

Low-Pressure Carbon Dioxide

CARDOX

Approvals and Listings:

- Underwriters' Laboratories (UL)
- Factory Mutual (FM)



Fire Protection—Plain and Simple

Chemetron Low-Pressure Carbon Dioxide System

A cost-effective solution when protecting an area that requires more than 5000 lbs. of Carbon Dioxide (CO₂). As the premier Low-Pressure Carbon Dioxide System manufacturer, Chemetron has led the way in establishing industry standards.

Systems can be specifically engineered to fit the unique fire protection requirements of a wide array of applications, including:

- Coal Handling, Grinding and Storage Systems
- Large Warehouses
- Flammable Materials Storage
- Manufacturing and Industrial Processes
- Automotive Industry
- Power Generation
- Printing Plants
- Rolling Mills and Metal Processing
- Telecommunications
- Cement Plants
- Off-Shore Platforms

Carbon Dioxide (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 in unoccupied spaces.

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 needed rate to cover the protect hazard.

CHEMETRON
Fire Systems™

A UTC Fire & Security Company

Why Choose Chemetron Low-Pressure Carbon Dioxide?



Fast... Within seconds, Carbon Dioxide penetrates the entire hazard area to smother the combustion before it can develop into a costly and damaging fire.

Economical... Low-Pressure Carbon Dioxide 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 Carbon Dioxide 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 therefore, weighing is not necessary.

Non-Damaging... Carbon Dioxide 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... Carbon Dioxide vapor chokes off combustion quickly. In a Low-Pressure system reserve supply is obtained without complicated manifolds or valves.

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

Adaptive... Carbon Dioxide 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 single piping system.



We understand the challenges inherent in a competitive business environment. No company can afford the major interruption to its operations and financial repercussions that a fire, even a small one, can cause. Your ability to prevent or recover from a business disruption is critical and depends on selecting the best fire protection system and agent.

As a leader in the fire protection industry, we have brought to market many innovative products and extinguishing system design techniques. Chemetron designs and manufactures Low-Pressure Carbon Dioxide, High-Pressure Carbon Dioxide, FM-200®, 3M™ Novec™ 1230 Fire Protection Fluid and Water Mist fire suppression systems and electronic control panels.

Our worldwide network of certified personnel and distributors have the training, experience and technical skills to provide you with all of the services needed to keep your people and property safe. In addition to providing the best in fire suppression systems, we also 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.

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