

Global Semiconductor Temperature Control Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Temperature Control Equipment 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 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.

China is currently the world's largest market of Semiconductor Temperature Control Equipment (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 Temperature Control Equipment 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 Temperature Control Equipment 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 Temperature Control Equipment 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 Temperature Control Equipment 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 Temperature Control Equipment 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 Temperature Control Equipment, North America, South Korea, Japan, and China dominate Semiconductor Temperature Control Equipment 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 Temperature Control Equipment 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 Temperature Control Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Temperature Control Equipment 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 Temperature Control Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Temperature Control Equipment total production and demand, 2021-2032, (Units)

Global Semiconductor Temperature Control Equipment total production value, 2021-2032, (USD Million)

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

Global Semiconductor Temperature Control Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Semiconductor Temperature Control Equipment domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Temperature Control Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

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

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

This report profiles key players in the global Semiconductor Temperature Control Equipment 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 Temperature Control Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Temperature Control Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Temperature Control Equipment Market, Segmentation by Type:

Single Channel Chiller

Dual Channel Chiller

Three Channel Chiller

Global Semiconductor Temperature Control Equipment Market, Segmentation by Technology:

Compressor Type Chiller

Heat Exchanger Type Chiller

Thermoelectric (TEC) Chiller

Cryogenic Chiller

Global Semiconductor Temperature Control Equipment Market, Segmentation by Application:

Etching

Coating and Developing

Ion Implantation

Diffusion

Deposition

CMP

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Underwater Passive Acoustic Recorders Demand (2021-2032)
- 2.2 World Underwater Passive Acoustic Recorders Consumption by Region
 - 2.2.1 World Underwater Passive Acoustic Recorders Consumption by Region (2021-2026)
 - 2.2.2 World Underwater Passive Acoustic Recorders Consumption Forecast by Region (2027-2032)
- 2.3 United States Underwater Passive Acoustic Recorders Consumption (2021-2032)
- 2.4 China Underwater Passive Acoustic Recorders Consumption (2021-2032)
- 2.5 Europe Underwater Passive Acoustic Recorders Consumption (2021-2032)
- 2.6 Japan Underwater Passive Acoustic Recorders Consumption (2021-2032)

- 2.7 South Korea Underwater Passive Acoustic Recorders Consumption (2021-2032)
- 2.8 ASEAN Underwater Passive Acoustic Recorders Consumption (2021-2032)
- 2.9 India Underwater Passive Acoustic Recorders Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Underwater Passive Acoustic Recorders Production Value by Manufacturer (2021-2026)
- 3.2 World Underwater Passive Acoustic Recorders Production by Manufacturer (2021-2026)
- 3.3 World Underwater Passive Acoustic Recorders Average Price by Manufacturer (2021-2026)
- 3.4 Underwater Passive Acoustic Recorders Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Underwater Passive Acoustic Recorders Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Underwater Passive Acoustic Recorders in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Underwater Passive Acoustic Recorders in 2025
- 3.6 Underwater Passive Acoustic Recorders Market: Overall Company Footprint Analysis
 - 3.6.1 Underwater Passive Acoustic Recorders Market: Region Footprint
 - 3.6.2 Underwater Passive Acoustic Recorders Market: Company Product Type Footprint
 - 3.6.3 Underwater Passive Acoustic Recorders 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: Underwater Passive Acoustic Recorders Production Value Comparison
 - 4.1.1 United States VS China: Underwater Passive Acoustic Recorders Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Underwater Passive Acoustic Recorders Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Underwater Passive Acoustic Recorders Production Comparison

4.2.1 United States VS China: Underwater Passive Acoustic Recorders Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Underwater Passive Acoustic Recorders Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Underwater Passive Acoustic Recorders Consumption Comparison

4.3.1 United States VS China: Underwater Passive Acoustic Recorders Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Underwater Passive Acoustic Recorders Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Underwater Passive Acoustic Recorders Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Underwater Passive Acoustic Recorders Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Underwater Passive Acoustic Recorders Production Value (2021-2026)

4.4.3 United States Based Manufacturers Underwater Passive Acoustic Recorders Production (2021-2026)

4.5 China Based Underwater Passive Acoustic Recorders Manufacturers and Market Share

4.5.1 China Based Underwater Passive Acoustic Recorders Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Underwater Passive Acoustic Recorders Production Value (2021-2026)

4.5.3 China Based Manufacturers Underwater Passive Acoustic Recorders Production (2021-2026)

4.6 Rest of World Based Underwater Passive Acoustic Recorders Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Underwater Passive Acoustic Recorders Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Underwater Passive Acoustic Recorders Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Underwater Passive Acoustic Recorders Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Underwater Passive Acoustic Recorders Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single Channel Underwater Passive Acoustic Recorders

5.2.2 Multi Channel Underwater Passive Acoustic Recorders

5.3 Market Segment by Type

5.3.1 World Underwater Passive Acoustic Recorders Production by Type (2021-2032)

5.3.2 World Underwater Passive Acoustic Recorders Production Value by Type (2021-2032)

5.3.3 World Underwater Passive Acoustic Recorders Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY WORKING PRINCIPLE

6.1 World Underwater Passive Acoustic Recorders Market Size Overview by Working Principle: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Working Principle

6.2.1 Purely Passive Listening

6.2.2 Passive Monitoring + Local Analysis

6.2.3 Long-Term Continuous Recording

6.2.4 Others

6.3 Market Segment by Working Principle

6.3.1 World Underwater Passive Acoustic Recorders Production by Working Principle (2021-2032)

6.3.2 World Underwater Passive Acoustic Recorders Production Value by Working Principle (2021-2032)

6.3.3 World Underwater Passive Acoustic Recorders Average Price by Working Principle (2021-2032)

7 MARKET ANALYSIS BY DEPLOYMENT METHODS

7.1 World Underwater Passive Acoustic Recorders Market Size Overview by Deployment Methods: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Deployment Methods

7.2.1 Moored

7.2.2 Seabed Fixed

7.2.3 Autonomous Deployment

7.2.4 Others

7.3 Market Segment by Deployment Methods

7.3.1 World Underwater Passive Acoustic Recorders Production by Deployment Methods (2021-2032)

7.3.2 World Underwater Passive Acoustic Recorders Production Value by Deployment Methods (2021-2032)

7.3.3 World Underwater Passive Acoustic Recorders Average Price by Deployment Methods (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Underwater Passive Acoustic Recorders Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Seismic Exploration

8.2.2 Oceanographic Research

8.2.3 Environmental Monitoring

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Underwater Passive Acoustic Recorders Production by Application (2021-2032)

8.3.2 World Underwater Passive Acoustic Recorders Production Value by Application (2021-2032)

8.3.3 World Underwater Passive Acoustic Recorders Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Loggerhead Instruments

9.1.1 Loggerhead Instruments Details

9.1.2 Loggerhead Instruments Major Business

9.1.3 Loggerhead Instruments Underwater Passive Acoustic Recorders Product and Services

9.1.4 Loggerhead Instruments Underwater Passive Acoustic Recorders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Loggerhead Instruments Recent Developments/Updates

9.1.6 Loggerhead Instruments Competitive Strengths & Weaknesses

9.2 RTSYS

- 9.2.1 RTSYS Details
- 9.2.2 RTSYS Major Business
- 9.2.3 RTSYS Underwater Passive Acoustic Recorders Product and Services
- 9.2.4 RTSYS Underwater Passive Acoustic Recorders Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 RTSYS Recent Developments/Updates
- 9.2.6 RTSYS Competitive Strengths & Weaknesses
- 9.3 Desertstar
 - 9.3.1 Desertstar Details
 - 9.3.2 Desertstar Major Business
 - 9.3.3 Desertstar Underwater Passive Acoustic Recorders Product and Services
 - 9.3.4 Desertstar Underwater Passive Acoustic Recorders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Desertstar Recent Developments/Updates
 - 9.3.6 Desertstar Competitive Strengths & Weaknesses
- 9.4 Turbulent Research
 - 9.4.1 Turbulent Research Details
 - 9.4.2 Turbulent Research Major Business
 - 9.4.3 Turbulent Research Underwater Passive Acoustic Recorders Product and Services
 - 9.4.4 Turbulent Research Underwater Passive Acoustic Recorders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Turbulent Research Recent Developments/Updates
 - 9.4.6 Turbulent Research Competitive Strengths & Weaknesses
- 9.5 Abyssens
 - 9.5.1 Abyssens Details
 - 9.5.2 Abyssens Major Business
 - 9.5.3 Abyssens Underwater Passive Acoustic Recorders Product and Services
 - 9.5.4 Abyssens Underwater Passive Acoustic Recorders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Abyssens Recent Developments/Updates
 - 9.5.6 Abyssens Competitive Strengths & Weaknesses
- 9.6 RS Aqua
 - 9.6.1 RS Aqua Details
 - 9.6.2 RS Aqua Major Business
 - 9.6.3 RS Aqua Underwater Passive Acoustic Recorders Product and Services
 - 9.6.4 RS Aqua Underwater Passive Acoustic Recorders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 RS Aqua Recent Developments/Updates

9.6.6 RS Aqua Competitive Strengths & Weaknesses

9.7 Seiche

9.7.1 Seiche Details

9.7.2 Seiche Major Business

9.7.3 Seiche Underwater Passive Acoustic Recorders Product and Services

9.7.4 Seiche Underwater Passive Acoustic Recorders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Seiche Recent Developments/Updates

9.7.6 Seiche Competitive Strengths & Weaknesses

9.8 BlueZone Group

9.8.1 BlueZone Group Details

9.8.2 BlueZone Group Major Business

9.8.3 BlueZone Group Underwater Passive Acoustic Recorders Product and Services

9.8.4 BlueZone Group Underwater Passive Acoustic Recorders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 BlueZone Group Recent Developments/Updates

9.8.6 BlueZone Group Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Underwater Passive Acoustic Recorders Industry Chain

10.2 Underwater Passive Acoustic Recorders Upstream Analysis

10.2.1 Underwater Passive Acoustic Recorders Core Raw Materials

10.2.2 Main Manufacturers of Underwater Passive Acoustic Recorders Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Underwater Passive Acoustic Recorders Production Mode

10.6 Underwater Passive Acoustic Recorders Procurement Model

10.7 Underwater Passive Acoustic Recorders Industry Sales Model and Sales Channels

10.7.1 Underwater Passive Acoustic Recorders Sales Model

10.7.2 Underwater Passive Acoustic Recorders Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

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

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

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

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

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

Table 6. World Semiconductor Temperature Control Equipment Production by Region (2021-2026) & (Units)

Table 7. World Semiconductor Temperature Control Equipment Production by Region (2027-2032) & (Units)

Table 8. World Semiconductor Temperature Control Equipment Production Market Share by Region (2021-2026)

Table 9. World Semiconductor Temperature Control Equipment Production Market Share by Region (2027-2032)

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

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

Table 12. Semiconductor Temperature Control Equipment Major Market Trends

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

Table 14. World Semiconductor Temperature Control Equipment Consumption by Region (2021-2026) & (Units)

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

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

Table 17. Production Value Market Share of Key Semiconductor Temperature Control Equipment Producers in 2025

Table 18. World Semiconductor Temperature Control Equipment Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Semiconductor Temperature Control Equipment Producers in 2025

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

Table 21. Global Semiconductor Temperature Control Equipment Company Evaluation Quadrant

Table 22. World Semiconductor Temperature Control Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Semiconductor Temperature Control Equipment Production Site of Key Manufacturer

Table 24. Semiconductor Temperature Control Equipment Market: Company Product Type Footprint

Table 25. Semiconductor Temperature Control Equipment Market: Company Product Application Footprint

Table 26. Semiconductor Temperature Control Equipment Competitive Factors

Table 27. Semiconductor Temperature Control Equipment New Entrant and Capacity Expansion Plans

Table 28. Semiconductor Temperature Control Equipment Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

- Table 39. China Based Manufacturers Semiconductor Temperature Control Equipment Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Semiconductor Temperature Control Equipment Production, (2021-2026) & (Units)
- Table 41. China Based Manufacturers Semiconductor Temperature Control Equipment Production Market Share (2021-2026)
- Table 42. Rest of World Based Semiconductor Temperature Control Equipment Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Semiconductor Temperature Control Equipment Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Semiconductor Temperature Control Equipment Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Semiconductor Temperature Control Equipment Production, (2021-2026) & (Units)
- Table 46. Rest of World Based Manufacturers Semiconductor Temperature Control Equipment Production Market Share (2021-2026)
- Table 47. World Semiconductor Temperature Control Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Semiconductor Temperature Control Equipment Production by Type (2021-2026) & (Units)
- Table 49. World Semiconductor Temperature Control Equipment Production by Type (2027-2032) & (Units)
- Table 50. World Semiconductor Temperature Control Equipment Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Semiconductor Temperature Control Equipment Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Semiconductor Temperature Control Equipment Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Semiconductor Temperature Control Equipment Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Semiconductor Temperature Control Equipment Production Value by Technology, (USD Million), 2021 & 2025 & 2032
- Table 55. World Semiconductor Temperature Control Equipment Production by Technology (2021-2026) & (Units)
- Table 56. World Semiconductor Temperature Control Equipment Production by Technology (2027-2032) & (Units)
- Table 57. World Semiconductor Temperature Control Equipment Production Value by Technology (2021-2026) & (USD Million)
- Table 58. World Semiconductor Temperature Control Equipment Production Value by

Technology (2027-2032) & (USD Million)

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

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

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

Table 62. World Semiconductor Temperature Control Equipment Production by Application (2021-2026) & (Units)

Table 63. World Semiconductor Temperature Control Equipment Production by Application (2027-2032) & (Units)

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

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

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

Table 67. World Semiconductor Temperature Control Equipment Average Price by Application (2027-2032) & (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 Temperature Control Equipment Product and Services

Table 71. Advanced Thermal Sciences (ATS) Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 77. Shinwa Controls Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 83. Unisem Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 89. GST (Global Standard Technology) Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 95. SMC Corporation Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 101. Beijing Jingyi Automation Equipment Technology Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 107. FST (Fine Semitech Corp) Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 113. Techist Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 119. Thermo Fisher Scientific Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 125. Mirapro Co., Ltd Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 131. Solid State Cooling Systems Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 137. LNEYA Thermo Refrigeration Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 143. BV Thermal Systems Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 149. Legacy Chiller Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 155. LAUDA-Noah Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 161. CJ Tech Inc Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 167. Step Science Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 173. Thermonics (InTest Thermal Solutions (ITS)) Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 179. Maruyama Chillers Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 185. Mydax, Inc. Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 191. Sanhe Tongfei Refrigeration Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 197. Ferrotec Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 203. Ebara Semiconductor Temperature Control Equipment Production (Units),

Price (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 Temperature Control Equipment Product and Services

Table 209. AIRSYS Cooling Technologies Inc. Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 215. GMC Semitech Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Product and Services

Table 221. PTC, Inc. Semiconductor Temperature Control Equipment Production (Units), Price (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 Temperature Control Equipment Upstream (Raw Materials)

Table 225. Global Semiconductor Temperature Control Equipment Typical Customers

Table 226. Semiconductor Temperature Control Equipment Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Semiconductor Temperature Control Equipment Picture

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

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

Figure 4. World Semiconductor Temperature Control Equipment Production (2021-2032) & (Units)

Figure 5. World Semiconductor Temperature Control Equipment Average Price (2021-2032) & (US\$/Unit)

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

Figure 7. World Semiconductor Temperature Control Equipment Production Market Share by Region (2021-2032)

Figure 8. North America Semiconductor Temperature Control Equipment Production (2021-2032) & (Units)

Figure 9. South Korea Semiconductor Temperature Control Equipment Production (2021-2032) & (Units)

Figure 10. China Semiconductor Temperature Control Equipment Production (2021-2032) & (Units)

Figure 11. Japan Semiconductor Temperature Control Equipment Production (2021-2032) & (Units)

Figure 12. Semiconductor Temperature Control Equipment Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Semiconductor Temperature Control Equipment Consumption (2021-2032) & (Units)

Figure 15. World Semiconductor Temperature Control Equipment Consumption Market Share by Region (2021-2032)

Figure 16. United States Semiconductor Temperature Control Equipment Consumption (2021-2032) & (Units)

Figure 17. China Semiconductor Temperature Control Equipment Consumption (2021-2032) & (Units)

Figure 18. Europe Semiconductor Temperature Control Equipment Consumption (2021-2032) & (Units)

Figure 19. Japan Semiconductor Temperature Control Equipment Consumption (2021-2032) & (Units)

Figure 20. South Korea Semiconductor Temperature Control Equipment Consumption (2021-2032) & (Units)

Figure 21. ASEAN Semiconductor Temperature Control Equipment Consumption (2021-2032) & (Units)

Figure 22. India Semiconductor Temperature Control Equipment Consumption (2021-2032) & (Units)

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

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

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

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

Figure 27. United States VS China: Semiconductor Temperature Control Equipment Production Market Share Comparison (2021 & 2025 & 2032)

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

Figure 29. United States Based Manufacturers Semiconductor Temperature Control Equipment Production Market Share 2025

Figure 30. China Based Manufacturers Semiconductor Temperature Control Equipment Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Semiconductor Temperature Control Equipment Production Market Share 2025

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

Figure 33. World Semiconductor Temperature Control Equipment 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 Temperature Control Equipment Production Market Share by Type (2021-2032)

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

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

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

Figure 41. World Semiconductor Temperature Control Equipment 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 Temperature Control Equipment Production Market Share by Technology (2021-2032)

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

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

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

Figure 50. World Semiconductor Temperature Control Equipment Production Value Market Share by Application in 2025

Figure 51. Etching

Figure 52. Coating and Developing

Figure 53. Ion Implantation

Figure 54. Diffusion

Figure 55. Deposition

Figure 56. CMP

Figure 57. Other

Figure 58. World Semiconductor Temperature Control Equipment Production Market Share by Application (2021-2032)

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

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

Figure 61. Semiconductor Temperature Control Equipment Industry Chain

Figure 62. Semiconductor Temperature Control Equipment Procurement Model

Figure 63. Semiconductor Temperature Control Equipment Sales Model

Figure 64. Semiconductor Temperature Control Equipment Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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