TORONTECH

RAIN TEST CHAMBER
TORONIPX™ 123456

Rain Test Chamber ToronIPX™ 123456 is designed to evaluate products for IPX1 through IPX6 waterproof standards. Its exterior is crafted from high-quality domestic steel with a sleek, painted finish for enhanced durability and aesthetics.

Ideal for testing outdoor lighting, household appliances, automotive components, and various electronic and electrical products.

APPLICATIONS

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Standard Test

The Rain Comprehensive Waterproof Test Chamber IPX123456 adheres to the following standards:

1. **IEC60529:1989 + A1:1999 + A2:2013**: Degrees of Protection Provided by Enclosures (IP Code)
2. **GB4208-2017**: Enclosure Protection Level (IP Code), covering Clauses 14.2.1, 14.2.2, and Figure 3; Clauses 14.2.3 and 14.2.4, Figure 4; and Clauses 14.2.5 and 14.2.6, Figure 6
3. **GB7000.1**: Lamps Part — General Requirements and Tests, including Clauses 9.2.3 through 9.2.7, Figure 9.4, and Clause 9.5

This test chamber ensures compliance with rigorous waterproof and protection requirements for various applications.

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Structural Features

Inner and Outer Chamber Materials

The inner chamber is constructed with 1.2mm thick SUS#304 stainless steel and features a fully welded structure, ensuring excellent sealing and resistance to cracks.

The exterior is made from 1.5mm thick cold-rolled steel that undergoes brushing, polishing, and painting treatments, providing superior scratch resistance.

Insulation and Sealing

The chamber is insulated with 100mm thick polyurethane foam. The door seal uses double silicone rubber for a secure and durable fit.

Observation Window

The observation window consists of four layers of tempered glass, available in customizable sizes. To prevent frost during low-temperature operation, built-in heating wires ensure effective defrosting.

Electrical System

The circuit cabinet features a clean and professional layout, adhering to UK standards. It includes comprehensive circuit diagrams for easy reference. Each line is uniquely coded, clearly labeled, and easy to identify, simplifying troubleshooting and maintenance.

TECHNICAL SPECIFICATIONS

Chamber Specifications	Inner chamber size	W1700 × D1700 × H2000mm
	Outer chamber size	W2090 × D4220 × H2650mm
	Turntable diameter	Ø600mm
	Maximum load of rotary table	50kg
	Lifting height of rotary table	1000-1600mm (table top distance from bottom)
	Rotary table tiltable	0° or 15° (horizontal)
	Turntable speed	1-5r/min (precisely adjustable)
	Rotary table rotation mode	Always forward / alternating forward and reverse / intermittent rotation
	Flow rate adjustment	Manual adjustment of the flow rate by means of aflowmeterwith adjustment panel
	Testing time	0-999 min
	Total weight	500kg
IPX12 Parameters	Drip Rain Panel Area	1200×1200mm
	IPX12 spray hole size	Diameter 0.4mm
	Distance between drip holes	20×20mm
	Rainfall	1mm/min (IPX1); 3mm/min (IPX2)
	Raindrop plate lifting mode	Non-liftable (Fixed)
IPX34 Parameters	Oscillating tube radius dimensions	R800mm
	R800 Flow rate	2.3L/min ±5% (IPX3); 3.5L/min ±5% (IPX4)
	Water jet aperture size	0.4mm

Water jet aperture spacing	50mm	
Pendulum tube inner diameter	15mm	
Pendulum Angle	120° (IPX3), 350° (IPX4) or customized setting	
Pendulum swing speed	240° round trip 4S, 720° round trip 12S (precision control) or customized	
IPX56 Parameters	IPX5 water jet aperture	6.3mm
	IPX6 water spray aperture	12.5mm
	IPX5 water spray flow rate	12.5L/min ±5%
	IPX6 water spraying flow rate	100L/min ±5%
	Spray gun fixing method	Mechanical fixing (swing, fixed-point water spray)
Extra accessories	1. a copy of the operating instructions; 2. a copy of the factory certificate; 3. acopyoftheequipment warranty card; 4. 1 filter cartridge; 5. 200 test needles; 6. 6 meters of waterpipe(1)	
Use conditions	The user guarantees the following conditions and completes the correspondingconnection	
Site Requirements	The ground is flat, the drainage is smooth, the floor and wall are waterproofed, andafloordrain or drainage ditch is installed. Ground load capacity is not less than 200kg / □ Venue is well ventilated No strong vibration around the equipment No strong electromagnetic fields around the equipment No flammable, explosive, corrosive substances and dust around the equipment Appropriate use and maintenance space is left around the equipment: Back, left, right, top of the device: 800mm; front of the device: 1400mm	
Ambient conditions	Temperature: 5 ℃ □ 35 ℃ Relative humidity: ≤85% Air pressure: 86kPa □ 106kPa	

Power Requirements	Voltage, frequency	AC380V±10%; 50Hz±10%; Three phase
	Power	3kW
	Protective ground resistance	<4Ω
	Power switch requirements	1. The user is required to configure the equipment with a leakage protection air switchofthe corresponding capacity at the installation site, and this switch must be independent forthis equipment 2.It is prohibited to use the knife switch or power socket 3.The location of the leakage protection air switch not more than 2 meters fromthedevice
	Water source requirements	1. The user is required to configure a water source for the equipment at the installationsite,the water pressure is not lower than 0.2Mpa, and install a 4-point tap. 2. The faucet is not more than 2 meters from the equipment

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