



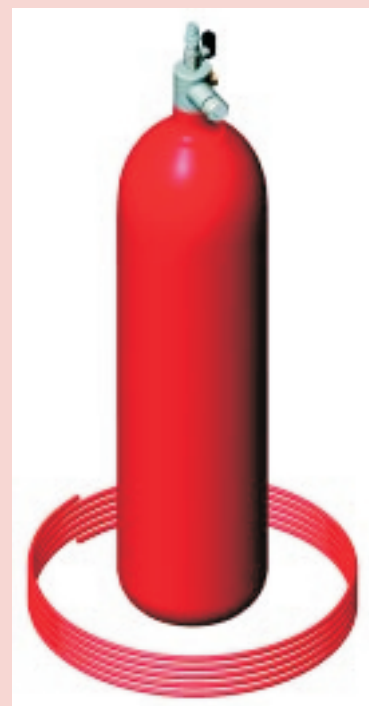
- Detects and extinguishes fire automatically at its first stage
- Discharges accurately and quickly at the source of the fire
- Suitable for all high and low pressure extinguishing agents
- Allows actuation of alarms, disconnection of electrical mechanisms, etc...
- Easy to install and minimum maintenance
- Not affected by humidity, dirt, vibrations or currents of air
- Self-activating or monitored by central fire station
- Depending on system, allows actuation by manual release

**Self-contained, efficient and safe**

## FIRETRACE SYSTEM

Firetrace is simple automatic fire detection and extinguishing system by means of a flexible detection and discharge pipe, specially designed for application where the fire hazard is located in areas difficult to access. The pipe is heat sensitive all along its length, equivalent to an infinitesimal line of fire detectors. Firetrace detects and extinguishes fire at its first stage discharging the extinguishing agent directly at its source.

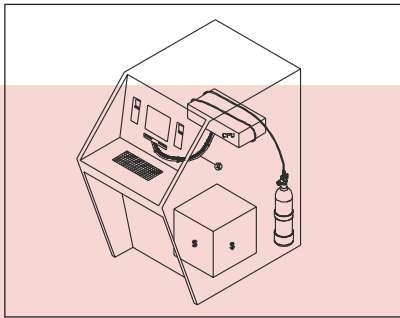
Firetrace is specially suitable for applications where the potential fire risk is located within enclosed or confined areas, such as, electrical cupboards, control panels, fume cabinets in laboratories, automatic cashiers, paint booth, machinery rooms in yachts and vehicles, baths, buckets or tanks filled with flammable materials, and many others.



Firetrace systems allow for detection and extinguishment through the pipe –direct extinguishing system– or detection through the pipe and discharge through a line of nozzles –indirect extinguishing system.

### Direct extinguishing system

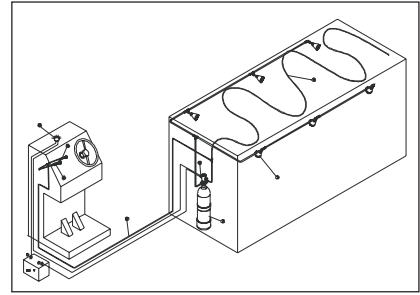
Employs a flexible tube pressurized between 10 and 18 bar, for fire detection and discharge of extinguishing agent.



When a fire occurs, the increase in temperature softens the Firetrace tube and bursts at its hottest point (between 80 and 110 °C), which coincides with the source of the fire. This rupturing operates as a distribution nozzle that discharges extinguishing agent directly, and quickly to the source of the fire, at its first stage. Direct system is suitable for total flooding applications for small area coverage of 5 m<sup>3</sup>. Standard equipment includes pressure gauge, by-pass valve for connection to Firetrace tube and coupling to pressure switch.

### Indirect extinguishing system

Firetrace pressurized tube is only employed for fire detection. When the tube bursts due to increase in temperature, it decompresses and opens the cylinders valve, thus discharging extinguishing agent through one or several lines of



nozzles located inside the enclosure to be protected.

The indirect system is suitable for total flooding applications in areas larger than 5 m<sup>3</sup> and for local applications for special hazards in open areas. Standard equipment includes pressure gauge, by-pass valve for connection to Firetrace tube and two discharge outlets.

With this system it is possible to use system manual actuation.

### Technical characteristics

Low pressure	Direct Extinguishment			Indirect Extinguishment		
	Powder / FE-36 / HFC-125 / FM-200					
Agent						
Cylinder volume (litres)	3	6	12	3	6	12
Protected volume* m <sup>3</sup>	2	4	6	4	6	8
Firetrace tube rupture temp.	80 - 110°C					
Pipe maximum length	5 m. for powder / 20-25 m. for gases					
Cylinder height + valve (mm.)	480	520	630	500	540	650
∅ cylinder (mm.)	110	149	180	110	149	180
Working pressure at 20 °C	10 – 15 bar					
Test pressure	27 bar					
Propellant	Nitrogen					

\*Depends on extinguishing agent

High Pressure	Direct Extinguishment		Indirect Extinguishment					
	FE-13 / Argon / CO <sub>2</sub>							
Agent								
Cylinder volume (litres)	3	7	3	7	13	26	40	67
Protected volume* m <sup>3</sup>	3	6	3	6	12	25	35	50
Firetrace tube rupture temp	80 - 110°C							
Pipe maximum length	20 – 25 m.							
Cylinder height + valve (mm.)	500	540	456	670	970	1090	1390	1639
∅ cylinder (mm.)	142	142	142	142	142	229	229	267
Working pressure at 20°C	10 – 15 bar							
Test pressure	27 bar							

\* Depends on extinguishing agent