EVENOS
Fire Protection Systems

EVENEXT-CO_2

Fire Suppression Systems

UL LISTED

evenext CO2
Gaseous Suppression Systems

ABOUT EVENOS FIRE PROTECTION SYSTEMS INC.

Evenos Fire Protection Systems Inc. operates in the fire safety sector, which has become essential in the age of technology. Specializing in "Automatic Fire Extinguishing Systems," our company places great emphasis on research and development, a key requirement of the information age. We closely monitor global technological advancements and are committed to providing services using the latest internationally certified and approved products. Evenos Fire Protection Systems Inc., which exports to many regions worldwide, continues to expand its production and communication through this extensive export network.

Intersec, Dubai 2024

Evenos Fire Protection System which adopts the principle of sustainability as its main strategy, is proud of signing large-scale contracts in Turkey and abroad in a short time, while at the same time taking firm steps towards maximizing the goals of its employees, customers and business partners.

Evenos Fire Protection System will continue to work with all its strength in line with its goal of healthy and sustainable growth by increasing its market share in the constantly developing and growing world economy.

OUR VISION

Through comprehensive brand communication, we aim to enhance our presence internationally, positioning ourselves as one of Turkey's leading manufacturers of Automatic Fire Extinguishing Systems and competing with world-renowned brands.

OUR MISSION

Evenos Fire Protection Systems Inc. has adopted the principle of producing environmentally friendly products, constantly focusing on innovation by investing in research and development to ensure continuous production in line with national and international standards.

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EVENEXT-CO_2 Fire Suppression Systems

EVENEXT-CO_2 provides a powerful and cost-effective fire suppression solution, ideally suited for industrial facilities, power plants, and areas with limited human occupancy. Carbon dioxide rapidly reduces oxygen concentration, effectively extinguishing fire without leaving any residue or damaging sensitive equipment.

LISTED

Activity Areas

EVENEXT-CO_2 systems are ideal for use in the following:

- High extinguishing efficiency for a wide range of fire classes
- No residue or clean-up required after discharge
- Cost-effective solution with globally proven reliability
- Suitable for normally unoccupied or remote hazard areas

Fast Suppression

EVENEXT-CO_2 systems deliver rapid and effective fire suppression through total flooding discharge. Upon fire detection, carbon dioxide is released within seconds, quickly reducing the oxygen concentration below combustion levels. The system ensures complete coverage of the protected area, extinguishing the fire without leaving any residue. With its proven reliability, CO_2 suppression is especially suited for high-risk industrial hazards and normally unoccupied spaces, guaranteeing fast and comprehensive fire control.

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System Applications

- Coal Silos
- Coating Operations
- Commercial and Industrial Fryers
- Computer Room Subfloors
- Dip Tanks
- Dust Collectors
- Electric Generators
- Electrical Panels
- Gas Turbines
- Hazardous Material Storage
- Machining Operations
- Marine Applications Spray Booths
- Printing Presses
- Semiconductor Wet Benches
- Transformer Vaults
- Unmanned Control Rooms
- Waste Disposal Equipment
- Wave Solder Machines

CO_2 Fire Suppression Systems protecting your most valuable assets safely, without the need for human intervention.

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System Components

1

45kg CO_2 Cyl c/w K. Valve & Label

- **Test Pressure** : 250 bar / 225 Bar (GB)
- **Empty Weight** : 75 kg
- **Finishing** : Red
- **CO_2 Capacity** : 45 kg
- **Manufacture to** : As required
- **Material** : Mn Steel, Thread 28.8 x 14" TPI
- **Filling Ratio** : 0.667
- **Develop Pressure** : 60 bar (1015 psi) @ 20°C

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CO_2 K Valve

- **Material** : Brass Hpb59-1
- **Test Pressure** : 250 Bar
- **Burst Disc pressure** : 190 bar
- **Pneumatic actuation pressure** : 5-15 bar

Description
K-Valve

3 Discharge Hose & Pilot Loop Hose

- **Specification :** SAE 100R1AT
- **Min. Burst Pressure :** 8000 psi (½"), 11000 psi (¼")
- **Test Pressure :** 3000 psi

Description
Discharge Hose c/w check valve
Pilot Loop Hose
Pilot Loop Hose – Pilot Cylinder

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Pilot Cylinder with Solenoid Actuator

Specifications
2kg Pilot Cylinder
5kg Pilot Cylinder
Solenoid & Manual
Gauge & Switch

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CO_2 Discharge Nozzles

Discharge nozzle with horn type is used for diffusing CO_2 gas to prevent scattering of burning material.

- Nozzle material : Brass CZ 121
- Horn material : Aluminium Alloy

Standard Nozzle

CO_2 nozzles in total flooding system should be arrange in the protected space in a manner to ensure equal distirbution of CO_2 gas during a discharge.

Discharge Nozzle with Horn

6 Other Components

Description
Vent Plug – 3/8" BSP
Manifold Safety Valve – 3/4" BSP
Cylinder Strap c/w Nut

System Components

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CO2 System Setup With Solenoid Actuated Pilot Cylinder

	Description
1	45Kg CO_2 cylinder (Filled)
2	Discharge Hose c/w check valve
3	Pilot Loop Hose
4	Pilot cylinder with Solenoid actuator
5	Vent plug ⅛" BSP
6	Safety valve ¾" BSP
7	Pilot loop ¼" x 475 mm

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Selector Valve System

Our UL listed selector valve system can be used in scenarios whereby one common bank of CO2 cylinders is used for protecting several rooms by directing the flow of CO2 gas to the room whereby the fire is detected, thus reducing the cost of the entire system. Available in following sizes.

Size	Valve Connection
DN50	2" BSP
DN65	2.5" BSP
DN80	3" BSP
DN100	4" BSP

CO2 Fire Suppression Systems prevent the spread of fire by cutting off oxygen from flammable materials. They are preferred in high-risk areas, such as those containing flammable liquids, gases, and electrical equipment.

Electronic System Parts

EP203 Automatic Extinguisher

Specification	Value
Approvals/certifications	LPCB (176c) / (0832-CPD-0794).
Mains supply	230V 50/60Hz.
Mains rated current	810mA max.
Internal power supply	19V-28.5V (27V nominal). Ripple 7V max (battery fault)
No. of detector zone circuits	3 @ 19-28Vdc (Max. length per circuit is 250m)
Product dimensions (mm)	439 W x 276 H x 70 D mm (back box); 467 W x 293 H x 29 D mm (lid).
Weight	4.2kg (without batteries).
Operating conditions/ temperature	−5°C to +40°C. Max relative humidity: 95%.
IP Rating	IP30.

Smoke Thermal and Multi Detectors

Product Code	Explanation	Specifications
ECO 1000	Detector Base	•Low profile design •Low current draw •Operates on 12 & 24VDC Systems •Remote alarm test feature •Easy Maintenance
ECO 1002	Multi Criteria Photoelectic Smoke / Thermal Detector	
ECO 1003	Photoelectric Smoke Detector	
ECO 1005	Rate of Rise Thermal Detector	

Enclosure Integrity Test

EVENEXT-CO2 delivers fast and effective fire protection with proven reliability. Cross-zone detection ensures accurate activation within a specified time, while the agent stays in the room for the necessary retention period. In addition, each enclosure can be tested for air-tightness, giving full assurance that the protected space meets all integrity and safety standards.

EVENOS
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Your Reliable Solution Partner in Fire Safety

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