

# Global Direct Liquid Cooling Solution Market Growth 2023-2029

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## Abstracts

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According to our LPI (LP Information) latest study, the global Direct Liquid Cooling Solution market size was valued at US\$ million in 2022. With growing demand in downstream market, the Direct Liquid Cooling Solution is forecast to a readjusted size of US\$ million by 2029 with a CAGR of % during review period.

The research report highlights the growth potential of the global Direct Liquid Cooling Solution market. Direct Liquid Cooling Solution are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Direct Liquid Cooling Solution. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Direct Liquid Cooling Solution market.

Direct Liquid Cooling (DLC) is a server cooling technology designed to improve energy efficiency and cooling in data centers. Compared with traditional air cooling, DLC systems have higher heat dissipation efficiency and energy utilization. Because liquid conducts heat much better than air, DLC can move heat away from server components more quickly. This helps lower server temperatures, improves stability and reliability, and reduces energy consumption. This method of server cooling can extract up to 80 kW of power (60-70% heat) per rack, increasing data center efficiency and reducing energy costs by up to 45%. The rest of the heat needs to be dissipated by other means, usually from the fan wall at the rear of the rack. DLC technology can also support high-density server deployments because it can more efficiently handle the heat generated by multiple high-power components. This is especially important for large-scale data

center operators, who need to accommodate as many servers as possible in a limited space.

#### Key Features:

The report on Direct Liquid Cooling Solution market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Direct Liquid Cooling Solution market. It may include historical data, market segmentation by Type (e.g., Single Phase, Two-Phase), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Direct Liquid Cooling Solution market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Direct Liquid Cooling Solution market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Direct Liquid Cooling Solution industry. This include advancements in Direct Liquid Cooling Solution technology, Direct Liquid Cooling Solution new entrants, Direct Liquid Cooling Solution new investment, and other innovations that are shaping the future of Direct Liquid Cooling Solution.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Direct Liquid Cooling Solution market. It includes factors influencing customer ' purchasing decisions, preferences for Direct Liquid Cooling Solution product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Direct Liquid Cooling Solution market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Direct Liquid Cooling Solution market. The report

also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Direct Liquid Cooling Solution market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Direct Liquid Cooling Solution industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Direct Liquid Cooling Solution market.

**Market Segmentation:**

Direct Liquid Cooling Solution market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

**Segmentation by type**

Single Phase

Two-Phase

**Segmentation by application**

Data Center

Artificial Intelligence and Deep Learning

Financial Industry

Telecommunications Industry

Energy Industry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

NVIDIA

Supermicro

HPE

Intel

Dell

Lenovo

Inspur

Penguin Computing

Atos

Quanta Cloud Technology (QCT)

AMAX Information Technologies

Nettrix

Equinix

LiquidStack

Iceotope

ZutaCore

CoolIT Systems

Motivair

Boyd

DCX Liquid Cooling Systems

Schneider Electric

JetCool

7Starlake

UNICOM Engineering

2CRSi

nVent

Gigabyte

Nettrix

Asus

Vertiv

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Direct Liquid Cooling Solution market?

What factors are driving Direct Liquid Cooling Solution market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Direct Liquid Cooling Solution market opportunities vary by end market size?

How does Direct Liquid Cooling Solution break out type, application?

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