

Firetrace® Application Briefs

AB010

Data Storage Centers

Several Firetrace distributors have installed Firetrace Indirect Low Pressure (ILP) systems on automatic data storage units that are worth at least \$250,000 each. There are two or three ILP systems using 12 lbs. of FM-200® in each system to protect each of these valuable units. A Manual Release provides an added layer of protection, and a Pressure Switch is incorporated in the system to turn off the power to the unit upon system activation.

Flammable Liquids

A distributor in the Southeast has a customer that is interested in fire suppression solutions for small, palletized units that they manufacture. These units use solvents and other flammable chemicals that pose a substantial fire risk. Firetrace Detection Tubing would be the perfect answer to their unique application. The Firetrace systems would be Indirect Low Pressure (ILP) using 20 lbs. of dry chemical powder and include a Pressure Switch and Audible Alarm.

PLC Cabinets

Control rooms for industrial concerns have traditionally been total-flooded with clean agent. In a departure from this, a manufacturer's insurance company informed them that they could use Firetrace instead of a total flooded room engineered system because of their budget constraints. The Firetrace systems will be protecting PLC cabinets with both high and low-voltages present. Systems will be Direct Low Pressure (DLP) filled with 6 lbs. of FM-200, and a Pressure Switch would be included for remote notification.

Remote Generators

Small generator sets for cell phone sites have traditionally been ignored by Fire Protection Engineers. A major communications company is changing this paradigm. A distributor in the Northeast has provided quotes for generators comprising hazards of approximately 5' x 4' x 3' with the fuel tanks under the generators. Previously, they have considered electronic smoke detection, heat detection and flame detection for release of the suppressing agent. None of these methods proved stable enough to handle the rigors of the environment. Firetrace Detection Tubing seems to be an excellent alternative. Systems will be Direct Low Pressure (DLP) using 12 lbs. of FM-200 with two Pressure Switches. An additional benefit of Firetrace will be no need for 110-VAC to power any control panels.

Logging Equipment

A Firetrace distributor in the upper Midwest continues to install Firetrace Indirect Low Pressure (ILP) systems on logging equipment. To date, they have installed Firetrace on over 10 different harvesters. The Firetrace systems are perfect for this application because they require no external power, have the flexible Firetrace Detection Tubing that is easily routed throughout the engine compartment and oil heater, incorporate a Manual Release and have a Press Switch that signals an Audible Alarm in the cab. What's more, each of these Firetrace installations uses flexible high-pressure hose as the discharge piping to readily withstand the rigorous vibrations of the rough terrain.



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EDM Equipment

A Firetrace distributor continues to sell Firetrace Indirect Low Pressure (ILP) systems to a major manufacturer of Electro Discharge Machines (EDM). This manufacturer has partnered with our local Firetrace distributor to offer fire protection to its customers. To date, they have protected over 25 different machines. Depending on the specific machine, either 6 or 12 lbs. of FM-200 are used as well as a Manual Release and a Pressure Switch to cut off the machine's power.

Aircraft Machining

A Firetrace distributor on the west coast has designed an Indirect Low Pressure system for protection of a machining center that manufactures precision aircraft parts. When the Firetrace Detection Tubing senses a fire, the system will discharge 6 lbs. of FM-200 into the machining center's electrical control enclosure (100 cubic feet). A system Pressure Switch notifies the building local alarm system upon activation.

Fabric Manufacturer

A fabric manufacturer was contacted by a Firetrace distributor to discuss fire protection for their facility. During the sales call, it was determined that two electrical control cabinets were responsible for all of the plant's automated manufacturing. With mission critical equipment like this, the distributor proposed one Direct Low Pressure (DLP) system with 6 lbs. of FM-200 to protect both cabinets using a "T" Connector on the Firetrace Detection Tubing to split the tubing run into both cabinets. A Pressure Switch to cut off power and tie into central alarm system was also part of the system.

Dual Belt Metal Sanding/Grinder

A distributor in the Midwest has proposed Firetrace to protect a unique grinding operation that uses two sanding belts to grind away metal during manufacturing. Due to the potential for excessive heat build up that could ignite the metal particles, an Indirect Low Pressure (ILP) system using 12 lbs. of FM-200 was proposed to automatically detect and suppress a fire. A Manual Release and Pressure Switch to cut off the power to the grinder were included.

Backup Power Systems

A distributor in the Southeast has proposed the use of Firetrace for the protection of battery compartments in computer room UPS systems at major military base. Dependable backup power is a must, and Direct Low Pressure (DLP) Firetrace systems filled with both 6 and 12 lbs. of FM-200 will provide the level of assurance needed for their military communications. Pressure Switches will be incorporated as well for remote notification of system activation.

Motorized Surfboards

A manufacturer of small, motorized water sports equipment has a need for fire protection inside the motor enclosure. The Firetrace PyroFlex tubing filled with FM-200 would be an ideal solution to protect the small interior of the motor. The Firetrace PyroFlex advantages include its size, weight, water-resistance and cost-effectiveness.



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Financial Institutions

A distributor in the Midwest has found a supplier of equipment and services to financial institutions that has interest in fire protection from Firetrace. They see the Firetrace PyroFlex and Direct Low Pressure (DLP) systems being used in bank night deposit boxes and small ATM machines, respectively. A five-foot section of PyroFlex with approx. ½ lb of FM- 200 would be used for the night deposit boxes, and a DLP system with 3 lbs. of FM-200 for the ATM along with a Pressure Switch for activation of the buildings alarm system.

Engine Testing

A distributor along the Atlantic seaboard has proposed Firetrace to a major automaker for fire protection at their gasoline engine test site within the automotive assembly plant. The test bays would be protected with an Indirect Low Pressure (ILP) system using 12 lbs. of FM-200 dispersed through two nozzles. A Manual Release and a Pressure Switch are also included in the proposal.

Oil Mist Collectors

A Firetrace Distributor has installed three Firetrace Indirect High Pressure (IHP) systems to protect the oil mist collectors that hang from the ceiling above CNC machines. They vacuum up the oil mist through filters. Recently, the customer had a significant fire that occurred when the oil mist ignited and was very concerned about another fire getting out of control. Each installed Firetrace system used 20 lbs. of CO₂ and included a Pressure Switch to cut off the airflow upon system activation.

Casino Security Controls

A distributor in the Northeast has found an excellent Firetrace application in a new casino. As security is a number one priority of all casinos, this location feels compelled to incorporate fire protection into their critical security systems. The security room's electrical cabinets are being considered for protection with a Firetrace Direct Low Pressure (DLP) system using 12 lbs. of FM-200. A Pressure Switch is included as well.

Paint Spray Mixing Application

A distributor in the Midwest has proposed Firetrace to a major automaker to detect a fire within an electrostatic paint mixing cabinet. Since metal cannot be used within the paint cabinet, Firetrace is the perfect answer. The Direct Low Pressure (DLP) system will be for detection only and incorporate a 3 lb. cylinder that will simply be filled with nitrogen. There will be 50 feet of Firetrace Detection Tubing routed throughout the inside of the cabinet. Upon detection, the Firetrace system's Pressure Switch will activate a large CO₂ system to suppress the fire.

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.

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