

Predict. Prevent. Protect.

CARDOX Low-Pressure Carbon Dioxide Fire Protection - Plain & Simple

FIRE PROTECTION FOR SPECIAL HAZARDS

The Chemetron 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 3000 lbs of CO₂. As the premier Low Pressure CO₂ System manufacturer, Chemetron has led the way in establishing industry standards.

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.

PROBLEM SOLVED!

- 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 CHEMETRON?

We are a leader in the fire protection industry. We have innovated many products and extinguishing system design techniques. We design and manufacture CARDOX Low and High Pressure Carbon Dioxide and CAFex™ 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.



APPROVALS & LISTINGS

- UL Listed
- Factory Mutual
- CSFM Listed



CHEMETRON
Fire Systems™

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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



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.

APPROVED FOR USE WITH CHEMETRON SUPPRESSION CONTROL UNITS:

- Micro MLX
- Micro SLX
- Micro XLT LP

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