



TORONTECH



# GAS FIRE EXTINGUISHER TESTING EQUIPMENT

# Gas Fire Extinguisher Testing Equipment

Gaseous fire extinguishing systems — employing agents such as CO<sub>2</sub>, FM-200 (HFC-227ea), Novec 1230, and inert gas blends — are the preferred total flooding suppression solution for data centres, server rooms, museums, archives, marine engine rooms, and other environments where water or powder-based systems are unsuitable. The performance and safety of every component in these systems, from high-pressure storage cylinders and directional valves to pressure regulators and signal feedback devices, must be verified against exacting standards before the system can be approved for installation.

The Torontech ToronFT™ Gas Fire Extinguisher Testing Equipment provides a comprehensive suite of 11 specialist tester covering the full scope of component-level qualification testing required by ISO 14520, EN 15004, NFPA 2001, and equivalent international and national codes. The range enables manufacturers, system integrators, and certification laboratories to test every critical sub-component with precision and confidence.

## APPLICATIONS

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### Applications & Industries

The ToronFT™ Gas Fire Extinguisher Testing Equipment is deployed across the following sectors:

- Gaseous Suppression System Manufacturers: component development validation, production QC, and type-approval test data generation

- Cylinder & Pressure Vessel Manufacturers: hydrostatic strength and re-qualification testing for high-pressure gas cylinders
- Valve & Actuator Manufacturers: performance characterisation and endurance testing of suppression system valves, check valves, and actuators
- Third-Party Testing & Certification Laboratories: independent component verification for ISO 14520, EN 15004, NFPA 2001, and national approval listings
- Data Centre & Critical Infrastructure Operators: verification testing of installed suppression system components during commissioning and re-qualification
- Fire Safety Engineering Consultancies: component performance data acquisition for system hydraulic calculations and design validation
- Marine & Offshore Sector: testing of fixed gaseous systems for vessel and offshore platform compliance (SOLAS, IMO MSC)

## FEATURES

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### Why Choose the ToronFT™ Gas Fire Extinguisher Testing Equipment?

| Our Advantage                       | What That Means for You                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| End-to-End System Component Testing | With 11 specialist apparatus covering every functional component of a gaseous fire extinguishing system — from cylinders and valves to pressure regulators, check valves, and signal feedback devices — the ToronFT™ range eliminates the need to source equipment from multiple vendors.                                   |
| Safety-Critical Pressure Testing    | High-pressure gas cylinders and relief devices demand tester with precision, safety, and traceability at their core. Our Component Overpressure and High Pressure Gas Pressure Testers are designed to operate at the elevated test pressures required by ISO 14520, EN 15004, and NFPA 2001 with full safety interlocking. |

| Our Advantage                      | What That Means for You                                                                                                                                                                                                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Valve & Relief Device Accuracy     | The One-Way Valve Opening Pressure Tester and Safety Relief Device Action Tester provide the controlled pressure ramp rates and high-resolution measurement needed to confirm that safety-critical devices operate within tight specification bands.                                         |
| Flow & Resistance Characterisation | Accurate modelling of gaseous suppression systems depends on validated component flow data. Our Local Resistance Loss Tester and Pressure Reducing Characteristics Testing Machine deliver the component-level data that feeds into system hydraulic calculations.                           |
| Standards Compliance               | All apparatus are configured to address the test requirements of ISO 14520, EN 15004, NFPA 2001, and equivalent national standards for gaseous fire extinguishing systems — supporting type approval for CO <sub>2</sub> , FM-200, Novec 1230, inert gas, and equivalent suppression agents. |
| Torontech ToronFT™ Assurance       | Every instrument is supported by calibration certificates, installation and commissioning service, operator training, and Torontech's dedicated aftermarket support program — ensuring your laboratory operates at the highest level of measurement confidence.                              |



**Torontech Inc.**

251 Consumers Road, Suite 1200  
Toronto, Ontario, M2J 4R3, Canada 🇨🇦

Phone: +1 416 368 2721 | Fax: +1 416 981 7652  
Email: [info@torontech.com](mailto:info@torontech.com)

**Torontech, LLC**

601 Brickell Key Drive, Suite 700  
Miami, FL 33131, USA 🇺🇸

Toll-Free: 1-866-383-7919  
Email: [sales@torontech.com](mailto:sales@torontech.com)

**Torontech ME FZE**

Meydan Grandstand, 6th Floor,  
Meydan Road, Nad Al Sheba,  
Dubai-261440, UAE 🇦🇪

Phone: +971 488 19252  
Email: [me@torontech.com](mailto:me@torontech.com)

