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Global Heptafluoropropane Extinguishing Equipment with Fire Detection Tube Market Growth 2026-2032

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Abstracts

The global Heptafluoropropane Extinguishing Equipment with Fire Detection Tube market size is predicted to grow from US$ 83.15 million in 2025 to US$ 120 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

Heptafluoropropane Extinguishing Equipment with Fire Detection Tube is an automatic fire suppression system that uses a heat-sensitive detection tube as both the fire detection and actuation component. When local temperatures rise, the tube ruptures, releasing pressure to trigger the discharge of heptafluoropropane for fire suppression. Its upstream supply involves high-performance polymers for detection tube fabrication, specialty steels and aluminum alloys for high-pressure cylinders and valves, as well as high-pressure sealing components and fittings. In 2024, the global production of Heptafluoropropane Extinguishing Equipment with Fire Detection Tube reached 184,000 units, with an average unit price of USD 440 per system.

Market Overview

In 2024, the global market for Fire Detection Tube Fire Extinguishing Devices is led by Asia with a 45% share, North America accounts for 30%, Europe 20%, and other regions 5%. The Asian market is the largest, with China, Japan, and neighboring countries contributing significantly through production capacity and sales, and cost-efficient manufacturing combined with rapid market responsiveness allowing the region to dominate the global market.

Key Manufacturers and Industry Competition

Major manufacturers include Gielle, Asenware, Beijing Zhengtianqi Fire Equipment, Pavln. Upstream suppliers provide high-performance polymers, specialty steels and

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aluminum alloys, extinguishing agents, and high-pressure valves and cylinders, while downstream clients include data centers, computer rooms, museums, medical facilities, and high-end industrial equipment. Industry competition focuses on technological capability, automation level, and supply chain integration, with Asian manufacturers holding a strong position due to their scale and cost advantages.

Technology Trends and Innovation Directions

Technological trends focus on improving detection tube sensitivity, extending service life, reducing leakage risks, and enhancing high-temperature resistance. Integration with digital monitoring and smart connectivity enables remote status monitoring and rapid fire response, driving the development of intelligent, modular, and highly secure products.

Policy and Industry Development Driver

Industry growth is driven by global fire safety regulations, building fire protection codes, and critical facility safety requirements. Mandatory installations in high-risk areas and data centers, along with incentives for environmentally friendly extinguishing agents, sustain demand and encourage manufacturers to optimize production processes and ensure regulatory compliance.

Future Outlook

The Fire Detection Tube Fire Extinguishing Device market is expected to evolve toward high-end, intelligent, and centralized solutions. Companies will expand automated production capacity, optimize supply chain management, and pursue overseas market expansion to increase market share. Industry concentration is likely to rise, with technological innovation and adoption of environmentally safe materials becoming core competitive factors, particularly in the fast-growing Asian market.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Heptafluoropropane Extinguishing Equipment with Fire Detection Tube Industry Forecast” looks at past sales and reviews total world Heptafluoropropane Extinguishing Equipment with Fire Detection Tube sales in 2025, providing a comprehensive analysis by region and market sector of projected Heptafluoropropane Extinguishing Equipment with Fire Detection Tube sales for 2026 through 2032. With Heptafluoropropane Extinguishing Equipment with Fire Detection Tube sales broken down by region, market sector and

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sub-sector, this report provides a detailed analysis in US$ millions of the world Heptafluoropropane Extinguishing Equipment with Fire Detection Tube industry.

This Insight Report provides a comprehensive analysis of the global Heptafluoropropane Extinguishing Equipment with Fire Detection Tube landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Heptafluoropropane Extinguishing Equipment with Fire Detection Tube portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Heptafluoropropane Extinguishing Equipment with Fire Detection Tube market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Heptafluoropropane Extinguishing Equipment with Fire Detection Tube and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Heptafluoropropane Extinguishing Equipment with Fire Detection Tube.

This report presents a comprehensive overview, market shares, and growth opportunities of Heptafluoropropane Extinguishing Equipment with Fire Detection Tube market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Direct HFC-227ea Flame Detector Tube

Indirect HFC-227ea Flame Detector Tube

Segmentation by Application:

Computer Rooms and Communication Facilities

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- Power and Cable Systems
- Cultural Heritage and Archives
- Medical and Industrial Equipment
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany

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France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Gielle

Asenware

Beijing Zhengtianqi Fire Equipment

Pavln

Hunan Jinding

Jian'an Fire Equipment

Beijing Zhongkezhichuang Electrical&Equipment

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Aerospace Kangda (Beijing) Technology Development

Fujian Shousheng Fire Technology

Guangzhou Shengjie Fire Equipment

Key Questions Addressed in this Report

What is the 10-year outlook for the global Heptafluoropropane Extinguishing Equipment with Fire Detection Tube market?

What factors are driving Heptafluoropropane Extinguishing Equipment with Fire Detection Tube market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Heptafluoropropane Extinguishing Equipment with Fire Detection Tube market opportunities vary by end market size?

How does Heptafluoropropane Extinguishing Equipment with Fire Detection Tube break out by Type, by Application?

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