

Global Thermoelectric Cooling Devices Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/G27D687C5DAGEN.html>

Date: January 2023

Pages: 118

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

ID: G27D687C5DAGEN

Abstracts

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.

According to our (Global Info Research) latest study, the global Thermoelectric Cooling Devices market size was valued at USD 863 million in 2022 and is forecast to a readjusted size of USD 1101 million by 2029 with a CAGR of 3.5% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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 21%. In term?

This report is a detailed and comprehensive analysis for global Thermoelectric Cooling Devices market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Thermoelectric Cooling Devices market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Thermoelectric Cooling Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Thermoelectric Cooling Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Thermoelectric Cooling Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thermoelectric Cooling Devices

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Thermoelectric Cooling Devices market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include II-VI Marlow, Micropelt, TE Technology, CUI Inc and Adafruit Industries, etc.

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

Market Segmentation

Thermoelectric Cooling Devices market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single Stage Modules

Multi-stage Modules

Market segment by Application

Automotive

Electronic

Medical Industry

Defence & Aerospace

Others

Major players covered

II-VI Marlow

Micropelt

TE Technology

CUI Inc

Adafruit Industries

Meerstetter Engineering

Z-MAX

Ferrotec

KryOtherm Industries

Laird Technologies

RMT Ltd.

Komatsu

Hicooltec

Phononic

Thermion Company

Merit Technology Group

Beijing Huimao Cooling Equipment

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 Thermoelectric Cooling Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermoelectric Cooling Devices, with price, sales, revenue and global market share of Thermoelectric Cooling Devices from 2018 to 2023.

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

Chapter 4, the Thermoelectric Cooling Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022. and Thermoelectric Cooling Devices market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

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

Thermoelectric Cooling Devices.

Chapter 14 and 15, to describe Thermoelectric Cooling Devices sales channel, distributors, customers, research findings and conclusion.

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