



# XI'AN LIB ENVIRONMENTAL SIMULATION INDUSTRY

Climatic Test Chamber Manufacturer and Supplier

## IPX8 Water Immersion Tank Model R78-1000



### Technical Parameter

- ◆ Useful volume: Diameter 1000mm, Height 1500mm.
- ◆ Material is steel plate, wall thickness 2cm
- ◆ Water depth pressure range 1~100m, adjustable
- ◆ Automatic water supply
- ◆ Have air compressor inlet, water supply inlet and outlet
- ◆ Programmable color touch screen type controller, display temperature, specimen surface temperature, water depth, run time.
- ◆ Open/close lid by pneumatic lift, with safety lock.
- ◆ Seamless welding technology
- ◆ Equip with pressure sensor, temperature sensor
- ◆ Comply with IEC60529 IPX7 IPX8 water tests



## TESTING REQUIREMENTS OF IEC60529 IPX7X8

### 14.2.7 Test for second characteristic numeral 7: temporary immersion between 0,15 m and 1 m

The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied:

- a) the lowest point of enclosures with a height less than 850 mm is located 1 000 mm below the surface of the water;
- b) the highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water;
- c) the duration of the test is 30 min;
- d) the water temperature does not differ from that of the equipment by more than 5 K. However, a modified requirement may be specified in the relevant product standard if the tests are to be made when the equipment is energized and/or its parts in motion.

### 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement

Unless there is a relevant product standard, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe than those prescribed in 14.2.7 and they shall take account of the condition that the enclosure will be continuously immersed in actual use.

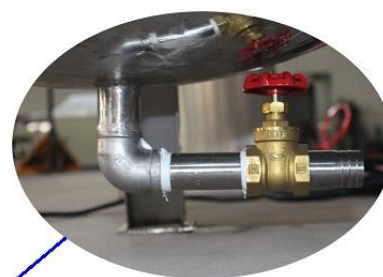
## DETAILS CONSTRUCTION FOR IPX7X8 WATER IMMERSION TANK

### 1. Where is the water inlet ?



It's "Water Inlet hole".  
When you begin to test, please open this valve, connect tube from faucet to here, and add water into tank automatically.

### 2. Where is the water outlet ?



It's "Water outlet hole".  
When you finish testing, please open this valve, water will flow out automatically.

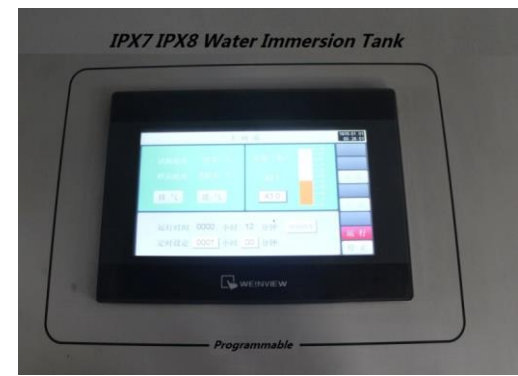


### 3. About the controller

Programmable Color Touch Screen Type

Display Temperature, Sample Surface Temperature, Water depth, Run time

Interface with English language



### 4. About the sensors

Equip with pressure detecting sensor, temperature sensor.

Pressure sensor with high accuracy and anti-interference

Pressure sensor with temp compensation function

Modular design, Integrated stainless steel structure

Temperature sensor with nichrome PT-100 A class sensor

Temperature accuracy to 0.01° C



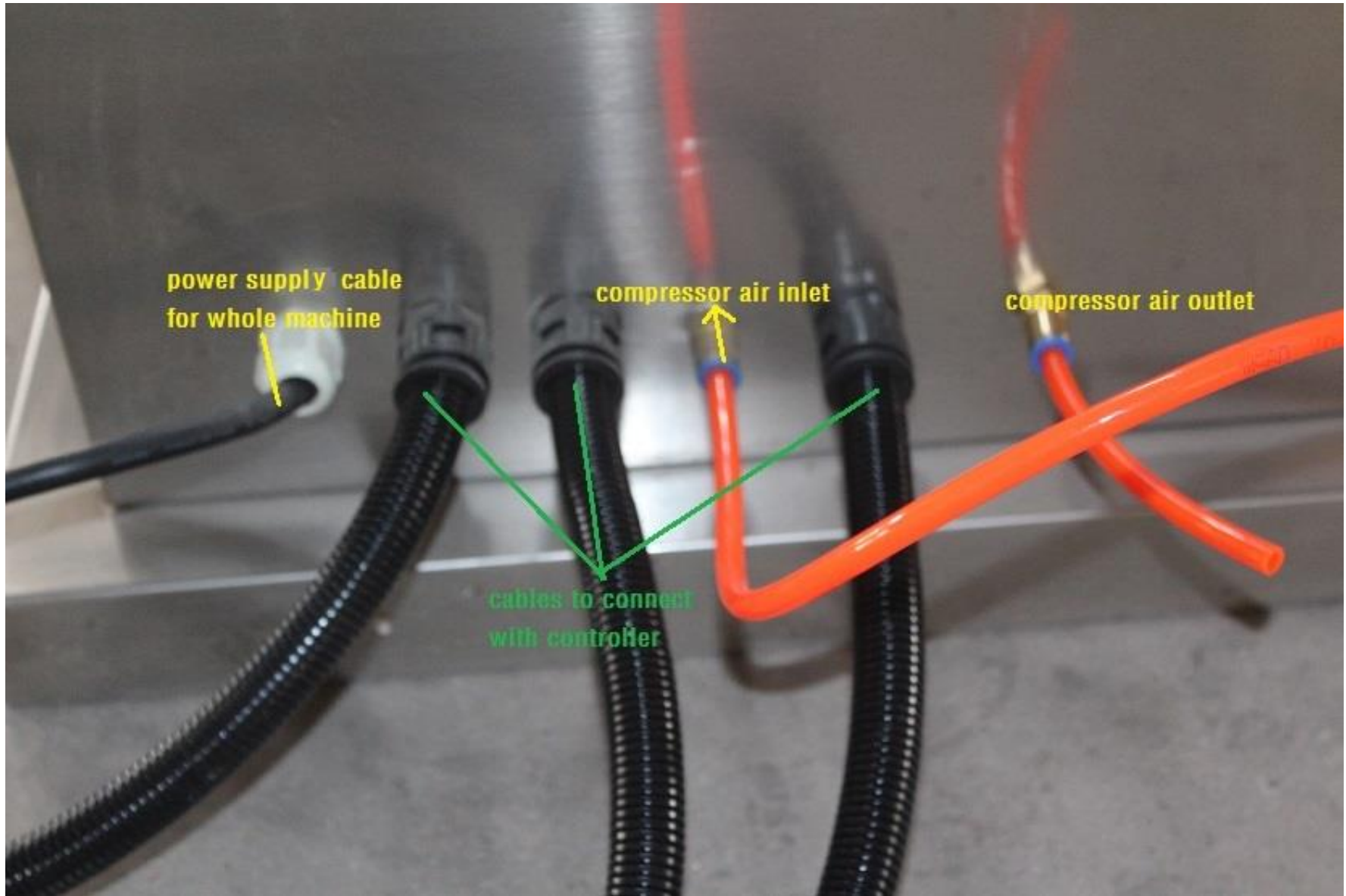
### 5. Detail Construction:

Immersion tank + controller (all circuit systems inside of controller cabinet)





Controller back view and its ports:



On the tank top:





Inlet & outlet on immersion tank body:



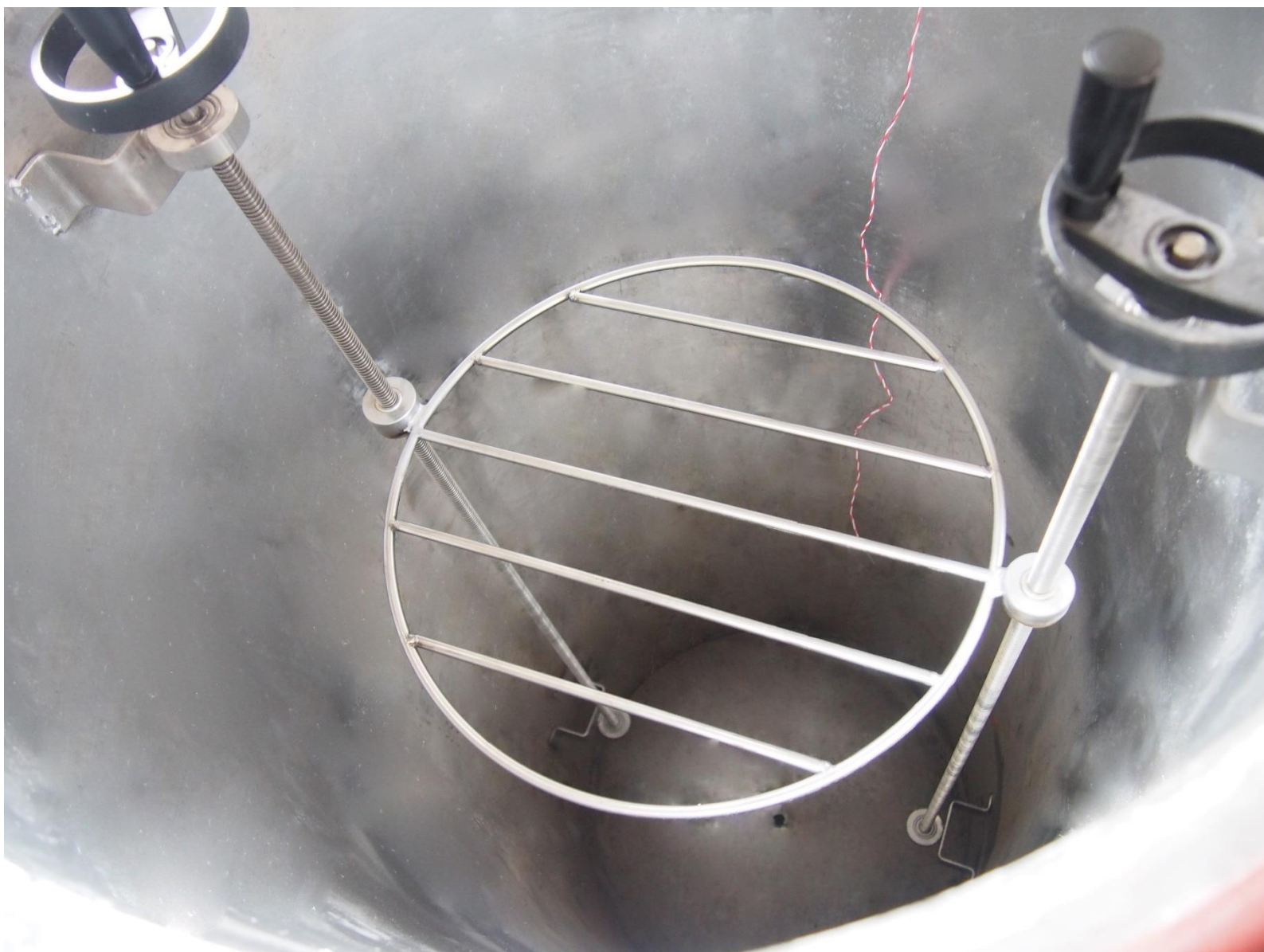


On the tank bottom



Inside view: directly put inside of chamber, or hanging samples on the holders.

The diameter and height of immersion tank can custom-made according to sample size.





## Shipping & Packaging

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.

### 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 SO2 H2S 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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## LIB Industry®

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# CE ROHS

