



## IG541 Inert Clean Gas Fire Extinguishing System Automatic Fire Extinguishing Equipment For Communication Room

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: XINLIN
- Certification: UL,FM,CMA,CNAS,ILAC-MRA,CCC
- Model Number: QMH20/90-XL-03
- Minimum Order Quantity: 1set 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

- Origin: Guangzhou, Guangdong
- Power Source: Inert Gas Suppression System
- Working Pressure: 20MPa
- Starting Mode: Automatic, Electrical Manual, Mechanical Emergency
- Application Scenario: Indoor
- Company Type: Manufacturer Over 10-Years
- Feature: Clean Gas And Environmental Friendly
- Body Material: Steel Cylinder
- Fire Rating: Class A, B, C,E Fires
- Highlight: Inert Clean Gas Fire Extinguishing System, IG541 Inert Gas Fire Suppression System, Automatic Fire Extinguishing Equipment



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## Product Description

### Product description

#### 20MPa IG541 Inergen Fire Suppression System

### IG-541 (Inergen) Fire Suppression System

The IG-541 (also known as Inergen) fire suppression system is an inert gas fire suppression system widely used to protect areas sensitive to water or containing valuable equipment, such as data centers, communication rooms, archives, museums, etc. It consists of three naturally occurring inert gases found in the atmosphere: nitrogen (N<sub>2</sub>), argon (Ar), and carbon dioxide (CO<sub>2</sub>). Specifically, its composition is typically 52% nitrogen, 40% argon, and 8% carbon dioxide.

### Key Features of IG-541

**Safe for Humans:** At designed concentrations, IG-541 is safe for humans because it does not significantly reduce oxygen levels to a hazardous degree. The presence of carbon dioxide helps compensate for increased respiratory rate, allowing people to breathe normally during brief exposure.

**Environmentally Friendly:** As a mixture of naturally occurring gases, IG-541 contains no ozone-depleting substances and does not contribute to the greenhouse effect, making it harmless to the environment.

**Non-Conductive and Leaves No Residue:** After extinguishing a fire, it leaves no solid or liquid residue, making it ideal for protecting electronic equipment and other high-value assets.

**Efficient Fire Suppression:** It suppresses fires by reducing the oxygen concentration in the fire area to a level where combustion cannot sustain itself while maintaining enough oxygen for human respiration.

### Working Principle

When a fire is detected, detectors installed in the protected area trigger an alarm and, after a delay period (typically 30 to 60 seconds) to allow for personnel evacuation, the high-pressure IG-541 gas stored in cylinders is released. The gas rapidly fills the entire protected area through pipes and nozzles. Since IG-541 is slightly heavier than air, it can effectively envelop the fire source, dilute oxygen, and prevent flame propagation until the fire is completely extinguished.

### Technical parameter

Model	QMH20/90-XL-03
Agent	N <sub>2</sub> , Ar, CO <sub>2</sub> (proportion 52%, 40%, 8%)
Executive standards	GB25972-2010
Working pressure (20°C)	20MPa
Working pressure temperature	0~50°C
Filling density (20°C)	281.06kg/M <sup>3</sup>
Maximum working pressure(50°C)	23.2MPa
Fire extinguishing methods	Total flooding fire extinguishing
Starting Method	Automatic, pneumatic, and mechanical emergency operations
Spraying time	≤60S
Drive bottle group pressure	6Mpa
Application	circulating equipment hydraulic equipment

### Installation and Maintenance

**Professional Design:** Detailed calculations are required based on the specific size, shape, and internal layout of the protected area to ensure that the gas can be evenly distributed and reach effective suppression concentrations.

**Regular Inspection:** This includes checking pressure gauge readings, valve conditions, pipe integrity, etc., to ensure system reliability.

**Simulation Testing:** Functional tests should be conducted regularly to verify detector sensitivity, control system response speed, and the gas release process.

**Training Exercises:** All relevant personnel should receive training on how to respond to emergencies, familiarizing themselves with escape routes and emergency operating procedures.

## Applications

The IG-541 fire suppression system is particularly suitable for places where traditional fire suppression methods could cause secondary damage, such as:

- Data centers
- Communication rooms
- Archives and libraries
- Museums and art galleries
- Hospital operating rooms and imaging departments
- Other areas sensitive to water or storing important documents and materials

In summary, the IG-541 fire suppression system offers an efficient, safe, and environmentally friendly option, especially for protecting critical facilities sensitive to water or other chemical extinguishing agents. Proper installation, use, and maintenance are crucial for ensuring the system's performance.

## 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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