

Liquid Cold Plate Market Size, Share, and Outlook, 2025 Report- By Type (Formed Tube Cold Plate (FTCP), Deep Drilled Cold Plate (DDCP), Machined Channel Cold Plates (MCCP), Pocketed Folded-Fin Cold Plates (PFCP), By Application (Electronic Equipment, Power Conversion Equipment, Medical Equipment, Defense and Aerospace, LED, Others), By Technology (Tubed, Vacuum-Brazed), By Material (Aluminum, Copper Plate, Stainless-Steel, Thermally Conductive, Lightweight Polymers, Others), 2018-2032

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Abstracts

Liquid Cold Plate Market Outlook

The Liquid Cold Plate Market size is expected to register a growth rate of 28.6% during the forecast period from \$1.92 Billion in 2025 to \$11.2 Billion in 2032. The Liquid Cold Plate market is a thriving business that is poised to keep growing and presents potential growth opportunities for companies across the industry value chain.

The comprehensive market research report presents 12-year historic and forecast data on Liquid Cold Plate segments across 22 countries from 2021 to 2032. Key segments in the report include By Type (Formed Tube Cold Plate (FTCP), Deep Drilled Cold Plate (DDCP), Machined Channel Cold Plates (MCCP), Pocketed Folded-Fin Cold Plates (PFCP), By Application (Electronic Equipment, Power Conversion Equipment, Medical Equipment, Defense and Aerospace, LED, Others), By Technology (Tubed, Vacuum-Brazed), By Material (Aluminum, Copper Plate, Stainless-Steel, Thermally Conductive,

Lightweight Polymers, Others). Over 70 tables and charts showcase findings from our latest survey report on Liquid Cold Plate markets.

Liquid Cold Plate Market Insights, 2025

The liquid cold plate market is gaining traction as industries prioritize high-efficiency thermal management solutions for power electronics, EV batteries, and high-performance computing. Liquid cold plates offer superior heat dissipation compared to traditional air-cooling methods, making them essential for data centers, industrial automation, and aerospace applications. Key players such as Aavid (Boyd Corporation), Lytron, and Wakefield-Vette are developing advanced liquid cooling solutions with microchannel designs, optimized flow distribution, and high thermal conductivity materials like copper and aluminum. The rise of electric vehicles and renewable energy systems is further driving demand for liquid cold plates, particularly in battery thermal management systems (BTMS) to enhance safety, efficiency, and longevity. Additionally, as AI-driven computing and high-performance GPUs generate increased heat loads, liquid cooling is emerging as a preferred solution for maintaining optimal operational efficiency in data centers.

Five Trends that will define global Liquid Cold Plate market in 2025 and Beyond

A closer look at the multi-million market for Liquid Cold Plate identifies rapidly shifting consumer preferences across categories. By focusing on growth and resilience, leading Liquid Cold Plate companies are prioritizing their investments across categories, markets, and geographies. The report analyses the most important market trends shaping the new landscape to support better decisions for the long and short-term future. The impact of tariffs by the US administration also significantly impact the profitability of Liquid Cold Plate vendors.

What are the biggest opportunities for growth in the Liquid Cold Plate industry?

The Liquid Cold Plate sector demonstrated remarkable resilience over the past year across developed and developing economies. Further, the market presents significant opportunities to leverage the existing momentum towards actions by 2032. On the other hand, recent macroeconomic developments including rising inflation and supply chain disruptions are putting pressure on companies. The chapter assists users to identify growth avenues and address business challenges to make informed commercial decisions with unique insights, data forecasts, and in-depth market analyses.

Liquid Cold Plate Market Segment Insights

The Liquid Cold Plate industry presents strong offers across categories. The analytical report offers forecasts of Liquid Cold Plate industry performance across segments and countries. Key segments in the industry include%li%By Type (Formed Tube Cold Plate (FTCP), Deep Drilled Cold Plate (DDCP), Machined Channel Cold Plates (MCCP), Pocketed Folded-Fin Cold Plates (PFCP), By Application (Electronic Equipment, Power Conversion Equipment, Medical Equipment, Defense and Aerospace, LED, Others), By Technology (Tubed, Vacuum-Brazed), By Material (Aluminum, Copper Plate, Stainless-Steel, Thermally Conductive, Lightweight Polymers, Others). The largest types, applications, and sales channels, fastest growing segments, and the key factors driving each of the categories are included in the report.

Forecasts of each segment across five regions are provided from 2021 through 2032 for Asia Pacific, North America, Europe, South America, Middle East, and African regions. In addition, Liquid Cold Plate market size outlook is provided for 22 countries across these regions.

Market Value Chain

The chapter identifies potential companies and their operations across the global Liquid Cold Plate industry ecosystem. It assists decision-makers in evaluating global Liquid Cold Plate market fundamentals, market dynamics, and disruptive trends across the value chain segments.

Scenario Analysis and Forecasts

Strategic decision-making in the Liquid Cold Plate industry is multi-faceted with the increased need for planning across scenarios. The report provides forecasts across three case scenarios%li%low growth, reference case, and high growth cases.

Asia Pacific Liquid Cold Plate Market Analysis%li%A Promising Growth Arena for Business Expansion

As companies increasingly expand across promising Asia Pacific markets with over 4.5 billion population, the medium-to-long-term future remains robust. The presence of the fastest-growing economies such as China, India, Thailand, Indonesia, and Vietnam coupled with strengthening middle-class populations and rising disposable incomes drive the market. In particular, China and India are witnessing rapid shifts in consumer

purchasing behavior. China is recovering steadily with optimistic forecasts for 2025. Further, Japanese and South Korean markets remain stable with most companies focusing on new product launches and diversification of sales channels.

The State of Europe Liquid Cold Plate Industry 2025%li%Focus on Accelerating Competitiveness

As companies opt for an integrated agenda for competitiveness, the year 2025 presents optimistic scenarios for companies across the ecosystem. With signs of economic recovery across markets, companies are increasing their investments. Europe is one of the largest markets for Liquid Cold Plate with demand from both Western Europe and Eastern European regions increasing over the medium to long-term future. Increasing omnichannel shopping amidst robust consumer demand for value purchases shapes the market outlook. The report analyses the key Liquid Cold Plate market drivers and opportunities across Germany, France, the United Kingdom, Spain, Italy, Russia, and other Europe.

The US Liquid Cold Plate market Insights%li%Vendors are exploring new opportunities within the US Liquid Cold Plate industry.

Easing inflation coupled with strengthening consumer sentiment is encouraging aggressive actions from the US Liquid Cold Plate companies. Market players consistently focusing on innovation and pursuing new ways to create value are set to excel in 2025. In addition, the Canadian and Mexican markets offer lucrative growth pockets for manufacturers and vendors. Focus on private-brand offerings and promotions, diversified sales channels, expansion into niche segments, adoption of advanced technologies, and sustainability are widely observed across the North American Liquid Cold Plate market.

Latin American Liquid Cold Plate market outlook rebounds in line with economic growth.

Underlying demand remains higher among urban consumers with an optimistic economic outlook across Brazil, Argentina, Chile, and other South and Central American countries. Increased consumer spending has been reported in Q1 -2025 and the prospects remain strong for rest of 2025. Aggressive ecosystem moves to create new sources of income are widely observed across markets in the region. Marketing activities focused on customer insights, operations, and support functions are quickly gaining business growth in the region.

Middle East and Africa Liquid Cold Plate Markets%li%New Opportunities for Companies Harnessing Diversity

Rapid growth in burgeoning urban locations coupled with a young and fast-growing population base is attracting new investments in the Middle East and African Liquid Cold Plate markets. Designing expansion and marketing strategies to cater to the local consumer base supports the market prospects. In addition to Nigeria, Algeria, South Africa, and other markets, steady growth markets in Ethiopia, Rwanda, Ghana, Tanzania, the Democratic Republic of Congo, and others present significant prospects for companies. On the other hand, Middle Eastern Liquid Cold Plate markets including the UAE, Saudi Arabia, Qatar, and Oman continue to offer lucrative pockets of growth.

Competitive Landscape%li%How Liquid Cold Plate companies outcompete in 2025?

The ability to respond quickly to evolving consumer preferences and adapt businesses to niche consumer segments remains a key growth factor. The report identifies the leading companies in the industry and provides their revenue for 2024. The market shares of each company are also included in the report. Further, business profiles, SWOT analysis, and financial analysis of each company are provided in detail. Key companies analyzed in the report include Aavid Thermalloy, Asia Vital Components, Columbia-Staver, Hitachi, HS Marston, Lytron, TAT Technologies, TE Technology, Wakefield-Vette Inc, Wolverine Tube.

Liquid Cold Plate Market Segmentation

By Type

Formed Tube Cold Plate (FTCP)

Deep Drilled Cold Plate (DDCP)

Machined Channel Cold Plates (MCCP)

Pocketed Folded-Fin Cold Plates (PFCP)

By Application

Electronic Equipment

Power Conversion Equipment

Medical Equipment

Defense and Aerospace

LED

Others

By Technology

Tubed

Vacuum-Brazed

By Material

Aluminum

Copper Plate

Stainless-Steel

Thermally Conductive

Lightweight Polymers

Others

Leading Companies

Aavid Thermalloy

Asia Vital Components

Columbia-Staver

Hitachi

HS Marston

Lytron

TAT Technologies

TE Technology

Wakefield-Vette Inc

Wolverine Tube

Reasons to Buy the report

Make informed decisions through long and short-term forecasts across 22 countries and segments.

Evaluate market fundamentals, dynamics, and disrupting trends set to shape 2025 and beyond.

Gain a clear understanding of the competitive landscape, with product portfolio and growth strategies.

Get an integrated understanding of the entire market ecosystem and companies.

Stay ahead of the competition through plans for growth in a changing environment for your geographic expansion.

Assess the impact of advanced technologies and identify growth opportunities based on actionable data and insights.

Get free Excel spreadsheet and PPT versions along with the report PDF.

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Machined Channel Cold Plates (MCCP)

Pocketed Folded-Fin Cold Plates (PFCP)

By Application

Electronic Equipment

Power Conversion Equipment

Medical Equipment

Defense and Aerospace

LED

Others

By Technology

Tubed

Vacuum-Brazed

By Material

Aluminum

Copper Plate

Stainless-Steel

Thermally Conductive

Lightweight Polymers

Others

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Hitachi
HS Marston
Lytron
TAT Technologies
TE Technology
Wakefield-Vette Inc
Wolverine Tube
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