

IPX7X8 Immersion Test Tank

Technical Data

I. Product Name	IPX7X8 Immersion Test Tank
II. Product Model	ACE-IPX7X8-500
III. Equipment Reference Drawings	 For reference only, the actual product shall prevail.
IV. Equipment Overview	Application areas: outdoor lighting, home appliances, automotive parts and other electronic and electrical products. Equipment Function: The main function of this equipment is to test the physical and other related properties of electronic and electrical products, lighting fixtures, electrical cabinets, electrical components, automobiles, motorcycles and their parts under simulated marine environmental conditions. After testing, the performance of the products is verified to determine whether they meet the requirements, so as to facilitate product design, improvement, verification and factory inspection.
V. Implementation Standards	It complies with the requirements of IEC60529:1989+A1:1999+A2:2013 "Degrees of protection provided by enclosures (IP Code)", GB4208-2017 "Degrees of protection provided by enclosures (IP Code)" Clause 14.2.8 and GB7000.1 "Luminaires - Part 1: General requirements and tests" Clause 9.2.9.

VI. Equipment Features

1. The entire equipment is made of SUS304# stainless steel.
2. Special PTFE silicone sealing rings are used.
3. All electrical control components are imported from Schneider Electric, France.
4. The pressurization method is air injection pressurization, with a maximum test pressure simulating up to 100 meters. The equipment is equipped with one safety valve (mechanical type).
5. A pressure sensor is used to detect the test pressure and has a pressure stabilization effect; if the pressure inside the tank exceeds the limit, the safety valve will automatically open to drain the pressure.
6. The control system includes an emergency stop button (pressing the emergency stop button automatically releases the pressure to 0 meters).
7. Supports two test modes, which users can choose according to their testing needs:

Standard Test: The water pressure value and test time can be directly set. The timer starts when the water pressure inside the tank reaches the set value; an alarm will sound after the test.
8. Test time setting unit: minutes.

VII. Technical Specifications

Structural parameters

External dimensions	Approx L600*W780*H1750mm
Internal dimensions	Approx 500mm in diameter * 1200mm in height
Tank wall thickness	8mm
Tank material	304 stainless steel
Flange thickness	30mm
Flange materials	stainless steel
Equipment weight	Approx 450KG

Functional parameters

Pressure control method	Automatic control (gas injection and pressurization method)
Control accuracy	±2 m (automatic)
Test water depth range	5-100 m
Pressure adjustment	0.05—1.0Mpa

	range	
	Safety valve exhaust pressure	1.1Mpa
	Maximum pressure	1.2Mpa
	Test time setting range	0-999 min
	Protective devices	Residual current circuit breaker, pressure relief valve protection, two mechanical pressure relief valves, manual pressure relief switch, and emergency stop button.
	Electrical parameters	
	Voltage	220V
	Power	100W
VIII. Accessories	1. One Instruction manual; 2. One Certificate of conformity; 3. One Equipment warranty card;	
IX. Usage Conditions	The user is responsible for ensuring the following conditions are met and completing the corresponding connection.	
9.1 Site Requirements	1. The ground is level, with unobstructed drainage; the ground and walls are waterproofed, and floor drains or drainage ditches are installed. 2. The ground load-bearing capacity is not less than 500 kg/m ² . 3. The site is well-ventilated. 4. There is no strong vibration around the equipment. 5. There are no flammable, explosive, corrosive substances or dust around the equipment. 6. Sufficient space is provided around the equipment for use and maintenance. 7. Rear, left, right, and top sides of the equipment: 600 mm; Front side of the equipment: 1000 mm.	
9.2. Environmental Conditions	Temperature: 5°C~35°C Relative Humidity: ≤85% Atmospheric Pressure: 86kPa~106kPa	
9.4 Power Supply Conditions	220V power supply voltage	
9.5 Water source conditions	purified water	
9.6 Gas Source Conditions	Users should provide their own air compressors. Recommended output air pressure: 0.8Mpa—1.2Mpa.	