



# Corporate Profile

Special Hazards Fire Protection Systems

Version 1.0  
May 2026 release

## Director's Vision

**Our vision is to cement Rhinotek as a trusted partner in special hazards fire suppression and building service solutions - delivering engineered certainty where the risk is highest, across the UAE and wider GCC region.**

Special hazards environments demand a level of technical depth beyond conventional fire protection. We understand the importance of partnering with a trusted provider who appreciates the full picture – risk, compliance, engineering integrity and delivery. Our focus is on providing reliable, fully engineered suppression solutions that safeguard people, protect critical assets and ensure business continuity where the consequences of failure are highest.

### **Our guiding principles are:**

- Life Safety First
- Engineering Excellence in High-Risk Environments
- Innovation & Technical Advancement
- Compliance Without Compromise
- Long-Term Asset Protection

Through disciplined engineering, strategic global manufacturer partnerships and uncompromising quality standards, Rhinotek sets the benchmark for special hazards suppression delivery across the region.



## About Rhinotek - Special Hazards Division

Rhinotek's Special Hazards Division is a dedicated service solution provider owned, operated and headquartered in the UAE, focused entirely on engineered suppression systems for high-risk and critical applications across the UAE, GCC and global markets.


**Our foundation in special hazards fire protection is built on:**

- Over 30 years of experience in Australia, New Zealand, United Kingdom, Asia and the Middle East
- Dedicated special hazards design, supply, installation and commissioning capability
- Established global manufacturer relationships across HFC-227ea, FK-5-1-12, inert gas, CO<sub>2</sub>, foam and wet chemical systems
- On-site R&D and demonstration facility in Aljada, Sharjah – capable of live agent testing and system validation
- A structured quality framework with traceability from design through to post-commissioning maintenance

Our Special Hazards Division operates with a clear mandate: to provide the UAE market with access to high-performance suppression systems, underpinned by engineering rigour and technical accountability.



**100% EMIRATI  
OWNED AND  
OPERATED**

 **DESIGNED, INNOVATED &  
ENGINEERED IN AUSTRALIA**

# Suppression Systems We Deliver

Rhinotek delivers the full spectrum of special hazards suppression systems, designed, engineered and commissioned in accordance with NFPA, UAE Civil Defence and international standards.

## Clean Agent Suppression Systems:

- HFC-227ea (FM-200) – Total Flooding Systems
- FK-5-1-12 – Environmentally Preferred Clean Agent
- Inert Gas Systems – IG-541, IG-55, IG-100

## In Cabinet Trace Systems:

- Pre-Engineered and Engineered System Design
- Cylinder Banks, Manifolds, Selector Valves, Nozzle Engineering
- Third-party certified fully addressable fire alarm panels and detection integration

## CO2 Suppression Systems:

- High-Pressure CO2 – Local Application and Total Flooding
- Low-Pressure CO2 Bulk Storage Systems
- Industrial, Marine and Power Generation Applications
- CO2 Flooding for Turbine Enclosures and Switchrooms

## Foam Suppression Systems:

- AFFF, AR-AFFF and Fluorine-Free Foam (F<sup>3</sup>) Systems
- High-Expansion, Medium-Expansion and Low-Expansion Foam
- Bladder Tanks, Foam Proportioners and In-Line Induction
- Deluge Foam-Water Sprinkler Systems
- Foam Monitors and Fixed Foam Pourer Systems
- FMOC, FFFC and Tank Protection Solutions



#### **Water Mist Systems:**

- High-Pressure Water Mist — Total Flooding and Local Application
- Low-Pressure and Intermediate-Pressure Water Mist Systems
- Marine, Residential, Heritage and Machinery Space Applications
- NFPA 750 and IMO Compliant Systems

#### **Wet Chemical Kitchen Suppression Systems:**

- UL 300 & BS EN 17446 Listed Pre-Engineered Systems for Commercial Kitchens
- Cooking Appliance and Exhaust Plenum Protection
- Automatic Gas Valve Shut-Off Integration
- Service, Recharge and Maintenance Programmes

#### **BESS & Lithium-Ion Battery Fire Protection:**

- Battery Energy Storage System (BESS) Suppression Solutions
- Cell-Level and Cabinet-Level Detection and Suppression
- NFPA 855, UL 9540A, IEC 62933 and UAE Civil Defence Compliance
- Integration with BMS, EMS and Fire Alarm Systems
- Thermal Runaway Detection and Early Warning Gas Sensing

#### **Explosion Protection & Suppression:**

- Explosion Detection and Rapid Suppression Systems
- Flameless Venting and Explosion Isolation
- ATEX/IECEx Rated Equipment for Hazardous Areas

#### **Detection Systems:**

- Beam Detection
- Aspirating Smoke Detection



## Our Project Delivery Model

Rhinotek manages the complete special hazards project lifecycle — from hazard assessment and system design through to commissioning, certification and ongoing maintenance.

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### Our end-to-end delivery capability includes:

- Hazard Assessment and Risk Analysis
- Fire Engineering Review and System Design
- Technical Submittals, Hydraulic Calculations and Authority Coordination
- Equipment Procurement from Certified International Manufacturers
- Mechanical and Electrical Installation
- Local Agent Filling, System Charging and Pre-Commissioning Checks
- Discharge Testing and Commissioning Witnessing
- UAE Civil Defence Inspection Support and Certification
- As-Built Documentation and Handover Packages
- Scheduled Inspection, Testing and Maintenance (ITM)

Every project is managed under a structured quality framework ensuring technical integrity from design intent to operational readiness.

## Sectors We Protect

Special hazards environments require a specialist — not a generalist. Rhinotek brings focused expertise to the sectors where suppression system failure carries the highest consequence.

- Data Centres & Server Rooms
- Power Generation & Substations
- Battery Energy Storage Systems (BESS)
- Commercial Kitchens & Hotels
- Healthcare & Pharmaceutical Facilities
- Heritage & Museum Buildings
- Telecommunication Exchanges
- Oil & Gas Facilities
- Petrochemical & Refinery Plants
- Marine & Offshore Vessels
- Automotive Manufacturing
- Aviation Hangars & MRO
- Warehousing & High-Rack Storage
- Mining & Industrial Plant



## Compliance & Standards

All Rhinotek special hazards systems are designed, supplied and commissioned in strict accordance with applicable international and UAE regulatory frameworks.

STANDARD / BODY	SCOPE
<b>NFPA 12</b>	CO2 Extinguishing Systems
<b>NFPA 2001</b>	Clean Agent Fire Extinguishing Systems
<b>NFPA 11</b>	Low, Medium and High-Expansion Foam Systems
<b>NFPA 750</b>	Water Mist Fire Protection Systems
<b>NFPA 96</b>	Ventilation Control and Fire Protection of Commercial Cooking
<b>NFPA 855</b>	Standard for the Installation of Stationary Energy Storage Systems
<b>UL 300 / BS EN 17446</b>	Fire Testing of Fire Extinguishing Systems for Protection of Restaurant Cooking Areas
<b>UAE Civil Defence Requirements</b>	Authority Having Jurisdiction – all systems
<b>FM / UL / LPCB Approvals</b>	Third-party product certification
<b>IEC 62933</b>	Electrical Energy Storage (EES) Systems
<b>ISO 14520</b>	Gaseous Fire Extinguishing Systems
<b>IMO / SOLAS</b>	Marine and Offshore Suppression Requirements

## Our Target Clients

We partner with organisations that demand technical precision, regulatory certainty and dependable project execution in high-consequence environments.

### Rhinotek Special Hazards serves:

- Main Contractors and MEP Subcontractors
- Fire Protection Engineering Consultants
- Owners and Developers of High-Risk Facilities
- Government and Semi-Government Authorities
- Facility Management and Asset Owners
- Industrial and Commercial End Users
- International EPC Contractors
- Educational institutions
- Oil & Gas
- Healthcare Facilities

Our engagement model adapts to project scale, complexity and regulatory requirements — ensuring technical alignment at every stage of delivery.

## Our Competitive Advantage

Rhinotek combines deep technical expertise with a structured global supply chain to deliver compliant, commercially sound and reliable special hazards suppression systems.

### Our key differentiators include:

- Exclusive focus on special hazards — we are not a generalist fire protection company
- Established global relationships with Tier 1 suppression system manufacturers
- In-house fire engineering and design capability, including Authority Having Jurisdiction (AHJ)
- On-site R&D and live demonstration facility — unique in the UAE market
- Competitive procurement without compromising certification integrity
- Full technical documentation, submittal and BOQ compliance support
- Flexible supply-only or complete turnkey delivery models
- Post-commissioning ITM programmes with structured service agreements
- International experience — Australia, New Zealand, United Kingdom, Asia and the Middle East

Our integrated model reduces procurement complexity, strengthens compliance assurance and supports efficient delivery of engineered suppression systems from concept to certification.



## Mission Statement

**At Rhinotek, our mission is to protect lives and property by delivering technically engineered, fully compliant fire protection systems across the UAE.**

### We are committed to:

- Upholding international engineering standards in every system we deliver
- Maintaining strong global manufacturer partnerships
- Ensuring full regulatory alignment across all projects
- Delivering innovative, reliable suppression solutions for the most demanding environments
- Building long-term relationships founded on technical trust
- Contributing to safer built environments across the GCC and beyond

## Our Investment in the UAE

**Rhinotek is proudly 100% UAE-owned and operated.**

All personnel undergo structured training at manufacturer facilities across Australia, Europe and Asia, ensuring product-specific expertise and a deep, system-level understanding. This commitment to technical depth differentiates Rhinotek in a market where supplier knowledge is often limited to catalogue-level familiarity.

Our R&D and demonstration facility in Aljada, Sharjah provides a live environment for consultant engagement, system validation and authority familiarisation. Quarterly internal and third-party inspections ensure consistent quality across our global manufacturing network.

Our team comprises internationally experienced fire protection engineers, project managers and technical specialists — united by a shared commitment to delivering suppression solutions that perform when it matters most.

# Your Trusted Partner In Special Hazards Fire Protection

**rhinotek** 

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RHINOTEK – SUPPRESSION WITHOUT COMPROMISE  
PROTECTING LIVES. SECURING ASSETS. DELIVERING EXCELLENCE.

