



CARDOX® LP CO2

Fire Suppression System

Plain and Simple

The Kidde Fire Systems CARDOX® Low-Pressure (LP) 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.

CARDOX LP CO2 System Benefits:

- 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



Why Choose Kidde Fire Systems?

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.

CARDOX LP 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.

Clean. CO₂ leaves no residue, eliminating the need for a time consuming and costly clean-up. Additionally, CO₂ is electrically non-conductive 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.

Environmentally-Responsible. 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.

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Applications for CARDOX Low-Pressure CO₂:

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

Approvals & Listings:

- Factory Mutual

Certifications :

Available Upon Request:

- CSA
- PED

