

# Global Thermopile Modules Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G052D8EDC2F2EN.html>

Date: June 2024

Pages: 117

Price: US\$ 3,480.00 (Single User License)

ID: G052D8EDC2F2EN

## Abstracts

According to our (Global Info Research) latest study, the global Thermopile Modules market size was valued at USD 863 million in 2023 and is forecast to a readjusted size of USD 1101 million by 2030 with a CAGR of 3.5% during review period.

The Thermoelectric Cooler module (TEM), also known as the Thermoelectric Cooler or Thermoelectric Cooler, is a semiconductor device composed of many small and effective heat pumps. By loading a low DC voltage at both ends of the Thermoelectric Cooler, the heat will flow from one end of the component to the other.

At this point, one end of the cooler will be cooler and the other end will be warmer.

By changing the direction of the current, you can change the direction of the heat flow, sending heat to the other end.

Thermoelectric coolers, also known as solid state heat pumps, can perform both cooling and heating functions on a single thermoelectric refrigerator.

By changing the direction of the current, the cooling plate can have the function of cooling and heating.

By changing the current, the cooling temperature is different, and thermoelectric coolers can be used for precise temperature control.

Global core thermoelectric cooler manufacturers include Ferrotec, II-VI Marlow etc. The top 3 companies hold a share about 40%. China is the largest market, with a share

about 28%, followed by North America and Japan with the share about 23% and 31%. In term?

The Global Info Research report includes an overview of the development of the Thermopile Modules industry chain, the market status of Automobile Industry (Array Module, Multichannel Module), Intelligent Furnishing (Array Module, Multichannel Module), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Thermopile Modules.

Regionally, the report analyzes the Thermopile Modules markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Thermopile Modules market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Thermopile Modules market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Thermopile Modules industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Array Module, Multichannel Module).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Thermopile Modules market.

**Regional Analysis:** The report involves examining the Thermopile Modules market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Thermopile Modules market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Thermopile Modules:

**Company Analysis:** Report covers individual Thermopile Modules manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Thermopile Modules. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automobile Industry, Intelligent Furnishing).

**Technology Analysis:** Report covers specific technologies relevant to Thermopile Modules. It assesses the current state, advancements, and potential future developments in Thermopile Modules areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Thermopile Modules market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Thermopile Modules market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

#### Array Module

Multichannel Module

Other

#### Market segment by Application

Automobile Industry

Intelligent Furnishing

Precision Instrument

Medical Equipment

Other

#### Major players covered

Excelitas

TE Connectivity

Ferrotec Corporation

Pacer International

Heimann Sensor GmbH

Thermal Electronics Corp

Custom Thermoelectric

ThermoElectric Cooling America Corporation

TE Technology

Hi-Z TECHNOLOGY

EVERREDtronics

Tegpro

CrystalLtd

Kryotherm

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thermopile Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermopile Modules, with price, sales, revenue and global market share of Thermopile Modules from 2019 to 2024.

Chapter 3, the Thermopile Modules competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermopile Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Thermopile Modules market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermopile Modules.

Chapter 14 and 15, to describe Thermopile Modules sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope of Thermopile Modules

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Thermopile Modules Consumption Value by Type: 2019  
Versus 2023 Versus 2030

1.3.2 Array Module

1.3.3 Multichannel Module

1.3.4 Other

1.4 Market Analysis by Application

1.4.1 Overview: Global Thermopile Modules Consumption Value by Application: 2019  
Versus 2023 Versus 2030

1.4.2 Automobile Industry

1.4.3 Intelligent Furnishing

1.4.4 Precision Instrument

1.4.5 Medical Equipment

1.4.6 Other

1.5 Global Thermopile Modules Market Size & Forecast

1.5.1 Global Thermopile Modules Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Thermopile Modules Sales Quantity (2019-2030)

1.5.3 Global Thermopile Modules Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

2.1 Excelitas

2.1.1 Excelitas Details

2.1.2 Excelitas Major Business

2.1.3 Excelitas Thermopile Modules Product and Services

2.1.4 Excelitas Thermopile Modules Sales Quantity, Average Price, Revenue, Gross  
Margin and Market Share (2019-2024)

2.1.5 Excelitas Recent Developments/Updates

2.2 TE Connectivity

2.2.1 TE Connectivity Details

2.2.2 TE Connectivity Major Business

2.2.3 TE Connectivity Thermopile Modules Product and Services

2.2.4 TE Connectivity Thermopile Modules Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2019-2024)

### 2.2.5 TE Connectivity Recent Developments/Updates

## 2.3 Ferrotec Corporation

### 2.3.1 Ferrotec Corporation Details

### 2.3.2 Ferrotec Corporation Major Business

### 2.3.3 Ferrotec Corporation Thermopile Modules Product and Services

### 2.3.4 Ferrotec Corporation Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.3.5 Ferrotec Corporation Recent Developments/Updates

## 2.4 Pacer International

### 2.4.1 Pacer International Details

### 2.4.2 Pacer International Major Business

### 2.4.3 Pacer International Thermopile Modules Product and Services

### 2.4.4 Pacer International Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.4.5 Pacer International Recent Developments/Updates

## 2.5 Heimann Sensor GmbH

### 2.5.1 Heimann Sensor GmbH Details

### 2.5.2 Heimann Sensor GmbH Major Business

### 2.5.3 Heimann Sensor GmbH Thermopile Modules Product and Services

### 2.5.4 Heimann Sensor GmbH Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.5.5 Heimann Sensor GmbH Recent Developments/Updates

## 2.6 Thermal Electronics Corp

### 2.6.1 Thermal Electronics Corp Details

### 2.6.2 Thermal Electronics Corp Major Business

### 2.6.3 Thermal Electronics Corp Thermopile Modules Product and Services

### 2.6.4 Thermal Electronics Corp Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.6.5 Thermal Electronics Corp Recent Developments/Updates

## 2.7 Custom Thermoelectric

### 2.7.1 Custom Thermoelectric Details

### 2.7.2 Custom Thermoelectric Major Business

### 2.7.3 Custom Thermoelectric Thermopile Modules Product and Services

### 2.7.4 Custom Thermoelectric Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.7.5 Custom Thermoelectric Recent Developments/Updates

## 2.8 ThermoElectric Cooling America Corporation

### 2.8.1 ThermoElectric Cooling America Corporation Details



- 2.8.2 ThermoElectric Cooling America Corporation Major Business
- 2.8.3 ThermoElectric Cooling America Corporation Thermopile Modules Product and Services
- 2.8.4 ThermoElectric Cooling America Corporation Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 ThermoElectric Cooling America Corporation Recent Developments/Updates
- 2.9 TE Technology
  - 2.9.1 TE Technology Details
  - 2.9.2 TE Technology Major Business
  - 2.9.3 TE Technology Thermopile Modules Product and Services
  - 2.9.4 TE Technology Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.9.5 TE Technology Recent Developments/Updates
- 2.10 Hi-Z TECHNOLOGY
  - 2.10.1 Hi-Z TECHNOLOGY Details
  - 2.10.2 Hi-Z TECHNOLOGY Major Business
  - 2.10.3 Hi-Z TECHNOLOGY Thermopile Modules Product and Services
  - 2.10.4 Hi-Z TECHNOLOGY Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.10.5 Hi-Z TECHNOLOGY Recent Developments/Updates
- 2.11 EVERREDtronics
  - 2.11.1 EVERREDtronics Details
  - 2.11.2 EVERREDtronics Major Business
  - 2.11.3 EVERREDtronics Thermopile Modules Product and Services
  - 2.11.4 EVERREDtronics Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.11.5 EVERREDtronics Recent Developments/Updates
- 2.12 Tegpro
  - 2.12.1 Tegpro Details
  - 2.12.2 Tegpro Major Business
  - 2.12.3 Tegpro Thermopile Modules Product and Services
  - 2.12.4 Tegpro Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.12.5 Tegpro Recent Developments/Updates
- 2.13 CrystalLtd
  - 2.13.1 CrystalLtd Details
  - 2.13.2 CrystalLtd Major Business
  - 2.13.3 CrystalLtd Thermopile Modules Product and Services
  - 2.13.4 CrystalLtd Thermopile Modules Sales Quantity, Average Price, Revenue, Gross

## Margin and Market Share (2019-2024)

### 2.13.5 CrystalLtd Recent Developments/Updates

## 2.14 Kryotherm

### 2.14.1 Kryotherm Details

### 2.14.2 Kryotherm Major Business

### 2.14.3 Kryotherm Thermopile Modules Product and Services

## 2.14.4 Kryotherm Thermopile Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.14.5 Kryotherm Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: THERMOPILE MODULES BY MANUFACTURER**

### 3.1 Global Thermopile Modules Sales Quantity by Manufacturer (2019-2024)

### 3.2 Global Thermopile Modules Revenue by Manufacturer (2019-2024)

### 3.3 Global Thermopile Modules Average Price by Manufacturer (2019-2024)

### 3.4 Market Share Analysis (2023)

#### 3.4.1 Producer Shipments of Thermopile Modules by Manufacturer Revenue (\$MM) and Market Share (%): 2023

##### 3.4.2 Top 3 Thermopile Modules Manufacturer Market Share in 2023

##### 3.4.2 Top 6 Thermopile Modules Manufacturer Market Share in 2023

### 3.5 Thermopile Modules Market: Overall Company Footprint Analysis

#### 3.5.1 Thermopile Modules Market: Region Footprint

#### 3.5.2 Thermopile Modules Market: Company Product Type Footprint

#### 3.5.3 Thermopile Modules Market: Company Product Application Footprint

### 3.6 New Market Entrants and Barriers to Market Entry

### 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

### 4.1 Global Thermopile Modules Market Size by Region

#### 4.1.1 Global Thermopile Modules Sales Quantity by Region (2019-2030)

#### 4.1.2 Global Thermopile Modules Consumption Value by Region (2019-2030)

#### 4.1.3 Global Thermopile Modules Average Price by Region (2019-2030)

### 4.2 North America Thermopile Modules Consumption Value (2019-2030)

### 4.3 Europe Thermopile Modules Consumption Value (2019-2030)

### 4.4 Asia-Pacific Thermopile Modules Consumption Value (2019-2030)

### 4.5 South America Thermopile Modules Consumption Value (2019-2030)

### 4.6 Middle East and Africa Thermopile Modules Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Thermopile Modules Sales Quantity by Type (2019-2030)
- 5.2 Global Thermopile Modules Consumption Value by Type (2019-2030)
- 5.3 Global Thermopile Modules Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Thermopile Modules Sales Quantity by Application (2019-2030)
- 6.2 Global Thermopile Modules Consumption Value by Application (2019-2030)
- 6.3 Global Thermopile Modules Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

- 7.1 North America Thermopile Modules Sales Quantity by Type (2019-2030)
- 7.2 North America Thermopile Modules Sales Quantity by Application (2019-2030)
- 7.3 North America Thermopile Modules Market Size by Country
  - 7.3.1 North America Thermopile Modules Sales Quantity by Country (2019-2030)
  - 7.3.2 North America Thermopile Modules Consumption Value by Country (2019-2030)
  - 7.3.3 United States Market Size and Forecast (2019-2030)
  - 7.3.4 Canada Market Size and Forecast (2019-2030)
  - 7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

- 8.1 Europe Thermopile Modules Sales Quantity by Type (2019-2030)
- 8.2 Europe Thermopile Modules Sales Quantity by Application (2019-2030)
- 8.3 Europe Thermopile Modules Market Size by Country
  - 8.3.1 Europe Thermopile Modules Sales Quantity by Country (2019-2030)
  - 8.3.2 Europe Thermopile Modules Consumption Value by Country (2019-2030)
  - 8.3.3 Germany Market Size and Forecast (2019-2030)
  - 8.3.4 France Market Size and Forecast (2019-2030)
  - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
  - 8.3.6 Russia Market Size and Forecast (2019-2030)
  - 8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Thermopile Modules Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Thermopile Modules Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Thermopile Modules Market Size by Region

9.3.1 Asia-Pacific Thermopile Modules Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Thermopile Modules Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

10.1 South America Thermopile Modules Sales Quantity by Type (2019-2030)

10.2 South America Thermopile Modules Sales Quantity by Application (2019-2030)

10.3 South America Thermopile Modules Market Size by Country

10.3.1 South America Thermopile Modules Sales Quantity by Country (2019-2030)

10.3.2 South America Thermopile Modules Consumption Value by Country  
(2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Thermopile Modules Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Thermopile Modules Sales Quantity by Application  
(2019-2030)

11.3 Middle East & Africa Thermopile Modules Market Size by Country

11.3.1 Middle East & Africa Thermopile Modules Sales Quantity by Country  
(2019-2030)

11.3.2 Middle East & Africa Thermopile Modules Consumption Value by Country  
(2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

- 12.1 Thermopile Modules Market Drivers
- 12.2 Thermopile Modules Market Restraints
- 12.3 Thermopile Modules Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Thermopile Modules and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Thermopile Modules
- 13.3 Thermopile Modules Production Process
- 13.4 Thermopile Modules Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Thermopile Modules Typical Distributors
- 14.3 Thermopile Modules Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. Global Thermopile Modules Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Table 2. Global Thermopile Modules Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. Excelitas Basic Information, Manufacturing Base and Competitors
- Table 4. Excelitas Major Business
- Table 5. Excelitas Thermopile Modules Product and Services
- Table 6. Excelitas Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 7. Excelitas Recent Developments/Updates
- Table 8. TE Connectivity Basic Information, Manufacturing Base and Competitors
- Table 9. TE Connectivity Major Business
- Table 10. TE Connectivity Thermopile Modules Product and Services
- Table 11. TE Connectivity Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 12. TE Connectivity Recent Developments/Updates
- Table 13. Ferrotec Corporation Basic Information, Manufacturing Base and Competitors
- Table 14. Ferrotec Corporation Major Business
- Table 15. Ferrotec Corporation Thermopile Modules Product and Services
- Table 16. Ferrotec Corporation Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 17. Ferrotec Corporation Recent Developments/Updates
- Table 18. Pacer International Basic Information, Manufacturing Base and Competitors
- Table 19. Pacer International Major Business
- Table 20. Pacer International Thermopile Modules Product and Services
- Table 21. Pacer International Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 22. Pacer International Recent Developments/Updates
- Table 23. Heimann Sensor GmbH Basic Information, Manufacturing Base and Competitors
- Table 24. Heimann Sensor GmbH Major Business
- Table 25. Heimann Sensor GmbH Thermopile Modules Product and Services
- Table 26. Heimann Sensor GmbH Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Heimann Sensor GmbH Recent Developments/Updates

Table 28. Thermal Electronics Corp Basic Information, Manufacturing Base and Competitors

Table 29. Thermal Electronics Corp Major Business

Table 30. Thermal Electronics Corp Thermopile Modules Product and Services

Table 31. Thermal Electronics Corp Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Thermal Electronics Corp Recent Developments/Updates

Table 33. Custom Thermoelectric Basic Information, Manufacturing Base and Competitors

Table 34. Custom Thermoelectric Major Business

Table 35. Custom Thermoelectric Thermopile Modules Product and Services

Table 36. Custom Thermoelectric Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Custom Thermoelectric Recent Developments/Updates

Table 38. ThermoElectric Cooling America Corporation Basic Information, Manufacturing Base and Competitors

Table 39. ThermoElectric Cooling America Corporation Major Business

Table 40. ThermoElectric Cooling America Corporation Thermopile Modules Product and Services

Table 41. ThermoElectric Cooling America Corporation Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. ThermoElectric Cooling America Corporation Recent Developments/Updates

Table 43. TE Technology Basic Information, Manufacturing Base and Competitors

Table 44. TE Technology Major Business

Table 45. TE Technology Thermopile Modules Product and Services

Table 46. TE Technology Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. TE Technology Recent Developments/Updates

Table 48. Hi-Z TECHNOLOGY Basic Information, Manufacturing Base and Competitors

Table 49. Hi-Z TECHNOLOGY Major Business

Table 50. Hi-Z TECHNOLOGY Thermopile Modules Product and Services

Table 51. Hi-Z TECHNOLOGY Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Hi-Z TECHNOLOGY Recent Developments/Updates

Table 53. EVERREDtronics Basic Information, Manufacturing Base and Competitors

- Table 54. EVERREDtronics Major Business
- Table 55. EVERREDtronics Thermopile Modules Product and Services
- Table 56. EVERREDtronics Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 57. EVERREDtronics Recent Developments/Updates
- Table 58. Tegpro Basic Information, Manufacturing Base and Competitors
- Table 59. Tegpro Major Business
- Table 60. Tegpro Thermopile Modules Product and Services
- Table 61. Tegpro Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 62. Tegpro Recent Developments/Updates
- Table 63. CrystalLtd Basic Information, Manufacturing Base and Competitors
- Table 64. CrystalLtd Major Business
- Table 65. CrystalLtd Thermopile Modules Product and Services
- Table 66. CrystalLtd Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 67. CrystalLtd Recent Developments/Updates
- Table 68. Kryotherm Basic Information, Manufacturing Base and Competitors
- Table 69. Kryotherm Major Business
- Table 70. Kryotherm Thermopile Modules Product and Services
- Table 71. Kryotherm Thermopile Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 72. Kryotherm Recent Developments/Updates
- Table 73. Global Thermopile Modules Sales Quantity by Manufacturer (2019-2024) & (K Units)
- Table 74. Global Thermopile Modules Revenue by Manufacturer (2019-2024) & (USD Million)
- Table 75. Global Thermopile Modules Average Price by Manufacturer (2019-2024) & (USD/Unit)
- Table 76. Market Position of Manufacturers in Thermopile Modules, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
- Table 77. Head Office and Thermopile Modules Production Site of Key Manufacturer
- Table 78. Thermopile Modules Market: Company Product Type Footprint
- Table 79. Thermopile Modules Market: Company Product Application Footprint
- Table 80. Thermopile Modules New Market Entrants and Barriers to Market Entry
- Table 81. Thermopile Modules Mergers, Acquisition, Agreements, and Collaborations
- Table 82. Global Thermopile Modules Sales Quantity by Region (2019-2024) & (K Units)
- Table 83. Global Thermopile Modules Sales Quantity by Region (2025-2030) & (K



Units)

Table 84. Global Thermopile Modules Consumption Value by Region (2019-2024) & (USD Million)

Table 85. Global Thermopile Modules Consumption Value by Region (2025-2030) & (USD Million)

Table 86. Global Thermopile Modules Average Price by Region (2019-2024) & (USD/Unit)

Table 87. Global Thermopile Modules Average Price by Region (2025-2030) & (USD/Unit)

Table 88. Global Thermopile Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 89. Global Thermopile Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 90. Global Thermopile Modules Consumption Value by Type (2019-2024) & (USD Million)

Table 91. Global Thermopile Modules Consumption Value by Type (2025-2030) & (USD Million)

Table 92. Global Thermopile Modules Average Price by Type (2019-2024) & (USD/Unit)

Table 93. Global Thermopile Modules Average Price by Type (2025-2030) & (USD/Unit)

Table 94. Global Thermopile Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 95. Global Thermopile Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 96. Global Thermopile Modules Consumption Value by Application (2019-2024) & (USD Million)

Table 97. Global Thermopile Modules Consumption Value by Application (2025-2030) & (USD Million)

Table 98. Global Thermopile Modules Average Price by Application (2019-2024) & (USD/Unit)

Table 99. Global Thermopile Modules Average Price by Application (2025-2030) & (USD/Unit)

Table 100. North America Thermopile Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 101. North America Thermopile Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 102. North America Thermopile Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 103. North America Thermopile Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 104. North America Thermopile Modules Sales Quantity by Country (2019-2024) & (K Units)

- Table 105. North America Thermopile Modules Sales Quantity by Country (2025-2030) & (K Units)
- Table 106. North America Thermopile Modules Consumption Value by Country (2019-2024) & (USD Million)
- Table 107. North America Thermopile Modules Consumption Value by Country (2025-2030) & (USD Million)
- Table 108. Europe Thermopile Modules Sales Quantity by Type (2019-2024) & (K Units)
- Table 109. Europe Thermopile Modules Sales Quantity by Type (2025-2030) & (K Units)
- Table 110. Europe Thermopile Modules Sales Quantity by Application (2019-2024) & (K Units)
- Table 111. Europe Thermopile Modules Sales Quantity by Application (2025-2030) & (K Units)
- Table 112. Europe Thermopile Modules Sales Quantity by Country (2019-2024) & (K Units)
- Table 113. Europe Thermopile Modules Sales Quantity by Country (2025-2030) & (K Units)
- Table 114. Europe Thermopile Modules Consumption Value by Country (2019-2024) & (USD Million)
- Table 115. Europe Thermopile Modules Consumption Value by Country (2025-2030) & (USD Million)
- Table 116. Asia-Pacific Thermopile Modules Sales Quantity by Type (2019-2024) & (K Units)
- Table 117. Asia-Pacific Thermopile Modules Sales Quantity by Type (2025-2030) & (K Units)
- Table 118. Asia-Pacific Thermopile Modules Sales Quantity by Application (2019-2024) & (K Units)
- Table 119. Asia-Pacific Thermopile Modules Sales Quantity by Application (2025-2030) & (K Units)
- Table 120. Asia-Pacific Thermopile Modules Sales Quantity by Region (2019-2024) & (K Units)
- Table 121. Asia-Pacific Thermopile Modules Sales Quantity by Region (2025-2030) & (K Units)
- Table 122. Asia-Pacific Thermopile Modules Consumption Value by Region (2019-2024) & (USD Million)
- Table 123. Asia-Pacific Thermopile Modules Consumption Value by Region (2025-2030) & (USD Million)
- Table 124. South America Thermopile Modules Sales Quantity by Type (2019-2024) &

(K Units)

Table 125. South America Thermopile Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 126. South America Thermopile Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 127. South America Thermopile Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 128. South America Thermopile Modules Sales Quantity by Country (2019-2024) & (K Units)

Table 129. South America Thermopile Modules Sales Quantity by Country (2025-2030) & (K Units)

Table 130. South America Thermopile Modules Consumption Value by Country (2019-2024) & (USD Million)

Table 131. South America Thermopile Modules Consumption Value by Country (2025-2030) & (USD Million)

Table 132. Middle East & Africa Thermopile Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 133. Middle East & Africa Thermopile Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 134. Middle East & Africa Thermopile Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 135. Middle East & Africa Thermopile Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 136. Middle East & Africa Thermopile Modules Sales Quantity by Region (2019-2024) & (K Units)

Table 137. Middle East & Africa Thermopile Modules Sales Quantity by Region (2025-2030) & (K Units)

Table 138. Middle East & Africa Thermopile Modules Consumption Value by Region (2019-2024) & (USD Million)

Table 139. Middle East & Africa Thermopile Modules Consumption Value by Region (2025-2030) & (USD Million)

Table 140. Thermopile Modules Raw Material

Table 141. Key Manufacturers of Thermopile Modules Raw Materials

Table 142. Thermopile Modules Typical Distributors

Table 143. Thermopile Modules Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Thermopile Modules Picture

Figure 2. Global Thermopile Modules Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Thermopile Modules Consumption Value Market Share by Type in 2023

Figure 4. Array Module Examples

Figure 5. Multichannel Module Examples

Figure 6. Other Examples

Figure 7. Global Thermopile Modules Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Thermopile Modules Consumption Value Market Share by Application in 2023

Figure 9. Automobile Industry Examples

Figure 10. Intelligent Furnishing Examples

Figure 11. Precision Instrument Examples

Figure 12. Medical Equipment Examples

Figure 13. Other Examples

Figure 14. Global Thermopile Modules Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 15. Global Thermopile Modules Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 16. Global Thermopile Modules Sales Quantity (2019-2030) & (K Units)

Figure 17. Global Thermopile Modules Average Price (2019-2030) & (USD/Unit)

Figure 18. Global Thermopile Modules Sales Quantity Market Share by Manufacturer in 2023

Figure 19. Global Thermopile Modules Consumption Value Market Share by Manufacturer in 2023

Figure 20. Producer Shipments of Thermopile Modules by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 21. Top 3 Thermopile Modules Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Top 6 Thermopile Modules Manufacturer (Consumption Value) Market Share in 2023

Figure 23. Global Thermopile Modules Sales Quantity Market Share by Region (2019-2030)

Figure 24. Global Thermopile Modules Consumption Value Market Share by Region (2019-2030)

Figure 25. North America Thermopile Modules Consumption Value (2019-2030) & (USD Million)

Figure 26. Europe Thermopile Modules Consumption Value (2019-2030) & (USD Million)

Figure 27. Asia-Pacific Thermopile Modules Consumption Value (2019-2030) & (USD Million)

Figure 28. South America Thermopile Modules Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa Thermopile Modules Consumption Value (2019-2030) & (USD Million)

Figure 30. Global Thermopile Modules Sales Quantity Market Share by Type (2019-2030)

Figure 31. Global Thermopile Modules Consumption Value Market Share by Type (2019-2030)

Figure 32. Global Thermopile Modules Average Price by Type (2019-2030) & (USD/Unit)

Figure 33. Global Thermopile Modules Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global Thermopile Modules Consumption Value Market Share by Application (2019-2030)

Figure 35. Global Thermopile Modules Average Price by Application (2019-2030) & (USD/Unit)

Figure 36. North America Thermopile Modules Sales Quantity Market Share by Type (2019-2030)

Figure 37. North America Thermopile Modules Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America Thermopile Modules Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America Thermopile Modules Consumption Value Market Share by Country (2019-2030)

Figure 40. United States Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Canada Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Mexico Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Europe Thermopile Modules Sales Quantity Market Share by Type

(2019-2030)

Figure 44. Europe Thermopile Modules Sales Quantity Market Share by Application

(2019-2030)

Figure 45. Europe Thermopile Modules Sales Quantity Market Share by Country

(2019-2030)

Figure 46. Europe Thermopile Modules Consumption Value Market Share by Country

(2019-2030)

Figure 47. Germany Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 48. France Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 49. United Kingdom Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 50. Russia Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 51. Italy Thermopile Modules Consumption Value and Growth Rate (2019-2030)

& (USD Million)

Figure 52. Asia-Pacific Thermopile Modules Sales Quantity Market Share by Type

(2019-2030)

Figure 53. Asia-Pacific Thermopile Modules Sales Quantity Market Share by Application

(2019-2030)

Figure 54. Asia-Pacific Thermopile Modules Sales Quantity Market Share by Region

(2019-2030)

Figure 55. Asia-Pacific Thermopile Modules Consumption Value Market Share by

Region (2019-2030)

Figure 56. China Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 57. Japan Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 58. Korea Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 59. India Thermopile Modules Consumption Value and Growth Rate (2019-2030)

& (USD Million)

Figure 60. Southeast Asia Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 61. Australia Thermopile Modules Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 62. South America Thermopile Modules Sales Quantity Market Share by Type

(2019-2030)

Figure 63. South America Thermopile Modules Sales Quantity Market Share by Application (2019-2030)

Figure 64. South America Thermopile Modules Sales Quantity Market Share by Country (2019-2030)

Figure 65. South America Thermopile Modules Consumption Value Market Share by Country (2019-2030)

Figure 66. Brazil Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Argentina Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 68. Middle East & Africa Thermopile Modules Sales Quantity Market Share by Type (2019-2030)

Figure 69. Middle East & Africa Thermopile Modules Sales Quantity Market Share by Application (2019-2030)

Figure 70. Middle East & Africa Thermopile Modules Sales Quantity Market Share by Region (2019-2030)

Figure 71. Middle East & Africa Thermopile Modules Consumption Value Market Share by Region (2019-2030)

Figure 72. Turkey Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Egypt Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Saudi Arabia Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. South Africa Thermopile Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. Thermopile Modules Market Drivers

Figure 77. Thermopile Modules Market Restraints

Figure 78. Thermopile Modules Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Thermopile Modules in 2023

Figure 81. Manufacturing Process Analysis of Thermopile Modules

Figure 82. Thermopile Modules Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

## I would like to order

Product name: Global Thermopile Modules Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

Product link: <https://marketpublishers.com/r/G052D8EDC2F2EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G052D8EDC2F2EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



