



FIRE SPRINKLER SYSTEM TESTING EQUIPMENT

Fire Sprinkler System Testing Equipment

Automatic fire sprinkler systems are among the most effective and widely mandated means of life and property protection in buildings worldwide. The reliable performance of every sprinkler head — from thermal actuation accuracy and hydraulic flow characteristics to mechanical durability and water distribution uniformity — must be verified through rigorous testing before any product reaches the market.

Our comprehensive Fire Sprinkler System Testing Equipment range covers the complete scope of sprinkler qualification test methods as defined in ISO 6182, EN 12259, NFPA 13, UL 199, FM 2000, and equivalent national standards. From individual sprinkler head characterisation to full-scale fire extinguishing performance, our apparatus support manufacturers, approval laboratories, and standards bodies in delivering compliant, trusted products to the global fire protection industry.

APPLICATIONS

Applications & Industries

Our sprinkler testing systems are deployed across a wide range of organisations and applications:

- Sprinkler Manufacturer Laboratories: R&D validation, production QC, and global type-approval test programs
- Third-Party Testing & Certification Laboratories: independent product evaluation for FM Approvals, UL Listing, CE Marking, and national equivalents

- Fire Safety Regulators & Approval Authorities: market surveillance and enforcement testing
- Insurance Underwriters: product qualification in support of property insurance acceptance programs (e.g. FM Approved)
- Research & Standards Development: university and standards body laboratories developing next-generation suppression technology and test methodology
- Sprinkler System Installers & Inspection Services: performance verification of new products and periodic system checks

FEATURES

Why Choose Our Fire Sprinkler Testing Equipment?

Our Advantage	What That Means for You
Global Standards Coverage	Apparatus individually designed to address ISO 6182, EN 12259, NFPA 13, UL 199, FM 2000, and corresponding regional standards — a single supplier for your entire sprinkler approval test program.
Thermal Actuation Precision	High-stability temperature-controlled baths (water, oil, and air) and dynamic heating rigs provide the accuracy required for Response Time Index (RTI) determination and static activation temperature verification.
Full-Scale Fire Performance Capability	Our real-scale wood crib fire extinguishing tester enables full-scale suppression performance evaluation in accordance with EN 12259 and ISO 6182 fire test protocols.
Flow Measurement Accuracy	Calibrated flow measurement systems deliver precise K-factor determination and water distribution mapping — critical data for product classification and hydraulic system design.
Laboratory Design Consultation	Beyond individual instruments, our team can assist in designing a complete sprinkler test facility — from room layout and water supply specifications to instrumentation selection and data management systems.
Proven Industry Track Record	Our sprinkler testing apparatus are in active use at certified testing laboratories and manufacturer facilities across multiple continents, with a documented history of supporting successful type-approval submissions.



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