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Global Fire Detection Tube Fire Extinguishing Device Market Growth 2026-2032

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Abstracts

The global Fire Detection Tube Fire Extinguishing Device market size is predicted to grow from US$ 199 million in 2025 to US$ 287 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

A Fire Detection Tube Fire Extinguishing Device is a compact automatic suppression system that uses a heat-sensitive detection tube as both the detection and actuation component, widely applied in computer rooms, electrical cabinets, cable tunnels, data centers, and museums. Its upstream supply chain mainly involves high-performance polymers (for detection tubes), specialty steels and aluminum alloys (for valves and cylinders), high-pressure sealing materials, as well as key components such as high-pressure cylinders, regulators, gauges, fittings, and extinguishing agents (HFC-227ea, FK-5-1-12, CO?). Single-line capacity of fire detection tube extinguishing devices is limited by tube extrusion and cylinder/valve assembly. A small line produces about 1000–2,000 systems/year, a medium line 3000–8,000 systems/year, and a large automated line 5,000–30,000 systems/year, with actual output influenced by average tube length and component supply. In 2024, the global production of Fire Detection Tube Fire Extinguishing Devices reached 454,000 units, with an average unit price of USD 420 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

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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 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 “Fire Detection Tube Fire

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Extinguishing Device Industry Forecast" looks at past sales and reviews total world Fire Detection Tube Fire Extinguishing Device sales in 2025, providing a comprehensive analysis by region and market sector of projected Fire Detection Tube Fire Extinguishing Device sales for 2026 through 2032. With Fire Detection Tube Fire Extinguishing Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Fire Detection Tube Fire Extinguishing Device industry.

This Insight Report provides a comprehensive analysis of the global Fire Detection Tube Fire Extinguishing Device 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 Fire Detection Tube Fire Extinguishing Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Fire Detection Tube Fire Extinguishing Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Fire Detection Tube Fire Extinguishing Device 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 Fire Detection Tube Fire Extinguishing Device.

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

Market Segmentation

Segmentation by Type:

Heptafluoropropane Tube Fire Detection Extinguishing Device

Perfluorohexanone Tube Fire Detection Extinguishing Device

Carbon Dioxide Tube Fire Detection Extinguishing Device

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Segmentation by Application:

- Computer Rooms and Communication Facilities
- 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

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Europe

Germany

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

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Jian'an Fire Equipment

Beijing Zhongkezhichuang Electrical&Equipment

Aerospace Kangda (Beijing) Technology Development

Fujian Shousheng Fire Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Fire Detection Tube Fire Extinguishing Device market?

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

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

How do Fire Detection Tube Fire Extinguishing Device market opportunities vary by end market size?

How does Fire Detection Tube Fire Extinguishing Device break out by Type, by Application?

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