

# Global Semiconductor Chiller Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Semiconductor Chiller market size is expected to reach \$ 1009 million by 2029, rising at a market growth of 5.4% CAGR during the forecast period (2023-2029).

Global 5 largest manufacturers of Semiconductor Chiller are Unisem, Advanced Thermal Sciences Corporation, GST (Global Standard Technology), Shinwa Controls and SMC, which make up over 60%. Among them, Unisem dominates with over 15% production value share, followed by GST (Global Standard Technology) (12%) and Advanced Thermal Sciences Corporation (13%).

Asia-Pacific is the largest market, holding a share about 50%, followed by North America and Europe, with shares about 30% and 20% separately.

Based on the product type, the Semiconductor Chiller is primarily split into Single Channel, Dual Channel and Three Channels. The leading type is Dual Channel, with a market share over 40%.

Based on the Application, the Semiconductor Chiller market can be sub-segmented into several major Application, like Etching, Coating and Developing, Ion Implantation, Diffusion, Deposition and CMP. The largest segment is Etching, accounting for over 60%.

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.

This report studies the global Semiconductor Chiller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Chiller, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Chiller that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Chiller total production and demand, 2018-2029, (Units)

Global Semiconductor Chiller total production value, 2018-2029, (USD Million)

Global Semiconductor Chiller production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Semiconductor Chiller consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Semiconductor Chiller domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Chiller production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Semiconductor Chiller production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Semiconductor Chiller production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Semiconductor Chiller market based on the following parameters – company overview, production, value, 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 Standard Technology), SMC Corporation, Beijing Jingyi Automation Equipment Technology, FST (Fine Semitech Corp), Techist and Solid State Cooling Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor Chiller market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Semiconductor Chiller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Semiconductor Chiller Market, Segmentation by Type

Single Channel Chiller

Dual Channel Chiller

Three Channel Chiller

### Global Semiconductor Chiller Market, Segmentation by Application

Etching

Coating and Developing

Ion Implantation

Diffusion

Deposition

CMP

Other

Companies Profiled:

Advanced Thermal Sciences Corporation (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

BV Thermal Systems

Legacy Chiller

Noah Precision

CJ Tech Inc

STEP SCIENCE

Thermonics (inTEST Thermal Solutions)

Maruyama Chillers

Mydax, Inc.

Suzhou Diort Refrigeration Technology

## Key Questions Answered

1. How big is the global Semiconductor Chiller market?
2. What is the demand of the global Semiconductor Chiller market?
3. What is the year over year growth of the global Semiconductor Chiller market?
4. What is the production and production value of the global Semiconductor Chiller market?
5. Who are the key producers in the global Semiconductor Chiller market?
6. What are the growth factors driving the market demand?

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