Aircraft Fire Protection Systems - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Aircraft Fire Protection Systems Market size is estimated at USD 1.43 billion in 2025, and is expected to reach USD 1.87 billion by 2030, at a CAGR of 5.45% during the forecast period (2025-2030).

Key Highlights
- In recent years, a surge in air travel and advancements in aviation technologies have propelled the demand for aircraft fire protection systems. Stringent safety regulations imposed by aviation authorities worldwide underscore the market's importance. Regulatory bodies such as the Federal Aviation Administration (FAA) in the United States, the European Union Aviation Safety Agency (EASA), and the Civil Aviation Administration of China (CAAC) play critical roles in shaping fire safety standards and compliance.
- The industry's growth trajectory is fundamentally dependent to the growth of the aviation sector, with key players playing a pivotal role in shaping its future. As the market evolves, collaboration between industry leaders and regulatory agencies remains critical to ensuring the highest standards of safety in aviation globally. A comprehensive range of technologies constitutes the market's solutions, including advanced fire detection systems, alarm and warning systems, and sophisticated fire suppression systems for various commercial and military aircraft. These technologies operate by stringent international safety standards and regulations.
- However, the lack of proper aviation infrastructure and the imposition of additional aviation taxes in emerging economies may hamper aircraft sales and thereby dampen market prospects.

Aircraft Fire Protection Systems Market Trends

Commercial Aircraft Segment Will Showcase Highest Growth during the Forecast Period

The commercial aircraft segment is projected to show remarkable growth during the forecast period. The growth is attributed to the increasing number of aircraft deliveries and rising demand for advanced fire protection systems. Fire protection systems are mandatory to be equipped on all types of passenger and cargo aircraft to ensure the safety of passengers and cargo. Therefore, the growth of the fire protection systems is directly related to the growth of commercial aircraft during the forecast period. With an increase in air passenger traffic, procurement of commercial aircraft also saw a surge after the recovery from the COVID-19 impact.

Airlines are placing huge orders to meet the growing demand for passenger travel across the world. As of December 2023, Airbus has orders for around 2,000 aircraft while Boeing is leading second at around 1,200 orders. Out of these orders, Indigo's order of 500 A320 family aircraft in June 2023 has remained the largest order in the commercial aviation industry. In addition, in November 2023, Emirates also announced an order of 95 Boeing B777 wide-body aircraft worth USD 52 billion. Such orders are aimed at enhancing the opportunities for fire protection system manufacturers to capture huge market. These aircraft is expected to delivered through the forecast period, thereby directly driving the growth of fire protection systems that needs to be installed onto the aircraft.

North America Dominates the Market During the Forecast Period

Due to the presence of a well-financed aviation industry, the highest aircraft fleet, and rising spending on the aviation sector, North America is expected to continue its market share domination during the forecast period. Higher air traffic resulted in the procurement of several aircraft by regional and international airline operators in the region. Boeing, one of the major aircraft OEMs based in the US, generates a huge demand for aircraft fire protection systems. As the OEMs receive new orders for aircraft, the demand is simultaneously generated for commercial aircraft fire protection systems, as the FAA mandates the installation of evacuation systems in all active aircraft.

Factors such as the availability of raw materials, political stability, and low production costs drove the establishment of new aerospace manufacturing facilities in the region. For instance, as part of its Air Superiority 2030 program, the US Air Force (USAF) is developing a pair of two new high-tech fighter aircraft, dubbed the Penetrating Counter Air. The integration of advanced weaponry necessitates the integration of sophisticated fire detection systems to detect even minor fires caused by the malfunction of any critical component of the aircraft.

In contrast, a similarly advanced fire suppression system is required to contain the spread of the fire and ensure minimal collateral damage to other systems of the aircraft. Thus, increasing focus on enhancing passenger security and the rising number of aircraft deliveries is driving the market across the region.

Aircraft Fire Protection Systems Industry Overview

The aircraft fire protection systems market is semi-consolidated in nature, with a presence of few local and global players with significant shares in the market. Some of the key players in the market are Parker-Meggitt (Parker Hannifin Corporation), RTX Corporation, Siemens AG, FFE Ltd, and Advanced Aircraft Extinguishers Ltd. Generally, the players in the market receive long-term contracts, and this allows the companies to include constant profits if there is demand for aircraft in the aviation industry.

A substantial market share is dominated by Parker-Meggitt (Parker Hannifin Corporation) and RTX Corporation, as they provide fire safety solutions for the majority of commercial aircraft and business jets. RTX Corporation provides fire protection systems to Airbus A220, Irkut MC-21-300, Airbus A380, Boeing B767, COMAC C919, Gulfstream G280, Gulfstream G650, etc. while, Meggitt PLC provides for aircraft programs like Airbus A320, Airbus A330, Airbus A350 XWB, Airbus A380, Airbus A400M, Boeing B737,

Boeing B777, Boeing F/A-18 Super Hornet, Embraer E-Jet 170 series, Embraer E-Jet 190 series, and Embraer ERJ-145 series, among others.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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