

Global Semiconductor Chiller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Chiller market size is expected to reach \$ 1397 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

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.

China is currently the world's largest market of semiconductor chiller, accounted for 30.63% of the global share in 2025, followed by North America (22.79%), China Taiwan province (17.85%), and South Korea (14.1%).

North American market for Semiconductor Chiller was valued at \$ 193.4 million in 2025 and will reach \$ 285.85 million by 2032, at a CAGR of 5.78% during the forecast period

of 2026 through 2032.

China market for Semiconductor Chiller was valued at \$ 259.9 million in 2025 and will reach \$ 480.96 million by 2032, at a CAGR of 9.13% during the forecast period of 2026 through 2032.

Europe market for Semiconductor Chiller was valued at \$ 44.46 million in 2025 and will reach \$ 63.83 million by 2032, at a CAGR of 5.67% during the forecast period of 2026 through 2032.

South Korea market for Semiconductor Chiller was valued at \$ 119.64 million in 2025 and will reach \$ 188.49 million by 2032, at a CAGR of 6.61% during the forecast period of 2026 through 2032.

The global key manufacturers 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 2025, the global ten largest players hold a share approximately 78.25% in terms of revenue.

From the production side of semiconductor chiller, North America, South Korea, Japan, and China dominate semiconductor chiller production. In 2025, these regions held market shares of 29.36%, 24.32%, 19.62%, and 23.31%, respectively. China is expected to maintain the fastest growth, with its share projected to reach 31.3% by 2032.

In terms of product type, dual channel chillers hold the largest market share, expected to reach 61.53% by 2031. While in terms of applications, etching accounted for approximately 60.74% in 2024, with a projected CAGR of 5.65% in the coming years.

In terms of cooling technologies, water-cooled chillers dominate the market (over 80.8% share in 2025), 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.

The global Semiconductor Chiller market is expanding alongside the semiconductor

upcycle and the sustained build-out of fab capacity and installed-base process tools. In 2024, worldwide semiconductor sales reached US\$627.6B, and the sales outlook remains strongly positive into 2025–2026, supporting high utilization and continued equipment demand. Semiconductor Industry Association At the same time, SEMI forecasts total semiconductor manufacturing equipment sales of US\$125.5B (2025) and US\$138.1B (2026), and its World Fab Forecast expects 18 new fabs to start construction in 2025—both of which translate directly into incremental chillers for new tool shipments and for supporting sub-systems. Demand is also “premiumizing” because chillers are increasingly yield-enabling rather than utility-like: toolmakers commonly require temperature stability around ± 0.1 K for many process loops (e.g., etch) and down to ± 0.001 K for the most temperature-sensitive applications (e.g., lithography), with operating ranges that can span -80°C to $+150^{\circ}\text{C}$ depending on the loop and use case. This drives higher value per system (better controls, tighter hydraulics, higher-quality sensors/valves/filtration, and application-specific thermal loop engineering) and a growing recurring aftermarket (preventive maintenance, spares, field service) as fabs push uptime and variability targets.

Key market trends and drivers are converging around performance, energy, compliance, and reliability. First, tighter process windows and higher local heat flux push TCUs toward faster transient response, multi-circuit/multi-zone architectures, and more liquid-to-liquid and “right-temperature” designs that match each sub-loop’s needs to reduce total energy consumption without sacrificing stability. Second, fabs increasingly require connected chillers (telemetry, remote diagnostics, predictive maintenance) and modular/redundant designs to protect tool availability as the installed base scales. Third, environmental regulation is becoming a specification-level constraint: the European Union F-gas Regulation (EU) 2024/573 is accelerating adoption of lower-GWP refrigerants, forcing platform redesigns, re-qualification, and updated service procedures across suppliers and fab operators. Fourth, EHS and material stewardship are rising in importance for semiconductor thermal ecosystems—e.g., industry discussions around heat-transfer fluids emphasize tight control requirements (often $\sim \pm 0.1^{\circ}\text{C}$) and compatibility constraints, which can influence fluid selection and qualification practices alongside chiller design. Overall, the core growth engine is the combination of fab expansion + higher thermal-performance requirements + lifecycle support intensity, with regulation and sustainability accelerating technology refresh and creating additional retrofit/replacement demand.

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 2025 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, 2021-2032, (Units)

Global Semiconductor Chiller total production value, 2021-2032, (USD Million)

Global Semiconductor Chiller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Semiconductor Chiller consumption by region & country, CAGR, 2021-2032 & (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 2021-2026, (USD Million) & (Units)

Global Semiconductor Chiller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Semiconductor Chiller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report 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 (ATS), Shinwa Controls, Unisem, GST (Global Standard Technology), SMC Corporation, Beijing Jingyi Automation Equipment Technology, FST (Fine Semitech Corp), Techist, Thermo Fisher Scientific, Mirapro Co., Ltd, etc.

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

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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 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 Technology:

Compressor Type Chiller

Heat Exchanger Type Chiller

Thermoelectric (TEC) Chiller

Cryogenic Chiller

Global Semiconductor Chiller Market, Segmentation by Application:

Etching Process

Coater/Developer

Ion Implantation

Diffusion Process

Deposition Process

CMP Process

Other

Companies Profiled:

Advanced Thermal Sciences (ATS)

Shinwa Controls

Unisem

GST (Global Standard Technology)

SMC Corporation

Beijing Jingyi Automation Equipment Technology

FST (Fine Semitech Corp)

Techist

Thermo Fisher Scientific

Mirapro Co., Ltd

Solid State Cooling Systems

LNEYA Thermo Refrigeration

BV Thermal Systems

Legacy Chiller

LAUDA-Noah

CJ Tech Inc

Step Science

Thermonics (InTest Thermal Solutions (ITS))

Maruyama Chillers

Mydax, Inc.

Sanhe Tongfei Refrigeration

Ferrotec

Ebara

AIRSYS Cooling Technologies Inc.

GMC Semitech

PTC, Inc.

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?

Contents

1 SUPPLY SUMMARY

- 1.1 Semiconductor Chiller Introduction
- 1.2 World Semiconductor Chiller Supply & Forecast
 - 1.2.1 World Semiconductor Chiller Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Semiconductor Chiller Production (2021-2032)
 - 1.2.3 World Semiconductor Chiller Pricing Trends (2021-2032)
- 1.3 World Semiconductor Chiller Production by Region (Based on Production Site)
 - 1.3.1 World Semiconductor Chiller Production Value by Region (2021-2032)
 - 1.3.2 World Semiconductor Chiller Production by Region (2021-2032)
 - 1.3.3 World Semiconductor Chiller Average Price by Region (2021-2032)
 - 1.3.4 North America Semiconductor Chiller Production (2021-2032)
 - 1.3.5 South Korea Semiconductor Chiller Production (2021-2032)
 - 1.3.6 Japan Semiconductor Chiller Production (2021-2032)
 - 1.3.7 China Semiconductor Chiller Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Semiconductor Chiller Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Semiconductor Chiller Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Semiconductor Chiller Demand (2021-2032)
- 2.2 World Semiconductor Chiller Consumption by Region
 - 2.2.1 World Semiconductor Chiller Consumption by Region (2021-2026)
 - 2.2.2 World Semiconductor Chiller Consumption Forecast by Region (2027-2032)
- 2.3 United States Semiconductor Chiller Consumption (2021-2032)
- 2.4 China Semiconductor Chiller Consumption (2021-2032)
- 2.5 Europe Semiconductor Chiller Consumption (2021-2032)
- 2.6 Japan Semiconductor Chiller Consumption (2021-2032)
- 2.7 South Korea Semiconductor Chiller Consumption (2021-2032)
- 2.8 ASEAN Semiconductor Chiller Consumption (2021-2032)
- 2.9 India Semiconductor Chiller Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Semiconductor Chiller Production Value by Manufacturer (2021-2026)

- 3.2 World Semiconductor Chiller Production by Manufacturer (2021-2026)
- 3.3 World Semiconductor Chiller Average Price by Manufacturer (2021-2026)
- 3.4 Semiconductor Chiller Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Semiconductor Chiller Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Semiconductor Chiller in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Semiconductor Chiller in 2025
- 3.6 Semiconductor Chiller Market: Overall Company Footprint Analysis
 - 3.6.1 Semiconductor Chiller Market: Region Footprint
 - 3.6.2 Semiconductor Chiller Market: Company Product Type Footprint
 - 3.6.3 Semiconductor Chiller Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Semiconductor Chiller Production Value Comparison
 - 4.1.1 United States VS China: Semiconductor Chiller Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Semiconductor Chiller Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Semiconductor Chiller Production Comparison
 - 4.2.1 United States VS China: Semiconductor Chiller Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Semiconductor Chiller Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Semiconductor Chiller Consumption Comparison
 - 4.3.1 United States VS China: Semiconductor Chiller Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Semiconductor Chiller Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Semiconductor Chiller Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Semiconductor Chiller Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Semiconductor Chiller Production Value (2021-2026)

4.4.3 United States Based Manufacturers Semiconductor Chiller Production (2021-2026)

4.5 China Based Semiconductor Chiller Manufacturers and Market Share

4.5.1 China Based Semiconductor Chiller Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Semiconductor Chiller Production Value (2021-2026)

4.5.3 China Based Manufacturers Semiconductor Chiller Production (2021-2026)

4.6 Rest of World Based Semiconductor Chiller Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Semiconductor Chiller Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Semiconductor Chiller Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Semiconductor Chiller Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Semiconductor Chiller Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single Channel Chiller

5.2.2 Dual Channel Chiller

5.2.3 Three Channel Chiller

5.3 Market Segment by Type

5.3.1 World Semiconductor Chiller Production by Type (2021-2032)

5.3.2 World Semiconductor Chiller Production Value by Type (2021-2032)

5.3.3 World Semiconductor Chiller Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY

6.1 World Semiconductor Chiller Market Size Overview by Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology

6.2.1 Compressor Type Chiller

6.2.2 Heat Exchanger Type Chiller

- 6.2.3 Thermoelectric (TEC) Chiller
- 6.2.4 Cryogenic Chiller
- 6.3 Market Segment by Technology
 - 6.3.1 World Semiconductor Chiller Production by Technology (2021-2032)
 - 6.3.2 World Semiconductor Chiller Production Value by Technology (2021-2032)
 - 6.3.3 World Semiconductor Chiller Average Price by Technology (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

- 7.1 World Semiconductor Chiller Market Size Overview by Application: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Application
 - 7.2.1 Etching Process
 - 7.2.2 Coater/Developer
 - 7.2.3 Ion Implantation
 - 7.2.4 Diffusion Process
 - 7.2.5 Deposition Process
 - 7.2.6 CMP Process
 - 7.2.7 Other
- 7.3 Market Segment by Application
 - 7.3.1 World Semiconductor Chiller Production by Application (2021-2032)
 - 7.3.2 World Semiconductor Chiller Production Value by Application (2021-2032)
 - 7.3.3 World Semiconductor Chiller Average Price by Application (2021-2032)

8 COMPANY PROFILES

- 8.1 Advanced Thermal Sciences (ATS)
 - 8.1.1 Advanced Thermal Sciences (ATS) Details
 - 8.1.2 Advanced Thermal Sciences (ATS) Major Business
 - 8.1.3 Advanced Thermal Sciences (ATS) Semiconductor Chiller Product and Services
 - 8.1.4 Advanced Thermal Sciences (ATS) Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.1.5 Advanced Thermal Sciences (ATS) Recent Developments/Updates
 - 8.1.6 Advanced Thermal Sciences (ATS) Competitive Strengths & Weaknesses
- 8.2 Shinwa Controls
 - 8.2.1 Shinwa Controls Details
 - 8.2.2 Shinwa Controls Major Business
 - 8.2.3 Shinwa Controls Semiconductor Chiller Product and Services
 - 8.2.4 Shinwa Controls Semiconductor Chiller Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.2.5 Shinwa Controls Recent Developments/Updates

8.2.6 Shinwa Controls Competitive Strengths & Weaknesses

8.3 Unisem

8.3.1 Unisem Details

8.3.2 Unisem Major Business

8.3.3 Unisem Semiconductor Chiller Product and Services

8.3.4 Unisem Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Unisem Recent Developments/Updates

8.3.6 Unisem Competitive Strengths & Weaknesses

8.4 GST (Global Standard Technology)

8.4.1 GST (Global Standard Technology) Details

8.4.2 GST (Global Standard Technology) Major Business

8.4.3 GST (Global Standard Technology) Semiconductor Chiller Product and Services

8.4.4 GST (Global Standard Technology) Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 GST (Global Standard Technology) Recent Developments/Updates

8.4.6 GST (Global Standard Technology) Competitive Strengths & Weaknesses

8.5 SMC Corporation

8.5.1 SMC Corporation Details

8.5.2 SMC Corporation Major Business

8.5.3 SMC Corporation Semiconductor Chiller Product and Services

8.5.4 SMC Corporation Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 SMC Corporation Recent Developments/Updates

8.5.6 SMC Corporation Competitive Strengths & Weaknesses

8.6 Beijing Jingyi Automation Equipment Technology

8.6.1 Beijing Jingyi Automation Equipment Technology Details

8.6.2 Beijing Jingyi Automation Equipment Technology Major Business

8.6.3 Beijing Jingyi Automation Equipment Technology Semiconductor Chiller Product and Services

8.6.4 Beijing Jingyi Automation Equipment Technology Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Beijing Jingyi Automation Equipment Technology Recent Developments/Updates

8.6.6 Beijing Jingyi Automation Equipment Technology Competitive Strengths & Weaknesses

8.7 FST (Fine Semitech Corp)

- 8.7.1 FST (Fine Semitech Corp) Details
- 8.7.2 FST (Fine Semitech Corp) Major Business
- 8.7.3 FST (Fine Semitech Corp) Semiconductor Chiller Product and Services
- 8.7.4 FST (Fine Semitech Corp) Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.7.5 FST (Fine Semitech Corp) Recent Developments/Updates
- 8.7.6 FST (Fine Semitech Corp) Competitive Strengths & Weaknesses
- 8.8 Techist
 - 8.8.1 Techist Details
 - 8.8.2 Techist Major Business
 - 8.8.3 Techist Semiconductor Chiller Product and Services
 - 8.8.4 Techist Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Techist Recent Developments/Updates
 - 8.8.6 Techist Competitive Strengths & Weaknesses
- 8.9 Thermo Fisher Scientific
 - 8.9.1 Thermo Fisher Scientific Details
 - 8.9.2 Thermo Fisher Scientific Major Business
 - 8.9.3 Thermo Fisher Scientific Semiconductor Chiller Product and Services
 - 8.9.4 Thermo Fisher Scientific Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Thermo Fisher Scientific Recent Developments/Updates
 - 8.9.6 Thermo Fisher Scientific Competitive Strengths & Weaknesses
- 8.10 Mirapro Co., Ltd
 - 8.10.1 Mirapro Co., Ltd Details
 - 8.10.2 Mirapro Co., Ltd Major Business
 - 8.10.3 Mirapro Co., Ltd Semiconductor Chiller Product and Services
 - 8.10.4 Mirapro Co., Ltd Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Mirapro Co., Ltd Recent Developments/Updates
 - 8.10.6 Mirapro Co., Ltd Competitive Strengths & Weaknesses
- 8.11 Solid State Cooling Systems
 - 8.11.1 Solid State Cooling Systems Details
 - 8.11.2 Solid State Cooling Systems Major Business
 - 8.11.3 Solid State Cooling Systems Semiconductor Chiller Product and Services
 - 8.11.4 Solid State Cooling Systems Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Solid State Cooling Systems Recent Developments/Updates
 - 8.11.6 Solid State Cooling Systems Competitive Strengths & Weaknesses

8.12 LNEYA Thermo Refrigeration

8.12.1 LNEYA Thermo Refrigeration Details

8.12.2 LNEYA Thermo Refrigeration Major Business

8.12.3 LNEYA Thermo Refrigeration Semiconductor Chiller Product and Services

8.12.4 LNEYA Thermo Refrigeration Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 LNEYA Thermo Refrigeration Recent Developments/Updates

8.12.6 LNEYA Thermo Refrigeration Competitive Strengths & Weaknesses

8.13 BV Thermal Systems

8.13.1 BV Thermal Systems Details

8.13.2 BV Thermal Systems Major Business

8.13.3 BV Thermal Systems Semiconductor Chiller Product and Services

8.13.4 BV Thermal Systems Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 BV Thermal Systems Recent Developments/Updates

8.13.6 BV Thermal Systems Competitive Strengths & Weaknesses

8.14 Legacy Chiller

8.14.1 Legacy Chiller Details

8.14.2 Legacy Chiller Major Business

8.14.3 Legacy Chiller Semiconductor Chiller Product and Services

8.14.4 Legacy Chiller Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Legacy Chiller Recent Developments/Updates

8.14.6 Legacy Chiller Competitive Strengths & Weaknesses

8.15 LAUDA-Noah

8.15.1 LAUDA-Noah Details

8.15.2 LAUDA-Noah Major Business

8.15.3 LAUDA-Noah Semiconductor Chiller Product and Services

8.15.4 LAUDA-Noah Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 LAUDA-Noah Recent Developments/Updates

8.15.6 LAUDA-Noah Competitive Strengths & Weaknesses

8.16 CJ Tech Inc

8.16.1 CJ Tech Inc Details

8.16.2 CJ Tech Inc Major Business

8.16.3 CJ Tech Inc Semiconductor Chiller Product and Services

8.16.4 CJ Tech Inc Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 CJ Tech Inc Recent Developments/Updates

- 8.16.6 CJ Tech Inc Competitive Strengths & Weaknesses
- 8.17 Step Science
 - 8.17.1 Step Science Details
 - 8.17.2 Step Science Major Business
 - 8.17.3 Step Science Semiconductor Chiller Product and Services
 - 8.17.4 Step Science Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.17.5 Step Science Recent Developments/Updates
 - 8.17.6 Step Science Competitive Strengths & Weaknesses
- 8.18 Thermonics (InTest Thermal Solutions (ITS))
 - 8.18.1 Thermonics (InTest Thermal Solutions (ITS)) Details
 - 8.18.2 Thermonics (InTest Thermal Solutions (ITS)) Major Business
 - 8.18.3 Thermonics (InTest Thermal Solutions (ITS)) Semiconductor Chiller Product and Services
 - 8.18.4 Thermonics (InTest Thermal Solutions (ITS)) Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.18.5 Thermonics (InTest Thermal Solutions (ITS)) Recent Developments/Updates
 - 8.18.6 Thermonics (InTest Thermal Solutions (ITS)) Competitive Strengths & Weaknesses
- 8.19 Maruyama Chillers
 - 8.19.1 Maruyama Chillers Details
 - 8.19.2 Maruyama Chillers Major Business
 - 8.19.3 Maruyama Chillers Semiconductor Chiller Product and Services
 - 8.19.4 Maruyama Chillers Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.19.5 Maruyama Chillers Recent Developments/Updates
 - 8.19.6 Maruyama Chillers Competitive Strengths & Weaknesses
- 8.20 Mydax, Inc.
 - 8.20.1 Mydax, Inc. Details
 - 8.20.2 Mydax, Inc. Major Business
 - 8.20.3 Mydax, Inc. Semiconductor Chiller Product and Services
 - 8.20.4 Mydax, Inc. Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.20.5 Mydax, Inc. Recent Developments/Updates
 - 8.20.6 Mydax, Inc. Competitive Strengths & Weaknesses
- 8.21 Sanhe Tongfei Refrigeration
 - 8.21.1 Sanhe Tongfei Refrigeration Details
 - 8.21.2 Sanhe Tongfei Refrigeration Major Business
 - 8.21.3 Sanhe Tongfei Refrigeration Semiconductor Chiller Product and Services

8.21.4 Sanhe Tongfei Refrigeration Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.21.5 Sanhe Tongfei Refrigeration Recent Developments/Updates

8.21.6 Sanhe Tongfei Refrigeration Competitive Strengths & Weaknesses

8.22 Ferrotec

8.22.1 Ferrotec Details

8.22.2 Ferrotec Major Business

8.22.3 Ferrotec Semiconductor Chiller Product and Services

8.22.4 Ferrotec Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.22.5 Ferrotec Recent Developments/Updates

8.22.6 Ferrotec Competitive Strengths & Weaknesses

8.23 Ebara

8.23.1 Ebara Details

8.23.2 Ebara Major Business

8.23.3 Ebara Semiconductor Chiller Product and Services

8.23.4 Ebara Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.23.5 Ebara Recent Developments/Updates

8.23.6 Ebara Competitive Strengths & Weaknesses

8.24 AIRSYS Cooling Technologies Inc.

8.24.1 AIRSYS Cooling Technologies Inc. Details

8.24.2 AIRSYS Cooling Technologies Inc. Major Business

8.24.3 AIRSYS Cooling Technologies Inc. Semiconductor Chiller Product and Services

8.24.4 AIRSYS Cooling Technologies Inc. Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.24.5 AIRSYS Cooling Technologies Inc. Recent Developments/Updates

8.24.6 AIRSYS Cooling Technologies Inc. Competitive Strengths & Weaknesses

8.25 GMC Semitech

8.25.1 GMC Semitech Details

8.25.2 GMC Semitech Major Business

8.25.3 GMC Semitech Semiconductor Chiller Product and Services

8.25.4 GMC Semitech Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.25.5 GMC Semitech Recent Developments/Updates

8.25.6 GMC Semitech Competitive Strengths & Weaknesses

8.26 PTC, Inc.

8.26.1 PTC, Inc. Details

8.26.2 PTC, Inc. Major Business

- 8.26.3 PTC, Inc. Semiconductor Chiller Product and Services
- 8.26.4 PTC, Inc. Semiconductor Chiller Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.26.5 PTC, Inc. Recent Developments/Updates
- 8.26.6 PTC, Inc. Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Semiconductor Chiller Industry Chain
- 9.2 Semiconductor Chiller Upstream Analysis
 - 9.2.1 Semiconductor Chiller Core Raw Materials
 - 9.2.2 Main Manufacturers of Semiconductor Chiller Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Semiconductor Chiller Production Mode
- 9.6 Semiconductor Chiller Procurement Model
- 9.7 Semiconductor Chiller Industry Sales Model and Sales Channels
 - 9.7.1 Semiconductor Chiller Sales Model
 - 9.7.2 Semiconductor Chiller Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Semiconductor Chiller Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Semiconductor Chiller Production Value by Region (2021-2026) & (USD Million)

Table 3. World Semiconductor Chiller Production Value by Region (2027-2032) & (USD Million)

Table 4. World Semiconductor Chiller Production Value Market Share by Region (2021-2026)

Table 5. World Semiconductor Chiller Production Value Market Share by Region (2027-2032)

Table 6. World Semiconductor Chiller Production by Region (2021-2026) & (Units)

Table 7. World Semiconductor Chiller Production by Region (2027-2032) & (Units)

Table 8. World Semiconductor Chiller Production Market Share by Region (2021-2026)

Table 9. World Semiconductor Chiller Production Market Share by Region (2027-2032)

Table 10. World Semiconductor Chiller Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Semiconductor Chiller Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Semiconductor Chiller Major Market Trends

Table 13. World Semiconductor Chiller Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Semiconductor Chiller Consumption by Region (2021-2026) & (Units)

Table 15. World Semiconductor Chiller Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Semiconductor Chiller Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Semiconductor Chiller Producers in 2025

Table 18. World Semiconductor Chiller Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Semiconductor Chiller Producers in 2025

Table 20. World Semiconductor Chiller Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Semiconductor Chiller Company Evaluation Quadrant

Table 22. World Semiconductor Chiller Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Semiconductor Chiller Production Site of Key Manufacturer

Table 24. Semiconductor Chiller Market: Company Product Type Footprint

Table 25. Semiconductor Chiller Market: Company Product Application Footprint

Table 26. Semiconductor Chiller Competitive Factors

Table 27. Semiconductor Chiller New Entrant and Capacity Expansion Plans

Table 28. Semiconductor Chiller Mergers & Acquisitions Activity

Table 29. United States VS China Semiconductor Chiller Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Semiconductor Chiller Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Semiconductor Chiller Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Semiconductor Chiller Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Semiconductor Chiller Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Semiconductor Chiller Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Semiconductor Chiller Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Semiconductor Chiller Production Market Share (2021-2026)

Table 37. China Based Semiconductor Chiller Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Semiconductor Chiller Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Semiconductor Chiller Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Semiconductor Chiller Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Semiconductor Chiller Production Market Share (2021-2026)

Table 42. Rest of World Based Semiconductor Chiller Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Semiconductor Chiller Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Semiconductor Chiller Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Semiconductor Chiller Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Semiconductor Chiller Production Market Share (2021-2026)

Table 47. World Semiconductor Chiller Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Semiconductor Chiller Production by Type (2021-2026) & (Units)

Table 49. World Semiconductor Chiller Production by Type (2027-2032) & (Units)

Table 50. World Semiconductor Chiller Production Value by Type (2021-2026) & (USD Million)

Table 51. World Semiconductor Chiller Production Value by Type (2027-2032) & (USD Million)

Table 52. World Semiconductor Chiller Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Semiconductor Chiller Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Semiconductor Chiller Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Semiconductor Chiller Production by Technology (2021-2026) & (Units)

Table 56. World Semiconductor Chiller Production by Technology (2027-2032) & (Units)

Table 57. World Semiconductor Chiller Production Value by Technology (2021-2026) & (USD Million)

Table 58. World Semiconductor Chiller Production Value by Technology (2027-2032) & (USD Million)

Table 59. World Semiconductor Chiller Average Price by Technology (2021-2026) & (K US\$/Unit)

Table 60. World Semiconductor Chiller Average Price by Technology (2027-2032) & (K US\$/Unit)

Table 61. World Semiconductor Chiller Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Semiconductor Chiller Production by Application (2021-2026) & (Units)

Table 63. World Semiconductor Chiller Production by Application (2027-2032) & (Units)

Table 64. World Semiconductor Chiller Production Value by Application (2021-2026) & (USD Million)

Table 65. World Semiconductor Chiller Production Value by Application (2027-2032) & (USD Million)

Table 66. World Semiconductor Chiller Average Price by Application (2021-2026) & (K US\$/Unit)

Table 67. World Semiconductor Chiller Average Price by Application (2027-2032) & (K

US\$/Unit)

Table 68. Advanced Thermal Sciences (ATS) Basic Information, Manufacturing Base and Competitors

Table 69. Advanced Thermal Sciences (ATS) Major Business

Table 70. Advanced Thermal Sciences (ATS) Semiconductor Chiller Product and Services

Table 71. Advanced Thermal Sciences (ATS) Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Advanced Thermal Sciences (ATS) Recent Developments/Updates

Table 73. Advanced Thermal Sciences (ATS) Competitive Strengths & Weaknesses

Table 74. Shinwa Controls Basic Information, Manufacturing Base and Competitors

Table 75. Shinwa Controls Major Business

Table 76. Shinwa Controls Semiconductor Chiller Product and Services

Table 77. Shinwa Controls Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Shinwa Controls Recent Developments/Updates

Table 79. Shinwa Controls Competitive Strengths & Weaknesses

Table 80. Unisem Basic Information, Manufacturing Base and Competitors

Table 81. Unisem Major Business

Table 82. Unisem Semiconductor Chiller Product and Services

Table 83. Unisem Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Unisem Recent Developments/Updates

Table 85. Unisem Competitive Strengths & Weaknesses

Table 86. GST (Global Standard Technology) Basic Information, Manufacturing Base and Competitors

Table 87. GST (Global Standard Technology) Major Business

Table 88. GST (Global Standard Technology) Semiconductor Chiller Product and Services

Table 89. GST (Global Standard Technology) Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. GST (Global Standard Technology) Recent Developments/Updates

Table 91. GST (Global Standard Technology) Competitive Strengths & Weaknesses

Table 92. SMC Corporation Basic Information, Manufacturing Base and Competitors

Table 93. SMC Corporation Major Business

Table 94. SMC Corporation Semiconductor Chiller Product and Services

Table 95. SMC Corporation Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. SMC Corporation Recent Developments/Updates

Table 97. SMC Corporation Competitive Strengths & Weaknesses

Table 98. Beijing Jingyi Automation Equipment Technology Basic Information, Manufacturing Base and Competitors

Table 99. Beijing Jingyi Automation Equipment Technology Major Business

Table 100. Beijing Jingyi Automation Equipment Technology Semiconductor Chiller Product and Services

Table 101. Beijing Jingyi Automation Equipment Technology Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Beijing Jingyi Automation Equipment Technology Recent Developments/Updates

Table 103. Beijing Jingyi Automation Equipment Technology Competitive Strengths & Weaknesses

Table 104. FST (Fine Semitech Corp) Basic Information, Manufacturing Base and Competitors

Table 105. FST (Fine Semitech Corp) Major Business

Table 106. FST (Fine Semitech Corp) Semiconductor Chiller Product and Services

Table 107. FST (Fine Semitech Corp) Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. FST (Fine Semitech Corp) Recent Developments/Updates

Table 109. FST (Fine Semitech Corp) Competitive Strengths & Weaknesses

Table 110. Techist Basic Information, Manufacturing Base and Competitors

Table 111. Techist Major Business

Table 112. Techist Semiconductor Chiller Product and Services

Table 113. Techist Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Techist Recent Developments/Updates

Table 115. Techist Competitive Strengths & Weaknesses

Table 116. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 117. Thermo Fisher Scientific Major Business

Table 118. Thermo Fisher Scientific Semiconductor Chiller Product and Services

Table 119. Thermo Fisher Scientific Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 120. Thermo Fisher Scientific Recent Developments/Updates

Table 121. Thermo Fisher Scientific Competitive Strengths & Weaknesses

Table 122. Mirapro Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 123. Mirapro Co., Ltd Major Business

Table 124. Mirapro Co., Ltd Semiconductor Chiller Product and Services

Table 125. Mirapro Co., Ltd Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 126. Mirapro Co., Ltd Recent Developments/Updates

Table 127. Mirapro Co., Ltd Competitive Strengths & Weaknesses

Table 128. Solid State Cooling Systems Basic Information, Manufacturing Base and Competitors

Table 129. Solid State Cooling Systems Major Business

Table 130. Solid State Cooling Systems Semiconductor Chiller Product and Services

Table 131. Solid State Cooling Systems Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 132. Solid State Cooling Systems Recent Developments/Updates

Table 133. Solid State Cooling Systems Competitive Strengths & Weaknesses

Table 134. LNEYA Thermo Refrigeration Basic Information, Manufacturing Base and Competitors

Table 135. LNEYA Thermo Refrigeration Major Business

Table 136. LNEYA Thermo Refrigeration Semiconductor Chiller Product and Services

Table 137. LNEYA Thermo Refrigeration Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 138. LNEYA Thermo Refrigeration Recent Developments/Updates

Table 139. LNEYA Thermo Refrigeration Competitive Strengths & Weaknesses

Table 140. BV Thermal Systems Basic Information, Manufacturing Base and Competitors

Table 141. BV Thermal Systems Major Business

Table 142. BV Thermal Systems Semiconductor Chiller Product and Services

Table 143. BV Thermal Systems Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 144. BV Thermal Systems Recent Developments/Updates

Table 145. BV Thermal Systems Competitive Strengths & Weaknesses

Table 146. Legacy Chiller Basic Information, Manufacturing Base and Competitors

- Table 147. Legacy Chiller Major Business
- Table 148. Legacy Chiller Semiconductor Chiller Product and Services
- Table 149. Legacy Chiller Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 150. Legacy Chiller Recent Developments/Updates
- Table 151. Legacy Chiller Competitive Strengths & Weaknesses
- Table 152. LAUDA-Noah Basic Information, Manufacturing Base and Competitors
- Table 153. LAUDA-Noah Major Business
- Table 154. LAUDA-Noah Semiconductor Chiller Product and Services
- Table 155. LAUDA-Noah Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 156. LAUDA-Noah Recent Developments/Updates
- Table 157. LAUDA-Noah Competitive Strengths & Weaknesses
- Table 158. CJ Tech Inc Basic Information, Manufacturing Base and Competitors
- Table 159. CJ Tech Inc Major Business
- Table 160. CJ Tech Inc Semiconductor Chiller Product and Services
- Table 161. CJ Tech Inc Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 162. CJ Tech Inc Recent Developments/Updates
- Table 163. CJ Tech Inc Competitive Strengths & Weaknesses
- Table 164. Step Science Basic Information, Manufacturing Base and Competitors
- Table 165. Step Science Major Business
- Table 166. Step Science Semiconductor Chiller Product and Services
- Table 167. Step Science Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 168. Step Science Recent Developments/Updates
- Table 169. Step Science Competitive Strengths & Weaknesses
- Table 170. Thermonics (InTest Thermal Solutions (ITS)) Basic Information, Manufacturing Base and Competitors
- Table 171. Thermonics (InTest Thermal Solutions (ITS)) Major Business
- Table 172. Thermonics (InTest Thermal Solutions (ITS)) Semiconductor Chiller Product and Services
- Table 173. Thermonics (InTest Thermal Solutions (ITS)) Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 174. Thermonics (InTest Thermal Solutions (ITS)) Recent Developments/Updates
- Table 175. Thermonics (InTest Thermal Solutions (ITS)) Competitive Strengths & Weaknesses
- Table 176. Maruyama Chillers Basic Information, Manufacturing Base and Competitors

Table 177. Maruyama Chillers Major Business

Table 178. Maruyama Chillers Semiconductor Chiller Product and Services

Table 179. Maruyama Chillers Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 180. Maruyama Chillers Recent Developments/Updates

Table 181. Maruyama Chillers Competitive Strengths & Weaknesses

Table 182. Mydax, Inc. Basic Information, Manufacturing Base and Competitors

Table 183. Mydax, Inc. Major Business

Table 184. Mydax, Inc. Semiconductor Chiller Product and Services

Table 185. Mydax, Inc. Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 186. Mydax, Inc. Recent Developments/Updates

Table 187. Mydax, Inc. Competitive Strengths & Weaknesses

Table 188. Sanhe Tongfei Refrigeration Basic Information, Manufacturing Base and Competitors

Table 189. Sanhe Tongfei Refrigeration Major Business

Table 190. Sanhe Tongfei Refrigeration Semiconductor Chiller Product and Services

Table 191. Sanhe Tongfei Refrigeration Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 192. Sanhe Tongfei Refrigeration Recent Developments/Updates

Table 193. Sanhe Tongfei Refrigeration Competitive Strengths & Weaknesses

Table 194. Ferrotec Basic Information, Manufacturing Base and Competitors

Table 195. Ferrotec Major Business

Table 196. Ferrotec Semiconductor Chiller Product and Services

Table 197. Ferrotec Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 198. Ferrotec Recent Developments/Updates

Table 199. Ferrotec Competitive Strengths & Weaknesses

Table 200. Ebara Basic Information, Manufacturing Base and Competitors

Table 201. Ebara Major Business

Table 202. Ebara Semiconductor Chiller Product and Services

Table 203. Ebara Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 204. Ebara Recent Developments/Updates

Table 205. Ebara Competitive Strengths & Weaknesses

Table 206. AIRSYS Cooling Technologies Inc. Basic Information, Manufacturing Base and Competitors

Table 207. AIRSYS Cooling Technologies Inc. Major Business

Table 208. AIRSYS Cooling Technologies Inc. Semiconductor Chiller Product and Services

Table 209. AIRSYS Cooling Technologies Inc. Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 210. AIRSYS Cooling Technologies Inc. Recent Developments/Updates

Table 211. AIRSYS Cooling Technologies Inc. Competitive Strengths & Weaknesses

Table 212. GMC Semitech Basic Information, Manufacturing Base and Competitors

Table 213. GMC Semitech Major Business

Table 214. GMC Semitech Semiconductor Chiller Product and Services

Table 215. GMC Semitech Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 216. GMC Semitech Recent Developments/Updates

Table 217. GMC Semitech Competitive Strengths & Weaknesses

Table 218. PTC, Inc. Basic Information, Manufacturing Base and Competitors

Table 219. PTC, Inc. Major Business

Table 220. PTC, Inc. Semiconductor Chiller Product and Services

Table 221. PTC, Inc. Semiconductor Chiller Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 222. PTC, Inc. Recent Developments/Updates

Table 223. PTC, Inc. Competitive Strengths & Weaknesses

Table 224. Global Key Players of Semiconductor Chiller Upstream (Raw Materials)

Table 225. Global Semiconductor Chiller Typical Customers

Table 226. Semiconductor Chiller Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Semiconductor Chiller Picture

Figure 2. World Semiconductor Chiller Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Semiconductor Chiller Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Semiconductor Chiller Production (2021-2032) & (Units)

Figure 5. World Semiconductor Chiller Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Semiconductor Chiller Production Value Market Share by Region (2021-2032)

Figure 7. World Semiconductor Chiller Production Market Share by Region (2021-2032)

Figure 8. North America Semiconductor Chiller Production (2021-2032) & (Units)

Figure 9. South Korea Semiconductor Chiller Production (2021-2032) & (Units)

Figure 10. Japan Semiconductor Chiller Production (2021-2032) & (Units)

Figure 11. China Semiconductor Chiller Production (2021-2032) & (Units)

Figure 12. Semiconductor Chiller Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Semiconductor Chiller Consumption (2021-2032) & (Units)

Figure 15. World Semiconductor Chiller Consumption Market Share by Region (2021-2032)

Figure 16. United States Semiconductor Chiller Consumption (2021-2032) & (Units)

Figure 17. China Semiconductor Chiller Consumption (2021-2032) & (Units)

Figure 18. Europe Semiconductor Chiller Consumption (2021-2032) & (Units)

Figure 19. Japan Semiconductor Chiller Consumption (2021-2032) & (Units)

Figure 20. South Korea Semiconductor Chiller Consumption (2021-2032) & (Units)

Figure 21. ASEAN Semiconductor Chiller Consumption (2021-2032) & (Units)

Figure 22. India Semiconductor Chiller Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Semiconductor Chiller by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Semiconductor Chiller Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Semiconductor Chiller Markets in 2025

Figure 26. United States VS China: Semiconductor Chiller Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Semiconductor Chiller Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Semiconductor Chiller Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Semiconductor Chiller Production Market Share 2025

Figure 30. China Based Manufacturers Semiconductor Chiller Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Semiconductor Chiller Production Market Share 2025

Figure 32. World Semiconductor Chiller Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Semiconductor Chiller Production Value Market Share by Type in 2025

Figure 34. Single Channel Chiller

Figure 35. Dual Channel Chiller

Figure 36. Three Channel Chiller

Figure 37. World Semiconductor Chiller Production Market Share by Type (2021-2032)

Figure 38. World Semiconductor Chiller Production Value Market Share by Type (2021-2032)

Figure 39. World Semiconductor Chiller Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 40. World Semiconductor Chiller Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 41. World Semiconductor Chiller Production Value Market Share by Technology in 2025

Figure 42. Compressor Type Chiller

Figure 43. Heat Exchanger Type Chiller

Figure 44. Thermoelectric (TEC) Chiller

Figure 45. Cryogenic Chiller

Figure 46. World Semiconductor Chiller Production Market Share by Technology (2021-2032)

Figure 47. World Semiconductor Chiller Production Value Market Share by Technology (2021-2032)

Figure 48. World Semiconductor Chiller Average Price by Technology (2021-2032) & (K US\$/Unit)

Figure 49. World Semiconductor Chiller Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Semiconductor Chiller Production Value Market Share by Application in 2025

Figure 51. Etching Process

Figure 52. Coater/Developer

Figure 53. Ion Implantation

Figure 54. Diffusion Process

Figure 55. Deposition Process

Figure 56. CMP Process

Figure 57. Other

Figure 58. World Semiconductor Chiller Production Market Share by Application
(2021-2032)

Figure 59. World Semiconductor Chiller Production Value Market Share by Application
(2021-2032)

Figure 60. World Semiconductor Chiller Average Price by Application (2021-2032) & (K
US\$/Unit)

Figure 61. Semiconductor Chiller Industry Chain

Figure 62. Semiconductor Chiller Procurement Model

Figure 63. Semiconductor Chiller Sales Model

Figure 64. Semiconductor Chiller Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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