

VEHICLE SUPPRESSION SYSTEM

THE SYSTEM INCORPORATES WATER MIST TECHNOLOGY

I-CAT systems incorporate leading international misting technology. The system incorporates **AQUA COLLISION®** technology to create fine atomised mist, charged with kinetic energy to penetrate the heat radiation caused by fire, it leads to gradual cooling without causing thermal shock to equipment. A foam additive, **CLEAVOS AFFE® / FFF®** is added to the system to prevent class B fires from spreading when fuel or hydraulic lines rupture, causing equipment fires.

SYSTEM OBJECTIVES

- ❑ Effective fire detection.
- ❑ Efficient fire suppression.
- ❑ Equipment fire suppression.
- ❑ In-situ reinstatement.
- ❑ Easy installation and operation.
- ❑ Cost effectiveness.

***'protecting your high value
assets against fire risk'***



PRINCIPLES OF OPERATION

Self-contained suppression agent cylinders are mounted on a vehicle, combined with a piping network and nozzles directed at high-risk components, focusing specifically on engine compartments. The system is designed to detect and suppress fires automatically using linear heat detection tubing that is designed to detect fires without the need for electrical infrastructure. The unit can be activated by means of a manual activation switch located at the operator in the cabin. A low-pressure switch is pre-supplied, allowing cutout features for the engine and fuel supply systems. The switch can be integrated with the vehicle's Canbus / Modbus for monitoring.

TRUSTWORTHY

All I-CAT Vehicle Suppression Systems have been designed according to South African, Swedish, Australian and American standards and conform to very rigorous design constraints and protocols. The valve used is patented locally and internationally.



IN ACCORDANCE WITH



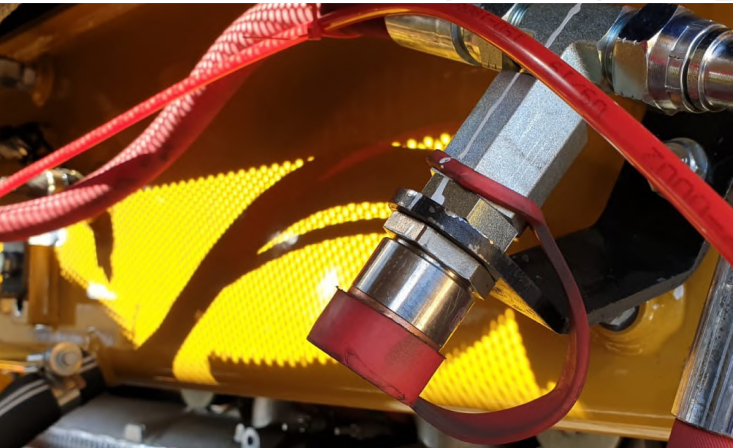
TESTED BY

SABS



'no re-ignition after the fire was extinguished'

The use of foam mist as a fire suppression medium supersedes its competitors in the market. Through its gradual cooling properties, it controls the risk of re-ignition and the spread of a potentially devastating fire. The water mist prevents thermal shock and poses no threat to hot surface equipment that may crack or damage through rapid cooling. The system has Class A and B extinguishing capabilities, thus making the need for dual medium extinguishing design unnecessary.



SYSTEM PROPERTIES

- ❏ Manual or automatic detection.
- ❏ An optional vehicle fire panel is available for alarm-, monitoring-, control and integration features.
- ❏ Operating temperatures between -40°C to 60°C, dependent on application.
- ❏ Third party detection systems can be integrated with the system.
- ❏ In-cabin suppression for operator protection.

APPLICATIONS

- ❏ Shovels.
- ❏ Dump trucks.
- ❏ Excavators.
- ❏ Forklifts.
- ❏ Graders
- ❏ Drill rigs.
- ❏ Haulage trucks.
- ❏ Vehicle hydraulics.
- ❏ Pumps and valves.
- ❏ Armoured vehicles.
- ❏ Charge cars.
- ❏ Crawlers.
- ❏ Front end loaders.
- ❏ TLB's

**ALL NOZZLES EMPLOY *AQUA COLLISION®* TECHNOLOGY
WHICH IS DESIGN REGISTERED**

SYSTEM MAINTENANCE

The water and/or foam mist system is designed to improve and save on maintenance costs. Once a system has discharged, it will require a foaming agent refill, detection tubing repair and system pressurization with nitrogen or compressed air. All I-CAT systems can be re-instated on site within minutes after discharge.