



ZEX LTD

Fire Protection Systems.

ZEX LTD specialized in advanced firefighting systems, fire detection technologies, and certified equipment, all adhering to international standards.

Company Overview

At ZEX LTD, your safety is our mission. Operating across Saudi Arabia and Egypt, we specialize in state-of-the-art firefighting and fire detection solutions, delivering unmatched protection for people, assets, and critical infrastructure.

We operate to the world's most trusted standards: NFPA, FM Global, UL, VdS, and EN, ensuring that every project exceeds expectations — every time, everywhere.

| Safety beyond compliance. Excellence beyond expectation.

Our Specializations Include:

- High-Pressure & Low-Pressure Water Mist Systems
- Gas Suppression Systems (NOVEC 1230, FM-200)
- Traditional Firefighting Systems
- Fire Detection and Alarm Systems
- Certified Fire Extinguishers

Turnkey Scope of Work

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- The background of the slide is a detailed architectural floor plan of a residential unit. It includes rooms such as a Kitchen, Bathroom, two Bedrooms, and a Living Room. Various annotations like 'WINDOWS ABOVE SEE DETAIL', 'WINDOW BOX SEE DETAIL', and 'DEAD HILL' are visible. Dimensions and room numbers are also present. A large, light-colored pen is shown drawing a line across the plan, starting from the top left and extending towards the bottom right.
- Complete design & Engineering
 - System and hydraulic calculations
 - Supplying and installation
 - Testing & commissioning
 - European in-house training for teams and end users
 - Handover with documentation
 - Full maintenance for all systems
 - After-sales services



Water that
saves more
than
it sprays.



High-Pressure Water Mist

Maximum Protection. Minimal Water.

Our high-pressure water mist systems represent the pinnacle of modern firefighting technology. These systems atomize water into ultra-fine droplets, creating a larger surface area for heat absorption while using significantly less water than conventional systems.

The result is rapid fire suppression with minimal water damage—ideal for environments where protecting sensitive equipment is as crucial as extinguishing fires.

Applications:

- Data Centers
- Energy Plants
- Marine & Offshore Installations
- Commercial Kitchens

Advantages:

- Ultra-fine mist for rapid heat absorption
- Drastic reduction in water damage
- Safe for delicate environments

Benefits of Water Mist Systems



Our water mist solutions deliver powerful fire suppression while preserving your valuable assets. Using microscopic water droplets, these systems create cooling, oxygen displacement, and radiant heat blocking effects.



Minimal Water Damage

Uses up to 90% less water than conventional systems while maintaining superior firefighting effectiveness.



Rapid Cooling Effect

Prevents fire spread and protects structural integrity through immediate heat absorption.



No risk to individuals

Water mist is safe for humans



Small pipe diameters

Enables quick and easy installation



Washing out of flue gas

Improved air quality



Environmentally Safe

Pure water extinguishment with no harmful chemicals or residues. Safe for humans and equipment.



Three-Dimensional Coverage

Mist behaves similarly to gas, reaching hidden fire sources and cleansing air of smoke.



Environmentally friendly

Water is a natural extinguishing agent



No prior warning time

immediate activation after detection is possible



Solid-substance and liquid fires

due to the unique extinguishing properties of water mist

Low-Pressure Water Mist Systems

Economical

Our low-pressure water mist systems provide cost-effective protection without compromising on performance. Operating at pressures between 7-12 bar, these systems require less robust piping and components, resulting in significant cost savings during installation and maintenance.

Ecological

Using up to 90% less water than traditional sprinkler systems, our low-pressure mist solutions minimize water consumption and reduce potential water damage to buildings and contents, making them environmentally responsible choices for modern facilities.

Exceptional

Despite their lower operational pressures, these systems deliver outstanding firefighting performance. The water mist efficiently controls, suppresses, and extinguishes fires while cooling the environment to prevent re-ignition.

Applicable to a wide range of environments including commercial buildings, healthcare facilities, and hospitality venues, our low-pressure systems meet NFPA 750 and EN 14972 standards.



Gas Fire Suppression Systems

Our gas suppression systems provide invisible yet powerful defense for sensitive environments where water-based solutions are impractical. These systems discharge clean agents that leave no residue, protecting critical equipment while ensuring human safety.

Applications:

- Data & IT Centers
- Museums & Archives
- Healthcare and Laboratories

Advantages:

- No residue
- Equipment-safe and people-safe
- Environmentally responsible agents

Systems Offered:

- NOVEC™ 1230
- FM-200®

Our gas suppression systems discharge within seconds of detection, extinguishing fires at their inception. With zero ozone depletion potential and short atmospheric lifetimes, these systems meet stringent environmental regulations while providing superior protection.

Traditional Firefighting Systems



ZEX LTD offers comprehensive traditional sprinkler and water-based firefighting systems that combine time-tested reliability with modern engineering. These systems form the backbone of fire protection strategies for facilities where conventional solutions are most appropriate.



Wet Sprinkler Systems

Pressurized water constantly in piping for immediate discharge



Dry Systems

Air-pressurized piping for unheated areas where freezing is possible



Pre-Action Systems

Dual detection for environments where accidental discharge must be prevented



Deluge Systems

Open nozzles for simultaneous discharge across entire hazard areas

Our traditional systems are designed to meet NFPA 13 and NFPA 15 standards, with FM and UL approvals. They offer straightforward maintenance protocols while providing adaptable solutions for diverse environments from industrial plants to shopping malls.

Detection and Alarm Systems

Early warning is the cornerstone of effective fire protection. Our advanced detection and alarm systems identify fire threats in their earliest stages, providing critical response time that can mean the difference between a minor incident and a catastrophic event.

Detection

Advanced sensors identify smoke, heat, and gases at the earliest stages

Communication

Automatic transmission to monitoring stations and emergency services



Notification

Immediate alerts through audio-visual signals and integrated systems

Action

Automated system responses including suppression activation

Our systems meet NFPA 72 and EN 54 standards, with UL, FM, and VdS certifications. They feature scalable architectures that grow with your facility, remote monitoring capabilities, and integration with building management systems for comprehensive protection.



Fire Extinguishers



Maintenance Programs

We provide comprehensive maintenance services including regular inspections, testing, and recharging to ensure your extinguishers remain in optimal working condition throughout their service life.



Comprehensive Range

ZEX LTD offers a complete portfolio of fire extinguishers including Dry Chemical (ABC, BC), CO₂, Foam, and Water Mist types, ensuring the right solution for every fire classification from Class A through Class K fires.



Certified Quality

All our extinguishers are manufactured to meet or exceed NFPA 10 and EN 3 standards, with UL, FM, and CE certifications that guarantee performance when it matters most.

Applications:

- Offices
- Industries
- Marine
- Vehicles

Our Applications



ZEX LTD systems are engineered to fit critical environments across diverse sectors.



Buildings

Smart integration with minimal visual impact, easy retrofit



Hotels

90% less water usage than traditional sprinklers



Shopping Centres

Ideal for high-traffic, multi-floor areas



Data Centres

Non-disruptive suppression without server shutdown



Museums

Gentle protection for historic and irreplaceable artifacts



Healthcare

Compact, intelligent systems for critical reliability



Marine & Offshore

Rugged, water-efficient nozzles for all surface types



Aircraft Hangars

Fuel-safe, non-foam water mist for sensitive assets



Industrial Plants

Continued ventilation access even during fire



Tunnels & Metro

High-temp, confined-space fire protection



Rail & Transport

Compartmentalized solutions for passengers and engines

Our solutions adapt to your unique environment while maintaining optimal performance and safety standards.

Contact Information



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Our customer service team is available to assist you with product inquiries, technical specifications, and order processing. We look forward to serving your wood product needs with the quality and reliability that have made us the leading manufacturer in the region.