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Global Solid-State Ionic 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 Ionic Cooling Technology market size was valued at US$ 7.66 million in 2025 and is forecast to a readjusted size of US$ 17.85 million by 2032 with a CAGR of 9.4% during review period.

Solid-State Ionic Cooling Technology is an advanced thermal management method that relies on electrohydrodynamic (EHD) forces to generate airflow without any mechanical moving parts. By applying a high-voltage electric field, air molecules are ionized, creating a directed ionic wind that removes heat from electronic components or localized hotspots. This approach allows for ultra-thin, silent, and highly energy-efficient cooling, overcoming limitations of traditional fan-based or liquid cooling systems. It is particularly suitable for laptops, embedded devices, AI edge servers, high-density computing modules, and compact electronics where space, weight, and noise constraints are critical. Additionally, the technology can be integrated into flexible form factors and customized for specific heat dissipation profiles, offering precise, localized cooling while reducing maintenance and mechanical failure risks.

Solid?State Ionic Cooling Technology market refers to the emerging industry ecosystem focused on developing, manufacturing, and commercializing cooling solutions that use electrohydrodynamic (ionic wind) or plasma?driven airflow instead of mechanical fans or liquid coolants. This market spans products for consumer electronics, data center thermal management, embedded systems, and industrial applications, driven by demand for silent, energy?efficient, ultra?thin, and reliable cooling as devices become more powerful and compact. As the technology matures and production scales up, the market is expected to grow rapidly, attracting investment from startups, OEMs, and

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thermal solution providers.

This report is a detailed and comprehensive analysis for global Solid-State Ionic 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 Ionic Cooling Technology market size and forecasts, in consumption value ($ Million), 2021-2032

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

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

Global Solid-State Ionic 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 Ionic 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 Ionic 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

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Dynamics, etc.

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

Market segmentation

Solid-State Ionic 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 segment by Type

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

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Market segment by players, this report covers

Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

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)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Solid-State Ionic Cooling Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Solid-State Ionic Cooling Technology, with revenue, gross margin, and global market share of Solid-State Ionic Cooling Technology from 2021 to 2026.

Chapter 3, the Solid-State Ionic Cooling Technology competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

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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 Ionic 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 Ionic Cooling Technology.

Chapter 13, to describe Solid-State Ionic Cooling Technology research findings and conclusion.

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