

# Global Temperature Control Chiller for Semiconductor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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# **Abstracts**

Semiconductor Chiller is mainly used to precisely control the temperature of the reaction chamber in the semiconductor manufacturing process. It is a self-balancing circulation device mainly composed of a heat exchanger, a circulation pump, a compressor and a control system. It belongs to the temperature control equipment in the production process.

Semiconductor special temperature control equipment uses the heat exchange principle of refrigeration cycle and process cooling water to control the temperature, flow and pressure of the circulating fluid used in semiconductor process equipment with high precision to achieve the temperature control requirements of semiconductor process. It is an integrated circuit manufacturing Indispensable key equipment in the process.

According to the requirements of different processes, the circulating liquid at a given temperature is controlled to flow through the electrodes or the walls in the reaction chamber of the semiconductor process equipment, and heat is brought into the semiconductor-specific temperature control equipment, which transfers the heat to the refrigeration through the heat exchanger. refrigerant, and then release the heat to the process cooling water through the refrigerant, so as to realize the temperature control of the process.

According to our (Global Info Research) latest study, the global Temperature Control Chiller for Semiconductor market size was valued at US\$ 667 million in 2023 and is forecast to a readjusted size of USD 1013 million by 2030 with a CAGR of 6.2% during review period.



This report is a detailed and comprehensive analysis for global Temperature Control Chiller for Semiconductor 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 2024, are provided.

### Key Features:

Global Temperature Control Chiller for Semiconductor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Temperature Control Chiller for Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Temperature Control Chiller for Semiconductor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Temperature Control Chiller for Semiconductor market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2019-2024

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 Temperature Control Chiller for Semiconductor

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 Temperature Control Chiller for Semiconductor 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 Advanced



Thermal Sciences Corporation (ATS), Shinwa Controls, Unisem, GST (Global Standarard Technology), SMC Corporation, Beijing Jingyi Automation Equipment Technology, FST (Fine Semitech Corp), Techist, Solid State Cooling Systems, BV Thermal Systems, etc.

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

Market Segmentation

Temperature Control Chiller for Semiconductor market is split by Type and by Application. For the period 2019-2030, 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

Single Channel Chiller

Dual Channel Chiller

Three Channel Chiller

Market segment by Application

Etching

Coating and Developing

Ion Implantation

Diffusion

Deposition

CMP



Others

Major players covered Advanced Thermal Sciences Corporation (ATS) **Shinwa Controls** Unisem GST (Global Standarard Technology) SMC Corporation Beijing Jingyi Automation Equipment Technology FST (Fine Semitech Corp) **Techist** Solid State Cooling Systems **BV Thermal Systems** Legacy Chiller Noah Precision CJ Tech Inc STEP SCIENCE Thermonics (inTEST Thermal Solutions) Maruyama Chillers

Mydax, Inc.



**Ferrotec** 

LNEYA

Airsys Refrigeration Engineering Technology(Beijing)Co.,Ltd.

Sanhe Tongfei Refrigeration Co.,Ltd.

Suzhou Diort Refrigerantion Technology

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 Temperature Control Chiller for Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Temperature Control Chiller for Semiconductor, with price, sales quantity, revenue, and global market share of Temperature Control Chiller for Semiconductor from 2019 to 2024.

Chapter 3, the Temperature Control Chiller for Semiconductor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Temperature Control Chiller for Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth



by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024.and Temperature Control Chiller for Semiconductor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Temperature Control Chiller for Semiconductor.

Chapter 14 and 15, to describe Temperature Control Chiller for Semiconductor sales channel, distributors, customers, research findings and conclusion.



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