



Presto Stantest Pvt. Ltd.

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IPX9 High-Pressure Water Jet Test Chamber



Model :IPX9

The IPX9 / IPX9K High-Pressure Water Jet Test Chamber is used to check how enclosures and electrical equipment hold up when exposed to very intense water conditions. It's designed to recreate situations like steam cleaning, pressure washing, or tough outdoor use, so you can verify compliance with IPX9 (IEC 60529) and IPX9K (ISO 20653 / DIN 40050-9).

This kind of testing is used for automotive parts, EV systems, outdoor electronics, lighting units, and industrial enclosures—basically anywhere water protection isn't optional but critical.

High-Pressure Water Jet Test Principle

In this test, the sample is hit with high-pressure water at elevated temperatures. The spray comes through a calibrated nozzle and is directed from different angles to mimic real-world conditions. After that, the enclosure is checked for any water getting inside, leaks, or any impact on how it performs. The system uses the following standards:

IEC 60529 – IPX9

ISO 20653 – IPX9K (Automotive)

DIN 40050-9





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Features

- Full Compliance with IPX9 & IPX9K Standards
- High-Pressure & High-Temperature Testing up to 100 bar and 80 °C
- Multi-Angle Spray System for realistic exposure simulation
- Motorized Rotating Turntable for uniform water impact
- Digital Control for precise test programming
- Rugged Stainless-Steel Construction for long-term reliability
- Advanced Safety Systems for operator protection
- Repeatable & Reproducible Results suitable for NABL / BIS labs

Typical Applications

- Automotive & EV connectors, sensors, ECUs
- EV battery packs & charging components
- LED luminaires & street lighting
- Electrical enclosures & junction boxes
- Industrial control panels
- Outdoor consumer electronics





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Specifications

• Parameter	Specification
Test Grade	IPX9 / IPX9K
Water Pressure	80 – 100 bar
Water Flow Rate	14 – 16 L/min
Water Temperature	Ambient to 80 °C
Spray Angles	0°, 30°, 60°, 90°
Nozzle Distance	100 – 150 mm
Nozzle Type	Standard IPX9/IPX9K stainless steel nozzle
Spray Duration	30 sec/angle
Turntable	Motorized, speed adjustable
Water Heating System	Integrated high-temperature heater
Safety Interlocks	Door lock, pressure relief valve
Power Supply	415 V AC, 3-phase, 50 Hz
Water Supply	Clean filtered water

