

## □ Sand Dust Test Chamber



DI-800

**TEMPERATURE**  
Ambient ~ +50°C

**DUST CONCENTRATION**  
2 ~ 4kg/m<sup>3</sup>

**BLOWING TIME**  
0 ~ 99H59M



Automobile industry



Electronics



Military

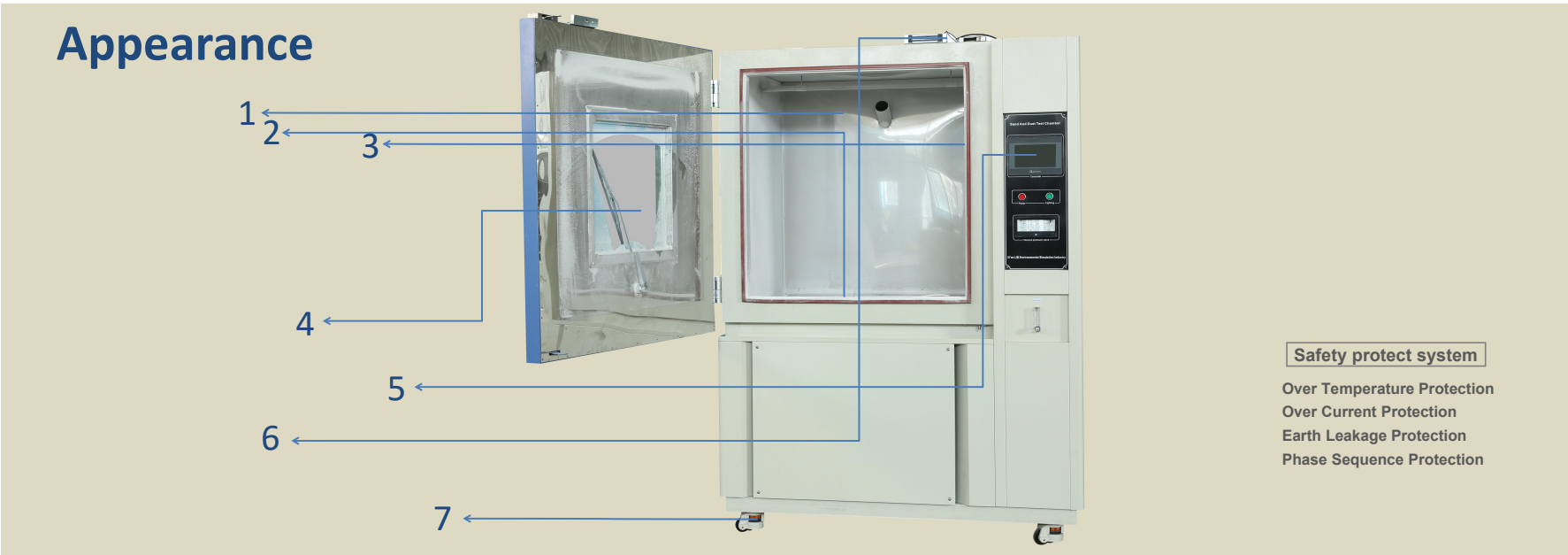


【Technical Parameter】

Model		DI-800	DI-1000
Internal Dimension (mm)		800*1000*1000	1000*1000*1000
Overall Dimension (mm)		1040*1450*1960	1200*1450*1960
Interior Volume (L)		800	1000
Parameter	Temperature Range	Ambient ~ +50℃	
	Humidity Range	< 30% RH	
	Normal Wire Diameter	50um	
	Nominal Width of a Gap Between wires	75um	
	Fight Time	0 ~ 99H59M	
	Blowing Time	0 ~ 99H59M	
Structure	Specimen Power Outlet	Dust-proof socket 16A	
	Heating Element	Nichrome heater	
	Vacuum System	Equipped with a pressure gauge, air filter, pressure regulator, connecting tube	
	Controller	Programmable color LCD touch screen controller	
		Ethernet connection, PC Link	
	View Window Size(mm)	475*475	
	Door Lock	Electromagnetic lock	
Material	Safety Device	Over-temperature Protection; Over-current Protection; Earth Leakage Protection; Phase Sequence Protection	
	Exterior Material	A3 Steel Plate with protective coating	
	Interior Material	SUS304 stainless steel	
Observation Window		Interior lighting, double-layer thermo stability silicone rubber sealing	
Standard Configuration		Sample shelf, dust wiper, talcum powder(5kgs)	
Power Supply		380V 50Hz	
Maximum Noise		65 dBA	
Environmental Conditional		5℃～+35℃    ≤85% RH	
Standard		IEC 60529, ISO 20653	

▣ Standard & customized

\* pay attention to the environmental condition during installing



1.Workroom

The internal material is 304 stainless steel, mirror surface, rust-proof, high temperature and corrosion resistance; Nice ruggedness and long life.



4.Viewing Window

Double-layer tempered glass, specially designed seal, with good impact resistance and prevention of sand and dust leakage.



7.Castor

Install 4 castors for ease moving, and with brakes function. Caster height adjustable.



2.Sample Shelf

Sample shelf is made of stainless steel, its standard load 50 kgs.  
Can custom-make special shelf for heavy samples.  
Mesh sieve size is 450\*450mm.



5.Controller

PID programmable color touch screen controller, network connection computer.  
Can edit 120 programs 20 segment.  
LIB also can preset program into the controller based on user testing requirements.  
The set system language is English for standard.



8.Internal Power Supply

The workroom is equipped with a single-phase 16A internal power interface (positive and negative terminals) to power up the test specimen. The power-on time and cycle can be controlled by the controller.



3. Build-in lighting

The built-in dustproof LED lighting inside the workroom makes it clear to observe the test specimen. The light can be turned on and off at the control panel button.



6.Electromagnetic Lock

Door lock is an electromagnetic lock, which will generate a strong suction force and tightly attract the iron plate to lock the door  
Unlocking is operated on the controller for safety and prevent malfunction.



9.Vacuum Pump

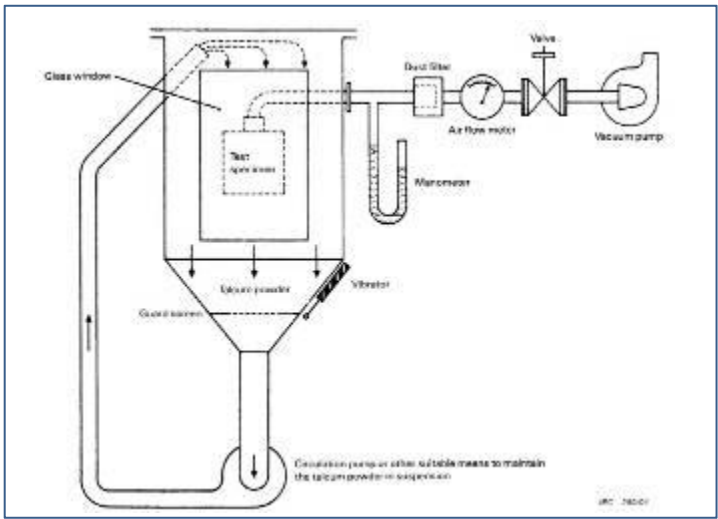
Vacuum pump is used to evacuate the test sample. There is a vacuum interface in the workroom, which can be directly connected to the sample.



10.External Materials

A3 steel plate with galvanized coating;  
Electrostatic treatment; High and low temperature corrosion resistance; High hardness, anti - impact  
Very high safety factor;  
Color can be customized.

Core Function



Dust Circulation System

Test chamber with vertical circulating airflow. The bottom of the air duct is connected to the V-shaped hopper interface. The air inlet and outlet of the fan are directly connected to the air duct.

The diffuser opening on the top of the workroom is connected to the workroom to form a vertical dust circulation system. Airflow can smoothly blow dust into the working room, forming a dust blowing circulation system.

Dust can be recycled use.



Controller System

The PID controller as the main control unit to command, operate, detect and redistribute the various components of the equipment to achieve maximum effective use.

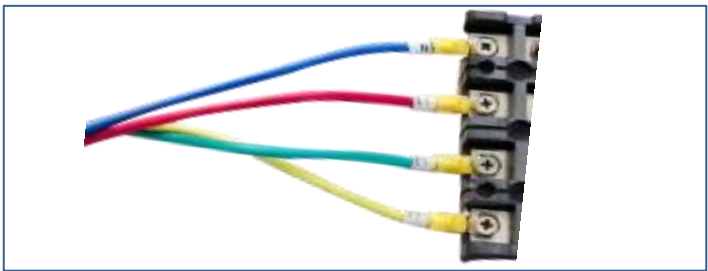
Screen display function: LCD display, which can display test conditions



Heating System

Nichrome heater is used to heat the temperature of the working room to 45 ° C.

The heater is installed under the mesh sieve, which is the indispensable channel for the return of sand and dust to dry the talcum powder.



Wiring System

Voltage 380V 50Hz 3 phase.

L1, L2, L3, PE, N, grounding protection.

Standard 2m long cable,

Over Temperature Protection

Over Current Protection  
Phase Sequence Protection

Earth Leakage Protection

Protection System

Cable Wire	<ul style="list-style-type: none"><li>■ 2.5m</li><li>■ 3m</li></ul>
Controller	<ul style="list-style-type: none"><li>■ WiFi connection</li><li>■ Mobile APP control</li><li>■ Multi-language controller interface: Russian, French, Polish, Romanian, German</li></ul>
Interface	<ul style="list-style-type: none"><li>■ USB</li></ul>
Talcum Powder	<ul style="list-style-type: none"><li>■ 45µm talcum powder</li><li>■ If buy powder with machine, MOQ is 10kgs, otherwise it is 500kgs.</li></ul>



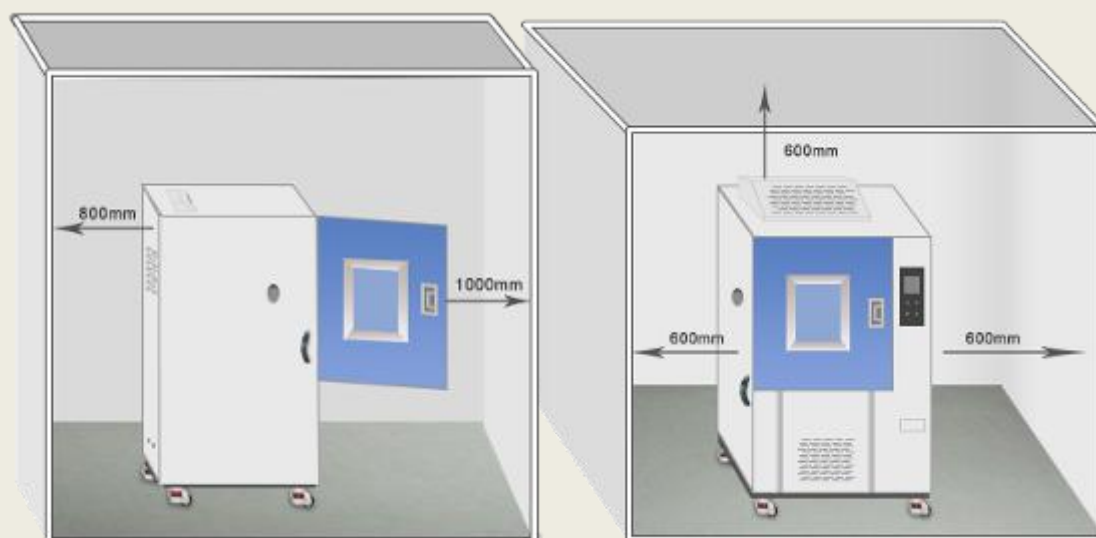
## Install Condition

### Environment Conditions

Temperature: +5°C ~ +35°C  
Relative humidity: ≤85%;  
Pressure: 86 KPa—106 KPa

### Space Conditions

Sufficient space for ventilation



**\*Safety Instruction:**

- 1.Prohibited to test explosive, inflammable and high corrosive substance
- 2.Chemical exposure to the equipment is prohibited
- 3.Equipment must be safety on the ground to avoid electrostatic induction

## Packaging



First, seal chamber with waterproof plastic film. Protect chamber from seawater corrosion.  
Second, buffer foam is placed in the four corners of the chamber. It is used for fixing equipment to prevent shaking and damaging chamber during transportation.



Plywood: standard wood export packaging. The wooden box is fixed by sheet metal to prevent damage during transportation.

Gross weight: 457kgs~  
Package size: 1620\*1250\*2070 mm

## Warranty Condition

Our company will repair the product, if the product, the material of the parts, the design and manufacturing of the products raised hardware problems caused by product itself rather than human error within three years warranty period since the date of dispatching by the customer.

Our company repairs the products, but will collect the basic costs of the spare parts after the warranty period, but service is free always.

## Shipping



**Material:** Export standard wooden box

\*Can be used for Sea, Air, Railway, Truck and multimodal transport.

## Warranty & Service

- 3 Years Warranty, Lifelong Follow-up Services

### Professional After-sales Team

If you have any questions during operation, we will supply solution to you with 24 hours.

## How to Service

1. At first, our test chambers are produced based on 20 years product lifetime.

Normally once test chambers have problems, we judge the problems, and send spare parts to our customers, and teach them how to change new parts on by email or video, all spare parts and shipping cost (by DHL, TNT, and FedEx) paid by LIB.

2. If the customer needs our engineer on-site service, they only need pay the ticket accommodation to our Engineers, service is for free.

3. If products still can't use after our engineers repair, we will produce a new test chamber (same as the old one) to our customers with no charge.

## PROVIDING TEST SOLUTION, PROVIDING TEST EQUIPMENT

Xi'an LIB Environmental Simulation Industry is a lead provider of environmental test chamber in China, with its own brand (LIB) design, production, sales and service since 2009. We continually update technology and develop new products for customer's needs.

Our main products included temperature and climate test chambers, corrosion chambers, weathering testers, IP dust and rain chambers, ozone test chamber, noxious gas SO<sub>2</sub> H<sub>2</sub>S chamber, walk-in chambers. We provide test chamber, we provide test solution. Standard and customized products to meet different customer needs.

By 2018, global market has spread to 53 countries to USA, Canada, Mexico, Brazil, Peru, Russia, German, UK, France, Finland, Netherlands, Poland, Switzerland, Thailand, Philippines, Singapore, Malaysia, Australian, South Africa etc. and the market continues to expand.

At present 7 Tier-one agents around the world provide LIB products, installation and maintenance service for customers. Make things simple and convenient.

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