

IPX5X6 Water Jetting Test Chamber

Model RNH-56



Automobile
industry



Electronics



Military



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1. Test Standard -- IEC62108, IEC 62688, IEC60529, ISO20653

✦ IPX5 IPX6 Water Jetting Testing

14.2.5 Test for second characteristic numeral 5 with the 6,3 mm nozzle

The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in figure 6.

The conditions to be observed are as follows:

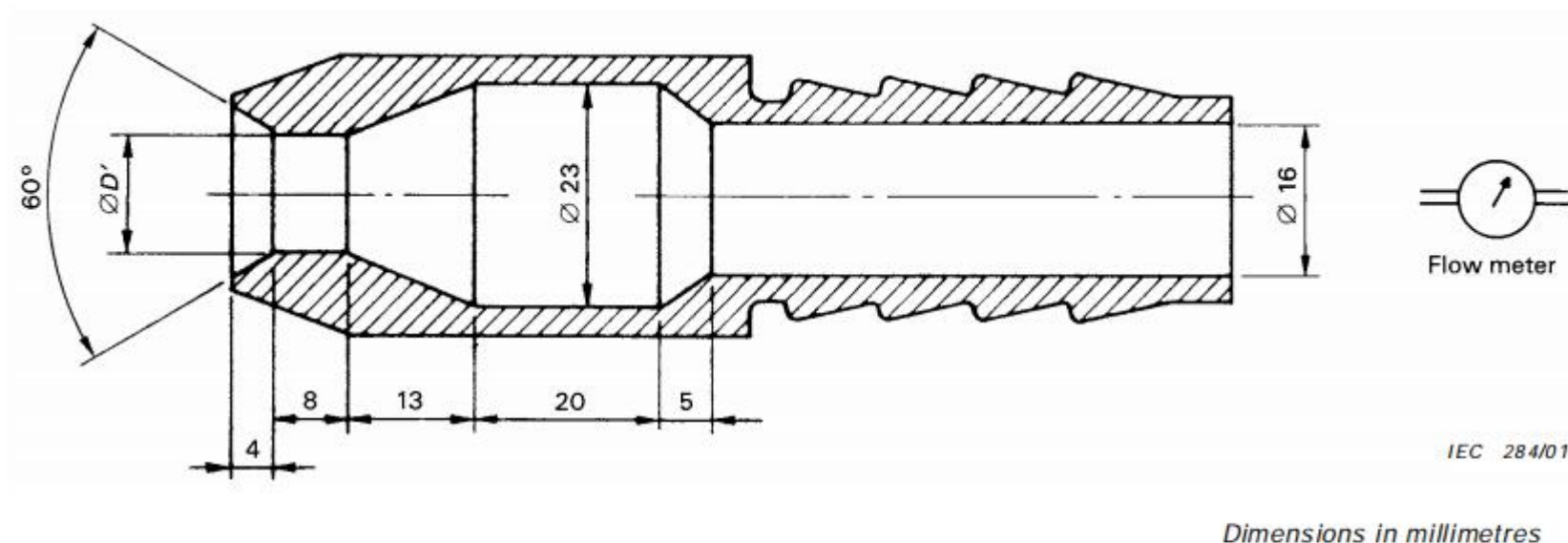
- internal diameter of the nozzle: 6,3 mm;
- delivery rate: 12,5 l/min \pm 5 %;
- water pressure: to be adjusted to achieve the specified delivery rate;
- core of the substantial stream: circle of approximately 40 mm diameter at 2,5 m distance from nozzle;
- test duration per square metre of enclosure surface area likely to be sprayed: 1 min;
- minimum test duration: 3 min;
- distance from nozzle to enclosure surface: between 2,5 m and 3 m.

14.2.6 Test for second characteristic numeral 6 with the 12,5 mm nozzle

The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in figure 6.

The conditions to be observed are as follows:

- internal diameter of the nozzle: 12,5 mm;
- delivery rate: 100 l/min \pm 5 %;
- water pressure: to be adjusted to achieve the specified delivery rate;
- core of the substantial stream: circle of approximately 120 mm diameter at 2,5 m distance from nozzle;
- test duration per square metre of enclosure surface area likely to be sprayed: 1 min;
- minimum test duration: 3 min;
- distance from nozzle to enclosure surface: between 2,5 m and 3 m.

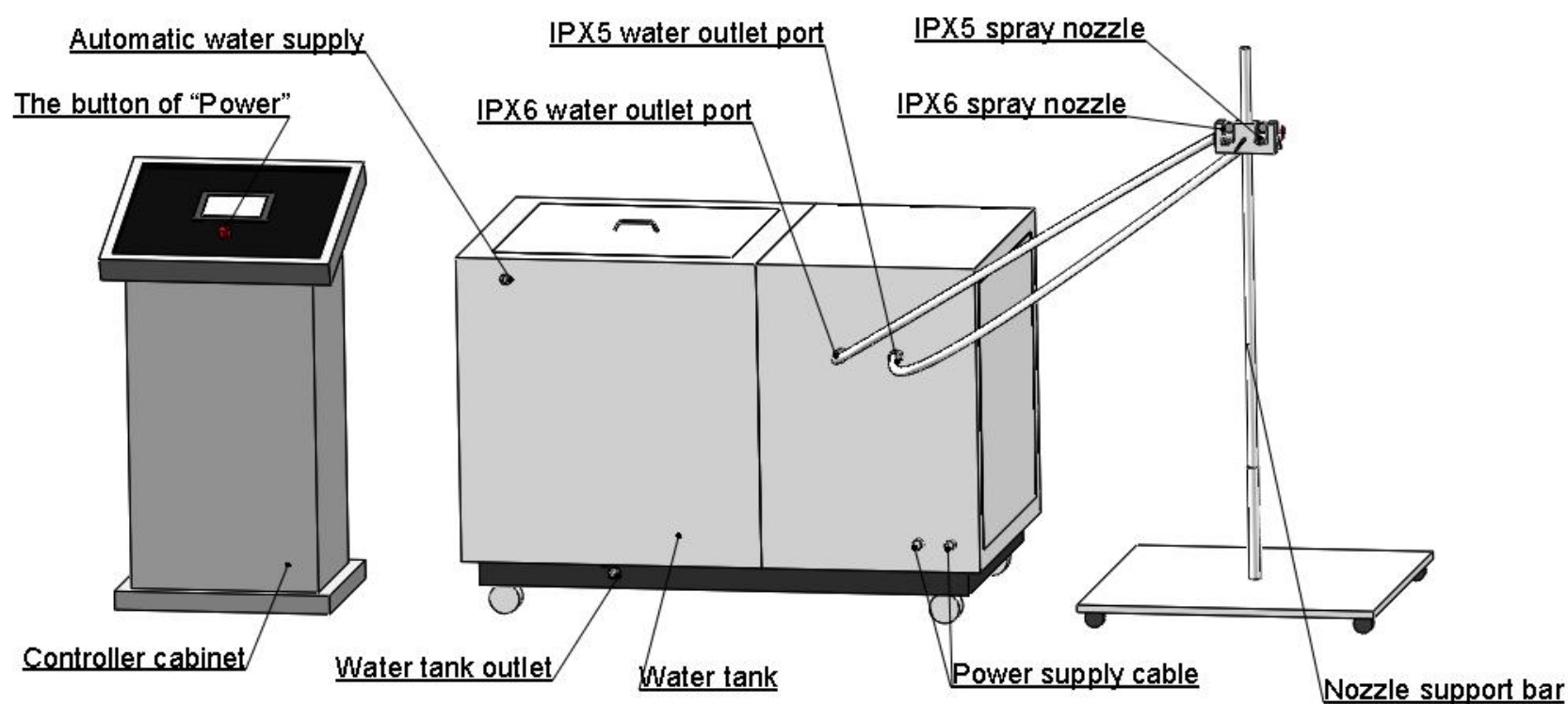


$D' = 6,3$ for the test of 14.2.5 (second characteristic numeral 5)

$D' = 12,5$ for the test of 14.2.6 (second characteristic numeral 6)

Figure 6 – Test device to verify protection against water jets (hose nozzle)

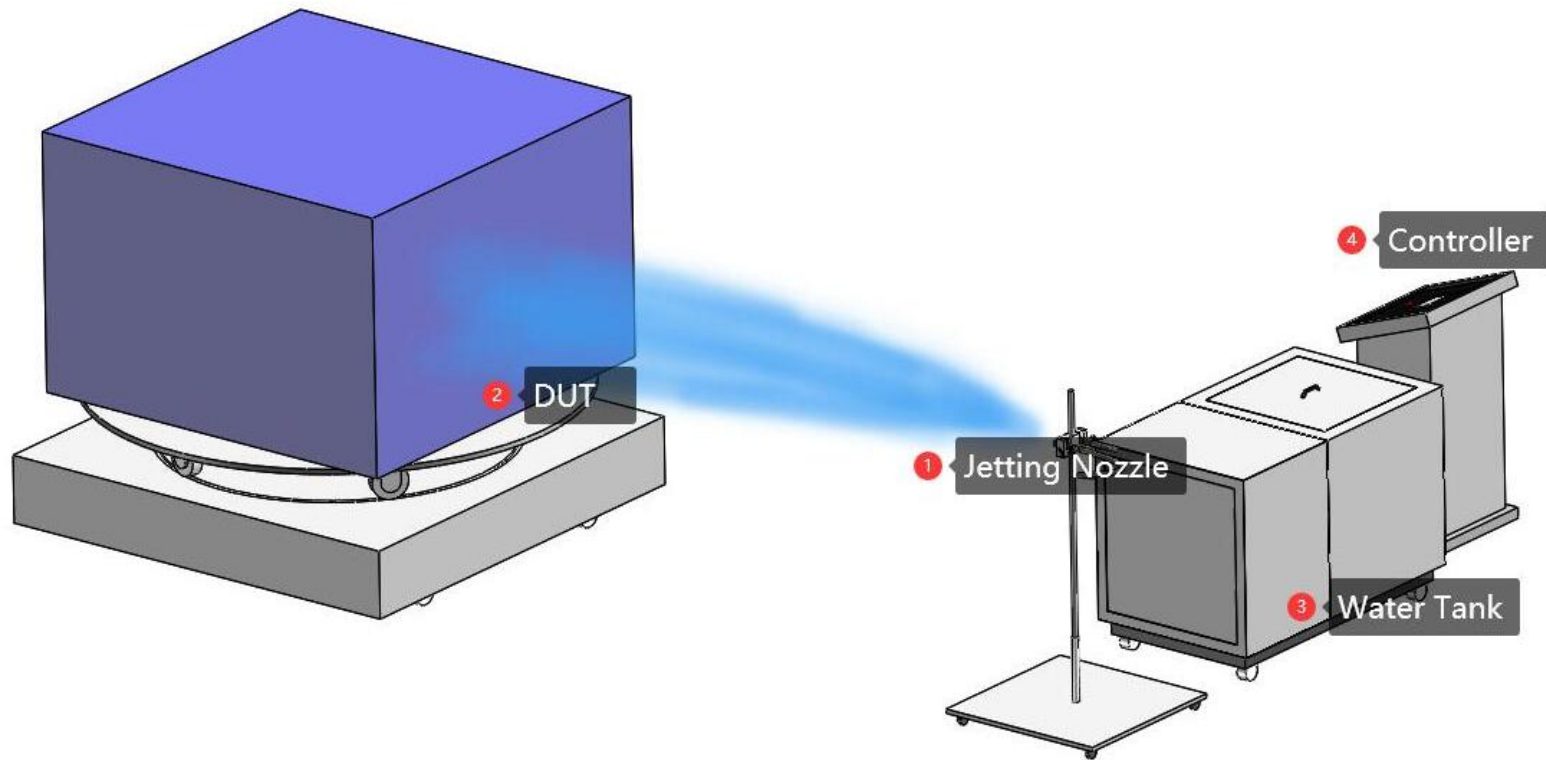
2. Diagram



3. Technical Parameter

Model		RNH56-800
Parameter	Turntable Rotation Speed	0~7r/min (Adjustable)
	Internal Diameter of IPX5 Nozzle	6.3mm ± 5%
	Internal Diameter of IPX6 Nozzle	12.5mm ±5%
	Water Flow Rate IPX5/ IPX6	12.5L/min ±5% / 100L/min ±5% for IPX6
Structure	Controller	Programmable color LCD touch screen controller Ethernet connection, PC Link
	Water Supply System	Water tank, booster pump, Automatic water supply, Water purification system
	Safety Device	Over-temperature Protection; Over-current Protection; Water Shortage Protection; Earth leakage Protection; Phase Sequence Protection
Material	Exterior Material	Steel Plate with protective coating
	Interior Material	SUS304 stainless steel
	Observation Window	Double layer insulating glass with wiperPower
Supply		220V 50Hz 1P or 380V 3P50Hz
Maximum Noise		65 dBA
Environmental Conditional		5℃~+45℃ ≤90% RH

4. Construction



1) Jetting Nozzle

- A removable bracket to hold the nozzle in place. The height of the stand is adjustable.
- The user can move the bracket to perform jetting tests on different positions of the photovoltaic panels. During the test, ensure that the distance between the nozzle and the photovoltaic panel is 2.5~3 meters
- Diameter of IPX5 nozzle is 6.3mm; Diameter of IPX6 nozzle is 12.5mm.
- Water flow rate can be set on controller. According IEC 60529, the flow rate is 12.5L/min $\pm 5\%$ for IPX5 test, 100L/min $\pm 5\%$ for IPX6 test.



2) Sample Holder

- Diameter is 1800mm.
- Turntable loads 300KG.
- Equipped with a single-phase 16A internal power interface to power up the test specimen.
- Turntable rotation speed is 0-7 r/min, which can be adjustable.



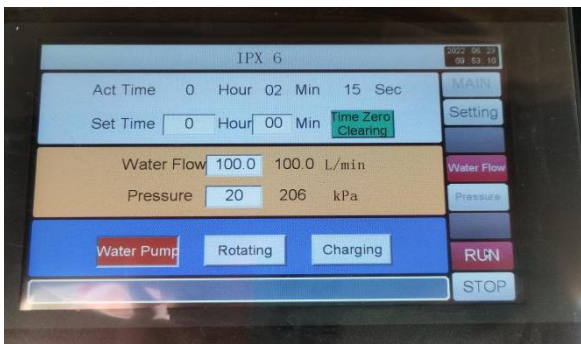
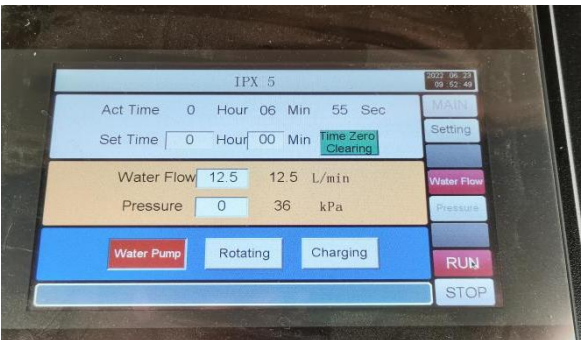
3) Water Tank

- Capacity: 512L
- Material is stainless steel.
- The tank contains booster pump, flow meter, pressure gauge, etc. Users can connect the laboratory water source directly to tank.
- Equipped with casters for easy movement.


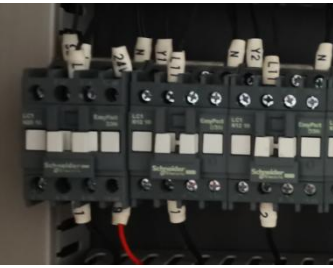


4) Controller

- Programmable color touch screen type control unit
- Display water flow rate, rotating of turntable, angle of swing pipe, run time, and so on.
- Ethernet for PC link
- Faulty History



5. Accessory

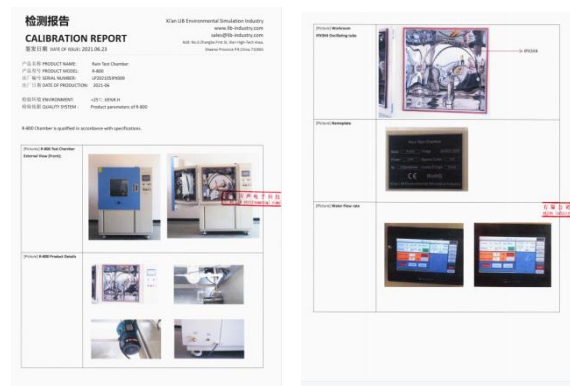
Consumables	/	
Spare parts	Solid-state relay	Contactors
		

6. Calibration

Before delivery, LIB engineer will calibrate it, and issue "Inspection Report";

■ Inspection Items

- ✓ Dimension
- ✓ Appearance
- ✓ Parameter
- ✓ Water Flow



Option: ISO 17025 calibration

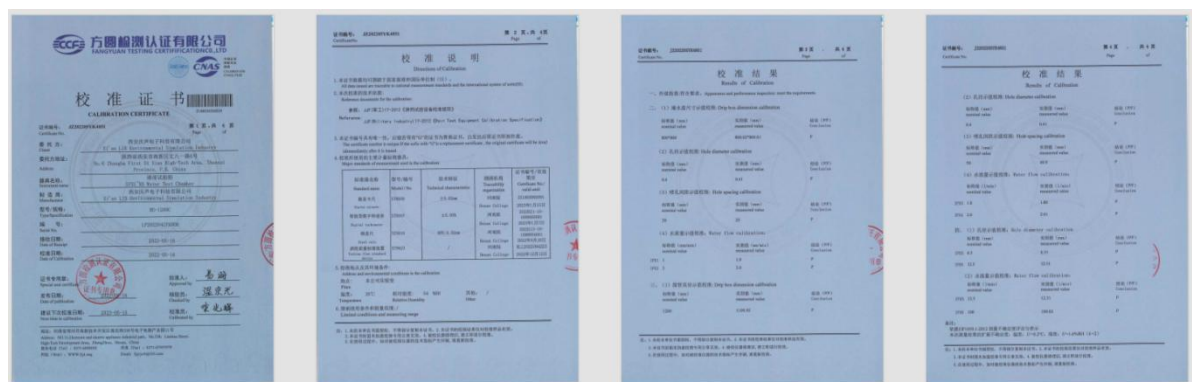
The calibration validity period of the test chamber is generally 1 year. During long-term use of the test chamber, there will be wear and tear, which may cause deviations in test points. In order not to affect the test data, it is necessary to recalibrate and debug. Achieve uniform standards.

Calibration Items

Nozzle Diameter

Water Flow

Turntable Diameter



7. Packing

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



Documentation attached with the packing:

- Warranty Card;
- Certificate of Qualification;
- Inspection Report, issued by LIB (manufacturer);
- Operation Manual;
- Circuit diagram.

8. Shipping

By sea
 Port of departure: Shanghai, China
 Free send to any city or port in mainland China



9. Installation

Before the delivery, we will finish the machine production, installation, commissioning and calibration. And send the finished the picture or video to you for inspection. Besides, We will shoot the installation video for your reference step by step.

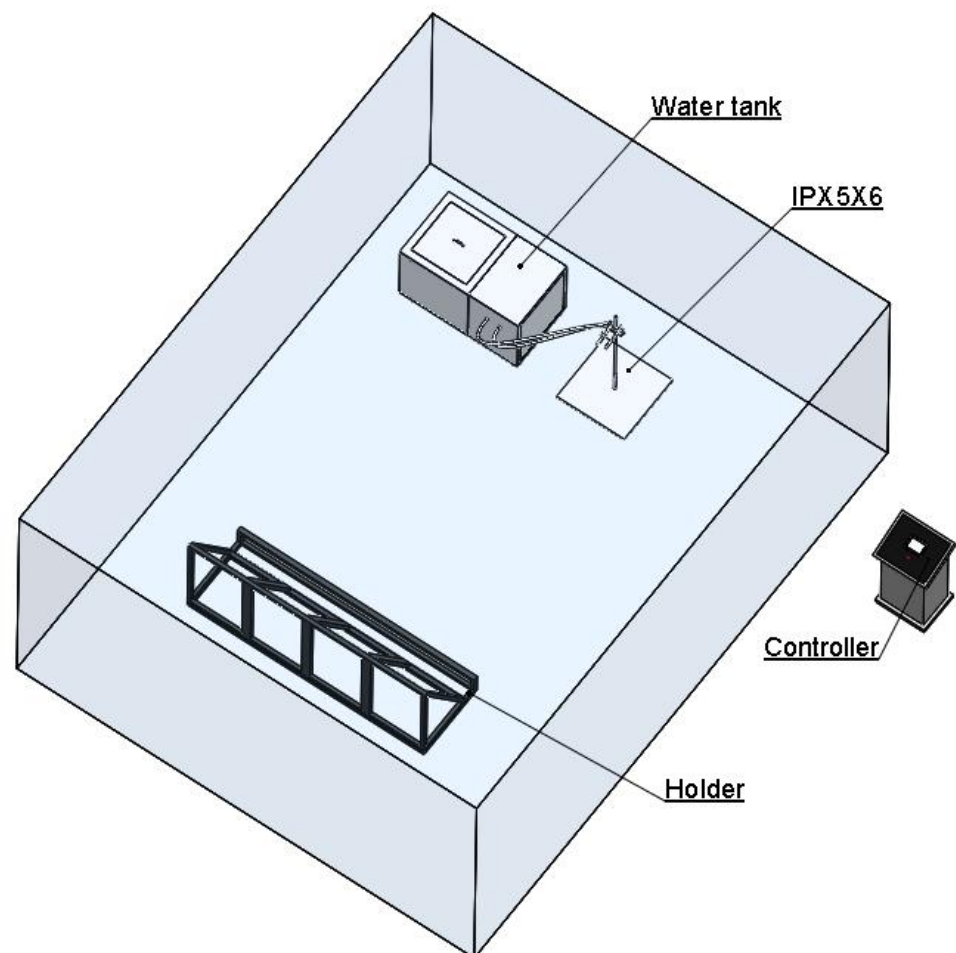
The Condition required as below,

■ Environment Conditions

- ✧ Temperature: +5°C ~ +45°C
- ✧ Relative humidity: ≤90%;
- ✧ Pressure: 86 KPa—106 KPa

■ Space Requirements

- ✧ Water-proof treatment for your lab room's wall floor...
- ✧ Drainage system
- ✧ Prepare Water source: water tap
- ✧ Prepare Power source: 220V 50Hz 1P



10. Warranty & Service

3 Years Warranty Lifelong Follow-up Services

We have a professional after-sales team, if you have any questions during operation, we will supply solutions to you with **24** hours.

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 labor costs is free always.

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.



Response within 12 hours



Online Service



Teach through Video



**Engineers On-site installation,
Commissioning, training**



On-site repair and Maintenance



Produce a new chamber

11. More Option

Item	Photo
IPX1X2 Water Drop Test Chamber	 
IPX3X4 Water Spray Test Chamber	 
IPX5X6 Water Jetting Test Chamber	 
Combine IPX1X2X3X4X5X6 Water Test Chamber	 
IPX7X8 Water Immersion Tank	 
IPX9K High Temperature and Pressure Water Test Chamber	 
No housing type - IPX1 to IPX6	 

12. Successful Case

- Standard Bank
Testing lab



Built a complete IP test lab



- Apple Inc.
Computers and Electronics Manufacturing



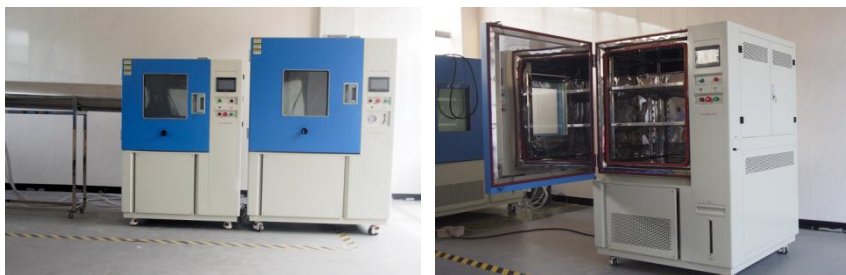
IPX5 IPX6 Water jetting test chamber x 3
IPX9K water chamber
Temperature humidity test chamber x 3



- SGS
Testing, inspection and certification



Dust Test Chamber DI-1000
Rain test chamber RD-800C
Temperature humidity test chamber TH-800B



- Siemens
Energy



Walk in temperature test chamber T-040A
Walk in drying oven O-0015B
Temperature humidity test chamber x6



- HALCON
leader in design and production of munition



MIL-STD-810H Dust chamber DIM-1000
MIL-STD-810H Rain chamber RIM-0120



- Nidec Japan
Testing, Inspection and
Certification solutions
Customized Temperature Test Chamber model T-1000BR
Customized Temperature Test Chamber model TR3-500B



13. Company profile

Xi An LIB Environmental Simulation Industry manufactures and sells environmental test chambers since 2009, including design, manufacturing, as well as sales and service around the world.

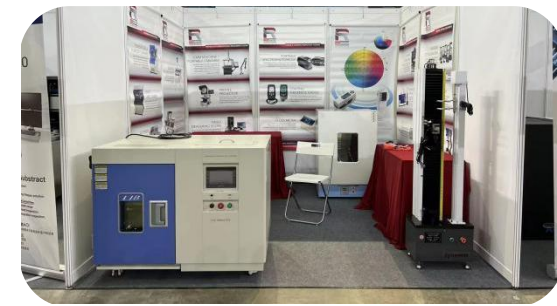
LIB's comprehensive products include temperature and climate chambers, corrosion test chambers, dust and water IP test equipment, weathering chamber and special test chambers to fit the customer's application. Standard and customized models let you choose size, configuration and performance to suit many types of environmental test conditions. All LIB products have passed CE and ROHS certification, as well as other national certifications.

LIB Industry concentrates on providing the Turn-key solution for environmental testing, that research, design, producing, commissioning, delivery, install and training, provide the whole products and service according to customer's requirements.

By 2023, our market has spread to 56 countries around the world, and the market continues to expand. We have first-level agents in 26 countries around the world and 6 dedicated service centers.

Regarding service, LIB Industry provides 3 years warranty and lifelong follow-up services. In order to ensure that the customer has a timely and effective solution to the after-sales, LIB's after-sales service center and local service center work together to serve customers around the world.

The companies and universities choosed the LIB environmental chambers for testing and scientific research.



LET US HELP YOU!

Tell us about your requirements and environmental test application, we can provide solutions for you, to make a standard test chamber or design a custom chamber for you.

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