



High-Pressure Carbon Dioxide

HP CO2

Fire Suppression System

Fast Fire Protection for Challenging Hazards

Effective and Reliable Suppression

Flammable materials and vapors present a significant risk of fire for many industrial processes and environments. The Kidde Fire Systems High-Pressure (HP) Carbon Dioxide (CO₂) Suppression System was designed to provide complete fire protection for a wide range of challenging applications from printing presses and generator enclosures to dip tanks and commercial fryers. The Kidde Fire Systems HP CO₂ system delivers clean, dependable suppression in seconds, greatly reducing the loss of assets, productivity and revenue associated with a fire-related business interruption.

The Kidde Fire Systems HP CO₂ System utilizes highly sophisticated electric and/ or pneumatic detection units which sense fire at its inception, immediately alerting the control system. The Control Panel initiates the release of CO₂ from the system cylinders. The suppressant is delivered through a fixed piping network with specially designed nozzles; providing rapid, automatic fire protection around the clock.

The Kidde Fire Systems HP CO₂ is ideal for industrial processes where flammable materials and vapors present a potential hazard. For this reason, it is essential to have sufficient fire protection on site. The Kidde Fire Systems HP CO₂ System, designed specifically for the hazard and operated automatically, assures immediate detection and rapid suppression.

HP CO₂ System Features:

- Damage-Free Fire Suppression Reduces Loss
- Design Versatility with Three System Configurations
 - » Total Flooding
 - » Local Application
 - » Local Hose Line
- Rapid Response – Discharges in Seconds
- Fights Surface or Deep-Seated Fires



Why Choose an HP CO2 System?

Superior Suppression. Carbon dioxide is a colorless, odorless, electrically- nonconductive gas whose density is approximately 50% greater than air. A Kidde Fire Systems HP CO2 System suppresses fire by providing a blanket of heavy gas that absorbs heat from the fire and reduces the oxygen content of the atmosphere to a point where combustion becomes impossible.

Damage-Free. A naturally-occurring atmospheric element, carbon dioxide dissipates into the air allowing an almost immediate return to “business as usual” without the interruption of a costly clean-up and the expense of damage to assets from suppressant residue. This results in fewer repair costs and reduced downtime.

Design Versatility. Because carbon dioxide is an ideal suppressant for a wide variety of industrial applications, Kidde Fire Systems offers three system configurations to efficiently protect different hazard types: Total Flooding, ideal for enclosed hazard areas, Local Application, used to protect a specified hazard area in an open floor plan, or a Local Hose Line, cost effective protection for fighting smaller fires throughout a hazard.

Kidde Fire Systems Quality. At Kidde Fire Systems, we know a fire-related business interruption can keep your company from being competitive in a global market. We are committed to researching, developing and providing the most advanced fire protection technology and best customer service in the industry. We understand the marketplace demands an “up and running” business world around the clock. We are dedicated to keeping industry “in business” by keeping fires out.

Typical Applications Protected by an HP CO2 System:

- Flammable Liquid Storage Areas
- Marine Applications
- Quench and Dip Tanks
- Large Commercial Fryers
- Engine and Electrical Rooms
- Spray Booths and Paint Lockers
- Turbine Generators
- Printing Presses
- Rolling Mills
- Dust Collectors
- Industrial Ovens
- Mixing Operations

Local Applications for an HP CO2 System:

- Modular HazMat Storage Facilities
- Exhaust Ducts
- Machinery Spaces
- Environmental Storage Facilities

Approvals & Listings:

HPCO2 Land:

- UL Listed
- ULC Listed
- FM Approved

HCO2 Marine:

- UL Listed
- ULC Listed
- UL Marine Listed
- USCG Approved
- ABS
- DNV Type Approval
- Lloyd's Register Type Approval

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