for the user to do the live test of the sample<sup>6</sup>.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple languages<sup>7</sup>.

Casters are mounted to the bottom, and can be adjusted to fix the chassis according to the flatness of the ground.

Protection measures: short circuit protection,blower overload protection.

#### Part of the detail images:



dual fans



vacuum pump

#### Technical data for IP5X IP6X:

Item	Parameter
Test space volume	4500 L
Number of dust outlet	2
Diameter of the dust outlet	50 mm
Talc Specifications	15 $\mu$ m
Talc dosage	2 4 kg/m <sup>3</sup>
Outer diameter of exhaust pipe	8mm

Pumping speed	Digital display, Unable to adjust
Maximum depression	2kPa(20mbar)
Cycle test times	0-999 times
Test time	0-999 H
Vibration time	0-999 S
Sound pressure level during operation <sup>8</sup>	≤70 dB (measured at 1m in free field)
Power supply	380 V/50 HZ
Sample power <sup>9</sup>	220 V/10 A
Power	3.5 kw

#### Working scene:

The dust test chamber enjoys an expansive scope of applicability. It fulfills the rigorous testing standards for dust resistance of large products in high-end manufacturing sectors like automotive and aerospace, while also finding extensive use in electronics, electrical appliances, and military sectors, offering dependable, precise, and scientific safeguards for dust-proof testing of numerous large-scale precision devices.

#### Remark:

- 1 The pictures in this document are for customer reference only, and there may be color differences between the actual model and the pictures.
- 2 This document only lists some test standards, which does not mean that other test requirements and standards cannot be conducted. Welcome to communicate and discuss with us.
- 3 One test only at a time. The next project can be only carried out after the current test is completed. In addition, we can provide multi-functional customized test solutions according to user requirements.
- 4 A single device is equipped with an exhaust pipe, and only one sample is vacuumed at a time.
- 5 Please prepare a powder collection box (6-10L) in advance, remove the sealing plate at the bottom of the back, and then collect it.
- 6 Please inform in advance if the voltage(220V) does not match the actual needs so that we can provide customized solutions for you.
- 7 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.
- 8 The data is collected in the manufacturer's factory test. It may be different in different environments.
- 9 If the sample is not suitable for sample testing, a connection hole can be customized on the left side of the inner box, and the user can use an external power supply by himself.
- 10 The photos may not match the actual ones, and are for user reference only.

**Tags:** Dustproof Climatic Chamber , Dustproof Environmental Chamber , IP5X IP6X Dust Testing Machine



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