

Water Ingress Tester



The Water Ingress Tester is a precision system for applying controlled water sprays and jets in accordance with IP test standards including IPX3 & IPX4. It is built with a durable, non-reactive structure designed to manage high moisture exposure without leakage.

Presto Enviro water ingress test equipment is equipped with accurately constructed spray and jet nozzles configured to deliver defined water patterns and angles. A stable water supply and pressure regulation unit keep test samples safe along with a robust, clear viewing window and adjustable internal mounting fixtures.

Presto Enviro is a leading water ingress tester manufacturer and supplier in India. For the best price, contact us for a quote or call now!

Key Features

- Adjustable spray pressure (0.1–0.5 MPa) and flow rate for simulating light to heavy water exposure.
- Multi-angle nozzles with rotating or tilting platforms for uniform water distribution.
- PLC or touchscreen control with programmable cycles, spray patterns, duration, and intervals.
- Water temperature control to simulate environmental conditions (10–60 °C).
- Corrosion-resistant SUS 304 stainless steel chamber and tank construction.
- Closed-loop water circulation with filtration and automatic drainage to prevent nozzle clogging.
- Compliance with IPX3–IPX6, IEC 60529, ISO 20653, and JIS D 0203 standards.
- Integrated safety systems: leak detection, emergency stop, door interlocks, and observation window.
- High-precision monitoring of flow rate, spray angle, and platform rotation for reproducible results.

Technical Specification

Specification	Details
Spray Angle	IPX3: vertical dripping at 60° from vertical; IPX4: water spray from all directions, 360°
Water Flow Rate	IPX3: 1.0-1.2 L/min; IPX4: 1.5-1.9 L/min
Oscillation/Rotation	Rotating platform 360° for uniform exposure; adjustable speed 1-4 rpm
Spray Distance	1.5-2.0 m (IPX4 jet simulation)
Turntable/Specimen Table	Diameter 300-500 mm, height adjustable for devices of different sizes
Water System	Closed-loop circulation with fine filtration; automatic drainage to prevent overflow
Control System	PLC or touchscreen for programmable cycles, spray patterns, flow rate, and test duration
Water Temperature Range	Ambient to 60°C (simulating rain at different environmental conditions)
Safety & Monitoring	Leak detection sensors, emergency stop, observation window, door interlock
Compliance/Standards	IEC 60529 (IPX3-IPX4), ISO 20653, JIS D 0203, relevant product-specific IP testing