



## Firetrace Server and Telecommunication Equipment Applications

Firetrace has more than 250,000 systems installed protecting business critical server and telecommunications 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 virtually any enclosed server application, from a single server rack to an entire data center.

Whether you are replacing an old Halon system or protecting your equipment for the first time, Firetrace provides a reliable and cost-effective solution.



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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**FIRETRACE**<sup>®</sup>  
AUTOMATIC FIRE SUPPRESSION SYSTEMS

**SERVER AND  
TELECOMMUNICATION ENCLOSURES**

Fire Protection Solutions



**Firetrace does not occupy valuable rack space. This red Firetrace Detection Tubing can be run unobtrusively across the top of the rack.**



**The flexible red Firetrace Detection Tubing will quickly and reliably detect and suppress a fire at its source.**

## THE PROBLEM

The risk of fire is very real in today's hot-running and overcrowded server racks and equipment enclosures. A relatively small server fire can cost a company thousands of dollars in lost revenues and productivity; a catastrophic fire can put a company out of business. According to one industry statistic, 29 percent of companies that suffer a major fire-related data loss and are not able to resume operations within 10 days are not likely to survive.

### Typical Causes of Server and Telecommunications Equipment Fires:

- Faulty electrical connections
- Malfunctioning power supplies
- Electrical arcing
- Short circuits
- Power line surges
- Thermal overload

Some companies rely on their building's overhead sprinkler system to protect their server and telecommunications equipment against fires. Unfortunately, while water is good for putting out fires, it is very bad for computer equipment and data! In many cases the collateral damage from water sprinklers is far more destructive than the fire itself.

It should come as no surprise that knowledgeable IT professionals recommend using a waterless "clean agent" fire suppression system to protect mission critical data and equipment. Clean fire suppressing agents are electrically non-conductive and non-corrosive, leave no residue/require no cleanup, and will not harm people, data or equipment.

Considering the value of your computer equipment and data, shouldn't you protect yourself with a Firetrace clean agent automatic fire detection and suppression system?

## FIRETRACE ADVANTAGES:

- ✦ Fast, reliable fire suppression without the collateral damage caused by water sprinklers
- ✦ Suppresses a fire in seconds, reducing equipment damage and downtime
- ✦ Easy to install in any new or existing server rack or closet and requires no power to operate
- ✦ Clean suppression agents require no post-discharge cleanup
- ✦ Will not harm people, equipment or the environment
- ✦ System options expand peripheral capabilities
- ✦ Clean agents will not harm electronic equipment or magnetic media and are OK to use on energized equipment
- ✦ Does not interfere with installation or maintenance of equipment
- ✦ Meets NFPA 75 requirements for computer installations needing fire protection

## THE FIRETRACE SOLUTION

Firetrace automatic fire detection and suppression systems are the industry's leading solution for protecting server racks and telecommunications equipment. And Firetrace now offers Clean Agent Total Flooding Systems that can effectively protect entire data center rooms without the collateral damage caused by water sprinklers.

Using our unique, pneumatic Firetrace Detection Tubing and clean fire suppressing agents such as DuPont™ FM-200® and 3M™ Novec™ 1230 Fluid, a Firetrace system will quickly and reliably detect and suppress a fire before it can spread to adjacent equipment or activate an overhead sprinkler system.

Firetrace Clean Agent Total Flooding systems provide a second line of defense for fires originating outside of the server rack, further reducing or eliminating the risk of equipment damage and downtime.

The two Firetrace systems complement one another by providing localized fire protection for those areas with an elevated fire risk, along with secondary protection for the entire room that will stop a fire no matter where it starts.

# HOW IT WORKS

## Firetrace has a system that is right for you

For protection of server racks, server closets, and server rooms, Firetrace offers three self-actuating fire suppressing systems to meet your specific needs.



### Firetrace Direct System

The Firetrace Direct Low Pressure System provides a simple and reliable fire protection solution for open and semi-enclosed server racks. The Direct system utilizes pressurized Firetrace Detection Tubing as both a fire detecting sensor and suppressing agent delivery device. The flexible red Detection Tubing can be routed throughout a server rack, 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.”

Firetrace Direct Systems are also ideal for protecting cable runs and trays. One system can be configured to protect up to a total of 100 linear feet of cabling. Direct systems can be fitted with an optional pressure switch to shut down electrical equipment or activate local or building alarms.



### Firetrace Indirect System

The Firetrace Indirect Low Pressure System provides a simple and reliable fire protection solution for fully-enclosed server racks and closets. 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 fire suppressing 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 Total Room Flooding System

Firetrace Total Flooding systems quickly fill a room to a specific concentration with fire suppressing clean agent gas. Once this concentration is achieved, a fire will be effectively suppressed. Like agents used in other Firetrace systems, the gas will not harm people or equipment and does not require cleanup or leave any residue.

