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Global 3D Printed Liquid Cooling Plate for AI Data Center Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Printed Liquid Cooling Plate for AI Data Center market size is expected to reach $ 386 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

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 include cloud service providers, AI server OEMs/ODMs, data center operators, and

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system integrators, especially those investing in direct-to-chip and advanced liquid cooling architectures.

This report studies the global 3D Printed Liquid Cooling Plate for AI Data Center production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Printed Liquid Cooling Plate for AI Data Center 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 3D Printed Liquid Cooling Plate for AI Data Center that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Printed Liquid Cooling Plate for AI Data Center total production and demand, 2021-2032, (K Unit)

Global 3D Printed Liquid Cooling Plate for AI Data Center total production value, 2021-2032, (USD Million)

Global 3D Printed Liquid Cooling Plate for AI Data Center production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Unit), (based on production site)

Global 3D Printed Liquid Cooling Plate for AI Data Center consumption by region & country, CAGR, 2021-2032 & (K Unit)

U.S. VS China: 3D Printed Liquid Cooling Plate for AI Data Center domestic production, consumption, key domestic manufacturers and share

Global 3D Printed Liquid Cooling Plate for AI Data Center production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Unit)

Global 3D Printed Liquid Cooling Plate for AI Data Center production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Unit)

Global 3D Printed Liquid Cooling Plate for AI Data Center production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Unit)

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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, production, value, price, gross margin, product portfolio, geographical presence, and key 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 3D Printed Liquid Cooling Plate for AI Data Center market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Unit) 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 3D Printed Liquid Cooling Plate for AI Data Center Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global 3D Printed Liquid Cooling Plate for AI Data Center Market, Segmentation by Type:

Copper Liquid Cold Plate

Aluminum Liquid Cold Plate

Others

Global 3D Printed Liquid Cooling Plate for AI Data Center Market, Segmentation by Technology:

SLM/DMLS

ECAM

Others

Global 3D Printed Liquid Cooling Plate for AI Data Center Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

Alloy Enterprises

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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

Key Questions Answered:

1. How big is the global 3D Printed Liquid Cooling Plate for AI Data Center market?
2. What is the demand of the global 3D Printed Liquid Cooling Plate for AI Data Center market?
3. What is the year over year growth of the global 3D Printed Liquid Cooling Plate for AI Data Center market?
4. What is the production and production value of the global 3D Printed Liquid Cooling Plate for AI Data Center market?
5. Who are the key producers in the global 3D Printed Liquid Cooling Plate for AI Data Center market?
6. What are the growth factors driving the market demand?

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