

FIRETRACE[®]

POWER TO INNOVATE. FLEXIBILITY TO ADAPT.



TRANSIT AND MOTORCOACH

Fire Protection Solutions

FIRETRACE, THE PROVEN CHOICE FOR BUS FIRE PROTECTION

THE PROBLEM

A fire in a bus is a very serious and surprisingly common situation that puts lives and property at risk.

Studies show that as many as one in 100 buses will experience a fire in any given year, and that more than 84 percent of fires are the result of mechanical or electrical failure or malfunction, primarily in the engine or running gear areas, with flammable liquids or electrical failures cited as the most frequent cause.

AT RISK AREAS

- ✦ Engine compartment
- ✦ Dashboard
- ✦ Electrical systems
- ✦ Battery enclosures
- ✦ Heating and air conditioning systems

WHY FIRETRACE?

Firetrace offers a superior approach to the protection of many of the fire-prone areas of these vehicles. Firetrace systems detect fire using the proprietary Firetrace Detection Tubing. This heat sensitive polymer tubing is pressurized and reacts to the heat and radiant energy of a fire by bursting, thus releasing the fire suppression agent.



* System selection may vary with the hazard protected

FIRETRACE ADVANTAGES

- ✦ Highly reliable in harsh environments – tolerant of dirt, debris and temperature extremes
- 24 ✦ Requires no electricity offering uninterrupted service 24/7
- ⚠ ✦ Sounds alarm and can send an alert to the indicator panel
- 👍 ✦ Eliminates concern for false alarm or false discharge
- 🎯 ✦ Provides immediate detection and delivery
- 💰 ✦ Allows for inexpensive installation, maintenance and recharge
- ↔ ✦ Horizontal or vertical cylinders available giving more flexibility in system placement
- 📍 ✦ Tubing can easily be routed to virtually any location on the vehicle to provide

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.

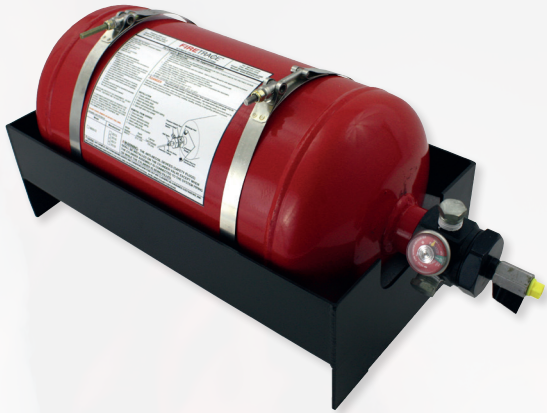
FIRETRACE DETECTION TUBING

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



FIRETRACE'S NEW HORIZONTAL CYLINDER

Space on board a bus is limited, so Firetrace offers a new horizontally mounted system for spaces that won't allow for a vertically placed cylinder.



P-MARK



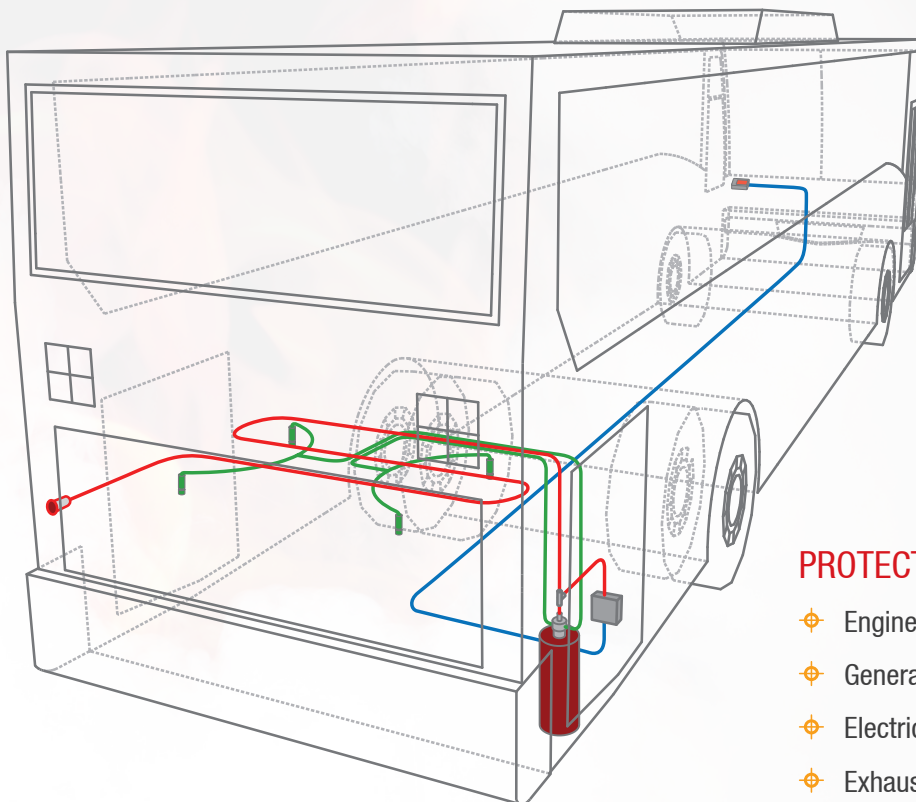
Firetrace's ABC 20lb system has achieved a perfect 10/10 score in the SP Technical Research Institute of Sweden's P-Mark testing process for bus specific fire suppression. Firetrace's compact 10lb 'Black Widow' system also achieved a notable 9/10.



Firetrace 20lb ABC dry chemical system.



Firetrace 10lb Black Widow system.



- Firetrace Detection Tubing
- Discharge Piping
- Discharge Nozzle
- Indicator Module

PROTECTABLE AREAS

- Engine compartment
- Generator
- Electrical systems
- Exhaust system compartments
- Battery compartments
- HVAC compartments
- Auxiliary heating

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.

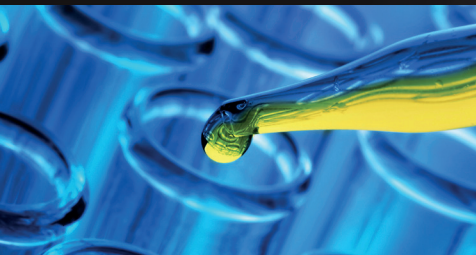
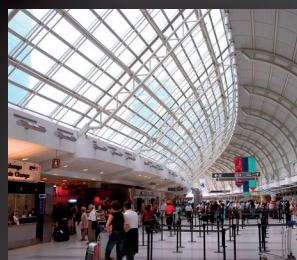
From the adaptable pre-engineered systems using the world-renowned Firetrace Detection Tube to protect critical equipment and enclosures to the innovative new E4 Engineered Systems providing a new level of flexibility in system design, Firetrace leads the world in special hazard protection.

Airports

IT Infrastructure

Mass Transit

Ports and Intermodal Facilities



Mining

Oil & Gas

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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