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Global Two-Phase Cold Plates Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Two-Phase Cold Plates market size was valued at US$ 440 million in 2025 and is forecast to a readjusted size of US$ 1222 million by 2032 with a CAGR of 15.1% during review period.

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,

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inspection, and module integration. Downstream applications mainly include artificial intelligence servers, high-performance computing, semiconductor manufacturing equipment, energy systems, and high-density electronic devices requiring advanced heat dissipation.

Report Scope

This report is a detailed and comprehensive analysis for global Two-Phase Cold Plates 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 2025, are provided.

Key Features:

Global Two-Phase Cold Plates market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Two-Phase Cold Plates market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Two-Phase Cold Plates market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Two-Phase Cold Plates market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (US$/Unit), 2021-2026

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 Two-Phase Cold Plates

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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 Two-Phase Cold Plates market based on the following parameters - company overview, sales quantity, revenue, 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.

Two-Phase Cold Plates market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

Flow Boiling Cold Plates

Evaporative Cold Plates

Thermosyphon Cold Plates

Market segment by Internal Flow Structure

Microchannel Cold Plates

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Fin-channel Cold Plates

Porous-media Cold Plates

Market segment by Heat Flux Capacity

Standard-flux(?100 W/cm²)

High-flux(>100–300 W/cm²)

Ultra-high-flux(>300 W/cm²)

Market segment by Application

GPU and AI Accelerator Cooling

CPU and High-power Processor Cooling

Power Electronics and Laser Device Cooling

Other

Major players covered

ZutaCore, Inc.

Accelsius LLC

ThermAvant Technologies, LLC

ERG Aerospace Corporation

SEGUENTE, Inc.

Boyd Corporation

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Advanced Cooling Technologies, Inc.

Calyos SA

NTK Holdings Limited

Auras Technology Co., Ltd.

Asia Vital Components Co., Ltd.

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)

Chapter Outline

Chapter 1, to describe Two-Phase Cold Plates product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Two-Phase Cold Plates, with price, sales quantity, revenue, and global market share of Two-Phase Cold Plates from 2021 to 2026.
Chapter 3, the Two-Phase Cold Plates competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Two-Phase Cold Plates breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to

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2032.
Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.
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 2021 to 2026.and Two-Phase Cold Plates market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.
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 Two-Phase Cold Plates.
Chapter 14 and 15, to describe Two-Phase Cold Plates sales channel, distributors, customers, research findings and conclusion.

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