

## THE I-PROTECT® LOW PRESSURE AUTOMATIC FIRE SUPPRESSION SYSTEM WILL ENSURE

- ❖ No collateral 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 and localized applications.



## AUTOMATIC DETECTION AND SUPPRESSION SYSTEM BACKGROUND

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 enclosures or rooms containing electrical equipment.

## CLEAVOS 1230® ZERO OZONE DEPLETION POTENTIAL GAS (ODP)

CLEAVOS 1230® fire protection agent fluid is a non-flammable, 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).

## LINEAR HEAT DETECTION TUBING

The specialised pneumatic tubing will detect a fire at elevated temperatures. When used in conjunction with I-CAT's I-PROTECT® Systems, it offers a highly reliable detection and system activation methodology.



## NO COLLATERAL PROPERTY DAMAGE

The I-PROTECT® low pressure automatic fire suppression system is a direct, quick response system. The system consists of linear heat detection tubing, pressurised with an 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.

| SYSTEM | COVERAGE               |
|--------|------------------------|
| 1 kg   | Up to 1 m <sup>3</sup> |
| 2 kg   | Up to 2 m <sup>3</sup> |
| 5 kg   | Up to 5 m <sup>3</sup> |



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ISO  
9001:2015  
MANAGEMENT  
SYSTEM

COMPANY



Apart from localised suppression, the system sizes are also calculated for enclosure total flooding, ensuring the possibility for secondary fires are eliminated.

The I-PROTECT® low pressure automatic fire suppression system consists of a cylinder, detection tube and accessories kit. The systems have been tested in international laboratories and have passed all tests in accordance with LPCB (Loss Prevention Standard LPS1666). Certificate available on request.

## 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.

## APPLICATIONS

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

- ❑ MCC's & server racks.
- ❑ UPS racks.
- ❑ Electrical distribution boards.
- ❑ PLC's
- ❑ Switchgear.
- ❑ Any enclosure containing high value electrical equipment.

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

- ❑ Linear heat detection tubing available as UL listed components on request.