

Global Semiconductor Temperature Control Equipment Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Semiconductor Temperature Control Equipment competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Semiconductor Temperature Control Equipment refers to specialized systems designed to maintain precise thermal conditions during semiconductor fabrication processes, such as etching, deposition, and lithography. These devices regulate temperature with high accuracy ($\pm 0.1^{\circ}\text{C}$ to $\pm 1^{\circ}\text{C}$) to ensure process stability, prevent material defects, and optimize yield. Key components include refrigeration cycles, heat exchangers, sensors (e.g., NTC thermistors), and control modules (e.g., PID algorithms). Semiconductor temperature control equipment is a type of equipment specially used in the semiconductor manufacturing process. It is mainly used to accurately control the temperature of the reaction chamber to meet the temperature control needs of the semiconductor process. It is an indispensable key equipment in the integrated circuit manufacturing process and is mainly composed of heat exchangers, controllers, compressors and other parts. Semiconductor temperature control equipment can ensure that the semiconductor manufacturing process is carried out under constant temperature conditions, which is crucial to ensuring product quality and improving production efficiency. The global key companies of semiconductor chiller include Advanced Thermal Sciences (ATS), Shinwa Controls, Beijing Jingyi Automation, Unisem, Thermo Fisher Scientific, FST (Fine Semitech Corp), SMC Corporation, Techist, Ferrotec, and GST (Global Standard Technology), etc. In 2024, the global ten largest players hold a share approximately 80% in terms of revenue. From the production side of semiconductor chiller, North America, South Korea, Japan, and China dominate semiconductor chiller production. In 2024, these regions held market

shares of 30.3%, 20.55%, 20.99%, and 23.7%, respectively. China is expected to maintain the fastest growth, with its share projected to reach 31.65% by 2031. In terms of product type, dual channel chillers hold the largest market share, expected to reach 57% by 2031. While in terms of applications, etching accounted for approximately 61.1% in 2024, with a projected CAGR of 6.22% in the coming years. In terms of cooling technologies, water-cooled chillers dominate the market (over 81% share in 2024), while air-cooled and hybrid types hold smaller shares. Water-cooled chillers are expected to remain predominant in the foreseeable future. In terms of technical pathways, currently compressor-type chillers and heat exchangers are in the dominant position, however, thermoelectric (TEC) chillers are projected to exhibit the fastest growth in the coming years. According to Semiconductor Industry Association (SIA), global semiconductor chip sales hit \$627.6 billion in 2024, an increase of 19.1% compared to the 2023 total of \$526.8 billion. The global semiconductor market experienced its highest-ever sales year in 2024, topping \$600 billion in annual sales for the first time, and double-digit market growth is projected for 2025. Semiconductors enable virtually all modern technologies ? including medical devices, communications, defense applications, AI, advanced transportation, and countless others ? and the long-term industry outlook is incredibly strong. Regionally, yearly sales were up in the Americas (44.8%), China (18.3%), and Asia Pacific/All Others (12.5%), but down in Japan (-0.4%), and Europe (-8.1%). Several semiconductor product segments stood out in 2024. Sales of logic products totaled \$212.6 billion in 2024, making it the largest product category by sales. Memory products were second in terms of sales, increasing by 78.9% in 2024 to a total of \$165.1 billion. DRAM products, a subset of memory, recorded an 82.6% sales increase, the largest percentage growth of any product category in 2024.

The global Semiconductor Temperature Control Equipment market size was estimated at USD 725.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Semiconductor Temperature Control Equipment market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current

status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Semiconductor Temperature Control Equipment market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Semiconductor Temperature Control Equipment market.

Global Semiconductor Temperature Control Equipment Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Advanced Thermal Sciences (ATS)
Shinwa Controls
Unisem
GST (Global Standard Technology)
SMC Corporation
Beijing Jingyi Automation Equipment Technology
FST (Fine Semitech Corp)
Techist
Solid State Cooling Systems

LNEYA Thermo Refrigeration
BV Thermal Systems
Legacy Chiller
LAUDA-Noah
CJ Tech Inc
STEP SCIENCE
Thermonics (inTEST Thermal Solutions)
Maruyama Chillers
Mydax, Inc.
Sanhe Tongfei Refrigeration
Ferrotec
Ebara
AIRSYS Cooling Technologies Inc.
GMC Semitech
PTC, Inc.
Thermo Fisher Scientific

Market Segmentation (by Type)

Single Channel Chiller
Dual Channel Chiller
Three Channel Chiller

Market Segmentation (by Application)

Etching
Coating and Developing
Ion Implantation
Diffusion
Deposition
CMP
Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Semiconductor Temperature Control Equipment Market

Overview of the regional outlook of the Semiconductor Temperature Control Equipment Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Semiconductor Temperature Control Equipment Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan,

merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Semiconductor Temperature Control Equipment, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the

years to come

6-month post-sales analyst support

Customization of the Report

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