

FIERCE VEHICLE FIRE SUPPRESSION

KODIAK

FIERCE VEHICLE FIRE PROTECTION



Quality is Behind the Diamond®



QUALITY WITHOUT COMPROMISE & EXPERIENCED INNOVATION



The best mining operations are uncompromising when it comes to the quality and reliability of their vehicles. At Amerex, we believe the same should be true when it comes to protecting those investments from debilitating fires and loss of production. With the experience of over 200,000 vehicle fire suppression systems sold, the Amerex vehicle fire suppression team has developed the most innovative fire suppression systems in the industry. **The KODIAK Fire Suppression Systems provide Fast and Fierce Fire Protection.**



Engineered system rigorously tested and designed to be tailored for any situation—**that's quality behind the diamond.**

All Amerex Fire Extinguishers comply with the recommendations of the **National Fire Protection Association** and are tested to **FM Global** and **UL 1254 Standards**.

**DESIGNED AND
MANUFACTURED
IN THE USA**



Note: The illustrations shown within are conceptual only and not intended for system design. A complete hazard analysis and risk assessment should be performed on the vehicle to determine the most probable ignition sources; along with the fire characteristics and quantity of the various fuels exposed to those ignition sources. Final placement of the fire suppression components should be based on the hazard analysis and in coordination with the end user.

The **Z-SERIES** LINE OF HIGH-PERFORMANCE FIRE EXTINGUISHERS

The top choice for the waste industry, the Amerex Z-series fire extinguishers combine legendary knock-down power with an outstanding life span and overall lower cost than anything on the market. Thanks to our zinc-enriched proprietary coating, the Z-series also boast an industry-leading 12-year warranty against corrosion.

The AMEREX Z-Series is recommended for use on sites where heavy industrial, manufacturing, mining, processing facilities, anywhere chemical- or corrosive-intensive work takes place or an elevated fire risk exists.



KEY FEATURES & BENEFITS

- 12-year warranty
- Highest achievable UL ratings
- Proprietary corrosion-resistant paint process
- Severe corrosion tested in accordance with ISO 21207
- Choice of ABC or Purple K dry chemicals
- Simple operation and maintenance
- Only UL Verified corrosion-resistant extinguisher on the market
- Compliance Flow and Fast Flow discharge available
- Improved environmental impact compared to galvanized units

BENEFITS OF **STORED-PRESSURE EXTINGUISHERS**

Extremely low maintenance costs make stored-pressure extinguishers an ideal choice for extended use in harsh surroundings. Stored-pressure extinguishers mean no separate nitrogen cylinder or regulator to test, no chemical contamination, no moisture seals or high-pressure hoses to replace or inspect, and fewer parts requiring replacement over time. With low maintenance costs, affordable price points, high reliability and general ease of use, stored-pressure extinguishers are an ideal choice for extended use in harsh surroundings.



The **AMEREX KODIAK BENEFITS** **STORED PRESSURE AGENT CYLINDERS**

Vehicles are different, and so are the Protection Agent Options

All vehicle hazards are not the same, so we offer two different suppression agent options to protect your vehicle.

- **Dry Agent Systems** - Provides the fastest fire knockdown and can get into those hard-to-reach areas where fire may hide.
- **Amerex Dry-ICS Systems** - Combines the strengths of both agents and provides the best possible fire protection option by providing rapid fire knockdown with dry agent and the cooling effects of the ICS liquid agent system.

Dry Agent Cylinders



ICS Liquid Agent Cylinders



WHY STORED PRESSURE?

- Prevents moisture from entering the cylinder and contamination of the fire suppression agent
- Agent is fluidized and ready to go when needed; no need for delays while the cylinder is being pressurized from an outside source
- Maintenance personnel can verify readiness at a glance with the cylinder's pressure gauge.
- Stored pressure cylinders can be fitted with a pressure switch which detects a low pressure condition and notifies the operator via the control panel



SINGLE RELEASE SEQUENCE OF OPERATION

- Fire starts in the machine releasing significant amounts of heat.
- The detectors sense the heat and send a signal to the control panel.
- The control panel interprets the signal and begins the discharge sequence, activating the alarm relay for shutdowns.
- The operator may choose to activate the manual release located in the cab or at ground level at any time to begin the discharge sequence.
- The linear actuator receives the signal from the control panel and opens the cylinder valve. The fire suppression agent travels through the distribution network to the nozzles which disperse the agent.
- The fire is suppressed, allowing for personnel to evacuate the machine and utilize hand held fire extinguishers or other methods, if necessary.

AMEREX VEHICLE FIRE SYSTEM FEATURES

SYSTEM CONTROL PANEL The Control Panel (CP) is the “brains” of the system. The CP interprets the signal from the detection circuit, initiates the cylinder discharge, and simultaneously operates relays which can be used to stop the flow of flammable fuels.

AUTOMATIC DETECTION 24-hour automatic sensors rapidly detect heat from a fire and signal the CP to start the discharge sequence, suppressing the fire and minimizing the damage.

AGENT CYLINDERS Stored pressure agent cylinders hold the suppression agent in a pressurized state, preventing agent contamination and reducing maintenance costs.

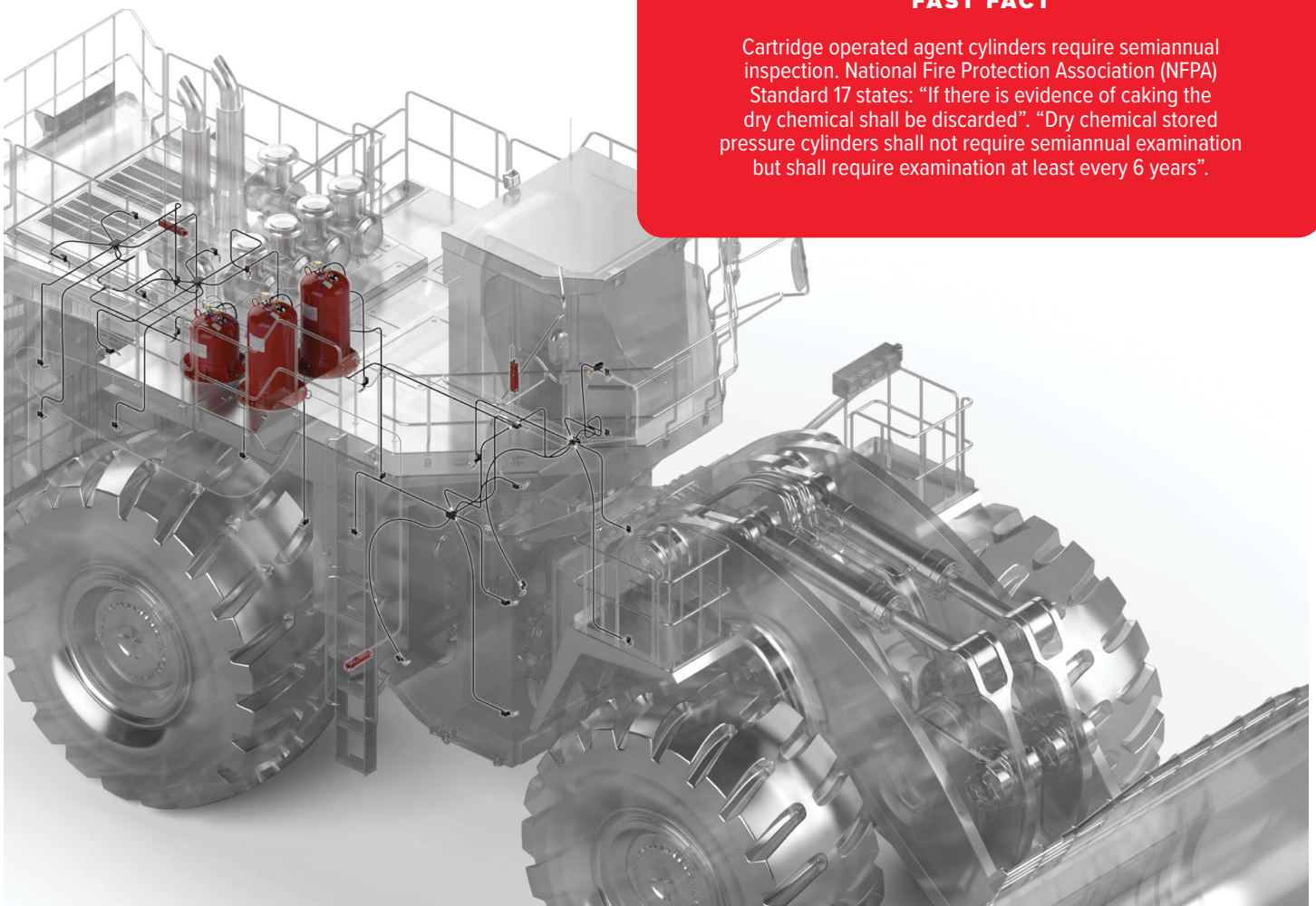
DISTRIBUTION NETWORK Hydraulic hose or stainless steel tubing distributes the fire suppression agent to the discharge nozzles which disperse the chemical throughout the hazard area.

SYSTEM ACTUATION All systems have the capability to be actuated electrically, pneumatically, or as a redundant system featuring both electric and pneumatic actuation.



FAST FACT

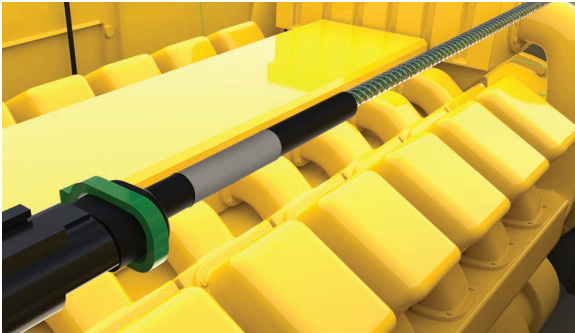
Cartridge operated agent cylinders require semiannual inspection. National Fire Protection Association (NFPA) Standard 17 states: “If there is evidence of caking the dry chemical shall be discarded”. “Dry chemical stored pressure cylinders shall not require semiannual examination but shall require examination at least every 6 years”.



The **KODIAK** BENEFITS DRY-ICS DUAL AGENT SYSTEMS

AMEREX DRY-ICS DUAL AGENT SUPPRESSION SYSTEM

- Amerex Dry-ICS System provides the best possible fire protection option by combining the rapid knockdown power of dry agent with the cooling effect of ICS liquid agent
- The dual agent is designed for simultaneous discharge or with a time delay between Dry and ICS release for an extended discharge for larger vehicles
- The Dry-ICS system meets the dual agent requirement of NFPA 122 12.3.6.1.1 for hydraulic/diesel excavators with hydraulic systems larger than 150 gallons



Detection Network



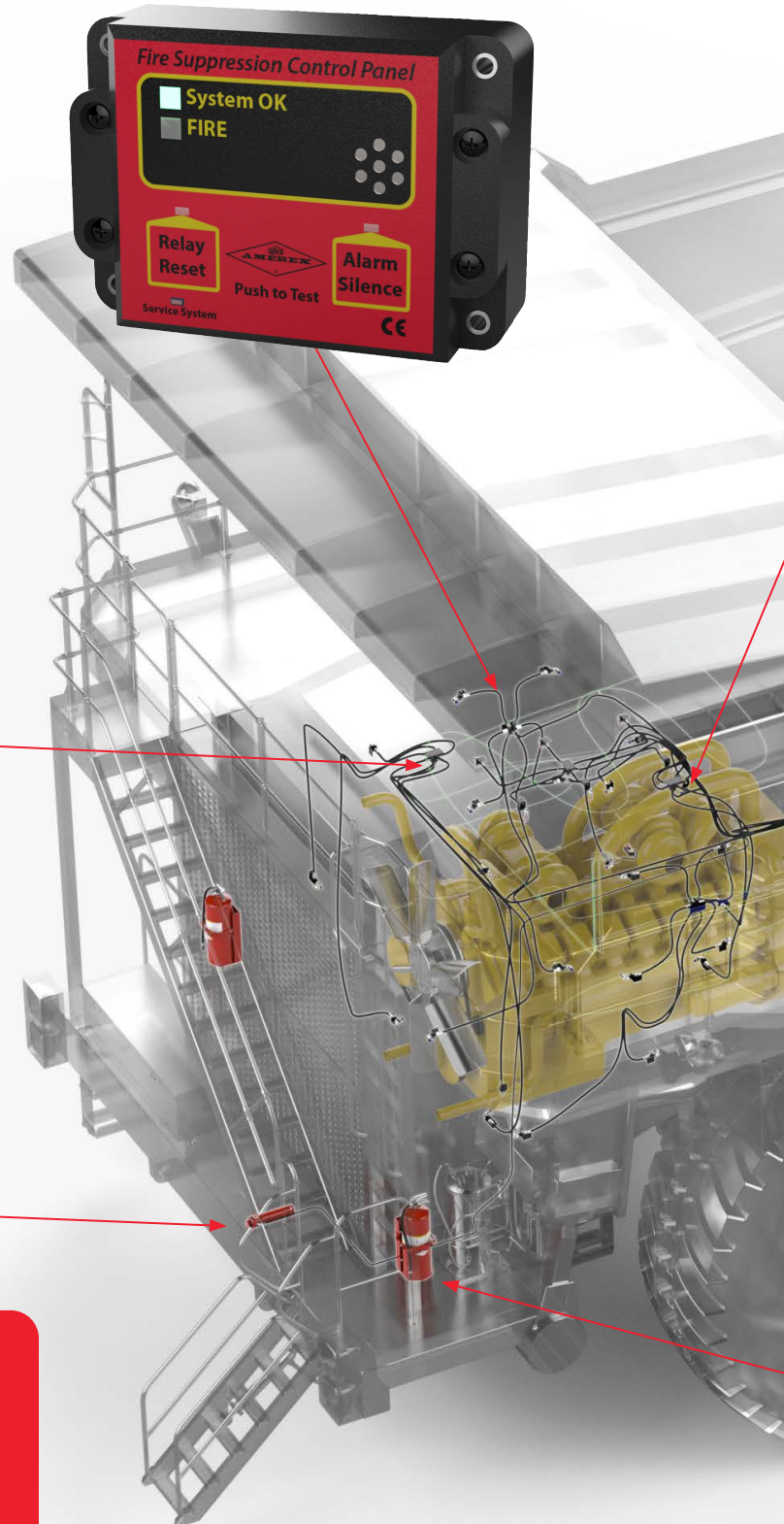
Manual Actuator

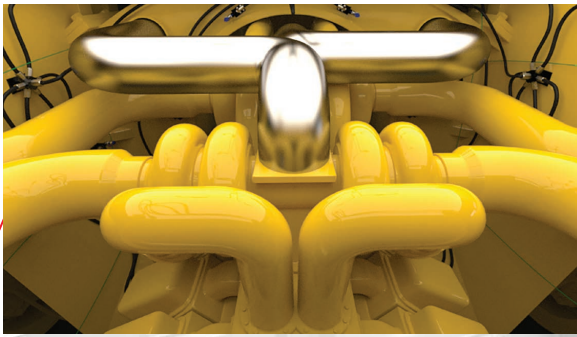


FAST FACT

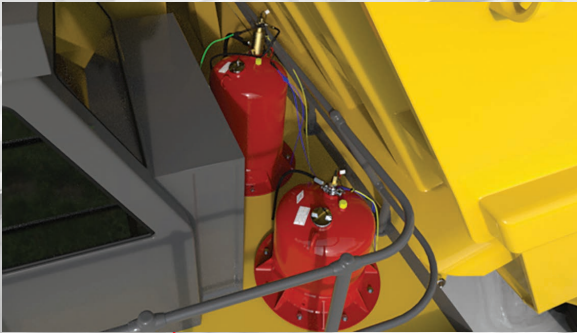
Amerex control panels have programmable shutdown delays from 0-15 seconds in 5 second increments.

17 Series Panel





Engine Compartment



Cylinders



FAST FACT

Fires on mining equipment with large volumes of hydraulics and diesel fuels can reignite after a fire is suppressed if the flammable fuel is not shut off, or the ignition sources aren't cooled.

Z-Series Extinguisher



The **AMEREX BENEFITS** CONTROL PANEL OPTIONS



FAST FACT

Event logs can be downloaded and provided to the vehicle owner to verify testing has been completed and kept as part of that unit's permanent record.

FEATURES OF THE **SAFETYNET** PANEL

- Full network ability to add additional detection and releasing zones
- 4000 event log - time and date stamped, down-loadable log for easy troubleshooting and incident investigation
- Automatic Maintenance Testing (AMT) mode to significantly reduce maintenance time
- Supports natural gas detection and infrared flame detectors for combination fire and natural gas detection systems
- 24-hour battery backup protection



FEATURES OF THE **17 SERIES** PANEL

- Two detection zones and one releasing zone
- 24-hour battery backup protection
- Diagnostic flash code for easy troubleshooting
- Programmable discharge and alarm relays



The **AMEREX BENEFITS** **FIRE DETECTION OPTIONS**



FAST FACT

Multiple types of detectors can be used on the same vehicle to provide faster response in high risk areas.



LINEAR HEAT DETECTION cables have long been the industry standard and provide a continuous heat detection cable that runs inside the hazard area. The Amerex Benefit has amped up the traditional cable with a more robust abrasion resistant outer jacket and factory-installed connectors for reliability and ease of service. The cable is also available with a stainless steel wire protective covering for extreme environments.



SPOT HEAT DETECTORS are available in three different preset temperature settings for flexibility and provide rapid heat detection and system activation. Spot Heat Detectors have factory installed connectors for reliability and ease of installation and service.



When you need the flexibility to provide Linear Heat Detection cable for harsh environments and Spot Heat Detection for critical areas needing fast response, the **Amerex control panels have the ability to combine detection methods.**

CAN/J1939 INTERFACE MODULE

The **SafetyNet CAN/J1939 Interface Module (CAN Module)** interfaces with Amerex Fire Suppression and Gas Detection electronics to transmit diagnostic messages to the vehicle network, operating at either 250k or 500k baud rate. Integration with telematics reporting software provides the user with a live system status. If desired or needed, a detailed troubleshooting of the SafetyNet system status can be achieved via the reporting platform. The device is installed as a module residing in the SafetyNet communication cable network. The proprietary SafetyNet codes are regularly transmitted on the network of SafetyNet modules and sensors. The CAN Module reads, sorts and translates SafetyNet messages into a SAE CAN/J1939 DM1 format. Sensor and module specific messages such as system Fire and Trouble conditions are recorded and transmitted to the CAN/J1939 network where they can be viewed and reported via the telematics system.

FEATURES

- Compatible with all previous version SafetyNet systems
- Provides SafetyNet diagnostic messages to vehicle CAN/J1939 network
- May be used for system maintenance and safety system diagnostic review
- RoHS, Reach & WEEE compliant construction
- Two separate part numbers for 250k and 500k baud rate vehicle CAN networks
- Coordinates SafetyNet internal clock with vehicle CAN controller



SafetyNet CAN Module

BENEFITS

- Connects to vehicle CAN/J1939 AVM network and allows for simplified diagnostics and maintenance
- Provides SafetyNet diagnostic messages which may be included with all other telematics reports
- Translates and transmits SafetyNet proprietary messages to the CAN/J1939 network
- Automatic synchronization of SafetyNet internal clock which allows for coordinated event tracking

SAFETYNET CAN/J1939 COMPONENTS

- P/N 26429 Module, 250k Baud
- P/N 27203 Module, 500k Baud
- P/N 26430 Interface Cable, 1 meter (required for either Module)



why AMEREX?

QUALITY

Amerex didn't become a global market leader overnight. Our business has grown year after year based on our products' reputation for performance and durability in even the most rugged environments.

INNOVATION

Because Amerex is independently owned and forward thinking, we are continuously innovating and investing for the benefit of our customers and those they serve.

SERVICE

Amerex was founded on a mutual appreciation for premium quality in products and customer service and the importance of interpersonal relations.



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