

The Solution

"Ducts conveying dry material released by equipment having a high frequency of generated sparks shall be..."

(1) Equipped with a listed spark detection and extinguishing system installed downstream from the last material entry point and upstream of any collection equipment...."

-NFPA 664 8.2.2.2.2 2002 Edition

A potential disaster of this magnitude is best handled with preventative measures that are immediate, effective and reliable. The Flamex® system detects and extinguishes a spark in an average of less than 3/10 of a second...well before it reaches a filter or collection bin. This may be the quickest pay-back you'll ever receive on a business investment.

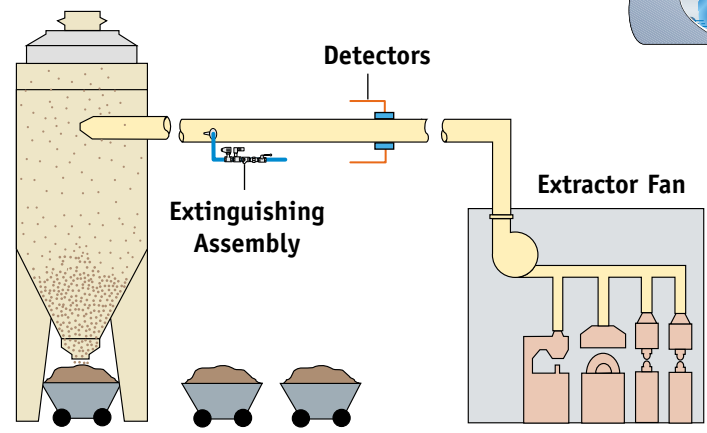
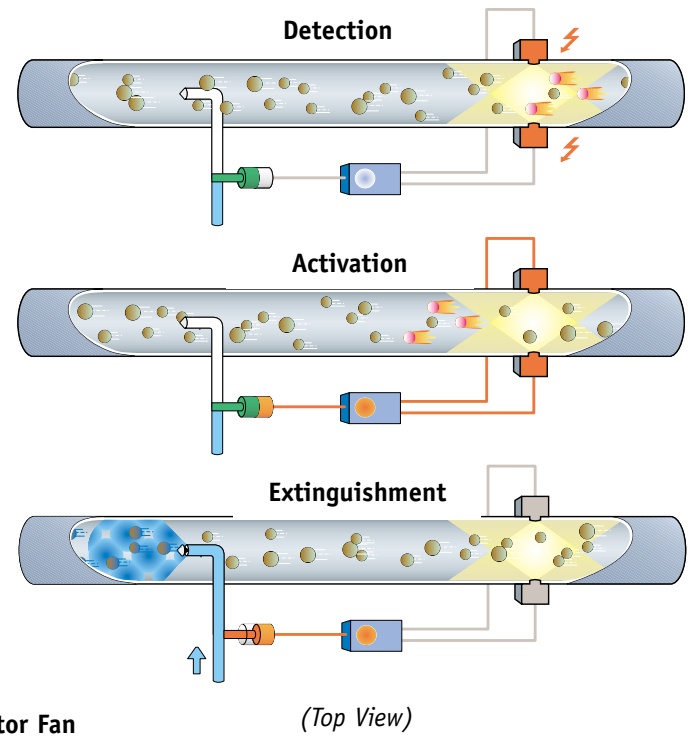
HERE'S HOW IT WORKS

As a spark travels through the duct work of your collection system, it is instantly identified by the Flamex infrared detectors flush mounted to the blow pipe. The system initiates water-flow through strategically placed nozzles to establish an instantaneous wall of water inside the duct, effectively extinguishing the sparks or embers. The system automatically resets itself with no down time or messy clean-up.

Each Flamex system is carefully constructed of the finest and most durable materials available. Additionally, we provide alternative detectors and extinguishing agents when necessary to tailor your system to meet the specific needs of the working environment.



Flamex Infrared Detectors Mounted to Duct Wall



"A fire hazard shall be deemed to exist in the system wherever dry wood particulate is collected or conveyed..."

-NFPA 664 8.2.1.4 2002 Edition

The Logical Choice



Originally developed by a dedicated group of engineers who recognized the hazards created by dust collection and air filtration systems, Flamex is the world's premier spark detection and extinguishing system. It is also the first system of its kind to earn Factory Mutual Approval. The Flamex has been the recipient of the woodworking industry's prestigious Challenger Award and is entering its fourth decade of proven explosion and fire prevention.

Flamex® Inc. is the exclusive North American distributor for the system and has provided thousands of installations across the Western Hemisphere with safe, reliable and efficient fire prevention. These facilities represent a wide variety of industries that require pneumatic conveying of dust and other combustibles.

EXCELLENCE IN MANUFACTURING

Every Flamex system we install has been built to the industry's highest standards by our manufacturing partner, Minimax GmbH. Located in Bad Oldesloe, Germany, Minimax has obtained ISO 9001 certification and maintains a rigorous quality control standard to ensure our customers that their Flamex system is both durable and reliable.



EXPERIENCE WHERE IT COUNTS

Our staff of highly trained and well-seasoned professionals has taken the product through four generations of developmental improvement and is uniquely qualified to assess your facility and consult with you on a recommended course of action. If it is determined that our system is the best solution, we will customize Flamex to fit smoothly into your work environment in the most unobtrusive and cost effective manner. As your company grows, the Flamex system can be easily modified to grow with you.

SERVICE AFTER THE SALE

Our support doesn't stop with the installation of your Flamex system. We provide a fully staffed maintenance department with experienced technicians to assist you with any repairs or modifications that may be required. Our location in Greensboro, North Carolina boasts a large inventory of spare parts, which can be shipped to you with same day service in many cases. We also offer a complete electronics repair facility with services that are competitively priced. For more information on how a Flamex system can help provide you with a safer more cost effective work place, please contact us at the address below.



1978 Challenger Award Recipient



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Approved

Factory Mutual Approval Numbers:
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Why RISK a dust EXPLOSION?



SPARK DETECTION AND EXTINGUISHING SYSTEM

The Problem



"If combustible dusts are collected, there is a fire and explosion hazard in the collector, regardless of bag construction."

-Factory Mutual Engineering and Research

THE PROBLEM

If your company utilizes pneumatic conveying and air filtration systems in the manufacturing process, you are at risk for the hazards resulting from dust fires and explosions. The industries at highest risk employ drying, cutting, grinding and other abrasive processes where sparks and even fires are generated.

IT CAN HAPPEN IN A MATTER OF SECONDS

The normal operation of many production machines can easily produce a spark. It is then picked up by the pneumatic system and transported along with highly combustible wood chips, dust or other finely divided particles. If that spark reaches the collector or storage bin, an explosion or fire is almost a certainty.

Even one such event can result in damages ranging from costly repairs and down time to loss of plant facilities or even worse... an expensive price to pay for something that can be readily avoided.

FLAMEX CONTROL CONSOLES

Flamex® control panels are engineered with the latest technological features including an audible and visual alarm, 24-hour minimum battery back-up, power status indicator, and internal supervision for both detector and valve circuitry.

Additionally, every Flamex control panel comes with auxiliary relays which can enhance plant safety by allowing automatic equipment shut down, activation of remote alarms, dampers or high speed abort gates.

FMZ 4100 GAB 6

2 zone capacity microprocessor based panel. 17"W x 11"H x 6"D



FLE 3000

Single zone control panel. 12"W x 9"H x 6"D



FMZ 4100 GAB 24

8 zone capacity microprocessor based panel. 24"W x 22"H x 9"D



FMZ 4100 GAB 36

12 zone capacity microprocessor based panel. 24"W x 22"H x 9"D

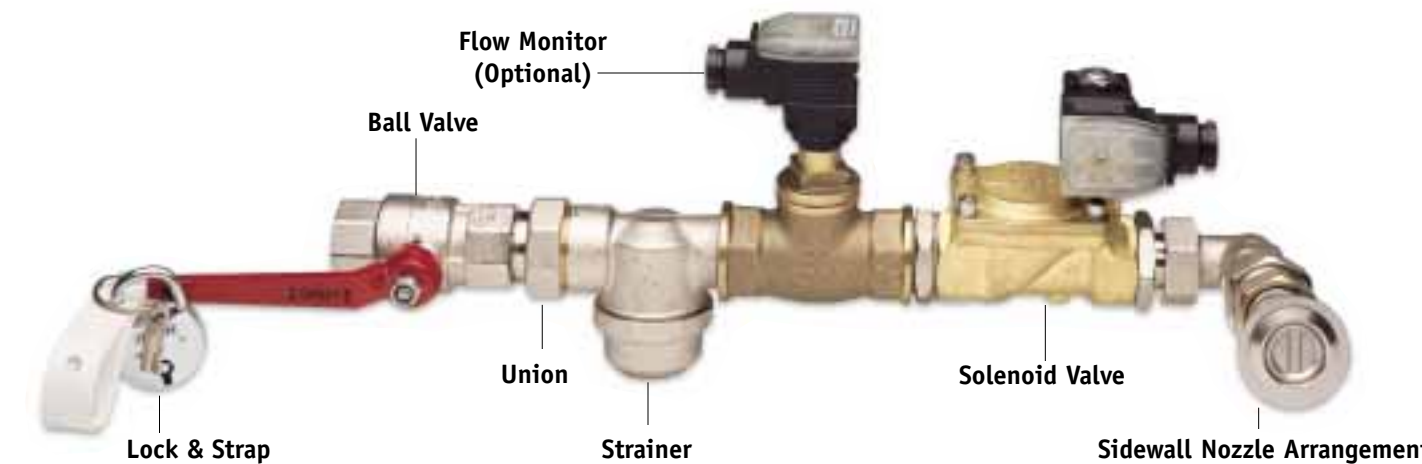


FMZ 4100 GAB 32

Microprocessor based console with expansion capabilities to 32 zones. 24"W x 41"H x 15"D. Larger versions of this panel are available. Event Printer optional.



Flamex Extinguishing Assembly



Superior Nozzle Design

Exclusively with FLAMEX! The Flamex stainless steel, sidewall nozzle mounts flush with the inside wall of your duct and produces a solid wall of water which effectively covers the entire cross section of the duct.



FLAMEX EXTINGUISHING DEVICES

Our versatile extinguishing sets are engineered for immediate and reliable response. Designed to provide only the minimal amount of water for proper extinguishment. These spray sets are available in 1" and 3/4" with the nozzle arrangement that provides maximum effectiveness for your specific application.

Flamex® Components

FUX 3001-E

Infrared spark detector used in ambient temperature applications.



FUX 3111-E

Spark detector with individual identity feature.



FUX 3001 L-1

Fiberoptic probe allows use of the detector in high temperature applications.



FLAMEX DETECTORS

These highly advanced, infrared detectors are engineered for the immediate identification of sparks or flames in industrial environments. The detector lens is mounted flush with the inside wall of your material handling system.

Heat, Smoke & Flame Detectors

Additional system compatible detectors for more comprehensive protection. Including flame detector with self supervising optical integrity.



FUX 3001-E with Air Purge

For use with compressed air to help keep the detector lens clean in particularly difficult detection applications.



Flow Monitor

Indicates actual water flow through the Flamex solenoid valve.



90 GPM Booster Pump

Increases extinguishing water pressure in those facilities where available pressure is insufficient.

Alarm Devices



Remote alarm horns and strobe lights can be used with the Flamex to annunciate system activity. Available in 24VDC and 120VAC.

FLAMEX ACCESORIES

We offer a wide variety of accessories that allow us to facilitate system testing, enhance monitoring and supervisory capabilities while tailoring the system to best fit the individual needs of your company.



External Test Light System

Simulates spark activity from an external source to allow the testing of each zone of detectors from the control panel location.