

The background of the entire page is a photograph of an airport terminal. In the foreground, the silhouettes of two people and two pieces of luggage are visible against a large window. The person on the left is walking away from the camera, while the person on the right is standing next to two suitcases. Outside the window, the nose and cockpit of a large white airplane are visible. The lighting is dramatic, with the interior being dark and the exterior being bright, creating strong silhouettes.

**FIRETRACE**<sup>®</sup>

AUTOMATIC FIRE SUPPRESSION SYSTEMS

**AIRPORT**

Fire Protection Solutions



Today's passenger airports serve as far more than simple access to flights for air travelers. They also function as an unofficial silent ambassador or community gateway that provides a positive first impression for travelers visiting a new city, region, or country. Airports are now designed not only to facilitate travel, but also to impress visitors with modern conveniences that make a statement about the area in which they are located. However, these conveniences can add additional fire risks to a facility that inherently already has many risks to deal with.

## THE PROBLEMS OF AND RIPPLE EFFECT OF A FIRE

Many of the problems associated with fire are obvious; damage to facilities and loss of equipment are concerns in any building. However, due to the large number of people and the secure nature of airport terminals, even a small fire can have a major effect on operations. Even a small trash fire requires evacuation of travelers from the immediate area — and possibly the terminal — into either operations areas or areas outside the security zone. In both cases air operations will be affected, either by the presence of travelers, or the delays due to the necessary security re-screening. These delays can create a “ripple effect” for air travel into and out of the region and ultimately can affect other airports as well, resulting in major costs and inconvenience.

## TYPICAL AREAS PROTECTED

### ✦ Electrical cabinets

- Operations areas
- Runway lighting
- Passenger terminals

### ✦ Electronics

- Server racks and computer rooms
- Control tower systems
- Remote air guidance systems
- Telecommunications centers

### ✦ Vehicles

- Passenger transport
- Aircraft tugs
- De-icing trucks
- Aircraft maintenance vehicles
- Fueling trucks
- Catering vehicles
- Electric mobility carts in terminals

### ✦ Other areas

- Security equipment and X-ray machines
- Baggage handling systems
- Elevators
- Escalators
- Moving walkways
- Garbage containers

## THE FIRETRACE SOLUTION

Firetrace is the ideal solution for many of the fire risks in airport facilities. Firetrace systems go right to the source of fire, in the very enclosures and cabinets where fires start. Firetrace systems utilize a reliable, yet highly effective detection — the Firetrace Detection Tubing — to activate the system. This pneumatic tube can be installed inside of the critical cabinets and enclosures where fire starts. When the heat and radiant energy of the fire contact the tube, it bursts forming a nozzle through which the agent passes. By utilizing this unique detection, fast detection is assured while false alarms can be virtually eliminated. By dealing with fire at its onset, many of the losses and inconvenience can be avoided.



## HOW IT WORKS

### Firetrace has a system that is right for you

Firetrace offers two systems to deal with localized fires — the Direct and Indirect systems.



#### Firetrace Direct System

The Direct system utilizes pressurized Firetrace Detection Tubing as both a fire detecting sensor and extinguishment delivery device. The flexible red Detection Tubing can be routed where needed, ensuring detection and suppression of a fire right at its source. The tubing is designed to burst at the point of highest heat, forming an effective discharge “nozzle.”

Direct systems can be fitted with an optional pressure switch to shut down electrical equipment or activate local or building alarms.



#### Firetrace Indirect System

In contrast to the Direct system, the Indirect system uses the pressurized red Firetrace Detection Tubing as a detection-only device. When the tubing ruptures, it triggers the release of the extinguishing agent through separate network of hoses or piping to one or more dispersion nozzles that flood the enclosure with suppressing agent quickly and completely.

Firetrace Indirect Systems also offer the option to activate via a smoke detector. Indirect Systems can be fitted with an optional pressure switch to trigger an external alarm or shut down system power. Although designed to activate automatically, Indirect systems can also be activated with an optional manual release.

Regardless of the system selected, the Firetrace Detection Tubing is the reliable solution for detecting a fire at its source before business-critical equipment and assets can be damaged.



# FIRETRACE<sup>®</sup>

AUTOMATIC FIRE SUPPRESSION SYSTEMS

## Firetrace Airport Applications

Firetrace has more than 150,000 systems installed protecting business-critical equipment worldwide. Firetrace has its origins in the late 1980's in the United Kingdom as a special hazard fire suppression system. Through the 1990's applications expanded to include enclosures such as machines, fume hoods, and electrical cabinets as distribution increased in Europe.

In 2001, the worldwide rights to Firetrace were purchased by Firetrace USA, a group of fire suppression industry veterans who saw the value in creating fire suppression systems for "micro-environments." This concept is simply providing supplemental protection that suppresses fire quickly within the protected space before larger room or building systems would activate. As a result of this supplemental protection, fire damage, both direct and collateral, and costs associated with cleanup and downtime are significantly reduced or eliminated. Available in multiple system sizes (ranging from one pound systems to 50 pound systems) and utilizing a variety of fire suppressing agent options, Firetrace is the fire suppressing system of choice for many airport applications.



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.

Firetrace is available exclusively through our worldwide distributors, each of which has been properly trained in the installation and maintenance of Firetrace systems. To locate the Firetrace distributor nearest you please contact us at:

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