



Presto Stantest Pvt. Ltd.

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Rain Test Chamber



Model :RTC-IPX1-IPX6

The Rain Test Chamber is an enclosed environmental testing system designed to replicate rainfall conditions through accurate water distribution and spray configuration. It is constructed with a rigid, corrosion-resistant housing and a leak-proof interior designed to withstand continuous water exposure.

Presto Enviro rain test machine strategically positioned spray nozzles provide uniform rain simulation, supported by an integrated water circulation system. The chamber controls water flow, pressure, has a strong inspection hatch, and has adjustable mounts to secure test samples.

A rain test chamber is used to run tests under controlled water exposure, ensuring products can withstand real-world weather conditions. The systems work through the creation of constant rain patterns and they allow engineers to keep track of how the products respond to the water over time. They are widely applied in the automotive, electronics, aerospace, and construction sectors in which waterproofing is of paramount importance.

With the aid of such chambers, the weaknesses will be detected at a very early stage of designing, which will decrease the number of failures and recalls. They are also useful in enhancing the quality of the products since repeated testing of the products can guarantee the durability of the products to different levels of rainfall. The other significant advantage is that it meets the international standards which in most cases are mandatory in certifications.

Additionally, these machines save time and resources by simulating long-term weather effects in a short period. Their precise controls make it easy to replicate specific conditions repeatedly, ensuring reliable and accurate test results for research, development, and quality assurance.

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Drip Test (IPX1 & IPX2)

- Modular design drip tank mounted on top of the test chamber
- Drip test area: 800 × 800 mm
- Top access provided for easy maintenance and cleaning
- Drip nozzle pitch: 20 × 20 mm
- In-built water level control switch to regulate water fall rate
- Drip tank constructed with high-gauge SS 304 material with removable nozzles for easy maintenance

Oscillating Tube Test (IPX3 & IPX4)

- Oscillating tube mounted inside the test chamber with a diameter of 800 mm
- Spray nozzles spaced at 50 mm intervals with individual nozzle diameter of 0.4 mm
- Oscillating tube driven by a gear motor and integrated with a rotary joint
- Fixed angular limits provided for controlled oscillation
- Water flow rate and pressure controlled manually

Water Jet Test (IPX5, IPX6 & IPX6K)

- Water jet assemblies constructed using SS 304 material for corrosion resistance
- Nozzles integrated with pressure gauges and flow meters for accurate monitoring of flow rate and pressure
- Water jets connected with a 5-meter long flexible hose and mounted on an adjustable standalone tripod stand
- Stand and water jet assemblies are detachable for easy handling and storage when not in use
- Interchangeable nozzles provided:
 - 6.3 mm diameter for IPX5 and IPX6K tests
 - 12.5 mm diameter for IPX6 test

Turn Table

- Vibration-free rotating turntable with variable speed control system
- Stainless steel turntable of 300 mm diameter with a load-bearing capacity of 30 kg
- Manual height adjustment mechanism provided with maximum adjustment up to 585 mm
- Stainless steel joint-free feed-through shaft coupled between gear motor and turntable for smooth operation





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Water Circulation Pump

- Independent centrifugal mono-block pump provided for water circulation in IPX I to IPX4 test system
- Separate mono-block pump provided for water circulation in IPX5 to IPX6 test system
- CPVC piping with inline water filter and regulating valves for efficient and reliable operation
- Analog flow meter with ON/OFF control provided for IPX I and IPX2 tests

Instrumentation and Control

- Colour touch screen controller based on high-performance core hardware with integrated functionalities
- Front panel designed with IP66 protection for enhanced durability in harsh environments
- Equipped with USB host port, on board 4 GB flash memory, 512 MB RAM, and real-time clock
- 7-inch resistive analog touch screen for easy monitoring and operation
- Web server access enabled for remote monitoring and control via PC
- USB host port allows direct transfer of log files, program data, and reports to external storage devices (USB drives)
- Controller supports up to 20 programs, each with 20 segments for flexible test profile configuration
- User-friendly interface for creating and managing customized test sequences

