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# Global 3D Printed Liquid Cooling Plate for AI Data Center 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 3D Printed Liquid Cooling Plate for AI Data Center market size was valued at US$ 198 million in 2025 and is forecast to a readjusted size of US$ 386 million by 2032 with a CAGR of 7.6% during review period.

A 3D Printed Liquid Cooling Plate for AI Data Centers is an additively manufactured (3D-printed) advanced heat-dissipation device used to cool high-power AI chips, GPUs, CPUs, and accelerator modules in modern data centers. It uses direct-liquid cooling (DLC) technology and is made through metal 3D printing (usually aluminum or copper) to create extremely complex internal micro-channels that traditional machining cannot achieve. In 2025, global 3D Printed Liquid Cooling Plate for AI Data Center production reached approximately 960 k units with an average global market price of around US$ 200 per unit. The production capacity for 3D Printed Liquid Cooling Plate for AI Data Center in 2025 was approximately 1000 k units. The typical gross profit margin for 3D Printed Liquid Cooling Plate for AI Data Center is between 20% and 40%.

The downstream market for 3D printed liquid cooling plates in AI data centers is primarily driven by AI training clusters, high-performance computing (HPC) systems, and next-generation high-density servers. As AI accelerators continue to increase in power density, conventional air-cooling and traditional cold plate designs face limitations in thermal efficiency and design flexibility. 3D printed liquid cooling plates enable complex internal flow channels, optimized heat transfer performance, and rapid customization, making them particularly suitable for GPU/TPU servers, AI inference systems, and liquid-cooled racks deployed by hyperscale cloud service providers, colocation data centers, and enterprise AI infrastructures. Key downstream customers

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include cloud service providers, AI server OEMs/ODMs, data center operators, and system integrators, especially those investing in direct-to-chip and advanced liquid cooling architectures.

This report is a detailed and comprehensive analysis for global 3D Printed Liquid Cooling Plate for AI Data Center 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 3D Printed Liquid Cooling Plate for AI Data Center market size and forecasts, in consumption value ($ Million), sales quantity (K Unit), and average selling prices (US$/Unit), 2021-2032

Global 3D Printed Liquid Cooling Plate for AI Data Center market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Unit), and average selling prices (US$/Unit), 2021-2032

Global 3D Printed Liquid Cooling Plate for AI Data Center market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Unit), and average selling prices (US$/Unit), 2021-2032

Global 3D Printed Liquid Cooling Plate for AI Data Center market shares of main players, shipments in revenue ($ Million), sales quantity (K Unit), 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 3D Printed Liquid Cooling Plate for AI Data Center
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 3D Printed Liquid Cooling Plate for AI Data Center market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key

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developments. Key companies covered as a part of this study include Alloy Enterprises, Fabric8Labs, CoolestDC, Conflux Technology, Airsys, ADDMAN Group, Asetek, ATS, EOS GmbH, Xi'an Bright Laser Technologies, etc.

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

**Market Segmentation**

3D Printed Liquid Cooling Plate for AI Data Center 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 segment by Type

Copper Liquid Cold Plate

Aluminum Liquid Cold Plate

Others

Market segment by Technology

SLM/DMLS

ECAM

Others

Market segment by Application

Cloud Data Centers

AI Data Centers / AI Servers

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High-Performance Computing (HPC)

Enterprise Data Centers

Others

Major players covered

Alloy Enterprises

Fabric8Labs

CoolestDC

Conflux Technology

Airsys

ADDMAN Group

Asetek

ATS

EOS GmbH

Xi'an Bright Laser Technologies

NanFang Ventilator

Farsoon Technologies

LINGYI Itech

Shenzhen Xihe Additive Technology

Market segment by region, regional analysis covers

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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 3D Printed Liquid Cooling Plate for AI Data Center product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Printed Liquid Cooling Plate for AI Data Center, with price, sales quantity, revenue, and global market share of 3D Printed Liquid Cooling Plate for AI Data Center from 2021 to 2026.

Chapter 3, the 3D Printed Liquid Cooling Plate for AI Data Center competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Printed Liquid Cooling Plate for AI Data Center breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 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 3D Printed Liquid Cooling Plate for AI Data Center 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 3D Printed Liquid Cooling Plate for AI Data Center.

Chapter 14 and 15, to describe 3D Printed Liquid Cooling Plate for AI Data Center sales

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channel, distributors, customers, research findings and conclusion.

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