

Global Ion Cooling Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ion Cooling Modules 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.

Ion Cooling Modules are compact solid-state cooling devices that use ionic wind or electrohydrodynamic airflow to move air and dissipate heat without traditional rotating fans. They typically generate airflow by applying high voltage across electrodes, pushing ionized air toward heat-generating components. Compared with conventional fans, ion cooling modules can offer thinner form factors, lower vibration, quieter operation, and flexible integration, making them suitable for compact electronics, AI devices, optical modules, mini PCs, consumer electronics, and other space-constrained thermal management applications. In 2025, global Ion Cooling Modules production reached approximately 62 k units, with an average global market price of around 120 USD/unit. The production capacity for Ion Cooling Modules in 2025 was approximately 80 k units. The typical gross profit margin for Ion Cooling Modules between 20% and 40%.

The Ion Cooling Modules market is still at an early commercialization stage, but it is gaining attention as electronic devices become thinner, more powerful, and more thermally constrained. Demand is mainly driven by AI edge devices, compact computing systems, high-speed optical modules, AR/VR devices, mobile electronics, and silent cooling applications. Compared with conventional fan-based cooling, ion cooling modules offer advantages in slim design, low noise, low vibration, and solid-state reliability, although challenges remain in airflow efficiency, cost, high-voltage design, long-term reliability, and mass-production maturity. As device power density continues

to rise, ion cooling modules are expected to become a niche but promising solution in next-generation electronic thermal management.

This report is a detailed and comprehensive analysis for global Ion Cooling Modules market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Ion Cooling Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ion Cooling Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ion Cooling Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ion Cooling Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Ion Cooling Modules

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 Ion Cooling Modules market based on the

following parameters - company overview, sales quantity, revenue, price, 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.

Market Segmentation

Ion Cooling Modules 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 in terms of volume and value. 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

Major players covered

Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ion Cooling Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ion Cooling Modules, with price, sales quantity, revenue, and global market share of Ion Cooling Modules from

2021 to 2026.

Chapter 3, the Ion Cooling Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ion Cooling Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Ion Cooling Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ion Cooling Modules.

Chapter 14 and 15, to describe Ion Cooling Modules sales channel, distributors, customers, research findings and conclusion.

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