

FIRETRACE[®]

POWER TO INNOVATE. FLEXIBILITY TO ADAPT.

FOOD PROCESSING PLANTS

Fire Protection Solutions

FIRETRACE, THE PROVEN CHOICE FOR FOOD MANUFACTURING, PROCESSING AND PACKAGING

THE PROBLEM

High and low voltage electrical systems, controls and equipment can be found throughout every modern food manufacturing, processing and packaging plant.

In many cases these electrical systems control lights, processes, HVAC, refrigeration, and machinery and equipment necessary to keeping production lines running and prevent food spoilage.

A fire can result in significant revenue losses. The cost to stop a line, make repairs, clean and decontaminate equipment and restart the line can result in tens or even thousands of dollars per day lost revenues and unscheduled downtime.

Some of the most common sources of electrical fires:

- ❖ Equipment failures
- ❖ Electrical arcing
- ❖ Faulty electrical connections/short circuits
- ❖ Overloaded circuit breakers
- ❖ "Temporary repairs" becoming permanent repairs

Consequences for an electrical equipment fire can include:

- ❖ Damage to machines and facilities
- ❖ Repair or replacement costs for damaged equipment
- ❖ Production line shutdown and restart costs
- ❖ Loss of income from unscheduled downtime
- ❖ Smoke-related contamination of food and process equipment
- ❖ Loss of customers due to inability to meet schedules
- ❖ Risk of employee injury or loss of life

THE FIRETRACE SOLUTION

The Firetrace system takes the fire detection and suppression inside the electrical risk area and prevents the spread of fire to the facility or neighboring equipment

By containing the damage to an individual electrical cabinet, damage is limited to that enclosure and the collateral damage often caused by traditional fire suppression is avoided. Firetrace in-cabinet fire protection systems act quickly in order to minimize damage and ensure the safety of your equipment as well as anyone in the vicinity.

FIRETRACE ADVANTAGES

-  - Highly reliable in harsh environments – tolerant of dirt, debris and temperature extremes
-  - Requires no electricity offering uninterrupted service 24/7
-  - Sounds alarm and can send an alert to your monitoring system
-  - Eliminates concern for false alarm or false discharge
-  - Provides immediate detection and delivery
-  - Allows for inexpensive installation, maintenance and recharge
-  - Tubing can easily be routed to virtually any location in the cabinet to provide fast, accurate detection



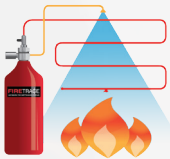
HOW IT WORKS

From localized fire protection for electrical equipment to total flooding fire protection for equipment rooms, Firetrace has a fire suppression system for you.



DIRECT RELEASE SYSTEMS

In Direct release systems, the tubing nearest the hottest point of the fire ruptures, forming an effective discharge "nozzle." The agent contained in the cylinder is then released in the immediate proximity of the fire.



INDIRECT RELEASE SYSTEMS

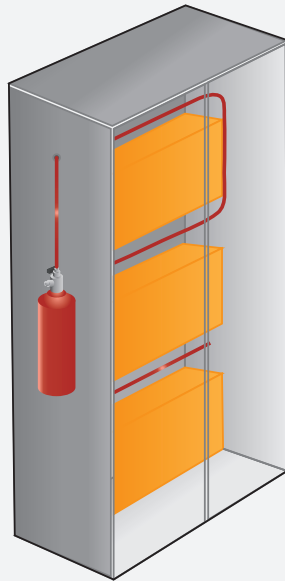
With an Indirect release system, the Firetrace tubing is used only for detection. When a fire causes the tubing to burst, a valve opens and the suppressant is discharged via a traditional distribution network and fixed nozzles.

FIRETRACE DETECTION TUBING

Firetrace Detection Tubing is ideal for fast, reliable detection of heat and flame even in the toughest applications.

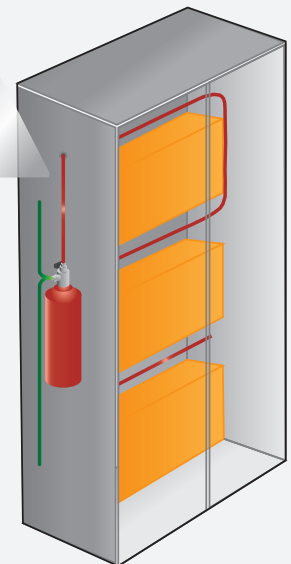
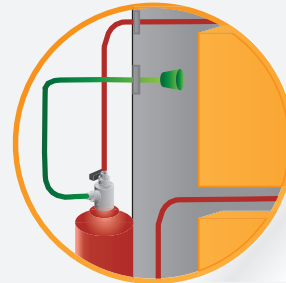


DIRECT SYSTEM



— Firetrace Detection Tubing

INDIRECT SYSTEM



- Firetrace Detection Tubing
- Discharge Piping
- Discharge Nozzle

FIRETRACE E4 TOTAL FLOODING SYSTEM

Firetrace also offers the industry leading E4 Engineered Clean Agent Total Flooding Systems, which are capable of protecting entire rooms. E4 systems take full advantage of 3M™ Novec™ 1230's unique characteristics which allows the use of lower-cost, low pressure equipment while achieving the performance of more costly high-pressure systems. E4 offers increased design flexibility and lower labor, piping and installation costs.

E4 systems can be sized for any room. The systems can be activated either manually or automatically. E4 systems are also available with FM-200 clean fire suppressing agent.



FIRETRACE®

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OVER 500 AUTHORIZED FIRETRACE DISTRIBUTORS WORLDWIDE

Providing hazard analysis, quotations, installations, service and support on Firetrace systems, to reliably and effectively protect your assets.

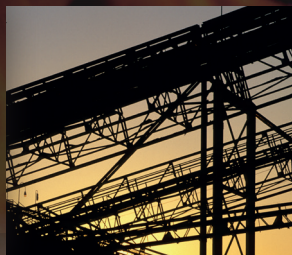
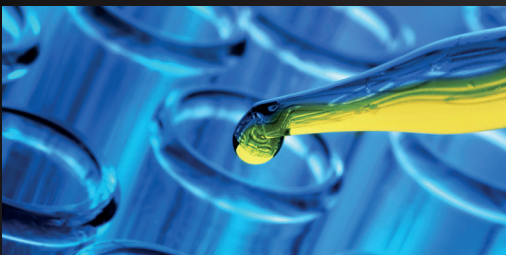
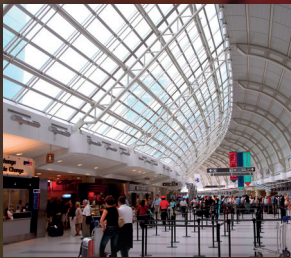
From the adaptable pre-engineered systems using the world-renowned Firetrace Detection Tube to protect critical equipment and enclosures to the innovative new E4 Engineered Systems providing a new level of flexibility in system design, Firetrace leads the world in special hazard protection.

Airports

IT Infrastructure

Mass Transit

Ports and Intermodal Facilities



Oil & Gas

Mining

Wind Energy

Military

Pharmaceuticals

A HALMA COMPANY

www.firetrace.com

Firetrace currently has more than 20 international approvals and listings, including UL, CE, FM, ULC & ISO9001. Approvals and listings vary by system type and agent.



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