

Global Airframe De-icing and Anti-icing System Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Airframe De-icing and Anti-icing System market size was valued at US\$ 489 million in 2024 and is forecast to a readjusted size of USD 650 million by 2031 with a CAGR of 4.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

De-icing and anti-icing system refers to the range of equipment used to prevent the accumulation of snow, ice, and frost, whether by electromechanical, chemical, thermal, or pneumatic measures. These are most commonly used to remove snow and ice from aircraft and thoroughfares, but serve other limited purposes.

De-icing system refers to devices or systems designed to remove existing ice accumulation from surfaces (e.g., aircraft wings, wind turbine blades, power lines) through physical or chemical methods (e.g., mechanical vibration, heating, or de-icing fluid sprays). Common technologies include electrothermal de-icing, pneumatic heating, and chemical agents (e.g., glycol-based fluids).

Anti-icing system refers to devices or systems that prevent ice formation on surfaces under freezing conditions (low temperature, high humidity) through active or passive measures (e.g., surface heating, anti-ice coatings, ice-phobic materials). Typical applications include aircraft engine inlet anti-icing and ice-resistant coatings for power lines, aiming to intervene before ice adhesion occurs.

Globally, the de-icing and anti-icing system market in the aerospace sector is experiencing steady growth driven by increasing air traffic, stringent safety regulations, technological advancements, and changing climatic conditions. And some enterprises, like Safran, Collins Aerospace (RTX), GKN Aerospace, etc. are well-known for the wonderful performance of their de-icing and anti-icing system and related services.

In terms of product type, de-icing and anti-icing system can be divided into Mechanical De-icing System, Liquid Anti-icing System, Electro-thermal Ice Protection and others. In 2024, Electro-thermal Ice Protection accounted for a share of 61.15% in the global de-icing and anti-icing system market.

From the perspective of product application, Aviation de-icing and anti-icing system is widely used in Civil and Military. The Civil holds an important share in terms of Application, and it is expected to reach a value of US\$ 392.81 million by 2031, at a CAGR of 4.37% during 2025 and 2031.

The global key manufacturers of Aviation de-icing and anti-icing system include Collins Aerospace (RTX), GKN Aerospace, Meggitt (Parker Hannifin), Cox & Company, Liebherr, Honeywell, Ultra PCS, Hutchinson, CAV Systems, Ice Shield (SMR Technologies), LDI - Laminar De-Ice (Villinger), etc. In 2024, the global top five players had a share approximately 68.15% in terms of revenue.

Major future trends include:

1. Integration of Intelligence and IoT Technologies

Future de-icing and anti-icing system will increasingly adopt IoT, AI, and big data analytics for real-time monitoring and automated control. For instance, China's intelligent infrared wind turbine de-icing system automatically switches between anti-icing and de-icing modes based on environmental data, significantly improving efficiency. Smart vibration-based systems for power lines utilize edge computing to predict ice formation and trigger preventive measures.

2. Eco-Friendly and High-Efficiency Materials

Demand for biodegradable and chloride-free de-icing agents (e.g., potassium acetate) will rise to mitigate environmental impact¹. Non-contact technologies like infrared heating and electro-pulse systems are gaining traction due to their energy efficiency.

China's infrared de-icing technology reduces energy consumption by 50% compared to traditional methods while avoiding structural modifications³⁶.

3. Expansion into Emerging Sectors

Beyond aviation and roads, renewable energy infrastructure (e.g., wind farms and power grids) is a key growth area. Innovations such as China's non-contact wind turbine de-icing system enhance energy output by 50% during icy conditions³⁶. Power grid anti-icing technologies, like gravity-shift-based systems, reduce ice-related failures.

4. Regional Market Dynamics and Policy Influence

The Asia-Pacific region, led by China, is projected to grow fastest due to climate challenges and infrastructure investments. North America remains dominant, but stricter environmental regulations are driving demand for sustainable solutions.

5. Adaptation to Climate Change

Equipment must evolve to address extreme weather variability. Lightweight, low-energy solutions (e.g., AI-powered vibration systems for power lines) combined with weather prediction capabilities are critical for proactive ice management.

In summary, the aerospace de-icing market is moving towards increased efficiency, environmental responsibility, and technological innovation. The ongoing need for safer and more reliable aircraft operations in colder climates will continue to drive demand, ensuring sustained growth in the sector. Manufacturers who can offer cost-effective, scalable, and sustainable solutions will be well-positioned to capitalize on emerging opportunities.

This report is a detailed and comprehensive analysis for global Airframe De-icing and Anti-icing System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Airframe De-icing and Anti-icing System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Airframe De-icing and Anti-icing System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Airframe De-icing and Anti-icing System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Airframe De-icing and Anti-icing System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Airframe De-icing and Anti-icing System
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Airframe De-icing and Anti-icing System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Safran, Collins Aerospace (RTX), GKN Aerospace, Meggitt (Parker Hannifin), Cox & Company, Liebherr, Honeywell, Ultra PCS, Hutchinson, CAV Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Airframe De-icing and Anti-icing System market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche

markets.

Market segment by Type

Mechanical De-icing System

Liquid Anti-icing System

Electro-thermal Ice Protection

Others

Market segment by Application

Civil

Military

Major players covered

Safran

Collins Aerospace (RTX)

GKN Aerospace

Meggitt (Parker Hannifin)

Cox & Company

Liebherr

Honeywell

Ultra PCS

Hutchinson

CAV Systems

Ice Shield (SMR Technologies)

LDI - Laminar De-Ice (Villinger)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Airframe De-icing and Anti-icing System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Airframe De-icing and Anti-icing System, with price, sales quantity, revenue, and global market share of Airframe De-icing and Anti-icing System from 2020 to 2025.

Chapter 3, the Airframe De-icing and Anti-icing System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Airframe De-icing and Anti-icing System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020

to 2025.and Airframe De-icing and Anti-icing System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Airframe De-icing and Anti-icing System.

Chapter 14 and 15, to describe Airframe De-icing and Anti-icing System sales channel, distributors, customers, research findings and conclusion.

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