



CARDOX Low Pressure Carbon Dioxide Suppression System



One united company. Advancing fire protection.

Since
1917

WE ARE KIDDE FIRE SYSTEMS

Kidde Fire Systems' products save people and property from the dangers of fire. Our broad product offering and design expertise have been protecting assets worldwide since 1917. We're the smart choice when early fire detection and suppression needs are especially demanding. To advance our leadership in the industry, our family of special hazard fire protection brands has united. Kidde Fire Systems now incorporates Chemetron Fire Systems and Fenwal Protection Systems. As Kidde Fire Systems, we will enhance our customer focus and partnerships, provide highly efficient service and training, preserve a deep combined expertise in an array of vertical markets, and accelerate our product and technology developments, to the advantage of everyone who benefits from a world made safer from fire.



CARDOX low pressure carbon dioxide system provide fast, efficient, cost-effective fire protection for a wide range of hazards. We offer a single-source solution for a total integrated fire suppression system, providing protection, control and detection long before substantial fire damage can occur.

TYPICAL LPCO₂ APPLICATIONS:

- Electrical Equipment Rooms
- Coal Handling Systems
- Exhaust Ducts, Dust Collectors
- Gas/Diesel Generator Units
- Printing Presses
- Cold Rolling Mills
- Storage/Process Rooms
- Hydroelectric Generators
- Grinding/Machining Units
- Lube Oil Rooms/Areas
- Paint Booths

EXPERTISE

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. We offer the following services:

- Application Engineering
- Inspection and Testing
- Hazard Analysis
- NPFA Upgrades
- Safety, Maintenance and Operation Site Procedure

FIRE SUPPRESSION

The CARDOX Low Pressure Carbon Dioxide System offered by Kidde Fire Systems is a cost effective solution when used to protect areas that require multiple suppression cycles, expansion capabilities, numerous hazards or when more than 3000 lbs. of CO₂ is needed.

We have the expertise and product line to protect a full range of hazards with vertical and horizontal storage tanks ranging from 2¾ ton to 60 ton and are available in 120, 220, 380, 460 and 575 volts, 50/60Hz, single and three phase variants. Optional CSA and PED approved systems are also available.

ACCESSORIES

Kidde Fire Systems offers a full range of accessories including warning signs, hoses, connection fittings, pressure gauges, solenoid valves, and the actuators required to operate the system.

DETECTION AND ALARM

We have led the way in providing UL listed and FM approved NEMA 4 and NEMA 12 cabinets to withstand harsh environments. Our full line of addressable and conventional electronic control panels are specifically designed for low pressure CO₂ applications where multiple discharges may be required. All panels are designed by Kidde with independently programmable agent releasing circuits and proprietary Triple R protection to protect against inadvertent operation.

Our addressable systems are scalable and economical, from relatively small systems with a handful of devices to massive industrial campuses with many thousands of devices. Addressable systems enable each initiating device to have an individual address. This is most beneficial when servicing a system. These controllers manage up to 64 releasing solenoids for multiple hazard applications.

The conventional control panels are generally used for single hazards. These rugged panels have sophisticated program capabilities, timing variables and offer the best value.

In addition to conventional and addressable detection, Kidde Fire Systems offers a unique fire and overheat detection system that is suitable for all types of dusty, hazardous, vibrating and/or inaccessible environments. Available with field adjustable (AlarmLine) or fixed temperature LHS alarm set points. Kidde has the solution for applications where spot heat detectors are unsuitable.



Low Pressure Co₂ Storage Units for Fire Applications

CAPACITY SIZE	LENGTH	WIDTH	HEIGHT	DIP TUBE SIZE	VOLTAGE CODE	EMPTY WEIGHT	WEIGHT FILLED	DELIVERABLE CO ₂	
TONS	FEET, INCHES		IN INCHES		IN POUNDS				
HORIZONTAL	2.75	14'-6"	4'-3"	6'-10"	4"	A	4,000	9,500	4,950
	3.75	11'-11"	5'-9"	8'-10"	6"	B	7,500	15,000	6,750
	6	16'-0"	5'-9"	8'-10"	6"	B	9,000	21,000	10,800
	8	19'-6"	5'-9"	8'-10"	6"	B	10,200	26,200	14,400
	10	23'-4"	5'-9"	8'-10"	8"	B	11,500	31,500	18,000
	12	26'-2"	5'-9"	8'-10"	8"	C	12,650	36,650	21,600
	14	19'-8"	7'-4"	10'-7"	8"	C	14,000	42,000	25,200
	18	25'-0"	7'-4"	10'-7"	8"	C	16,800	52,800	32,400
	22	29'-4"	7'-4"	10'-7"	8"	C	19,000	63,000	39,600
	26	32'-8"	7'-4"	10'-9"	8"	C	23,500	75,500	46,800
	30	36'-8"	7'-4"	10'-9"	8"	C	26,500	86,500	54,000
	34	40'-8"	7'-4"	10'-9"	8"	C	29,000	97,000	61,200
	38	44'-8"	7'-4"	10'-9"	8"	D	31,500	107,500	68,400
	42	48'-8"	7'-4"	10'-9"	8"	D	34,000	118,000	75,600
	46	52'-8"	7'-4"	10'-9"	8"	D	36,500	128,500	82,800
50	56'-8"	7'-4"	10'-9"	8"	D	40,000	140,000	90,000	
60	66'-8"	7'-4"	10'-9"	8"	E	45,000	165,000	108,000	
VERTICAL	6	7'-11"	6'-5"	15'-3"	6"	B	10,000	22,000	10,800
	14	8'-9"	8'-6"	22'-4"	6"	C	15,500	43,500	25,200
	26	8'-9"	8'-6"	33'-8"	6"	C	30,000	82,000	46,800
	30	8'-9"	8'-6"	37'-5"	6"	C	35,000	95,000	54,000

VOLTAGE CODES SIZE	A	B	C	D	E
120/60/1ph	•				
220/50/1ph	•	•			
220/60/1ph	•	•	•		
380/50/3ph	•	•	•	•	
220/60/3ph	•	•	•	•	•
460/60/3ph	•	•	•	•	•
575/60/3ph	•	•	•	•	•

For help with your upcoming project, contact our Applications Engineering department:

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