

Global Liquid Cold Plate Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Liquid Cold Plate market size was valued at USD 233.5 million in 2023 and is forecast to a readjusted size of USD 270.1 million by 2030 with a CAGR of 2.1% during review period.

A cold plate is aluminum or other plate containing internal tubing through which a liquid coolant is forced, to absorb heat transferred to the plate by transistors and other components mounted on it. It is one of the most common liquid cooling solutions that make use of direct contact between the Cold Plate and the object to be cooled. This direct contact allows the heat to be efficiently conducted. Cold Plate offers many advantages over forced air cooled heat sinks such as performance, noise level and reliability.

The global Liquid Cold Plate market is dominated by Aavid, Lytron, Asia Vital Components, Wakefield-Vette and Wolverine Tube, with the top five players accounting for about 50% of the market share.

North America is the largest Liquid Cold Plate market with about 40 percent of the market, followed by China with about 35 percent.

The Global Info Research report includes an overview of the development of the Liquid Cold Plate industry chain, the market status of High Power Electronic Equipment (Formed Tube Cold Plate, Deep Drilled Cold Plate), Laser Device (Formed Tube Cold Plate, Deep Drilled Cold Plate), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Liquid Cold Plate.

Regionally, the report analyzes the Liquid Cold Plate 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 Liquid Cold Plate market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Liquid Cold Plate 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 Liquid Cold Plate 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., Formed Tube Cold Plate, Deep Drilled Cold Plate).

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 Liquid Cold Plate market.

Regional Analysis: The report involves examining the Liquid Cold Plate 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 Liquid Cold Plate market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Liquid Cold Plate:

Company Analysis: Report covers individual Liquid Cold Plate 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 Liquid Cold Plate. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (High Power Electronic Equipment, Laser Device).

Technology Analysis: Report covers specific technologies relevant to Liquid Cold Plate. It assesses the current state, advancements, and potential future developments in Liquid Cold Plate areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Liquid Cold Plate 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

Liquid Cold Plate 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

Formed Tube Cold Plate

Deep Drilled Cold Plate

Machined Channel Cold Plate

Pocketed Folded-Fin Cold Plate

Others

Market segment by Application

High Power Electronic Equipment

Laser Device

Power Conversion Equipment

Medical Equipment

Defence and Aerospace

LED

Others

Major players covered

Aavid

Lytron

Asia Vital Components

Wakefield-Vette

Wolverine Tube

HS Marston

Columbia-Staver

TAT Technologies

Ellediesse

DAU

TE Technology

Wenxuan Hardware

Kawaso Texcel

Hitachi

Suzhou Wint Electric

Tucker Engineering

Shanghai Kissthermal

MaxQ Technology

Mikros

Koolance

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 Liquid Cold Plate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid Cold Plate, with price, sales,

revenue and global market share of Liquid Cold Plate from 2019 to 2024.

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

Chapter 4, the Liquid Cold Plate 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 Liquid Cold Plate 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 Liquid Cold Plate.

Chapter 14 and 15, to describe Liquid Cold Plate sales channel, distributors, customers, research findings and conclusion.

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