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Global Solid-State Cooling Technology Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G4F7FA5FD97AEN.html
Date: September 2026
Pages: 76
Price: US$ 4,480.00 (Single User License)
ID: G4F7FA5FD97AEN

Abstracts

The global Solid-State Cooling Technology market size is expected to reach $ 23.60 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

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

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

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

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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.

Segment Insights

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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 has roots and development activities in the United Kingdom while also expanding its U.S. presence. The competitive landscape is therefore internationally distributed, but

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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 studies the global Solid-State Cooling Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid-State Cooling Technology, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solid-State Cooling Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid-State Cooling Technology total market, 2021-2032, (USD Million)

Global Solid-State Cooling Technology total market by region & country, CAGR, 2021-2032, (USD Million)

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U.S. VS China: Solid-State Cooling Technology total market, key domestic companies, and share, (USD Million)

Global Solid-State Cooling Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Solid-State Cooling Technology total market by Type, CAGR, 2021-2032, (USD Million)

Global Solid-State Cooling Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Solid-State Cooling Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solid-State Cooling Technology Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Solid-State Cooling Technology Market, Segmentation by Type:

Electro Hydro Dynamic (EHD)

Dielectric Barrier Discharge (DBD)

Global Solid-State Cooling Technology Market, Segmentation by Technology Maturity:

Prototyping Stage

Early Commercialization Stage

Mass Production Stage

Global Solid-State Cooling Technology Market, Segmentation by Application:

Consumer Electronics

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AI Servers / Data Centers

Industrial Electronics

Aerospace

Others

Companies Profiled:

Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

Key Questions Answered

1. How big is the global Solid-State Cooling Technology market?
2. What is the demand of the global Solid-State Cooling Technology market?
3. What is the year over year growth of the global Solid-State Cooling Technology market?
4. What is the total value of the global Solid-State Cooling Technology market?
5. Who are the Major Players in the global Solid-State Cooling Technology market?
6. What are the growth factors driving the market demand?

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