

AUTOMATIC DETECTION AND SUPPRESSION SYSTEM



'I-PROTECT pressurised fire detection tubing *with a revolutionary fire extinguishing agent''*

BACKGROUND

Electrical malfunction and auto-ignition exposed to heat are known to be two of the most common causes of fires. The most significant aspect of preventing electrical fires or combustion fires in confined spaces, is early detection.

I-PROTECT was designed to mitigate the risk of injuries and fatalities, but also to minimise equipment damage as far as reasonably practical. **I-PROTECT** is an ideal solution for restricted, small enclosures or rooms containing electrical equipment.

The **I-PROTECT** low pressure automatic fire suppression system is a direct, quick response system. The system consists of fire detection tubing, pressurised with a fire extinguishing agent from a fire suppression cylinder. The tubing ruptures when exposed to specific elevated temperatures and then suppresses the source of the fire almost immediately. The suppression agent is delivered through the ruptured tube at the source of generated heat.



APPLICATIONS

Typical applications of the **I-PROTECT** system include, but are not limited to the following:

- Server racks and rooms
- UPS racks
- Battery charging bays
- Electrical distribution boards
- PLC's
- Generators and distributor enclosures
- Switchgear
- Any enclosure containing high-value electrical and electronic equipment



'I-PROTECT systems are supplied in **convenient, ready toinstall cylinder and tube kits'**

I-PROTECT HEAT SENSITIVE, LINEAR DETECTION TUBING:

Pneumatic, detection tubing is available in activation temperature ranges of 80°C - 110°C and 150°C - 180°C. When used in conjunction with I-CAT **I-PROTECT** Systems, it offers a highly reliable detection and system activation methodology.

The **I-PROTECT** low pressure automatic fire suppression system consists of a cylinder, detection tube and accessories kit.

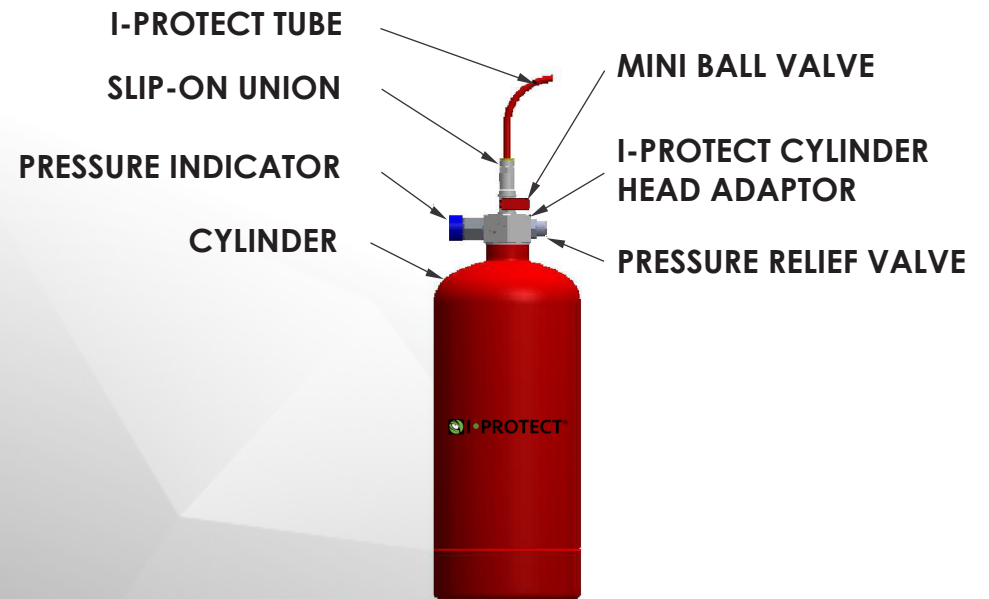
CYLINDER KIT INCLUDES THE FOLLOWING MAIN COMPONENTS:

- Supply unit (fire extinguisher cylinder with syphon tube)
- CLEAVOS 1230 fire suppression agent
- I-PROTECT cylinder head adaptor
- Pressure relief valve
- Pressure indicator
- Cylinder bracket
- Low pressure switch
- Associated fittings

THE SYSTEM IS AVAILABLE IN CAPACITIES OF 1KG, 2KG AND 5KG KITS AND INCLUDE THE FOLLOWING MAIN COMPONENTS:

- **I-PROTECT** linear fire detection tubing
- Associated pneumatic fittings

SYSTEM	COVERAGE
1kg	1 m ³
2kg	2 m ³
5kg	5 m ³



CLEAVOS 1230

Cleavos 1230 fire protection agent fluid is a nonflammable non-hazardous, clear, colourless liquid with low odour. Cleavos 1230 is an environmentally friendly agent which does not contribute to ozone depletion. It has an atmospheric lifetime of approximately 5 days and a Global Warming Potential (GWP) of 1 (IPCC 2001 method). CLEAVOS 1230 is also safe for humans.

'Minimal to no collateral property damage'

The **I-PROTECT** low pressure automatic fire suppression system will ensure:

- Minimal to no property damage
- High system reliability due to the pure pneumatic functionality and independence from a power source
- A decrease in the number of false alarms
- High risk components in constricted/confined spaces are protected due to the flexible nature of the fire detection tubing
- A safer working environment for personnel
- Lower installation and servicing costs due to the functional simplicity of the system

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