

AFEX

FIRE SUPPRESSION SYSTEMS

YOUR INDUSTRY HAS UNIQUE EQUIPMENT.
YOUR EQUIPMENT HAS UNIQUE FIRE RISKS.
AFEX KNOWS.

AFEX 2000 SERIES

DETECTION

The **AFEX** detector is a point thermal type that is shock and vibration resistant. The detectors are installed in and adjacent to the high hazard areas. The detector's switch contact closes at 300°F and reopens at 270°F. The detectors are wired in parallel with a shielded two wire conductor that is especially designed and constructed for **AFEX**. The detector can be encased in various types of brackets or enclosures for mounting. The vehicle battery provides power for the detection system.

ACTUATION

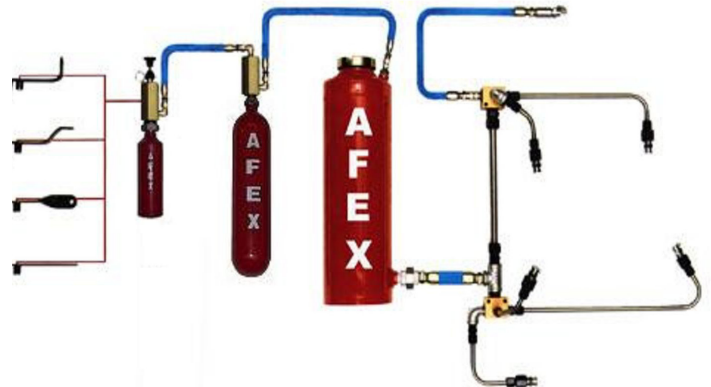
In an automatic system, the closing of any one of the heat detectors will cause an electrical actuation of the system by discharging an explosive squib. The force from the squib powers a puncture pin which pierces the seal of a compressed nitrogen cartridge. The released gas flows to the pressurizing cartridge that charges the extinguisher cylinder.

Manual actuation is accomplished by pulling a safety pin and applying force to the push knob on a mechanical actuator assembly. This also forces the puncture pin into the seal of a

compressed nitrogen cartridge. Mechanical actuators should be located in the operator cab and optionally, on the outside of the vehicle near the operator's path of egress.

DISTRIBUTION

The pressurizing gas enters a tube at the top of the extinguisher. The gas passes through perforations in this tube, which extends to the bottom of the extinguisher. In so doing, the gas fluidizes the powder, even when severely compacted. As the gas increases the pressure in the cylinder, it ruptures the bursting disc in the discharge outlet at the bottom, forcing the powder through the distribution network. The distribution network consists of stainless steel tubing and/or hydraulic hose. Finally, the dry chemical is disbursed through cone spray nozzles, which permit the broad distribution of the agent that is necessary for a total flooding system. These nozzles are protected by a spring loaded cap.



SYSTEM FEATURES

Stainless Steel Tubing Distribution

The **AFEX** system is widely known for its rugged stainless steel construction, designed to be as sturdy as the machine it's installed upon. The tubing is nearly maintenance free and avoids costly and time consuming hose replacements.

Tubing, unlike hose, does not twist or tangle among the many existing hydraulic lines. It provides a clean and organized appearance that places the nozzles in fixed positions to best reach fire hazards without interfering with routine maintenance and operation of the machine.

Conical Discharge Nozzle

The **AFEX** nozzle delivers a conical discharge pattern for broad distribution of the dry chemical agent, creating a "total flooding" system and maximizing area coverage. The integrated spring-loaded hinge keeps the nozzle clear of debris (without the need to constantly replace blow-off caps) and directs the dispersion of the agent towards the hazard.

Automatic Detection System

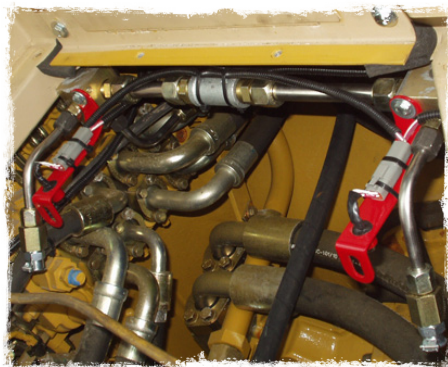
The **AFEX** sensor is a single-pole, single-throw, switch that activates automatically when the sensor reaches the pre-set temperature. The case is laser welded to form a hermetically sealed housing and can be encased in various types of brackets or enclosures for ease of mounting.

Each unit is manufactured to meet or exceed critical commercial, industrial, and military specifications and then inspected by hand to ensure proper operation.

Circuit Monitor Panel

The **AFEX** CMP uses both audible and visual alarms to alert the operator to system conditions and can also activate external alarm devices. An operator controlled delay function is provided to prevent unwanted system discharges and an optional engine shutdown switch is available to reduce the risk of fire reignition.

The design uses solid state electronics rather than microprocessors to make the monitor resistant to false alarms and interference from EMI, RF, and unregulated voltage. Power is accessed from the equipment's battery, so no additional batteries are necessary.



A vehicle fire suppression system is not a finished product until it is installed. Therefore, proper installation and maintenance are crucial to ensure long-term reliability and effectiveness of the system.

AFEX knows heavy equipment and the hazards that put it at risk. AFEX distributors share the same special knowledge required to effectively protect heavy equipment against fire risks. Unlike our competitors, all AFEX distributors are experienced with vehicle fire suppression systems and heavy equipment.

When choosing a vehicle fire suppression system, choose AFEX for the quality of design and choose AFEX distributors for the quality and reliability of their service.

Let us introduce you to your local AFEX service provider. Call us at (919) 781-6610 or email info@afexsystems.com.