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Global Two-Phase Cold Plates Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Two-Phase Cold Plates market size is expected to reach $ 1222 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

In 2025, global Two-Phase Cold Plates production reached approximately 1.501 million units, with an average global market price of around USD 285 per unit.

The gross profit margin of major companies in the industry was approximately 30%–42%.

In 2025, global production capacity of Two-Phase Cold Plates was approximately 1.920 million units.

Two-Phase Cold Plates are advanced thermal management components that use liquid phase change mechanisms to absorb and transfer high heat loads from electronic devices. They integrate sealed channels, working fluids, and high conductivity structures to achieve efficient cooling through evaporation and condensation cycles. They are mainly applied in AI servers, high-performance computing, data centers, semiconductor equipment, and power electronics. This market excludes conventional single-phase cold plates, air cooling products, pumps, cooling loops, and complete thermal management systems.

The industrial chain of Two-Phase Cold Plates includes upstream copper, aluminum alloys, thermal interface materials, working fluids, and precision machining equipment. Midstream covers thermal design, channel manufacturing, sealing, fluid filling, inspection, and module integration. Downstream applications mainly include artificial intelligence servers, high-performance computing, semiconductor manufacturing

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equipment, energy systems, and high-density electronic devices requiring advanced heat dissipation.

Report Scope

This report studies the global Two-Phase Cold Plates production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Two-Phase Cold Plates and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Two-Phase Cold Plates that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Two-Phase Cold Plates total production and demand, 2021-2032, (Million Units)

Global Two-Phase Cold Plates total production value, 2021-2032, (USD Million)

Global Two-Phase Cold Plates production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Two-Phase Cold Plates consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Two-Phase Cold Plates domestic production, consumption, key domestic manufacturers and share

Global Two-Phase Cold Plates production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Two-Phase Cold Plates production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

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Global Two-Phase Cold Plates production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Two-Phase Cold Plates 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 ZutaCore, Inc., Accelsius LLC, ThermAvant Technologies, LLC, ERG Aerospace Corporation, SEGUENTE, Inc., Boyd Corporation, Advanced Cooling Technologies, Inc., Calyos SA, NTK Holdings Limited, Auras Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Two-Phase Cold Plates market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Two-Phase Cold Plates Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Market Segmentation

Global Two-Phase Cold Plates Market, Segmentation by Type:

Flow Boiling Cold Plates

Evaporative Cold Plates

Thermosyphon Cold Plates

Global Two-Phase Cold Plates Market, Segmentation by Internal Flow Structure:

Microchannel Cold Plates

Fin-channel Cold Plates

Porous-media Cold Plates

Global Two-Phase Cold Plates Market, Segmentation by Heat Flux Capacity:

Standard-flux(?100 W/cm²)

High-flux(>100–300 W/cm²)

Ultra-high-flux(>300 W/cm²)

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Global Two-Phase Cold Plates Market, Segmentation by Application:

GPU and AI Accelerator Cooling

CPU and High-power Processor Cooling

Power Electronics and Laser Device Cooling

Other

Companies Profiled:

ZutaCore, Inc.

Accelsius LLC

ThermAvant Technologies, LLC

ERG Aerospace Corporation

SEGUENTE, Inc.

Boyd Corporation

Advanced Cooling Technologies, Inc.

Calyos SA

NTK Holdings Limited

Auras Technology Co., Ltd.

Asia Vital Components Co., Ltd.

Key Questions Answered

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1. How big is the global Two-Phase Cold Plates market?
2. What is the demand of the global Two-Phase Cold Plates market?
3. What is the year over year growth of the global Two-Phase Cold Plates market?
4. What is the total value of the global Two-Phase Cold Plates market?
5. Who are the Major Players in the global Two-Phase Cold Plates market?
6. What are the growth factors driving the market demand?

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