I·CAT FIRE SOLUTIONS

change that doesn't
cost the earth

LOCALISED SUPPRESSION SYSTEM

FOAM MIST







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'protecting your high value equipment against fire risk'

The I-CAT Fire Solutions' Localised Suppression System (LSS) was designed to protect your valuable production and industry equipment such as transformers, hydraulic power packs, conveyor belts (high risk areas like tail, head and tensioner pulleys) and fuel storage tanks against fire.

THE SYSTEM MAKES USE OF T-ROTOR TECHNOLOGY

This technology is currently the leading misting technology internationally extinguishing all classes of fires by using Foam Mist as the agent. The system creates a fine atomised mist, charged with kinetic energy to penetrate the heat radiation caused by a fire. It leads to gradual cooling without causing thermal shock to the equipment. Telesolv foaming agent is added to the system to prevent any class B fire from spreading when fuel lines or hydraulic lines rupture, causing equipment fires.

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 Local Suppression System it offers a highly reliable detection and system activation methodology.

SYSTEM OBJECTIVES:

- Effective fire detection
- Effective fire suppression
- Reducing down-time and clean-up after activation
- Considering the environment
- Easy installation and operation
- Cost effective maintenance

'I-PROTECT detection tubing offers a highly reliable detection and system activation methodology

Water and Foam Mist as a suppression agent is effective in displacing oxygen through its rapid expansion by coming into contact with the radiated heat from a fire, forming an inert environment. Through its gradual cooling properties, it controls the risk of re-ignition and the spread of a potentially devastating fire. The foam mist prevents thermal shock and poses no threat to hot surface equipment that may crack or damage through rapid cooling. The systems have a Class A, B, C and F classification.

SYSTEM PROPERTIES:

- The system is available as:
  - Automatic activation and suppression
  - Manual activation and suppression
- The system can be connected to any fire alarm system
- Operating temperatures: - 30°C - 60°C
- Any type of fire detection can be used with the system

'I-CAT Localised Protection Systems can also be charged

with water to fit specific operational requirements'

SYSTEM MAINTENANCE:

The water and/or foam mist system is designed to improve and save on maintenance costs. Once a system has been activated, it will require a foaming agent refill, antibacterial tablet, detection tubing repair and system pressurization with nitrogen or compressed air. All systems can be pressure tested on site and put back into service within minutes. All systems have a recommended service interval of 6 months or 1000 hours as stipulated by NFPA 17a.

PROTECTS THE FOLLOWING:

- Conveyor belts (tail pulley, head, tensioner)
- Transformers
- Hydraulic packs
- Fuel storage tanks
- Substations
- Oven burners
- Wind turbines
- Pump parts
- Lube Rooms
- Compressors
- Generators
- Electric motors and more

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