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Global Solid-State Airflow Cooling Technology Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Solid-State Airflow Cooling Technology market size is predicted to grow from US$ 7.28 million in 2025 to US$ 23.26 million in 2032; it is expected to grow at a CAGR of 11.3% from 2026 to 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, 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,

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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 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

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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 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.

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Report Scope

LPI (LP Information)' newest research report, the “Solid-State Airflow Cooling Technology Industry Forecast” looks at past sales and reviews total world Solid-State Airflow Cooling Technology sales in 2025, providing a comprehensive analysis by region and market sector of projected Solid-State Airflow Cooling Technology sales for 2026 through 2032. With Solid-State Airflow Cooling Technology sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Solid-State Airflow Cooling Technology industry.

This Insight Report provides a comprehensive analysis of the global Solid-State Airflow Cooling Technology landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Solid-State Airflow Cooling Technology portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Solid-State Airflow Cooling Technology market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solid-State Airflow Cooling Technology and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solid-State Airflow Cooling Technology.

This report presents a comprehensive overview, market shares, and growth opportunities of Solid-State Airflow Cooling Technology market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

Electro Hydro Dynamic (EHD)

Dielectric Barrier Discharge (DBD)

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Segmentation by Technology Maturity:

Prototyping Stage

Early Commercialization Stage

Mass Production Stage

Segmentation by Application:

Consumer Electronics

AI Servers / Data Centers

Industrial Electronics

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

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