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

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Abstracts

The global Solid-State Airflow 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 Ionic Cooling Technology is a next-generation thermal management approach that uses electrohydrodynamic (EHD) forces to generate airflow without mechanical fans. By applying high-voltage electric fields to ionize air molecules, it produces directional ionic wind to remove heat from electronic components. This method offers ultra-thin, silent, and energy-efficient cooling, making it suitable for laptops, embedded systems, AI servers, and compact electronic devices. Unlike traditional fan-based or liquid cooling, it eliminates moving parts, reduces noise, and enables precise localized cooling.

Key Findings

EHD and DBD are the two principal technology routes covered by this study

Solid-state airflow eliminates conventional rotary fans and enables thinner thermal architectures

Consumer electronics and edge AI are emerging as important early commercialization markets

Most EHD and DBD suppliers remain between prototype and early commercialization stages

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Market Trends

Solid-state airflow cooling is progressing from laboratory-scale ionic-wind concepts toward integrated thermal modules designed for real electronic systems. Development priorities include higher airflow density, thinner actuator structures, lower power consumption, improved reliability and better control of electrical discharge. Ventiva is advancing modular EHD ionic cooling for laptops, compact AI systems and other electronics, while YPlasma has demonstrated ultra-thin DBD plasma cooling on laptops and NVIDIA Jetson platforms. Ionic Wind is also developing compact solid-state airflow accelerators for AI hardware and embedded electronics.

Market Dynamics

Drivers

The principal growth driver is the rapid increase in heat density from CPUs, GPUs and AI accelerators combined with thinner device form factors. Conventional fans require mechanical clearance and create noise, vibration and potential wear, while solid-state airflow devices can generate targeted airflow directly near thermal hotspots. These characteristics are particularly attractive for notebooks, edge AI hardware, embedded systems and other compact electronics.

Restraints

The market remains constrained by relatively early manufacturing maturity, high-voltage driving requirements, system cost and thermal efficiency compared with mature fan solutions. EHD and DBD devices also require careful management of electrode geometry, electrical discharge, dielectric materials and airflow characteristics. OEM adoption therefore depends on demonstrating long operating life, electrical safety, stable thermal performance and compatibility with existing electronics manufacturing processes.

Opportunities

The strongest near-term opportunities are in premium laptops, edge AI systems,

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embedded computing and other space-constrained electronics. AI servers and data-center equipment provide longer-term opportunities as rack and component power density increases, while industrial electronics and aerospace systems can benefit from reduced vibration and fewer mechanical wear components. Ventiva, Ionic Wind, Cedrion and Fusion Dynamics are all positioning their technologies toward one or more of these high-density electronics markets.

Challenges

The major challenge is achieving sufficient airflow, static pressure and heat-transfer performance within very small form factors while maintaining competitive power consumption and reliability. Suppliers must also transition from prototypes to repeatable manufacturing and pass demanding OEM qualification requirements. In higher-power applications, solid-state airflow modules must increasingly work together with heat sinks, heat pipes or vapor chambers rather than operate as standalone cooling devices.

Industry Chain Analysis

The upstream industry includes electrode materials, dielectric films and substrates, high-voltage power electronics, semiconductor control components, thermal-interface materials and precision manufacturing processes. Midstream suppliers develop EHD ionic-wind modules, DBD plasma actuators, power drivers and integrated airflow cooling subsystems. Downstream customers include notebook and consumer-electronics OEMs, AI and edge-computing equipment suppliers, data-center hardware manufacturers, industrial-electronics companies and aerospace equipment suppliers. Thermal value increasingly comes from co-designing the airflow actuator with heat sinks, heat spreaders and system enclosures.

Segment Insights

By technology, Electro Hydro Dynamic (EHD) cooling creates airflow by accelerating ionized air through an electric field. Ventiva, Ionic Wind, Cedrion and Fusion Dynamics employ ionic-wind or EHD principles in their solid-state airflow technologies. Dielectric Barrier Discharge (DBD) uses electrodes separated by dielectric material to generate plasma-induced ionic airflow, with YPlasma representing a clear commercial developer of this route. DBD can technically be viewed as part of the broader electrohydrodynamic/plasma airflow family, but retaining EHD and DBD as separate

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market segments is useful because their actuator structures, drive approaches and commercialization paths differ.

By commercialization stage, the market can be divided into Prototyping Stage, Early Commercialization Stage and Mass Production Stage. Current EHD and DBD suppliers are concentrated primarily in the first two stages. Ventiva has progressed to OEM reference designs and technical evaluation, YPlasma has demonstrated working cooling systems for laptops and edge AI hardware, and Ionic Wind is moving toward industrialization and customer evaluation. Large-volume deployment remains an important next milestone for the sector.

Downstream Market Opportunities

Consumer Electronics is currently one of the clearest entry markets because solid-state airflow can support thinner and quieter laptops and compact devices. AI Servers / Data Centers offer substantial future potential as computing density rises, although higher thermal loads create more demanding airflow and system-integration requirements. Industrial Electronics benefits from low vibration and reduced mechanical wear, while Aerospace applications value compactness, low weight and reliability.

Regional Insights

The current technology ecosystem is concentrated mainly in North America and Europe. The United States has active development and commercialization through companies such as Ventiva and YPlasma's U.S. operations, while Switzerland has Ionic Wind, Spain has Cedrion and significant YPlasma activities, and Fusion Dynamics has development activities spanning the United Kingdom and the United States. Asia is expected to become increasingly important for commercialization because major notebook, server and electronics manufacturing supply chains are concentrated in the region.

Competitive Landscape Analysis

The Solid-State Airflow Cooling Technology market remains highly specialized, with a relatively small number of companies developing dedicated EHD or DBD cooling platforms. Ventiva has advanced EHD ionic cooling toward OEM integration and

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compact AI computing systems; Ionic Wind is developing ultra-thin airflow accelerators for electronics; YPlasma is commercializing DBD plasma actuators and has demonstrated the technology on consumer and edge-AI hardware; Cedrion develops corona-discharge ionic-wind cooling for electronics, mobility and embedded systems; and Fusion Dynamics is developing EHD plasma cooling for servers, computing and other dense-electronics applications. Competition increasingly centers on airflow density, actuator thickness, power consumption, acoustic performance, reliability, electrical safety and manufacturability.

Report Scope

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

This report is a detailed and comprehensive analysis of the world market for Solid-State Airflow 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 Airflow Cooling Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

This report profiles major players in the global Solid-State Airflow 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 Airflow 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 Airflow Cooling Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Market Segmentation

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

Electro Hydro Dynamic (EHD)

Dielectric Barrier Discharge (DBD)

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

Prototyping Stage

Early Commercialization Stage

Mass Production Stage

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

Consumer Electronics

AI Servers / Data Centers

Industrial Electronics

Aerospace

Others

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Companies Profiled:

Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

Key Questions Answered

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

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