IPX7 & IPX8K Water Ingress Protection



Model:IPX7 & IPX8

The IPX7 & IPX8 Water Ingress Test Chamber is designed to evaluate the resistance of enclosures, electrical and electronic equipment against water ingress under temporary and continuous immersion conditions.

The system complies with IPX7 and IPX8 requirements as defined in IEC 60529, ensuring reliable and repeatable testing for consumer electronics, automotive components, lighting fixtures, EV parts, medical devices, and outdoor equipment.

The chamber allows precise control over immersion depth, test duration, and water conditions, making it suitable for both type testing and routine quality assurance.

Test Standards Covered

- IEC 60529 - Degrees of Protection (IP Code)
- IS 12063 - Indian equivalent of IEC 60529
- ISO/customer-specific immersion test protocols (on request)

Test Capability

- IPX7 - Temporary Immersion
- Immersion depth: I meter below water surface
- Test duration: 30 minutes
- Purpose: Protection against accidental immersion

IPX8 - Continuous Immersion

- Immersion depth: As specified by manufacturer (typically > I m)
- Test duration: As agreed between manufacturer and test lab
- Purpose: Long-term or continuous immersion protection

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NABL

Key Feature

- Dual Compliance: Single system for both IPX7 and IPX8 testing
- Robust Stainless-Steel Construction for long service life
- Precise Immersion Control ensuring repeatable and accurate tests
- Customizable Depth & Duration for IPX8 manufacturer-defined tests
- User-Friendly Operation with digital timer and controls
- Corrosion-Resistant Fixtures for secure sample mounting
- Low Maintenance Design suitable for continuous lab usage
- Optional Data Logging & Automation for NABL / BIS labs

Application

- Mobile phones & wearable devices
- LED luminaires & outdoor lighting
- Automotive connectors & sensors
- EV battery enclosures & control units
- Medical electrical equipment
- Consumer appliances & industrial electronics

Technical Specification

Test Type	Water immersion – IPX7 & IPX8
Immersion Tank Material	SS 304 / SS 316 (corrosion-resistant)
Tank Capacity	Customizable (100 L to 1000+ L)
Max Immersion Depth	Up to 2 m / customizable
Water Temperature	Ambient to 40 °C (optional heater)
Water Quality	Clean tap water / de-mineralized (optional)
Timer	Digital programmable timer
Depth Control	Fixed / adjustable platform or suspension system
Sample Mounting	Non-corrosive fixtures
Control Panel	Digital / PLC-based (optional)
Safety Features	Overflow protection, emergency stop
Power Supply	230 V AC, 50 Hz (or as required)