



Fm200 Flooding System 15Mpa Automatic IG541 Mixed Gas Fire Extinguishing For Server Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Guangzhou Xinlin Firefighting Equipment Co., Ltd.
- Certification: ISO9001, CE, QMS, CCCF, CNAS
- Model Number: DMP90/20-XL-300
- Minimum Order Quantity: 10 set system
- Price: negotiation
- Packaging Details: Plywood outer box with bubble bag or paper
- Delivery Time: 10-15 working days after payment or receipt of L/C
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 50000 sets per week



Product Specification

- Portable Extinguisher: FM200 Gas Fire Extinguisher
- Starting Mode: Automatic, Electrical Manual, Mechanical Emergency
- Capacity: 70L, 80L, 90L
- Feature: Clean Gas And Environmental Friendly
- Body Material: Steel Cylinder
- Pressure: 15MPa
- Package Size: 520.00cm * 520.00cm * 1650.00cm
- Type: Automatic Fire Extinguisher
- Object: Class A, B, C, E Fires
- High Light: DMP90/20-XL-300 Fire Suppression Equipment
- Highlight: fm200 flooding system, fm200 for server room, fm200 gas

Fire Suppression System 15Mpa Automatic IG541 Mixed Gas Fire Extinguishing

Product description

The IG541 gas fire extinguishing system is an advanced fire protection system based on naturally occurring gas mixtures as fire extinguishing agents. This system uses three gases, nitrogen (N₂), argon (Ar) and carbon dioxide (CO₂), to be mixed in a specific ratio (usually 52% nitrogen, 40% argon and 8% carbon dioxide) to form IG541 mixed gas fire extinguishing agent. This ratio is designed to ensure fire extinguishing efficiency while minimizing the impact on humans and the environment.

Working principle: The working principle of the IG541 gas fire extinguishing system is based on the suffocation fire extinguishing method. When a fire occurs, the system will inject mixed gas into the protective area in a short period of time, quickly reducing the oxygen concentration in the area to less than about 15%, but still higher than the threshold that causes hypoxia in the human body, thus cutting off the source of the fire and sufficient oxygen. opportunities for contact to achieve the purpose of extinguishing the fire. At the same time, the IG541 mixed gas itself is not chemically active and will not react with objects in the protective zone, ensuring the safety of the protected equipment.

System Features

Environmentally friendly and harmless: The gases in IG541 fire extinguishing agent all originate from the atmosphere and can dissipate naturally after release. It has no pollution to the environment, no ozone layer depletion and no global warming potential.

Safe and reliable: Nitrogen, argon and carbon dioxide are non-toxic to the human body and can provide a certain period of safe evacuation window for personnel even during fire extinguishing.

Widely applicable: Due to its physical fire extinguishing characteristics, the IG541 gas fire extinguishing system is suitable for extinguishing Class A (solid), Class B (liquid and gas) and Class C (electrical equipment) fires, especially suitable for those sensitive to water and chemical fire extinguishing agents. place. scenes to be used

Data centers and computer rooms: IG541 gas is non-corrosive to electronic equipment and can effectively protect expensive electronic equipment from damage.

Libraries, archives and museums: Provide non-destructive fire protection for precious documents, cultural relics and non-replicable data.

Communication equipment rooms and power dispatch centers: There are a large number of electrical equipment and important control systems in such places. The IG541 gas fire extinguishing system can quickly and effectively extinguish fires without damaging the equipment.

Chemical plants, nuclear power plants and oil platforms: For special places containing precision instruments and electrical equipment, the IG541 gas fire extinguishing system is also suitable.

Financial trading venues and bank vaults: the protection of valuable property and important business continuity is of great significance.

To sum up, the IG541 gas fire extinguishing system has become a priority fire protection solution in many important places due to its excellent environmental performance, efficient and reliable fire extinguishing capabilities and wide applicability. This system plays a vital role in many situations where water or chemical fire extinguishing agents are not allowed to remain.

Technical parameter

Mode I	DMP90/20-XL-300
Agent	N ₂ , Ar, CO ₂ (proportion 52%, 40%, 8%)
Executive standards	GB25972-2010
Working pressure (20°C)	15MPa
Working pressure temperature	0~50°C

Filling density (20°C)	211.15kg/M ³
Maximum working pressure(50°C)	17.2MPa
Fire extinguishing methods	Total flooding fire extinguishing
Starting Method	Automatic, pneumatic, and mechanical emergency operations
Spraying time	≤60S
Drive bottle group pressure	6Mpa
Application place	Computer room, communication room, control room, valuable equipment room.cultural relics collection library and archive room, data storage room, generator room, transformer room, substation circuit breaker, circulating equipment hydraulic equipment, drying equipment, dust removal equipment painting production line.etc

Fire extinguishing mechanism

IG-541 mixed gas fire extinguishing mechanism belongs to physical fire extinguishing method. The gas mixture is released to extinguish the fire by reducing the oxygen concentration. Generally, the air in protected areas contains 21% oxygen and less than 1% carbon dioxide. When the oxygen in the protected zone drops below 15%, most of the fuel will stop burning. The released gas mixture reduces oxygen levels in the containment zone to 12.5%, while increasing carbon dioxide levels to 4%. When the proportion of carbon dioxide increases, it will speed up the respiratory rate and the ability to absorb oxygen, and when the fire extinguishing design concentration in the fire extinguishing system is not greater than 43%, the system is safe and harmless to the human body.

System operation process

When a fire occurs in the protected area, smoke, high temperature and light radiation make the smoke detector detect the fire signal, the detector converts the fire signal into an electrical signal and transmits it to the controller, the controller automatically sends an audible and visual alarm and makes a logical judgment, starts the linkage device, and sends a system start signal after a delay of 30 seconds. Start the container valve on the drive cylinder to release the drive gas, open the selection valve leading to the fire protection area, and open the container valve of the fire extinguishing agent bottle group. The fire extinguishing agent of each bottle group is collected through the high pressure hose to the collector, and the fire extinguishing agent reaches the nozzle installed in the protection area through the selection valve, and the signal feedback device installed on the pipeline acts to transmit the signal to the controller. The controller activates the gas release indicator outside the protected zone. When the pressure in the protected area exceeds 1000pa, the mechanical pressure relief device automatically opens for pressure relief.

Company profile

Guangzhou Xinlin Firefighting Equipment Co., Ltd. is located in Guangzhou, a vital city connecting China to the world, characterized by its convenient transportation and picturesque environment. We are a manufacturing company with a professional and seasoned team of employees, consisting of solution design experts, technical installation specialists, quality inspection professionals, and after-sales service teams, dedicated to the research and development of HFC-227ea (FM200), IG541, IG100, and Novec 1230 products.

Currently, we offer a range of commonly used fire suppression systems, including FM200 fire suppression systems, cabinet-style FM200 fire suppression systems, fully automatic fire extinguisher (hanging), portable fire extinguisher, IG541 fire suppression systems, IG100 fire suppression systems, fire detection tube fire suppression systems, as well as automatic fire extinguishing pipelines.

With high quality products, perfect service and good reputation, the company has won wide praise from customers at home and abroad.

Why choose us

- Efficient management system
- More than 10 years of experience in gas fire fighting industry
- Advanced equipment and professional engineers
- We provide 8x6 hr technical support and after-sales service

Frequently Asked Questions

Q1: Are you a manufacturer or a trading company?

A1: We are the manufacturer.

Q2: Do you have OEM orders?

A2: Yes, according to the customer's requirements.

Q3: Where is your factory located? How do I get there?

A3: Our factory is located in Dongzhou Industrial Park, Xintang Town, Zengcheng District, Guangzhou City, Guangdong Province, China.

You are very welcome to visit our factory.



Guangzhou Xinlin Fire Fighting Equipment Co., Ltd.



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