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Global Solid-State Cooling Technology Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solid-State Cooling Technology market size was valued at US$ 7.66 million in 2025 and is forecast to a readjusted size of US$ 23.60 million by 2032 with a CAGR of 10.6% during review period.

Solid-State Cooling Technology in this study refers to active thermal-management technologies that generate cooling airflow without conventional rotating fans, primarily using electrohydrodynamic (EHD), ionic-wind, plasma-actuator or related solid-state mechanisms. Electric fields or electrically driven microstructures generate and direct airflow across heat-generating components, enabling compact, low-vibration and low-noise thermal architectures. The technology is particularly relevant to space-constrained electronics such as notebooks, edge AI systems, servers, industrial electronics and aerospace electronics. Ventiva, Ionic Wind, YPlasma, Cedrion and Fusion Dynamics represent emerging EHD/plasma-based approaches, while Frore Systems represents an established alternative solid-state active-cooling architecture.

Key Findings

Solid-state cooling is moving from laboratory development toward commercial electronics integration

EHD and plasma-actuator technologies eliminate conventional rotating fan mechanisms

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Consumer electronics and edge AI devices are important near-term adoption markets

AI computing density is creating stronger demand for compact active thermal solutions

Commercial maturity varies significantly among competing solid-state cooling architectures

Market Trends

The market is evolving toward thinner modules, higher heat-removal capability, lower acoustic output and tighter integration with processors and heat spreaders. EHD ionic-wind developers are improving electrode geometry, airflow velocity, ozone management and high-voltage control, while DBD plasma approaches seek very thin actuator structures that can be integrated directly around thermal hotspots. At the same time, commercially deployed solid-state cooling chips are demonstrating that the category can progress beyond prototypes into OEM products, increasing pressure on emerging plasma and ionic-wind developers to improve manufacturability, reliability and cost.

Market Dynamics

Drivers

Rising processor power density, on-device AI workloads and thinner electronic form factors are the principal demand drivers. Conventional fans consume valuable internal volume and introduce noise, vibration and mechanical wear, creating limitations for compact devices. Solid-state cooling can provide targeted airflow in thinner configurations and therefore offers particular value in notebooks, tablets, edge AI equipment and other systems where space and acoustics are critical design constraints.

Restraints

The main restraints are manufacturing maturity, high-voltage power electronics, airflow-to-power efficiency, thermal-system integration and cost. EHD and plasma systems must also control discharge behavior and by-products such as ozone while maintaining

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stable airflow over long operating periods. For OEM adoption, suppliers must demonstrate reliability, safety, electromagnetic compatibility and consistent thermal performance under real product operating conditions.

Opportunities

The strongest near-term opportunities are in premium notebooks, tablets, compact AI systems and edge computing devices, where higher processor performance increasingly conflicts with limitations on product thickness and acoustic noise. Longer-term opportunities extend to AI servers, industrial power electronics, automotive electronics and aerospace systems. Ionic Wind is targeting high-performance computing and data-center-related applications, while Fusion Dynamics and Cedrion are also developing technologies for industrial, mobility and aerospace environments.

Challenges

A major challenge is achieving sufficient airflow and heat-transfer performance at competitive power consumption while retaining the key advantages of compact size and low noise. The industry must also transition from customized prototypes to repeatable high-volume manufacturing. Customer qualification is demanding because a cooling technology directly affects processor performance, device reliability and product safety, making OEMs relatively conservative when replacing established fan-based architectures.

Industry Chain Analysis

The upstream segment includes electrode materials, dielectric materials, semiconductor and high-voltage control components, ceramic or polymer substrates, thermal-interface materials and precision microfabrication processes. Midstream companies develop EHD airflow modules, DBD plasma actuators and other solid-state active-cooling devices, together with associated drive electronics and thermal-control software. Downstream applications include consumer electronics, AI servers and data centers, industrial electronics and aerospace equipment. As commercialization progresses, value creation is shifting from the actuator alone toward complete thermal subsystems optimized jointly with heat sinks, processors and enclosure design.

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Segment Insights

By technology, Electro Hydro Dynamic (EHD) cooling uses electric fields to ionize and accelerate air molecules, generating ionic wind without a rotating fan. Ventiva and Ionic Wind are representative developers of this approach, while Fusion Dynamics also develops an EHD platform. Dielectric Barrier Discharge (DBD) uses dielectric-covered electrodes to generate controlled plasma-induced airflow and is represented by companies such as YPlasma; Fusion Dynamics also identifies DBD as a primary actuator architecture. For market segmentation, the two categories can be retained, although DBD is technically related to the broader electrohydrodynamic/plasma-actuator family rather than being completely independent from EHD.

By commercialization stage, the supplier base spans Prototyping Stage, Early Commercialization Stage and Mass Production Stage. Ionic Wind was still advancing certification and market-readiness activities following its 2025 financing, while YPlasma demonstrated consumer-electronics cooling at CES 2026. Ventiva has progressed further toward product and OEM integration. Outside the initial company list, Frore Systems is an important mass-commercialization benchmark, with AirJet products already integrated into commercially available electronics.

Downstream Market Opportunities

Consumer Electronics is currently one of the clearest commercialization opportunities because notebooks, tablets and compact devices benefit directly from thinner, quieter cooling. AI Servers / Data Centers offer substantial longer-term potential as computing density increases, although cooling-power requirements are significantly higher. Industrial Electronics benefits from reduced mechanical wear and vibration, while Aerospace applications value low weight, compactness and reliability. The application structure in the attachment therefore broadly reflects the principal addressable markets for emerging solid-state active cooling technologies.

Regional Insights

North America is an important commercialization and technology-development center, supported by Ventiva and Frore Systems as well as YPlasma's U.S. operations. Europe has an active emerging ecosystem including Switzerland-based Ionic Wind, Spain-based Cedrion and the European development activities of YPlasma. Fusion Dynamics

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has roots and development activities in the United Kingdom while also expanding its U.S. presence. The competitive landscape is therefore internationally distributed, but advanced electronics customers and Asian manufacturing ecosystems are expected to play an important role in eventual volume deployment.

Competitive Landscape Analysis

The solid-state cooling technology market remains an emerging and technologically fragmented field. Within the EHD/plasma segment, Ventiva is among the more advanced companies in electronics-oriented ionic cooling, while Ionic Wind is progressing from research spin-off technology toward industrialization. YPlasma emphasizes DBD plasma actuators, Cedrion develops ionic-wind and cold-plasma cooling for electronics, and Fusion Dynamics is building an EHD/DBD cooling platform targeting electronics, data centers and aerospace. Frore Systems should be added to the broader competitive landscape because its AirJet platform is already commercially deployed and provides an important benchmark for solid-state active cooling, although its technical architecture differs from the EHD/DBD routes emphasized in the attachment. Competition is increasingly centered on cooling density, module thickness, acoustic performance, power consumption, reliability and manufacturability rather than simply eliminating the mechanical fan.

Report Scope

This report is a detailed and comprehensive analysis for global Solid-State Cooling Technology market. Both quantitative and qualitative analyses are presented by company, 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 Solid-State Cooling Technology market size and forecasts, in consumption value ($ Million), 2021-2032

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Global Solid-State Cooling Technology market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Solid-State Cooling Technology market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Solid-State Cooling Technology market shares of main players, in revenue ($ Million), 2021-2026

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 Solid-State Cooling Technology

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 Solid-State Cooling Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ventiva, Ionic Wind, YPlasma, Cedrion, Fusion Dynamics, etc.

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

Solid-State Cooling Technology market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Market segment by Type

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Electro Hydro Dynamic (EHD)

Dielectric Barrier Discharge (DBD)

Market segment by Technology Maturity

Prototyping Stage

Early Commercialization Stage

Mass Production Stage

Market segment by Application

Consumer Electronics

AI Servers / Data Centers

Industrial Electronics

Aerospace

Others

Market segment by players, this report covers

Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

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Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Solid-State Cooling Technology product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top players of Solid-State Cooling Technology, with revenue, gross margin, and global market share of Solid-State Cooling Technology from 2021 to 2026.
Chapter 3, the Solid-State Cooling Technology competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.
Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.
Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Solid-State Cooling Technology market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.
Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.
Chapter 12, the key raw materials and key suppliers, and industry chain of Solid-State Cooling Technology.
Chapter 13, to describe Solid-State Cooling Technology research findings and conclusion.

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