

# Global Thermoelectric Cooler Module Market Growth 2026-2032

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## Abstracts

The global Thermoelectric Cooler Module market size is predicted to grow from US\$ 920 million in 2025 to US\$ 1695 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

In 2025, global Thermoelectric Cooler Module production reached approximately 226573 K Pcs, with an average global market price of around 4149 USD per K Pcs.

A Thermoelectric Cooler Module is a solid-state thermal management device that uses the Peltier effect to provide active cooling and precise temperature control. It is typically constructed with multiple pairs of P-type and N-type thermoelectric semiconductor elements, electrodes, ceramic substrates, and thermal interface structures. When direct current is applied, a temperature difference is generated across the module, enabling one side to absorb heat while the other side releases heat. These devices are characterized by compact size, fast response, no moving parts, refrigerant-free operation, and reversible cooling/heating capability through current direction control. They are widely used in optical communication components, lasers, semiconductor equipment, medical and laboratory instruments, automotive thermal management, consumer electronics, industrial sensors, and aerospace and defense electronics where localized cooling, stable temperature control, or thermal cycling is required.

The upstream raw materials for Thermoelectric Cooler Module mainly include bismuth telluride, extruded aluminum, plastic granules, and copper-clad laminates. Major suppliers include Furukawa, Rogers, Tong Hsing, Ortech, Shanghai Vital, ABSCO Limited, RusTec, Reade, ESPI Metals, and Vital Materials. Downstream applications include consumer electronics, communications, medical, automotive, industrial, and defense/aerospace fields. Typical customers include Gentherm, Thermo Fisher

Scientific, Agilent Technologies, Coherent, Lumentum, Ericsson, Nokia, Roche, Siemens, Huawei, ZTE, Bosch, Continental, Haier, and Midea.

Single-line production capacity for Thermoelectric Cooler Module ranges from 500,000 to 1,000,000 Pcs, varying depending on production scale, technology, and manufacturers. Gross profit margins are between 30% and 40%.

From a supply perspective, the global Thermoelectric Cooler Module industry exhibits a competitive structure where 'Japan and Europe control high-end materials, reliability, and application solutions, while China accelerates large-scale manufacturing and domestic substitution.' Companies such as Ferrotec, KELK, Kyocera, Coherent, Tark Thermal Solutions, and Phononic have strong brand recognition and customer bases in optical communication, medical, industrial, and high-reliability temperature control applications. Meanwhile, Chinese manufacturers are expanding rapidly in standard TEC, Micro TEC, thermoelectric systems, and complete system applications, with many Chinese companies having established relatively clear local manufacturing chains. In terms of regional competition, leading customers still prioritize material consistency, cycle life, reliability verification, and batch delivery stability. Therefore, in the short term, the global high-end market will still be dominated by leading Japanese, American, and European companies, but in the medium to long term, the influence of Chinese companies in terms of cost, production capacity, and local support will continue to increase.

From a demand structure perspective, the growth of Thermoelectric Cooler Module is gradually shifting from traditional consumer small appliances and general electronic cooling to higher-value precision temperature control scenarios. Fields such as optical modules, lasers, infrared detection, medical testing, semiconductor equipment, automotive batteries, and seat temperature control have higher requirements for temperature stability, size, response speed, and reliability, thus making it easier to support high-priced and customized demands. Kyocera's 2024 Peltier module launch, which raised maximum heat absorption by 21% compared to its conventional products and highlighted automotive battery and seat temperature control applications, shows that automotive thermal management is becoming a more visible growth area for the technology. At the same time, AI computing, 800G/1.6T optical networking, and rising power density in photonic and electronic systems are increasing demand for compact heat management at the device and module level. Phononic's OFC 2025 positioning around solid-state thermal solutions for next-generation AI servers, networks, and data centers, along with its statement of more than 25 million TECs deployed, indicates that communications and data infrastructure are becoming more important to the industry's

growth narrative.

From a product roadmap perspective, the focus of industry competition is shifting from simply 'cooling' to comprehensive capabilities including 'high heat flux density, low power consumption, high cycle life, long lifespan reliability, and system-level thermal management integration.' Coherent launched its CT-Series thermoelectric coolers in 2025, emphasizing their ability to support up to 100,000 thermal cycles. Positioned for mid-range reliability applications?better than conventional product lines but lower than those with extreme cycling requirements?this demonstrates that leading international companies are stratifying their products to cover different reliability and cost ranges. Meanwhile, on the materials side, development continues to focus on Bi<sub>2</sub>Te<sub>3</sub>-based thermoelectric materials, ceramic substrates, welding processes, grain consistency, and packaging reliability optimization. On the application side, the focus is shifting from individual modules to the integration of cold plates, liquid cooling, temperature controllers, and complete system components. In terms of the policy environment, China's support for strategic emerging industries, green energy technologies, electronic information, and high-end manufacturing provides a foundation for continuous R&D and capacity expansion for domestic TEC (thermoelectric cooling) companies. However, the industry still faces competition from traditional compressor refrigeration, liquid cooling, heat pipe/vapor chamber, and advanced air-cooling solutions. In conclusion, the TEC industry will not become a universal replacement for all refrigeration scenarios in the future, but it will maintain definite growth in the areas of high precision, miniaturization, low vibration, and localized active temperature control.

LP Information, Inc. (LPI) ' newest research report, the ?Thermoelectric Cooler Module Industry Forecast? looks at past sales and reviews total world Thermoelectric Cooler Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermoelectric Cooler Module sales for 2026 through 2032. With Thermoelectric Cooler Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thermoelectric Cooler Module industry.

This Insight Report provides a comprehensive analysis of the global Thermoelectric Cooler Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Thermoelectric Cooler Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Thermoelectric Cooler Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermoelectric Cooler Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Thermoelectric Cooler Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Thermoelectric Cooler Module market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Single-stage Type

Multi-stage Type

#### Segmentation by Package Geometry:

Standard Type

Center-hole Type

Custom-shaped

Other

#### Segmentation by Cooling Capacity (Qcmax):

50W Below

50-100W

100W Above

### Segmentation by Application:

Consumer Electronics

Communication

Medical

Automotive

Industrial

Aerospace Defense

Others

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Ferrotec

KELK Ltd.(Komatsu)

Coherent Corp (formerly II-VI Incorporated)

Tark Thermal Solutions (formerly Laird Thermal Systems)

KYOCERA

Phononic

Guangdong Fuxin Technology

ARCTIC TEC

KJLP

Thermion Company

Z-MAX

Zhejiang Wangu Semiconductor

Xianghe Oriental Electronic

Thermonamic Electronics

TE Technology

P&N Technology

AISIN Corporation

Sensor Controls Co., Ltd.

Wakefield Thermal

Same Sky (formerly CUI Devices)

TEC Microsystems GmbH

Peltron GmbH

Kryotherm Industries

Crystal Ltd

Liaoning Lengxin Technology

Thermoelectric new energy technology

Jianju Technology

Bi Sheng Semiconductor

Henan Hongchang Electronic

Wei County Zhongtian Electron Stock Cooperative

Beijing Xinyu Kaimeng Electronic Technology

Beijing Huimao Refrigeration Equipment

Hangzhou Aurin Cooling Device

Henan Guanjing Semiconductor Technology

Hubei Sagreon New Energy Technology

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermoelectric Cooler Module market?

What factors are driving Thermoelectric Cooler Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Thermoelectric Cooler Module market opportunities vary by end market size?

How does Thermoelectric Cooler Module break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Thermoelectric Cooler Module Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for Thermoelectric Cooler Module by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for Thermoelectric Cooler Module by Country/Region, 2021, 2025 & 2032
- 2.2 Thermoelectric Cooler Module Segment by Type
  - 2.2.1 Single-stage Type
  - 2.2.2 Multi-stage Type
  - 2.2.3 Thermoelectric Cooler Module Sales by Type
    - 2.2.3.1 Global Thermoelectric Cooler Module Sales Market Share by Type (2021-2026)
    - 2.2.3.2 Global Thermoelectric Cooler Module Revenue and Market Share by Type (2021-2026)
    - 2.2.3.3 Global Thermoelectric Cooler Module Sale Price by Type (2021-2026)
- 2.3 Thermoelectric Cooler Module Segment by Package Geometry
  - 2.3.1 Standard Type
  - 2.3.2 Center-hole Type
  - 2.3.3 Custom-shaped
  - 2.3.4 Other
  - 2.3.5 Thermoelectric Cooler Module Sales by Package Geometry
    - 2.3.5.1 Global Thermoelectric Cooler Module Sales Market Share by Package Geometry (2021-2026)
    - 2.3.5.2 Global Thermoelectric Cooler Module Revenue and Market Share by

## Package Geometry (2021-2026)

### 2.3.5.3 Global Thermoelectric Cooler Module Sale Price by Package Geometry (2021-2026)

## 2.4 Thermoelectric Cooler Module Segment by Cooling Capacity (Qcmax)

### 2.4.1 50W Below

### 2.4.2 50-100W

### 2.4.3 100W Above

### 2.4.4 Thermoelectric Cooler Module Sales by Cooling Capacity (Qcmax)

#### 2.4.4.1 Global Thermoelectric Cooler Module Sales Market Share by Cooling Capacity (Qcmax) (2021-2026)

#### 2.4.4.2 Global Thermoelectric Cooler Module Revenue and Market Share by Cooling Capacity (Qcmax) (2021-2026)

#### 2.4.4.3 Global Thermoelectric Cooler Module Sale Price by Cooling Capacity (Qcmax) (2021-2026)

## 2.5 Thermoelectric Cooler Module Segment by Application

### 2.5.1 Consumer Electronics

### 2.5.2 Communication

### 2.5.3 Medical

### 2.5.4 Automotive

### 2.5.5 Industrial

### 2.5.6 Aerospace Defense

### 2.5.7 Others

### 2.5.8 Thermoelectric Cooler Module Sales by Application

#### 2.5.8.1 Global Thermoelectric Cooler Module Sale Market Share by Application (2021-2026)

#### 2.5.8.2 Global Thermoelectric Cooler Module Revenue and Market Share by Application (2021-2026)

#### 2.5.8.3 Global Thermoelectric Cooler Module Sale Price by Application (2021-2026)

## 3 GLOBAL BY COMPANY

### 3.1 Global Thermoelectric Cooler Module Breakdown Data by Company

#### 3.1.1 Global Thermoelectric Cooler Module Annual Sales by Company (2021-2026)

#### 3.1.2 Global Thermoelectric Cooler Module Sales Market Share by Company (2021-2026)

### 3.2 Global Thermoelectric Cooler Module Annual Revenue by Company (2021-2026)

#### 3.2.1 Global Thermoelectric Cooler Module Revenue by Company (2021-2026)

#### 3.2.2 Global Thermoelectric Cooler Module Revenue Market Share by Company (2021-2026)

- 3.3 Global Thermoelectric Cooler Module Sale Price by Company
- 3.4 Key Manufacturers Thermoelectric Cooler Module Producing Area Distribution, Sales Area, Product Type
  - 3.4.1 Key Manufacturers Thermoelectric Cooler Module Product Location Distribution
  - 3.4.2 Players Thermoelectric Cooler Module Products Offered
- 3.5 Market Concentration Rate Analysis
  - 3.5.1 Competition Landscape Analysis
  - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR THERMOELECTRIC COOLER MODULE BY GEOGRAPHIC REGION**

- 4.1 World Historic Thermoelectric Cooler Module Market Size by Geographic Region (2021-2026)
  - 4.1.1 Global Thermoelectric Cooler Module Annual Sales by Geographic Region (2021-2026)
  - 4.1.2 Global Thermoelectric Cooler Module Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Thermoelectric Cooler Module Market Size by Country/Region (2021-2026)
  - 4.2.1 Global Thermoelectric Cooler Module Annual Sales by Country/Region (2021-2026)
  - 4.2.2 Global Thermoelectric Cooler Module Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Thermoelectric Cooler Module Sales Growth
- 4.4 APAC Thermoelectric Cooler Module Sales Growth
- 4.5 Europe Thermoelectric Cooler Module Sales Growth
- 4.6 Middle East & Africa Thermoelectric Cooler Module Sales Growth

## **5 AMERICAS**

- 5.1 Americas Thermoelectric Cooler Module Sales by Country
  - 5.1.1 Americas Thermoelectric Cooler Module Sales by Country (2021-2026)
  - 5.1.2 Americas Thermoelectric Cooler Module Revenue by Country (2021-2026)
- 5.2 Americas Thermoelectric Cooler Module Sales by Type (2021-2026)
- 5.3 Americas Thermoelectric Cooler Module Sales by Application (2021-2026)
- 5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Thermoelectric Cooler Module Sales by Region

6.1.1 APAC Thermoelectric Cooler Module Sales by Region (2021-2026)

6.1.2 APAC Thermoelectric Cooler Module Revenue by Region (2021-2026)

6.2 APAC Thermoelectric Cooler Module Sales by Type (2021-2026)

6.3 APAC Thermoelectric Cooler Module Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Thermoelectric Cooler Module by Country

7.1.1 Europe Thermoelectric Cooler Module Sales by Country (2021-2026)

7.1.2 Europe Thermoelectric Cooler Module Revenue by Country (2021-2026)

7.2 Europe Thermoelectric Cooler Module Sales by Type (2021-2026)

7.3 Europe Thermoelectric Cooler Module Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Thermoelectric Cooler Module by Country

8.1.1 Middle East & Africa Thermoelectric Cooler Module Sales by Country  
(2021-2026)

8.1.2 Middle East & Africa Thermoelectric Cooler Module Revenue by Country  
(2021-2026)

8.2 Middle East & Africa Thermoelectric Cooler Module Sales by Type (2021-2026)

8.3 Middle East & Africa Thermoelectric Cooler Module Sales by Application  
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Thermoelectric Cooler Module

10.3 Manufacturing Process Analysis of Thermoelectric Cooler Module

10.4 Industry Chain Structure of Thermoelectric Cooler Module

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Thermoelectric Cooler Module Distributors

11.3 Thermoelectric Cooler Module Customer

## **12 WORLD FORECAST REVIEW FOR THERMOELECTRIC COOLER MODULE BY GEOGRAPHIC REGION**

12.1 Global Thermoelectric Cooler Module Market Size Forecast by Region

12.1.1 Global Thermoelectric Cooler Module Forecast by Region (2027-2032)

12.1.2 Global Thermoelectric Cooler Module Annual Revenue Forecast by Region  
(2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Thermoelectric Cooler Module Forecast by Type (2027-2032)
- 12.7 Global Thermoelectric Cooler Module Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

### **13.1 Ferrotec**

- 13.1.1 Ferrotec Company Information
- 13.1.2 Ferrotec Thermoelectric Cooler Module Product Portfolios and Specifications
- 13.1.3 Ferrotec Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Ferrotec Main Business Overview
- 13.1.5 Ferrotec Latest Developments

### **13.2 KELK Ltd.(Komatsu)**

- 13.2.1 KELK Ltd.(Komatsu) Company Information
- 13.2.2 KELK Ltd.(Komatsu) Thermoelectric Cooler Module Product Portfolios and Specifications
- 13.2.3 KELK Ltd.(Komatsu) Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 KELK Ltd.(Komatsu) Main Business Overview
- 13.2.5 KELK Ltd.(Komatsu) Latest Developments

### **13.3 Coherent Corp (formerly II-VI Incorporated)**

- 13.3.1 Coherent Corp (formerly II-VI Incorporated) Company Information
- 13.3.2 Coherent Corp (formerly II-VI Incorporated) Thermoelectric Cooler Module Product Portfolios and Specifications
- 13.3.3 Coherent Corp (formerly II-VI Incorporated) Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Coherent Corp (formerly II-VI Incorporated) Main Business Overview
- 13.3.5 Coherent Corp (formerly II-VI Incorporated) Latest Developments

### **13.4 Tark Thermal Solutions (formerly Laird Thermal Systems)**

- 13.4.1 Tark Thermal Solutions (formerly Laird Thermal Systems) Company Information
- 13.4.2 Tark Thermal Solutions (formerly Laird Thermal Systems) Thermoelectric Cooler Module Product Portfolios and Specifications
- 13.4.3 Tark Thermal Solutions (formerly Laird Thermal Systems) Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Tark Thermal Solutions (formerly Laird Thermal Systems) Main Business Overview
- 13.4.5 Tark Thermal Solutions (formerly Laird Thermal Systems) Latest Developments

## 13.5 KYOCERA

### 13.5.1 KYOCERA Company Information

### 13.5.2 KYOCERA Thermoelectric Cooler Module Product Portfolios and Specifications

### 13.5.3 KYOCERA Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.5.4 KYOCERA Main Business Overview

### 13.5.5 KYOCERA Latest Developments

## 13.6 Phononic

### 13.6.1 Phononic Company Information

### 13.6.2 Phononic Thermoelectric Cooler Module Product Portfolios and Specifications

### 13.6.3 Phononic Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.6.4 Phononic Main Business Overview

### 13.6.5 Phononic Latest Developments

## 13.7 Guangdong Fuxin Technology

### 13.7.1 Guangdong Fuxin Technology Company Information

### 13.7.2 Guangdong Fuxin Technology Thermoelectric Cooler Module Product Portfolios and Specifications

### 13.7.3 Guangdong Fuxin Technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.7.4 Guangdong Fuxin Technology Main Business Overview

### 13.7.5 Guangdong Fuxin Technology Latest Developments

## 13.8 ARCTIC TEC

### 13.8.1 ARCTIC TEC Company Information

### 13.8.2 ARCTIC TEC Thermoelectric Cooler Module Product Portfolios and Specifications

### 13.8.3 ARCTIC TEC Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.8.4 ARCTIC TEC Main Business Overview

### 13.8.5 ARCTIC TEC Latest Developments

## 13.9 KJLP

### 13.9.1 KJLP Company Information

### 13.9.2 KJLP Thermoelectric Cooler Module Product Portfolios and Specifications

### 13.9.3 KJLP Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.9.4 KJLP Main Business Overview

### 13.9.5 KJLP Latest Developments

## 13.10 Thermion Company

### 13.10.1 Thermion Company Company Information

13.10.2 Thermion Company Thermoelectric Cooler Module Product Portfolios and Specifications

13.10.3 Thermion Company Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Thermion Company Main Business Overview

13.10.5 Thermion Company Latest Developments

13.11 Z-MAX

13.11.1 Z-MAX Company Information

13.11.2 Z-MAX Thermoelectric Cooler Module Product Portfolios and Specifications

13.11.3 Z-MAX Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Z-MAX Main Business Overview

13.11.5 Z-MAX Latest Developments

13.12 Zhejiang Wangu Semiconductor

13.12.1 Zhejiang Wangu Semiconductor Company Information

13.12.2 Zhejiang Wangu Semiconductor Thermoelectric Cooler Module Product Portfolios and Specifications

13.12.3 Zhejiang Wangu Semiconductor Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Zhejiang Wangu Semiconductor Main Business Overview

13.12.5 Zhejiang Wangu Semiconductor Latest Developments

13.13 Xianghe Oriental Electronic

13.13.1 Xianghe Oriental Electronic Company Information

13.13.2 Xianghe Oriental Electronic Thermoelectric Cooler Module Product Portfolios and Specifications

13.13.3 Xianghe Oriental Electronic Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Xianghe Oriental Electronic Main Business Overview

13.13.5 Xianghe Oriental Electronic Latest Developments

13.14 Thermonamic Electronics

13.14.1 Thermonamic Electronics Company Information

13.14.2 Thermonamic Electronics Thermoelectric Cooler Module Product Portfolios and Specifications

13.14.3 Thermonamic Electronics Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Thermonamic Electronics Main Business Overview

13.14.5 Thermonamic Electronics Latest Developments

13.15 TE Technology

13.15.1 TE Technology Company Information

13.15.2 TE Technology Thermoelectric Cooler Module Product Portfolios and Specifications

13.15.3 TE Technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 TE Technology Main Business Overview

13.15.5 TE Technology Latest Developments

13.16 P&N Technology

13.16.1 P&N Technology Company Information

13.16.2 P&N Technology Thermoelectric Cooler Module Product Portfolios and Specifications

13.16.3 P&N Technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 P&N Technology Main Business Overview

13.16.5 P&N Technology Latest Developments

13.17 AISIN Corporation

13.17.1 AISIN Corporation Company Information

13.17.2 AISIN Corporation Thermoelectric Cooler Module Product Portfolios and Specifications

13.17.3 AISIN Corporation Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 AISIN Corporation Main Business Overview

13.17.5 AISIN Corporation Latest Developments

13.18 Sensor Controls Co., Ltd.

13.18.1 Sensor Controls Co., Ltd. Company Information

13.18.2 Sensor Controls Co., Ltd. Thermoelectric Cooler Module Product Portfolios and Specifications

13.18.3 Sensor Controls Co., Ltd. Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Sensor Controls Co., Ltd. Main Business Overview

13.18.5 Sensor Controls Co., Ltd. Latest Developments

13.19 Wakefield Thermal

13.19.1 Wakefield Thermal Company Information

13.19.2 Wakefield Thermal Thermoelectric Cooler Module Product Portfolios and Specifications

13.19.3 Wakefield Thermal Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Wakefield Thermal Main Business Overview

13.19.5 Wakefield Thermal Latest Developments

13.20 Same Sky (formerly CUI Devices)

- 13.20.1 Same Sky (formerly CUI Devices) Company Information
- 13.20.2 Same Sky (formerly CUI Devices) Thermoelectric Cooler Module Product Portfolios and Specifications
- 13.20.3 Same Sky (formerly CUI Devices) Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.20.4 Same Sky (formerly CUI Devices) Main Business Overview
- 13.20.5 Same Sky (formerly CUI Devices) Latest Developments
- 13.21 TEC Microsystems GmbH
  - 13.21.1 TEC Microsystems GmbH Company Information
  - 13.21.2 TEC Microsystems GmbH Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.21.3 TEC Microsystems GmbH Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.21.4 TEC Microsystems GmbH Main Business Overview
  - 13.21.5 TEC Microsystems GmbH Latest Developments
- 13.22 Peltron GmbH
  - 13.22.1 Peltron GmbH Company Information
  - 13.22.2 Peltron GmbH Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.22.3 Peltron GmbH Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.22.4 Peltron GmbH Main Business Overview
  - 13.22.5 Peltron GmbH Latest Developments
- 13.23 Kryotherm Industries
  - 13.23.1 Kryotherm Industries Company Information
  - 13.23.2 Kryotherm Industries Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.23.3 Kryotherm Industries Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.23.4 Kryotherm Industries Main Business Overview
  - 13.23.5 Kryotherm Industries Latest Developments
- 13.24 Crystal Ltd
  - 13.24.1 Crystal Ltd Company Information
  - 13.24.2 Crystal Ltd Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.24.3 Crystal Ltd Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.24.4 Crystal Ltd Main Business Overview
  - 13.24.5 Crystal Ltd Latest Developments

### 13.25 Liaoning Lengxin Technology

#### 13.25.1 Liaoning Lengxin Technology Company Information

#### 13.25.2 Liaoning Lengxin Technology Thermoelectric Cooler Module Product

#### Portfolios and Specifications

#### 13.25.3 Liaoning Lengxin Technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.25.4 Liaoning Lengxin Technology Main Business Overview

#### 13.25.5 Liaoning Lengxin Technology Latest Developments

### 13.26 Thermoelectric new energy technology

#### 13.26.1 Thermoelectric new energy technology Company Information

#### 13.26.2 Thermoelectric new energy technology Thermoelectric Cooler Module Product

#### Portfolios and Specifications

#### 13.26.3 Thermoelectric new energy technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.26.4 Thermoelectric new energy technology Main Business Overview

#### 13.26.5 Thermoelectric new energy technology Latest Developments

### 13.27 Jianju Technology

#### 13.27.1 Jianju Technology Company Information

#### 13.27.2 Jianju Technology Thermoelectric Cooler Module Product Portfolios and Specifications

#### 13.27.3 Jianju Technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.27.4 Jianju Technology Main Business Overview

#### 13.27.5 Jianju Technology Latest Developments

### 13.28 Bi Sheng Semiconductor

#### 13.28.1 Bi Sheng Semiconductor Company Information

#### 13.28.2 Bi Sheng Semiconductor Thermoelectric Cooler Module Product Portfolios and Specifications

#### 13.28.3 Bi Sheng Semiconductor Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.28.4 Bi Sheng Semiconductor Main Business Overview

#### 13.28.5 Bi Sheng Semiconductor Latest Developments

### 13.29 Henan Hongchang Electronic

#### 13.29.1 Henan Hongchang Electronic Company Information

#### 13.29.2 Henan Hongchang Electronic Thermoelectric Cooler Module Product Portfolios and Specifications

#### 13.29.3 Henan Hongchang Electronic Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.29.4 Henan Hongchang Electronic Main Business Overview

- 13.29.5 Henan Hongchang Electronic Latest Developments
- 13.30 Wei County Zhongtian Electron Stock Cooperative
  - 13.30.1 Wei County Zhongtian Electron Stock Cooperative Company Information
  - 13.30.2 Wei County Zhongtian Electron Stock Cooperative Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.30.3 Wei County Zhongtian Electron Stock Cooperative Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.30.4 Wei County Zhongtian Electron Stock Cooperative Main Business Overview
  - 13.30.5 Wei County Zhongtian Electron Stock Cooperative Latest Developments
- 13.31 Beijing Xinyu Kaimeng Electronic Technology
  - 13.31.1 Beijing Xinyu Kaimeng Electronic Technology Company Information
  - 13.31.2 Beijing Xinyu Kaimeng Electronic Technology Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.31.3 Beijing Xinyu Kaimeng Electronic Technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.31.4 Beijing Xinyu Kaimeng Electronic Technology Main Business Overview
  - 13.31.5 Beijing Xinyu Kaimeng Electronic Technology Latest Developments
- 13.32 Beijing Huimao Refrigeration Equipment
  - 13.32.1 Beijing Huimao Refrigeration Equipment Company Information
  - 13.32.2 Beijing Huimao Refrigeration Equipment Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.32.3 Beijing Huimao Refrigeration Equipment Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.32.4 Beijing Huimao Refrigeration Equipment Main Business Overview
  - 13.32.5 Beijing Huimao Refrigeration Equipment Latest Developments
- 13.33 Hangzhou Aurin Cooling Device
  - 13.33.1 Hangzhou Aurin Cooling Device Company Information
  - 13.33.2 Hangzhou Aurin Cooling Device Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.33.3 Hangzhou Aurin Cooling Device Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.33.4 Hangzhou Aurin Cooling Device Main Business Overview
  - 13.33.5 Hangzhou Aurin Cooling Device Latest Developments
- 13.34 Henan Guanjing Semiconductor Technology
  - 13.34.1 Henan Guanjing Semiconductor Technology Company Information
  - 13.34.2 Henan Guanjing Semiconductor Technology Thermoelectric Cooler Module Product Portfolios and Specifications
  - 13.34.3 Henan Guanjing Semiconductor Technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.34.4 Henan Guanjing Semiconductor Technology Main Business Overview

13.34.5 Henan Guanjing Semiconductor Technology Latest Developments

13.35 Hubei Sagreon New Energy Technology

13.35.1 Hubei Sagreon New Energy Technology Company Information

13.35.2 Hubei Sagreon New Energy Technology Thermoelectric Cooler Module

Product Portfolios and Specifications

13.35.3 Hubei Sagreon New Energy Technology Thermoelectric Cooler Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.35.4 Hubei Sagreon New Energy Technology Main Business Overview

13.35.5 Hubei Sagreon New Energy Technology Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Thermoelectric Cooler Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Thermoelectric Cooler Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Single-stage Type

Table 4. Major Players of Multi-stage Type

Table 5. Global Thermoelectric Cooler Module Sales by Type (2021-2026) & (K Pcs)

Table 6. Global Thermoelectric Cooler Module Sales Market Share by Type (2021-2026)

Table 7. Global Thermoelectric Cooler Module Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Thermoelectric Cooler Module Revenue Market Share by Type (2021-2026)

Table 9. Global Thermoelectric Cooler Module Sale Price by Type (2021-2026) & (US\$/Pcs)

Table 10. Major Players of Standard Type

Table 11. Major Players of Center-hole Type

Table 12. Major Players of Custom-shaped

Table 13. Major Players of Other

Table 14. Global Thermoelectric Cooler Module Sales by Package Geometry (2021-2026) & (K Pcs)

Table 15. Global Thermoelectric Cooler Module Sales Market Share by Package Geometry (2021-2026)

Table 16. Global Thermoelectric Cooler Module Revenue by Package Geometry (2021-2026) & (\$ million)

Table 17. Global Thermoelectric Cooler Module Revenue Market Share by Package Geometry (2021-2026)

Table 18. Global Thermoelectric Cooler Module Sale Price by Package Geometry (2021-2026) & (US\$/Pcs)

Table 19. Major Players of 50W Below

Table 20. Major Players of 50-100W

Table 21. Major Players of 100W Above

Table 22. Global Thermoelectric Cooler Module Sales by Cooling Capacity (Qcmax) (2021-2026) & (K Pcs)

Table 23. Global Thermoelectric Cooler Module Sales Market Share by Cooling

Capacity (Qcmax) (2021-2026)

Table 24. Global Thermoelectric Cooler Module Revenue by Cooling Capacity (Qcmax) (2021-2026) & (\$ million)

Table 25. Global Thermoelectric Cooler Module Revenue Market Share by Cooling Capacity (Qcmax) (2021-2026)

Table 26. Global Thermoelectric Cooler Module Sale Price by Cooling Capacity (Qcmax) (2021-2026) & (US\$/Pcs)

Table 27. Global Thermoelectric Cooler Module Sale by Application (2021-2026) & (K Pcs)

Table 28. Global Thermoelectric Cooler Module Sale Market Share by Application (2021-2026)

Table 29. Global Thermoelectric Cooler Module Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Thermoelectric Cooler Module Revenue Market Share by Application (2021-2026)

Table 31. Global Thermoelectric Cooler Module Sale Price by Application (2021-2026) & (US\$/Pcs)

Table 32. Global Thermoelectric Cooler Module Sales by Company (2021-2026) & (K Pcs)

Table 33. Global Thermoelectric Cooler Module Sales Market Share by Company (2021-2026)

Table 34. Global Thermoelectric Cooler Module Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Thermoelectric Cooler Module Revenue Market Share by Company (2021-2026)

Table 36. Global Thermoelectric Cooler Module Sale Price by Company (2021-2026) & (US\$/Pcs)

Table 37. Key Manufacturers Thermoelectric Cooler Module Producing Area Distribution and Sales Area

Table 38. Players Thermoelectric Cooler Module Products Offered

Table 39. Thermoelectric Cooler Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Thermoelectric Cooler Module Sales by Geographic Region (2021-2026) & (K Pcs)

Table 43. Global Thermoelectric Cooler Module Sales Market Share Geographic Region (2021-2026)

Table 44. Global Thermoelectric Cooler Module Revenue by Geographic Region

(2021-2026) & (\$ millions)

Table 45. Global Thermoelectric Cooler Module Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Thermoelectric Cooler Module Sales by Country/Region (2021-2026) & (K Pcs)

Table 47. Global Thermoelectric Cooler Module Sales Market Share by Country/Region (2021-2026)

Table 48. Global Thermoelectric Cooler Module Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Thermoelectric Cooler Module Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Thermoelectric Cooler Module Sales by Country (2021-2026) & (K Pcs)

Table 51. Americas Thermoelectric Cooler Module Sales Market Share by Country (2021-2026)

Table 52. Americas Thermoelectric Cooler Module Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Thermoelectric Cooler Module Sales by Type (2021-2026) & (K Pcs)

Table 54. Americas Thermoelectric Cooler Module Sales by Application (2021-2026) & (K Pcs)

Table 55. APAC Thermoelectric Cooler Module Sales by Region (2021-2026) & (K Pcs)

Table 56. APAC Thermoelectric Cooler Module Sales Market Share by Region (2021-2026)

Table 57. APAC Thermoelectric Cooler Module Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Thermoelectric Cooler Module Sales by Type (2021-2026) & (K Pcs)

Table 59. APAC Thermoelectric Cooler Module Sales by Application (2021-2026) & (K Pcs)

Table 60. Europe Thermoelectric Cooler Module Sales by Country (2021-2026) & (K Pcs)

Table 61. Europe Thermoelectric Cooler Module Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Thermoelectric Cooler Module Sales by Type (2021-2026) & (K Pcs)

Table 63. Europe Thermoelectric Cooler Module Sales by Application (2021-2026) & (K Pcs)

Table 64. Middle East & Africa Thermoelectric Cooler Module Sales by Country (2021-2026) & (K Pcs)

Table 65. Middle East & Africa Thermoelectric Cooler Module Revenue Market Share

by Country (2021-2026)

Table 66. Middle East & Africa Thermoelectric Cooler Module Sales by Type (2021-2026) & (K Pcs)

Table 67. Middle East & Africa Thermoelectric Cooler Module Sales by Application (2021-2026) & (K Pcs)

Table 68. Key Market Drivers & Growth Opportunities of Thermoelectric Cooler Module

Table 69. Key Market Challenges & Risks of Thermoelectric Cooler Module

Table 70. Key Industry Trends of Thermoelectric Cooler Module

Table 71. Thermoelectric Cooler Module Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Thermoelectric Cooler Module Distributors List

Table 74. Thermoelectric Cooler Module Customer List

Table 75. Global Thermoelectric Cooler Module Sales Forecast by Region (2027-2032) & (K Pcs)

Table 76. Global Thermoelectric Cooler Module Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Thermoelectric Cooler Module Sales Forecast by Country (2027-2032) & (K Pcs)

Table 78. Americas Thermoelectric Cooler Module Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Thermoelectric Cooler Module Sales Forecast by Region (2027-2032) & (K Pcs)

Table 80. APAC Thermoelectric Cooler Module Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Thermoelectric Cooler Module Sales Forecast by Country (2027-2032) & (K Pcs)

Table 82. Europe Thermoelectric Cooler Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Thermoelectric Cooler Module Sales Forecast by Country (2027-2032) & (K Pcs)

Table 84. Middle East & Africa Thermoelectric Cooler Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Thermoelectric Cooler Module Sales Forecast by Type (2027-2032) & (K Pcs)

Table 86. Global Thermoelectric Cooler Module Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Thermoelectric Cooler Module Sales Forecast by Application (2027-2032) & (K Pcs)

Table 88. Global Thermoelectric Cooler Module Revenue Forecast by Application

(2027-2032) & (\$ millions)

Table 89. Ferrotec Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 90. Ferrotec Thermoelectric Cooler Module Product Portfolios and Specifications

Table 91. Ferrotec Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 92. Ferrotec Main Business

Table 93. Ferrotec Latest Developments

Table 94. KELK?Ltd.(Komatsu) Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 95. KELK?Ltd.(Komatsu) Thermoelectric Cooler Module Product Portfolios and Specifications

Table 96. KELK?Ltd.(Komatsu) Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 97. KELK?Ltd.(Komatsu) Main Business

Table 98. KELK?Ltd.(Komatsu) Latest Developments

Table 99. Coherent Corp (formerly II-VI Incorporated) Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 100. Coherent Corp (formerly II-VI Incorporated) Thermoelectric Cooler Module Product Portfolios and Specifications

Table 101. Coherent Corp (formerly II-VI Incorporated) Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 102. Coherent Corp (formerly II-VI Incorporated) Main Business

Table 103. Coherent Corp (formerly II-VI Incorporated) Latest Developments

Table 104. Tark Thermal Solutions (formerly Laird Thermal Systems) Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 105. Tark Thermal Solutions (formerly Laird Thermal Systems) Thermoelectric Cooler Module Product Portfolios and Specifications

Table 106. Tark Thermal Solutions (formerly Laird Thermal Systems) Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 107. Tark Thermal Solutions (formerly Laird Thermal Systems) Main Business

Table 108. Tark Thermal Solutions (formerly Laird Thermal Systems) Latest Developments

Table 109. KYOCERA Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 110. KYOCERA Thermoelectric Cooler Module Product Portfolios and Specifications

Table 111. KYOCERA Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$

Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 112. KYOCERA Main Business

Table 113. KYOCERA Latest Developments

Table 114. Phononic Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 115. Phononic Thermoelectric Cooler Module Product Portfolios and Specifications

Table 116. Phononic Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 117. Phononic Main Business

Table 118. Phononic Latest Developments

Table 119. Guangdong Fuxin Technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 120. Guangdong Fuxin Technology Thermoelectric Cooler Module Product Portfolios and Specifications

Table 121. Guangdong Fuxin Technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 122. Guangdong Fuxin Technology Main Business

Table 123. Guangdong Fuxin Technology Latest Developments

Table 124. ARCTIC TEC Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 125. ARCTIC TEC Thermoelectric Cooler Module Product Portfolios and Specifications

Table 126. ARCTIC TEC Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 127. ARCTIC TEC Main Business

Table 128. ARCTIC TEC Latest Developments

Table 129. KJLP Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 130. KJLP Thermoelectric Cooler Module Product Portfolios and Specifications

Table 131. KJLP Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 132. KJLP Main Business

Table 133. KJLP Latest Developments

Table 134. Thermion Company Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 135. Thermion Company Thermoelectric Cooler Module Product Portfolios and Specifications

Table 136. Thermion Company Thermoelectric Cooler Module Sales (K Pcs), Revenue

(\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 137. Thermion Company Main Business

Table 138. Thermion Company Latest Developments

Table 139. Z-MAX Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 140. Z-MAX Thermoelectric Cooler Module Product Portfolios and Specifications

Table 141. Z-MAX Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 142. Z-MAX Main Business

Table 143. Z-MAX Latest Developments

Table 144. Zhejiang Wangu Semiconductor Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 145. Zhejiang Wangu Semiconductor Thermoelectric Cooler Module Product Portfolios and Specifications

Table 146. Zhejiang Wangu Semiconductor Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 147. Zhejiang Wangu Semiconductor Main Business

Table 148. Zhejiang Wangu Semiconductor Latest Developments

Table 149. Xianghe Oriental Electronic Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 150. Xianghe Oriental Electronic Thermoelectric Cooler Module Product Portfolios and Specifications

Table 151. Xianghe Oriental Electronic Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 152. Xianghe Oriental Electronic Main Business

Table 153. Xianghe Oriental Electronic Latest Developments

Table 154. Thermonamic Electronics Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 155. Thermonamic Electronics Thermoelectric Cooler Module Product Portfolios and Specifications

Table 156. Thermonamic Electronics Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 157. Thermonamic Electronics Main Business

Table 158. Thermonamic Electronics Latest Developments

Table 159. TE Technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 160. TE Technology Thermoelectric Cooler Module Product Portfolios and Specifications

Table 161. TE Technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$

Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 162. TE Technology Main Business

Table 163. TE Technology Latest Developments

Table 164. P&N Technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 165. P&N Technology Thermoelectric Cooler Module Product Portfolios and Specifications

Table 166. P&N Technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 167. P&N Technology Main Business

Table 168. P&N Technology Latest Developments

Table 169. AISIN Corporation Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 170. AISIN Corporation Thermoelectric Cooler Module Product Portfolios and Specifications

Table 171. AISIN Corporation Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 172. AISIN Corporation Main Business

Table 173. AISIN Corporation Latest Developments

Table 174. Sensor Controls Co., Ltd. Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 175. Sensor Controls Co., Ltd. Thermoelectric Cooler Module Product Portfolios and Specifications

Table 176. Sensor Controls Co., Ltd. Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 177. Sensor Controls Co., Ltd. Main Business

Table 178. Sensor Controls Co., Ltd. Latest Developments

Table 179. Wakefield Thermal Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 180. Wakefield Thermal Thermoelectric Cooler Module Product Portfolios and Specifications

Table 181. Wakefield Thermal Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 182. Wakefield Thermal Main Business

Table 183. Wakefield Thermal Latest Developments

Table 184. Same Sky (formerly CUI Devices) Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 185. Same Sky (formerly CUI Devices) Thermoelectric Cooler Module Product Portfolios and Specifications

Table 186. Same Sky (formerly CUI Devices) Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 187. Same Sky (formerly CUI Devices) Main Business

Table 188. Same Sky (formerly CUI Devices) Latest Developments

Table 189. TEC Microsystems GmbH Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 190. TEC Microsystems GmbH Thermoelectric Cooler Module Product Portfolios and Specifications

Table 191. TEC Microsystems GmbH Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 192. TEC Microsystems GmbH Main Business

Table 193. TEC Microsystems GmbH Latest Developments

Table 194. Peltron GmbH Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 195. Peltron GmbH Thermoelectric Cooler Module Product Portfolios and Specifications

Table 196. Peltron GmbH Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 197. Peltron GmbH Main Business

Table 198. Peltron GmbH Latest Developments

Table 199. Kryotherm Industries Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 200. Kryotherm Industries Thermoelectric Cooler Module Product Portfolios and Specifications

Table 201. Kryotherm Industries Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 202. Kryotherm Industries Main Business

Table 203. Kryotherm Industries Latest Developments

Table 204. Crystal Ltd Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 205. Crystal Ltd Thermoelectric Cooler Module Product Portfolios and Specifications

Table 206. Crystal Ltd Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 207. Crystal Ltd Main Business

Table 208. Crystal Ltd Latest Developments

Table 209. Liaoning Lengxin Technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 210. Liaoning Lengxin Technology Thermoelectric Cooler Module Product

## Portfolios and Specifications

Table 211. Liaoning Lengxin Technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 212. Liaoning Lengxin Technology Main Business

Table 213. Liaoning Lengxin Technology Latest Developments

Table 214. Thermoelectric new energy technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 215. Thermoelectric new energy technology Thermoelectric Cooler Module Product Portfolios and Specifications

Table 216. Thermoelectric new energy technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 217. Thermoelectric new energy technology Main Business

Table 218. Thermoelectric new energy technology Latest Developments

Table 219. Jianju Technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 220. Jianju Technology Thermoelectric Cooler Module Product Portfolios and Specifications

Table 221. Jianju Technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 222. Jianju Technology Main Business

Table 223. Jianju Technology Latest Developments

Table 224. Bi Sheng Semiconductor Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 225. Bi Sheng Semiconductor Thermoelectric Cooler Module Product Portfolios and Specifications

Table 226. Bi Sheng Semiconductor Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 227. Bi Sheng Semiconductor Main Business

Table 228. Bi Sheng Semiconductor Latest Developments

Table 229. Henan Hongchang Electronic Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 230. Henan Hongchang Electronic Thermoelectric Cooler Module Product Portfolios and Specifications

Table 231. Henan Hongchang Electronic Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 232. Henan Hongchang Electronic Main Business

Table 233. Henan Hongchang Electronic Latest Developments

Table 234. Wei County Zhongtian Electron Stock Cooperative Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 235. Wei County Zhongtian Electron Stock Cooperative Thermoelectric Cooler Module Product Portfolios and Specifications

Table 236. Wei County Zhongtian Electron Stock Cooperative Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 237. Wei County Zhongtian Electron Stock Cooperative Main Business

Table 238. Wei County Zhongtian Electron Stock Cooperative Latest Developments

Table 239. Beijing Xinyu Kaimeng Electronic Technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 240. Beijing Xinyu Kaimeng Electronic Technology Thermoelectric Cooler Module Product Portfolios and Specifications

Table 241. Beijing Xinyu Kaimeng Electronic Technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 242. Beijing Xinyu Kaimeng Electronic Technology Main Business

Table 243. Beijing Xinyu Kaimeng Electronic Technology Latest Developments

Table 244. Beijing Huimao Refrigeration Equipment Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 245. Beijing Huimao Refrigeration Equipment Thermoelectric Cooler Module Product Portfolios and Specifications

Table 246. Beijing Huimao Refrigeration Equipment Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 247. Beijing Huimao Refrigeration Equipment Main Business

Table 248. Beijing Huimao Refrigeration Equipment Latest Developments

Table 249. Hangzhou Aurin Cooling Device Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 250. Hangzhou Aurin Cooling Device Thermoelectric Cooler Module Product Portfolios and Specifications

Table 251. Hangzhou Aurin Cooling Device Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 252. Hangzhou Aurin Cooling Device Main Business

Table 253. Hangzhou Aurin Cooling Device Latest Developments

Table 254. Henan Guanjing Semiconductor Technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 255. Henan Guanjing Semiconductor Technology Thermoelectric Cooler Module Product Portfolios and Specifications

Table 256. Henan Guanjing Semiconductor Technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 257. Henan Guanjing Semiconductor Technology Main Business

Table 258. Henan Guanjing Semiconductor Technology Latest Developments

Table 259. Hubei Sagreon New Energy Technology Basic Information, Thermoelectric Cooler Module Manufacturing Base, Sales Area and Its Competitors

Table 260. Hubei Sagreon New Energy Technology Thermoelectric Cooler Module Product Portfolios and Specifications

Table 261. Hubei Sagreon New Energy Technology Thermoelectric Cooler Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 262. Hubei Sagreon New Energy Technology Main Business

Table 263. Hubei Sagreon New Energy Technology Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Thermoelectric Cooler Module
- Figure 2. Thermoelectric Cooler Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Thermoelectric Cooler Module Sales Growth Rate 2021-2032 (K Pcs)
- Figure 7. Global Thermoelectric Cooler Module Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Thermoelectric Cooler Module Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Thermoelectric Cooler Module Sales Market Share by Country/Region (2025)
- Figure 10. Thermoelectric Cooler Module Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Single-stage Type
- Figure 12. Product Picture of Multi-stage Type
- Figure 13. Global Thermoelectric Cooler Module Sales Market Share by Type in 2026
- Figure 14. Global Thermoelectric Cooler Module Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Standard Type
- Figure 16. Product Picture of Center-hole Type
- Figure 17. Product Picture of Custom-shaped
- Figure 18. Product Picture of Other
- Figure 19. Global Thermoelectric Cooler Module Sales Market Share by Package Geometry in 2026
- Figure 20. Global Thermoelectric Cooler Module Revenue Market Share by Package Geometry (2021-2026)
- Figure 21. Product Picture of 50W Below
- Figure 22. Product Picture of 50-100W
- Figure 23. Product Picture of 100W Above
- Figure 24. Global Thermoelectric Cooler Module Sales Market Share by Cooling Capacity (Qcmax) in 2026
- Figure 25. Global Thermoelectric Cooler Module Revenue Market Share by Cooling Capacity (Qcmax) (2021-2026)
- Figure 26. Thermoelectric Cooler Module Consumed in Consumer Electronics
- Figure 27. Global Thermoelectric Cooler Module Market: Consumer Electronics

(2021-2026) & (K Pcs)

Figure 28. Thermoelectric Cooler Module Consumed in Communication

Figure 29. Global Thermoelectric Cooler Module Market: Communication (2021-2026) & (K Pcs)

Figure 30. Thermoelectric Cooler Module Consumed in Medical

Figure 31. Global Thermoelectric Cooler Module Market: Medical (2021-2026) & (K Pcs)

Figure 32. Thermoelectric Cooler Module Consumed in Automotive

Figure 33. Global Thermoelectric Cooler Module Market: Automotive (2021-2026) & (K Pcs)

Figure 34. Thermoelectric Cooler Module Consumed in Industrial

Figure 35. Global Thermoelectric Cooler Module Market: Industrial (2021-2026) & (K Pcs)

Figure 36. Thermoelectric Cooler Module Consumed in Aerospace Defense

Figure 37. Global Thermoelectric Cooler Module Market: Aerospace Defense (2021-2026) & (K Pcs)

Figure 38. Thermoelectric Cooler Module Consumed in Others

Figure 39. Global Thermoelectric Cooler Module Market: Others (2021-2026) & (K Pcs)

Figure 40. Global Thermoelectric Cooler Module Sale Market Share by Application (2025)

Figure 41. Global Thermoelectric Cooler Module Revenue Market Share by Application in 2025

Figure 42. Thermoelectric Cooler Module Sales by Company in 2025 (K Pcs)

Figure 43. Global Thermoelectric Cooler Module Sales Market Share by Company in 2025

Figure 44. Thermoelectric Cooler Module Revenue by Company in 2025 (\$ millions)

Figure 45. Global Thermoelectric Cooler Module Revenue Market Share by Company in 2025

Figure 46. Global Thermoelectric Cooler Module Sales Market Share by Geographic Region (2021-2026)

Figure 47. Global Thermoelectric Cooler Module Revenue Market Share by Geographic Region in 2025

Figure 48. Americas Thermoelectric Cooler Module Sales 2021-2026 (K Pcs)

Figure 49. Americas Thermoelectric Cooler Module Revenue 2021-2026 (\$ millions)

Figure 50. APAC Thermoelectric Cooler Module Sales 2021-2026 (K Pcs)

Figure 51. APAC Thermoelectric Cooler Module Revenue 2021-2026 (\$ millions)

Figure 52. Europe Thermoelectric Cooler Module Sales 2021-2026 (K Pcs)

Figure 53. Europe Thermoelectric Cooler Module Revenue 2021-2026 (\$ millions)

Figure 54. Middle East & Africa Thermoelectric Cooler Module Sales 2021-2026 (K Pcs)

Figure 55. Middle East & Africa Thermoelectric Cooler Module Revenue 2021-2026 (\$

millions)

Figure 56. Americas Thermoelectric Cooler Module Sales Market Share by Country in 2025

Figure 57. Americas Thermoelectric Cooler Module Revenue Market Share by Country (2021-2026)

Figure 58. Americas Thermoelectric Cooler Module Sales Market Share by Type (2021-2026)

Figure 59. Americas Thermoelectric Cooler Module Sales Market Share by Application (2021-2026)

Figure 60. United States Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 61. Canada Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 62. Mexico Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 63. Brazil Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 64. APAC Thermoelectric Cooler Module Sales Market Share by Region in 2025

Figure 65. APAC Thermoelectric Cooler Module Revenue Market Share by Region (2021-2026)

Figure 66. APAC Thermoelectric Cooler Module Sales Market Share by Type (2021-2026)

Figure 67. APAC Thermoelectric Cooler Module Sales Market Share by Application (2021-2026)

Figure 68. China Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 69. Japan Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 70. South Korea Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 71. Southeast Asia Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 72. India Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 73. Australia Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 74. China Taiwan Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 75. Europe Thermoelectric Cooler Module Sales Market Share by Country in 2025

Figure 76. Europe Thermoelectric Cooler Module Revenue Market Share by Country

(2021-2026)

Figure 77. Europe Thermoelectric Cooler Module Sales Market Share by Type

(2021-2026)

Figure 78. Europe Thermoelectric Cooler Module Sales Market Share by Application

(2021-2026)

Figure 79. Germany Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 80. France Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 81. UK Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 82. Italy Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 83. Russia Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 84. Middle East & Africa Thermoelectric Cooler Module Sales Market Share by Country (2021-2026)

Figure 85. Middle East & Africa Thermoelectric Cooler Module Sales Market Share by Type (2021-2026)

Figure 86. Middle East & Africa Thermoelectric Cooler Module Sales Market Share by Application (2021-2026)

Figure 87. Egypt Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 88. South Africa Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 89. Israel Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 90. Turkey Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 91. GCC Countries Thermoelectric Cooler Module Revenue Growth 2021-2026 (\$ millions)

Figure 92. Manufacturing Cost Structure Analysis of Therm

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