



www.kiddefiresystems.com



CARDOX™ LP CO₂ SUPPRESSION SYSTEM

Plain and Simple...

The Kidde CARDOX Low-Pressure Carbon Dioxide (CO₂) System is a cost-effective solution when used to protect areas that require multiple suppression cycles, expansion capabilities, numerous hazards or more than 5000 lbs of CO₂.

CO₂ is an odorless, colorless, inert gas that extinguishes fire primarily by diluting the oxygen that supports combustion. It is applied by either the "total flooding" or "local application" method. CO₂ is not recommended for normally occupied spaces, except when other means of fire protection are not effective.

Total flooding delivers CO₂ into an enclosure until the fire is extinguished. For open hazards, the CO₂ local application method blankets the hazard extinguishing the flames and cooling the hazard.

In "total flooding", the enclosure of the hazard protected is flooded to a proper concentration. In "local application", CO₂ is directly applied in the proper amount at the rate required to cover the protected hazard.

- CO₂ is fast, efficient, cost-effective and adaptable for a wide range of hazards
- Multi-hazard, high risk protection can be designed to provide automatic, simultaneous discharge for a variety of hazards and configurations
- Non-damaging to property and electrically non-conductive
- Bulk low pressure CO₂ storage units are suitable for indoor or outdoor placement



- Utilizes well established safety means to minimize risks to personnel
- Railway Traffic Controls

Problem Solved! Why Choose Kidde?

We are a leader in the fire protection industry. We have innovated many products and extinguishing system design techniques. We offer High Pressure CO₂, CARDOX Low Pressure CO₂ and ECS Clean Agent fire suppression systems. Our full line of conventional and addressable electronic control panels finish the package to provide a complete system solution.

Our network of certified personnel and best-in-class distributors have the training, experience and technical skills to provide you with all of the services needed to keep your property protected. We offer the following services: application engineering; inspection and testing; emergency repairs; hazard analysis; NFPA upgrades; safety, maintenance and operation site procedure; venting analysis; room integrity testing and more.

When you choose Kidde, you've chosen the world's most respected name in special hazards fire protection.



Cardox Low-Pressure CO₂ Features:

Fast. Within seconds, CO₂ penetrates the entire hazard area to smother the fire before it can develop into a costly event.

Economical. Low-Pressure CO₂ is less expensive to replenish and requires a smaller footprint for agent storage. Multiple discharges of system are possible without switch over to the reserve.

Low Maintenance. Low-Pressure CO₂ systems do not require hydrostatic testing... ever. Fill connections are easily accessed without the involvement of plant personnel. The liquid-level gauge continuously monitors the amount of agent stored eliminating the need to verify weight.

No Clean Up. CO₂ leaves no residue, eliminating the need for a time-consuming and costly clean-up. Additionally, CO₂ is electrically nonconductive and does not cause spoilage of organic materials.

Efficient. CO₂ vapor chokes off combustion quickly. In a Low Pressure system, reserve supply is obtained without complicated manifolds or valves.

Eco-Friendly. CO₂ is a basic element of the atmosphere and a naturally occurring by-product of combustion. Its use has no long-lasting environmental impact.

Adaptive. CO₂ is effective on a wide range of flammable and combustible materials in both surface and deep-seated fires. Low-Pressure systems allow multiple hazard protection from a common piping system.

We are Kidde Fire Systems.

Kidde Fire Systems' products save people and property from the dangers of fire. Our broad product offering and design expertise have been protecting assets worldwide since 1917. We're the smart choice when early fire detection and suppression needs are especially demanding. To advance our leadership in the industry, our family of special hazard fire protection brands has united. Kidde Fire Systems now incorporates Chemetron Fire Systems and Fenwal Protection Systems. As Kidde Fire Systems, we will enhance our customer focus and partnerships, provide highly efficient service and training, preserve a deep combined expertise in an array of vertical markets, and accelerate our product and technology developments, to the advantage of everyone who benefits from a world made safer from fire.

One united company. Advancing fire protection.



Applications for cardox Low-Pressure CO₂:

- Coal Handling, Grinding and Storage Systems
- Warehouses and Flammable Materials Storage
- High Voltage Switchgear Buildings
- Manufacturing and Industrial Processes
- Automotive Industry
- Power Generation Enclosures
- Printing Applications
- Rolling Mills and Metal Processing
- Fume Handling Systems
- Cement Plants
- Industrial Fryer Process Lines

Approvals & Listings

- Factory Mutual

Certifications available upon request

- CSA
- PED

400 Main Street
Ashland, MA 01721 USA
508.881.2000

www.kiddefiresystems.com

CARDOX is a trademark of Kidde-Fenwal, Inc.
SSK-109 Dec 2014 ©Kidde-Fenwal, Inc., All Rights Reserved.