Global Thermal Management Market, By Component (Hardware, Software) By Device (Conduction, Convection), By End-user (Aerospace and Defense, Automotive) - Forecast 2023

Market Synopsis of Global Thermal Management Market:
Market Scenario:
Thermal Management can be explained as the ability to control the temperature of a system by various technologies such as thermodynamics among others. It basically describes various processes such as heat transfer, conduction and radiation among others. However, the system is complex in nature since it consists multiple components.

The factors contributing to the growth of the thermal management market are increasing demand for thermal management in various consumer electronics, miniaturization of devices and various technological advancements over the years. Also, the growing advancements in the electronic industry is boosting the growth of the thermal management market. However, complexities in components used in thermal management is hindering the growth of the overall market.

The growing demand for thermal management solutions directly depend on the increasing demand for consumer electronics. The solutions are widely used in laptops, various gaming devices, tablets and smartphones among others. It also protects the processors and transistors from overheating.

Also, the technological issues associated with the component and system such as heat effect on transistor operation acts as a technological challenge. Therefore, this challenge is expected to hamper the market growth over the forecast period.

Geographically, North-America accounted for the largest market share in the global thermal management market, whereas Asia-Pacific is expected to grow at a fast pace over the forecast period, 2017-2023.

Study Objectives of Thermal Management Market:

- To provide detailed analysis of the market structure along with forecast of the various segments and sub-segments of the global thermal management market.
- To provide insights about factors affecting the market growth.
- To analyze the global thermal management market based porter's five force analysis etc.
- To provide historical and forecast revenue of the market segments and sub-segments with respect to four main geographies and their countries- North America, Europe, Asia, and Rest of the World (ROW).
- To provide country level analysis of the market with respect to the current market size and future prospective.
- To provide country level analysis of the market for segment by component, device, end-user and region.
- To provide strategic profiling of key players in the market, comprehensively analyzing their core competencies, and drawing a competitive landscape for the market.
- To track and analyze competitive developments such as joint ventures, strategic alliances, mergers and acquisitions, new product developments, and research and developments in the global Thermal Management.
The global thermal management market is expected to reach approximately USD 15 billion by the end of 2023 with 7% CAGR during forecast period 2017-2023.

Key Players
The key players in the global thermal management market include- API Heat Transfer (U.S.), AI Technology, Inc.(U.S.), Aavid Thermalloy, LLC (U.S.), Delta Electronics, Inc. (Taiwan), Honeywell International Inc (U.S.), Henkel AG & Co. KGaA (Germany), Jaro Thermal (U.S.), Laird PLC (U.K.), LORD Corporation (U.S.) and HEATEX AB (U.S.) among others.

Segments
For the purpose of this study, Market Research Future has segmented the market of thermal management into component, device, end-users and region.

Component
- Hardware
- Software

Device
- Conduction
- Convection
- Hybrid
- Advanced
- Others

End-user-
- Automotive
- Consumer Electronics
- Healthcare
- Aerospace and Defense
- Food & Beverage
- Others

Region
- North-America
- Europe
- Asia-Pacific
RoW

Regional Analysis
Regionally, North-America accounted for the largest market share from countries such U.S. among others. The reason is attributed to the increasing investments for these technological solutions, adoption of these thermal management solutions by various domains and low operational cost.

However, Asia-Pacific region is expected to grow over the forecast period, 2017-2023. The reason is attributed as the presence of large number of electronic manufacturers, increasing government initiatives and the increasing adoption of thermal solutions by various sectors.

Intended Audience

- Device manufacturers
- Network Operators
- Distributors
- Suppliers
- Research firms
- Software Developers
- Commercial Banks
- Vendors
- Semiconductor Manufacturers
- End-user sectors
- Technology Investors

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