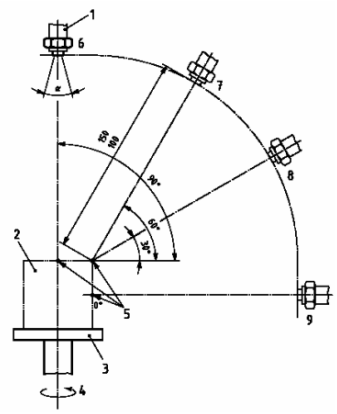
ACE TECHNOLOGY
Http://www.ace-climatic.com
TEL: 0086-29-85451431
XI'AN BRANCH: No.108, South Zhuque Street, Xi'an
NINGBO BRANCH: Century Square, South Liberation Road, Ningbo

ISO20653 IPX9k High Pressure Waterproof Test Chamber
Technical Data

I. Product Name	IPX9k High Pressure Waterproof Test Chamber
II. Product Model	ACE-IPX9K-1000
III. Equipment Reference Drawings	 **For reference only, the actual product shall prevail.**
IV. Equipment Overview	General Application Areas: 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 vehicles such as buses, public buses, tractors, and motorcycles, as well as their components, under high-pressure/steam jet cleaning conditions. After testing, the performance of the products is verified to determine whether they meet the requirements, facilitating product design, improvement, verification, and factory inspection.
V. Standards	It conforms to the requirements of the international standard ISO 20653:2006-08-15—Road vehicles—Degrees of protection (IP code)—Electrical equipment—Protection from external objects, water and contact, as shown in Figures 8 and 9 and Table 7, for the waterproof rating of IPX9K.
VI.Equipment Features	1. Suitable for IPX9K waterproof rating testing of products. 2. The outer shell is made of high-quality domestic steel plate with a baked enamel finish, making it aesthetically pleasing and durable. 3. The inner chamber and turntable are all made of SUS304# stainless steel, ensuring rust-free operation over long-term use. 4. Box-type structure; built-in water tank for water recycling; the water tank is equipped with a level sensor for automatic water intake control and a low water level alarm to effectively prevent the water pump from running dry and being damaged. 5. The door has a transparent observation window (tempered glass), and the chamber is equipped with LED lighting for easy observation of the internal testing process. 6. Four fan-shaped nozzles are evenly distributed within a 90° vertical angle on the right side of the chamber, designed and manufactured strictly according to standards.



图解

1 扇形喷嘴	6 位置 1
2 在试设备	7 位置 2
3 转台	8 位置 3
4 旋转轴	9 位置 4
5 参考点（0°、30°、60°、90°）在试设备的背书气缸	

图 9 – 用于确定高压/蒸汽喷射清洗、防水等级 9K 的试验装备

7. Water flow rate and temperature can be set via the touchscreen.controller

8. Turntable drive: Uses a high-quality domestic stepper motor; speed and angle can be set on the touchscreen (adjustable), with precise stepless adjustment within the standard range.

9. This test chamber uses an original Italian imported water pump, resistant to high temperature and pressure, suitable for long-term use, and with stable performance.

10. Test time can be set on the touchscreen; the setting range is 0-999 minutes (adjustable).

11. The core control system uses a 7-inch touchscreen; electrical components are imported brands such as Schneider Electric and Omron; wiring meets national standards; the circuit board layout is reasonable; wiring is secure; and labeling is clear.

VII. Technical Specifications

Structural parameters	
Internal dimensions	L1000*D1000*H1000 mm
External dimensions	L1400*D1300*H2050 mm
Number of nozzles	4pcs
Nozzle hole angle	0°, 30°, 60°, 90° (vertical direction)
Nozzle distance	100-200mm (manually adjustable)
Sample turntable diameter	400mm in diameter

	Turntable lifting method	Adjustable
	Functional parameters	
	Water flow rate	14~16L/min
	Water supply temperature	Room temperature; 80±5℃ (temperature deviation can be agreed upon)
	Turntable load capacity	50kg
	Turntable rotation speed	4~10 r/min (precisely adjustable)
	Test time	120 seconds (30 seconds per position)
	Electrical parameters	
	Power supply	380V
	Equipment power	16.0KW
	Safety protection	Leakage protection, water shortage protection, short circuit protection
VIII. Accessories	1. One Instruction manual; 2. One Certificate of conformity; 3. One Equipment warranty card; 4.One water pipe (approximately 5 meters)	
IX.Usage Conditions	The user is responsible for ensuring the following conditions are met and completing the corresponding connection.	
9.1Site Requirements	The ground is level and well-drained; the ground and walls are waterproofed and equipped with floor drains or drainage ditches. The ground load-bearing capacity is no less than 200 kg/m². The site is well-ventilated. There is no strong vibration around the equipment. There is no strong electromagnetic field interference around the equipment. There are no flammable, explosive, corrosive substances or dust around the equipment. Sufficient space is provided around the equipment for use and maintenance: Rear, left and right sides, and top of the equipment: 800 mm; Front of the equipment: 1500 mm.	
9.2Environmental Conditions	Temperature: 5℃～35℃ Relative Humidity: ≤85% Atmospheric Pressure: 86kPa～106kPa	
9.3Power Supply Conditions		
Voltage, frequency	AC380V±10%; 50Hz±10%; Three-phase four-wire + protective ground wire	
Installed power	18.0kW	

Protective grounding resistance	The grounding resistance of the protective grounding wire is less than 4Ω
Power switch	1. Users are required to install a residual current circuit breaker (RCCB) of appropriate capacity at the installation site, and this circuit breaker must be dedicated to the use of this equipment. 2. Knife switches or power sockets are prohibited. 3. The RCCB must be located no more than 2 meters away from the equipment.
Water source conditions	1. Users are required to provide a water source for the equipment at the installation site, with a water pressure of not less than 0.2 MPa, and install a 4-point faucet. 2. The faucet should be located no more than 2 meters away from the equipment.

Reference image (for reference only):