



Modern Waste & Recycling Fire Protection



EQUINOX WASTE MANAGEMENT FIRE SOLUTIONS

TESTED & CERTIFIED TO CONTAIN, CONTROL & SUPPRESS THERMAL RUN-AWAY

POWERED BY



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TOTAL DEFENSE AGAINST "ZOMBIE BATTERIES" & DEEP-SEATED WASTE FIRES

Detect. Target. Suppress.

The complete ecosystem for Waste & Recycling.

The Hidden Threat in Your Waste Stream

Waste and recycling facilities face an evolving threat. Hidden lithium-ion batteries ("zombie batteries") and deep-seated rubber or plastic fires burn hotter and faster than ever before. Traditional passive sprinklers often activate too late, and plain water runs off without penetrating the pile.

We don't just supply parts; we engineer a Total Defense Ecosystem to protect your people, plant, and permits.

1 - DETECT: See the Fire Before it Spreads. Standard thermal cameras struggle with hot machinery and exhausts. Our FCamX™ system uses advanced Infrared (IR) signatures to detect even semi-concealed fires in under 12 seconds.

- Zero False Alarms: Filters out "hot spots" like vehicle engines or flashing beacons.
- Total Visibility: Pinpoints the exact location of the thermal event, even in darkness.

2. TARGET: Force 50 Autonomous Water Cannons. Upon detection, our Force 50 robotic cannons automatically deploy, targeting the specific hazard zone with pinpoint accuracy.

- Massive Reach: Delivers suppression to high-risk areas up to 50 metres away.
- Remote Safety: Operators can override or manage the system safely from a distance using the ONE™ app or web interface, keeping personnel out of harm's way.

3. SUPPRESS: Beyond Foam & Water. We dose our systems with 3% Cold Fire® , a UL-listed, PFAS-free wetting agent.

Feature	Cold Fire® (Our Solution)	Plain Water	AFFF Foam
Cooling Power	Cools 21x faster than water, rapidly dropping heat below ignition points.	Moderate cooling; often evaporates before penetrating deep piles.	Traps heat inside; slower to remove thermal energy.
Penetration	Penetrates deep into baled waste and rubber to stop deep-seated fires.	High surface tension causes runoff; fails to reach the seat of the fire.	Sits on top; effective for surface pools but poor for 3D waste piles.
Environment	100% Biodegradable, PFAS-Free, and non-toxic.	Neutral, but high volumes of contaminated runoff can be hazardous.	Toxic: Contains "Forever Chemicals" (PFAS); costly clean-up & regulation heavy.
Li-ion Risk	Certified to encapsulate electrolyte spills and suppress thermal runaway.	Ineffective against thermal runaway; creates steam risks.	Limited cooling effect on battery cells.

Powered By



ONE AGENT. MULTIPLE DELIVERY METHODS.

From automatic robotic suppression to rapid manual response.

How Cold Fire® Works

Cold Fire® is an environmentally friendly agent that acts on two fronts simultaneously to kill fires that water alone cannot touch:

- 1. Rapid Cooling** (The Heat Thief): Cold Fire has an extraordinary capacity to absorb heat. It cools surfaces 21 times faster than water, removing the energy required for the fire to sustain itself. This is critical for lithium-ion thermal runaway.
- 2. Encapsulation** (The Fuel Lock): The agent creates a molecular "cocoon" around the fuel source—encapsulating hydrocarbons and electrolyte vapors to prevent re-ignition.



Automated Sprinkler & WaterMist

Our Equinox sprinkler and watermist systems are independently certified specifically for thermal runaway. Unlike plain water, Equinox sprinklers dosed with 3% Cold Fire prevent escalation to neighbouring waste piles and stop re-ignition.



Manual Intervention: Hose Reels

Rapid First Response: For manned facilities, our Cold Fire hose reels allow operators to attack incipient fires immediately. The dosing unit is built-in, meaning you get the power of a fire engine from a standard wall unit. Perfect for hot-works areas or picking lines.



Mobile Suppression

Mobile Power: For yards where hazards move, our certified heavy-duty wheeled & manual fire extinguishers bring high-capacity suppression to the incident and are suitable for first aid fire fighting.



Protect your team from the unique dangers of thermal runaway. The Li-ion Fire Intervention Mask (LFIM) is the only European solution certified to block lethal toxins like Hydrogen Fluoride and shield against explosive debris. Vacuum-packed for instant deployment, it ensures 15 minutes of safe air for evacuation or initial suppression.





THE FIRE FIGHTING ROBOT

The Avenger FIRE is a state-of-the-art remotely operated fire fighting robot

EQUINOX FIXED & PORTABLE LI-ION BATTERY FIRE SUPPRESSION SOLUTIONS

POWERED BY COLD FIRE



EQUIPRO

FIRE SAFETY PRODUCTS & SOLUTIONS

Consulting - Continuity - Control

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