

CARDOX[®]

Low Pressure Carbon Dioxide Hand Held Hose Line



Effective: December 2019
K-64-050 Rev AA

FEATURES

- *UL Listed for LPCO₂ Service*
- *1-in ID Hose*
- *Proven Field History*
- *Flexible*
- *Scalable*
- *Economical*

DESCRIPTION

When protecting a fire risk with a fixed suppression system is not practical, a carbon dioxide hose line system may be an effective alternate solution. Carbon Dioxide (CO₂) is an environmentally responsible, clean and electrically non-conductive fire suppression agent choice. Upon end of discharge, CO₂ will simply evaporate after ventilating the area without requiring any cleanup of the area or equipment. With over a century of established and proven use as a fire suppression agent along with numerous replenishment sources, CO₂ provides an economical fire protection solution. When supplied from a Low Pressure Carbon Dioxide (LPCO₂) storage unit, the availability for fire protection is relatively infinite compared to an alternative stored pressure portable or semi-portable unit. Further, a single LPCO₂ unit allows multiple hose line systems to be deployed either independently or simultaneously throughout a facility. Each hose line system can provide up to 150-ft of range to attack fire events, which allows multiple equipment sites to be protected by a single hose line. Compared to an alternative store pressure option, a LPCO₂ hose line can provide much greater discharge rates and durations allowing attack of larger fire events and at a greater stand-off distance, which allows the operator to be further away from the fire event. The operator handles the playpipe, which discharges CO₂ at the fire by squeezing the playpipe valve open or closed. The playpipe has been engineered to safely and effectively handle the high flow rates available to a LPCO₂ hose line system for optimal fire suppression.

See page 2 for a typical LPCO₂ hoseline system layout.

SPECIFICATIONS

Pressure, Max: 375-psi (25-bar)
Temperature, Min: -20°F (-28°C)
Temperature, Max: 150°F (65°C)

ORDERING INFORMATION

See Referenced Components.

REFERENCED COMPONENTS

Description	Reference Data Sheet
Hose & Reel, Spooled	K-64-051
Playpipe	K-64-055
Bracket, Playpipe	K-64-056
Pilot Light	K-64-057

TYPICAL APPLICATIONS

- Manufacturing involving burning or welding
- Electrical Motors (Steel Mills, etc.)
- Cable Trays or Trenches (Power Generation sites, etc.)
- Aircraft Hangars
- Fuel Storage or Dispensing Stations

Please contact Kidde Fire Systems with any questions regarding potential applications, system design or use.

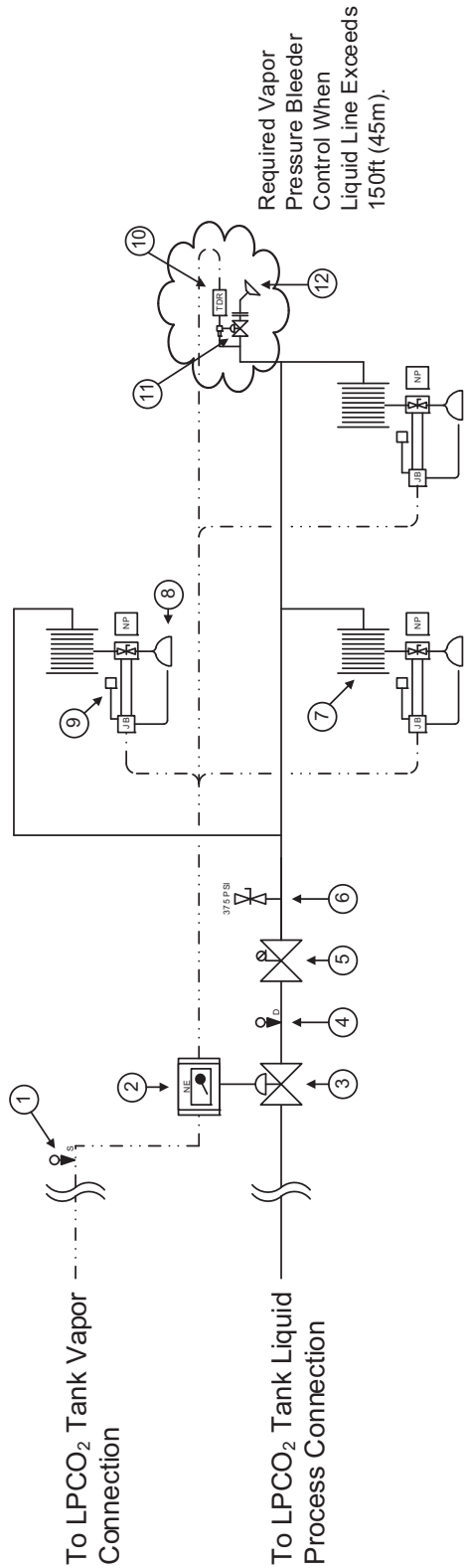


Figure 1. Typical LPCO₂ Hoseline System

Table 1: System Layout Legend

Number	Description	Number	Description
1	Switch, S	7	Hose and Reel
2	Electro-Mechanical Pilot Cabinet, Normally Energized	8	Playpipe and Bracket
3	Selector Valve	9	Pilot Light
4	Switch, D	10	Time Delay Relay Cabinet
5	Lockout Valve	11	3-way Solenoid and Filter
6	Relief Valve (375 psi)	12	Nozzle*

*Locate nozzle outdoors away from normally occupied areas.

EXPORT INFORMATION (USA)

Jurisdiction: EAR

Classification: EAR99

This document contains technical data subject to the EAR.

Cardox is a registered trademark of Kidde-Fenwal, Inc., or its parents, subsidiaries, or affiliates. All trademarks are the property of their respective owners.

This literature is provided for informational purposes only. KIDDE-FENWAL, INC. believes this data to be accurate, but it is published and presented without any guarantee or warranty whatsoever. KIDDE-FENWAL, INC. assumes no responsibility for the product's suitability for a particular application. The fire suppression system design, installation, maintenance, service and troubleshooting must be performed by trained, authorized Kidde Fire Systems distributors for the product to work correctly. If you need more information on this product, or if you have a particular problem or question, contact: KIDDE-FENWAL, INC., Ashland, MA 01721 USA, Telephone: (508) 881-2000.