

Firetrace® Application Briefs

AB009

Solvent Extraction Machines

A distributor in the South has installed six Indirect Low Pressure (ILP) systems to protect the interiors of solvent extraction machines of a major cigarette manufacturer. The machines were in a large room for which consideration was given for coverage by a total flood application; however, since the room's only fire hazards were the extraction machines, onboard fire protection from Firetrace was chosen based on cost and system reliability. The Firetrace systems were each filled with 12 lbs. of FM-200® and included a Manual Release and Pressure Switch.

Missile Defense Clean Rooms

A national defense contractor needs a solution for fire suppression in clean rooms associated with the construction of missiles for the Strategic Defense Initiative. Firetrace systems would be used in the interior of the missiles, under the cowling, during the construction phase only. The fire hazard is created by all of the electronics involved. The Firetrace systems would be Direct Low Pressure (DLP) filled with 12 lbs. of FM-200 and a Pressure Switch.

Power Generation

A large public power generation company in the Southwest is currently evaluating Firetrace Direct Low Pressure (DLP) systems for protection of gas turbine power generation electrical control enclosures. While these electrical cabinets are located in a room equipped with sprinklers, the goal of the Firetrace system is early detection and automatic fire suppression for fires occurring inside of the electrical enclosures. The tubing configuration provides for protection of three cabinets using only one Firetrace system.

Protection Of An Antique Airplane

A distributor in the Carolinas has installed a Firetrace Direct Low Pressure (DLP) system using 12 lbs. of FM-200 to protect the interior of a vintage fighter airplane that is being used to decorate the inside of a building. The flexibility of the DLP system allows fire detection and suppression throughout the cockpit, main body and tail section of the plane. The local Fire Marshal, whom we demonstrated Firetrace for over a year ago, is requiring the system.

Theme Park Electrical Cabinets

A distributor in the South has proposed Firetrace systems to protect the interiors of a major theme park's high voltage electrical cabinets. About three months ago, one of their cabinets experienced a fire, which, through a cascading chain of events, led to the shutdown of one of its parks for an entire day AND the loss of power to three of their resort complexes. Although the loss of the electrical equipment and clean up from the fire was likely very expensive, the loss of revenue from the park, as well as the bad customer relations created by a complete shutdown of the electrical power in the associated hotels, was devastating! Our distributor has been "swinging and missing" with this customer, but now with the Firetrace products, it appears very likely that they have come across the perfect application for the Indirect Low Pressure (ILP) system with 12 lbs. of FM-200 with a valve mounted Pressure Switch. The park has approximately 200 cabinets to be protected at their co-gen plants.



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Backup Generators

A Midwest distributor sold 10 UL Listed/FM Approved Indirect Low Pressure (ILP) systems to protect backup power generators. Economics and reliability were the main qualities required in this application, and Firetrace was a perfect fit! Each system was filled with 12 lbs. of FM-200 and included a valve-mounted Pressure Switch for connection to each building's alarm panel.

Museum Cabinet With Clear Firetrace Tubing

A distributor in the Northeast has proposed Firetrace systems to protect valuable works of art. A top concern was their library with its glass cabinets used to protect priceless books, paintings, etc. Firetrace Direct Low Pressure (DLP) systems filled with 3 lbs. of FM-200 would be needed since a "softer" discharge would be used so as not to ruin papers or tapestries. Plus, a CLEAR version of the Firetrace Detection Tubing that does not create a visual distraction to the cases would be used. A Pressure Switch would be included with each system to tie into the building's main fire alarm system.

Remote Oilrig

A Texas distributor is quoting Firetrace to replace a tubular steel heat detection system aboard an offshore oilrig. Firetrace Detection Tubing will replace the tubular steel detection system, giving the customer all of the Firetrace Detection Tubing advantages with no limitations of an electronic system. Our flexibility will mean a much faster installation time and lower maintenance costs. Systems will be for detection only and filled with nitrogen. A Pressure Switch will be used to activate the fire alarm along with approximately 200 feet of tubing.

The "Crawler"

A certain National Aeronautics and Space Agency is interested in new technologies that will assist it in holding down costs. Fire protection from Firetrace is definitely a solution! One place of interest to use Firetrace is the "crawler" unit that transports a "reusable space ship" from its assembly building to the launch facility. Literally dozens of places on the crawler merit fire protection; electrical and electronic equipment, engine compartments, generators and hydraulics. Systems would include both Indirect Low Pressure (ILP) and Direct Low Pressure (DLP) systems with 3, 6 and 12 lbs. of FM-200. Each system would incorporate a Pressure Switch.

CNC Machine

A Firetrace Indirect High Pressure (IHP) system filled with 20lbs. of CO₂ was installed on an Index CNC Machine. The system actually replaced a Firetrace system that was installed overseas. As with all pressurized cylinders used in the United States, DOT certification is a must. Although the European cylinder was safe, it did not conform to US standards and had to be replaced. Our distributor made modifications to the tubing runs and the two nozzles included with the system. The system did not incorporate Spring Top Supports with any of its Firetrace Detection Tubing connections, leaving them vulnerable to damage or excessive stress so Spring Tops were added to all connections. A Manual Release was also part of the system.



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Bus Manufacturer

A fire protection distributor located in the Southwest is proposing Firetrace Indirect Low Pressure (ILP) systems as OEM standard equipment for a municipal duty bus manufacturer in their area. Firetrace Detection Tubing, which is installed throughout the bus' engine compartment, provides thorough fire detection while 10 lbs. of dry chemical provide fire suppression. A Pressure Switch is included to illuminate an indicator lamp on the dashboard upon system activation.

Band Saw

A distributor in the Northeast has quoted a Firetrace system to protect an industrial band saw. The saw's lubricating oil presents the most significant fire risk. An Indirect Low Pressure (ILP) system with 12lbs. of FM-200 was proposed with the two nozzles split - one aimed at the cutting surface and the other at the cabinet below the cutting surface (where the chips fall). Careful attention will be made to balance the system.

Wet Bench Protection

A distributor in the West has proposed Firetrace Indirect Low Pressure (ILP) systems filled with 12 lbs. of FM-200 to protect wet bench electrical control boxes. The systems will include 25 feet of Firetrace Detection Tubing and will be installed in the narrow control spaces located throughout the machine and in the electrical controls cabinet. When a fire is detected, the clean agent fire suppressant to be released through two fixed nozzles. A Pressure Switch will sound a local horn and will provide an emergency power shutdown signal to the wet bench controller

Feed Pelletizer

A distributor in the Midwest has found a Firetrace application at a feed mill that makes the feed pellets for livestock out of raw grain. The feed pelletizer's electrical panels that control the manufacturing process were found to be mission critical to the operation, and a fire in one of them would completely stop the manufacturing process. Three Direct Low Pressure (DLP) systems filled with FM-200 were proposed. Each system would include a Pressure Switch.

Sub-floor In A Computer Server Closet

A distributor in the Northeast has found a perfect Firetrace application in the 200 cu ft. sub-floor of a server closet. As a completely sealed environment, the sub-floor posed a financial and logistical challenge to protect. An Indirect Low Pressure (ILP) system with 12 lbs. of FM-200 was proposed to protect the entire sub-floor as there was a fire in one of the sub-floors and there was no protection, just detection.

We welcome your submissions on where you are proposing Firetrace as well as where you have already supplied Firetrace. We will make sure the report is published in a "generic" fashion. Just fill us in on the details such as why the customer is looking at or why they chose Firetrace, and we'll take care of the rest! Submit your application details to: gray@firetrace.com.

