

# Global Direct Liquid Cooling Solution Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/G3CCB920FD0FEN.html>

Date: December 2023

Pages: 153

Price: US\$ 3,480.00 (Single User License)

ID: G3CCB920FD0FEN

## Abstracts

According to our (Global Info Research) latest study, the global Direct Liquid Cooling Solution market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

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.

The Global Info Research report includes an overview of the development of the Direct Liquid Cooling Solution industry chain, the market status of Data Center (Single Phase, Two-Phase), Artificial Intelligence and Deep Learning (Single Phase, Two-Phase), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Direct Liquid Cooling Solution.

Regionally, the report analyzes the Direct Liquid Cooling Solution markets in key

regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Direct Liquid Cooling Solution market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Direct Liquid Cooling Solution market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Direct Liquid Cooling Solution industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Single Phase, Two-Phase).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Direct Liquid Cooling Solution market.

**Regional Analysis:** The report involves examining the Direct Liquid Cooling Solution market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Direct Liquid Cooling Solution market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Direct Liquid Cooling Solution:

**Company Analysis:** Report covers individual Direct Liquid Cooling Solution manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Direct Liquid Cooling Solution. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Data Center, Artificial Intelligence and Deep Learning).

**Technology Analysis:** Report covers specific technologies relevant to Direct Liquid Cooling Solution. It assesses the current state, advancements, and potential future developments in Direct Liquid Cooling Solution areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Direct Liquid Cooling Solution market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## 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.

### Market segment by Type

Single Phase

Two-Phase

### Market segment by Application

Data Center

Artificial Intelligence and Deep Learning

Financial Industry

Telecommunications Industry

Energy Industry

Others

#### Major players covered

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

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Direct Liquid Cooling Solution product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Direct Liquid Cooling Solution, with price, sales, revenue and global market share of Direct Liquid Cooling Solution from 2018 to 2023.

Chapter 3, the Direct Liquid Cooling Solution competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Direct Liquid Cooling Solution breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Direct Liquid Cooling Solution market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Direct Liquid Cooling Solution.

Chapter 14 and 15, to describe Direct Liquid Cooling Solution sales channel, distributors, customers, research findings and conclusion.

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