

# Global Phase Change Immersed Liquid Cooling System Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Phase Change Immersed Liquid Cooling System market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Commonly used phase-change immersed liquid cooling systems for data centers have two different system forms, called horizontal and vertical systems. The two systems can be compared in four aspects as follows:

1. System control scheme: The control of the immersed liquid cooling system mainly includes liquid level control, pressure control, and temperature control. In the horizontal system, all nodes are integrated in one space, so only the overall control is needed, and the control process and logic design are relatively simple and mature. However, each unit in the vertical system is independent and requires a separate control process, with a large number of control components, complex design, and high design difficulty.
2. Reliability: In the horizontal system, the server nodes are arranged in parallel, and there may be interaction between the nodes. For example, if the heat power of a node suddenly increases significantly or a fault occurs, it may interfere with adjacent nodes. If the cooling liquid in the horizontal system is accidentally contaminated, causing a change in the physical properties of the liquid, especially the dielectric properties, it may cause extremely adverse effects on the entire system, destroying all internal circuit components and causing great harm. In the vertical system, each node is sealed separately, and they are independent and do not interfere with each other. Even if the cooling liquid in one unit is contaminated, it will not endanger other units, and the system is safe and reliable.

3. Maintainability: The horizontal system supports online hot-swappable maintenance, which means that when a node is taken out for maintenance, the system power does not need to be disconnected, and it does not affect the normal operation of other nodes. However, during maintenance, the liquid is always boiling, and there is a large amount of boiling vapor leakage. The vertical system also supports online hot-swappable maintenance, and when a node unit is opened for maintenance, the leakage of boiling working fluid is small. However, since each sealed unit contains cooling liquid, control devices, and other structures, the unit weight may be as high as 40 kg to 50 kg, making it difficult to operate.

4. Cost: The overall manufacturing cost and control scheme cost of the horizontal system are relatively low, and there are relatively mature cases and design guidelines as references. The vertical system requires not only the design of the cabinet but also the design of the sealed shell, control device, and cooling structure for each node unit. The system is complex, the design and manufacturing costs are high, and there are few market application cases available for reference, requiring large research and development costs.

This report studies the global Phase Change Immersed Liquid Cooling System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phase Change Immersed Liquid Cooling System, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Phase Change Immersed Liquid Cooling System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phase Change Immersed Liquid Cooling System total production and demand, 2018-2029, (Units)

Global Phase Change Immersed Liquid Cooling System total production value, 2018-2029, (USD Million)

Global Phase Change Immersed Liquid Cooling System production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Phase Change Immersed Liquid Cooling System consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Phase Change Immersed Liquid Cooling System domestic production, consumption, key domestic manufacturers and share

Global Phase Change Immersed Liquid Cooling System production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Phase Change Immersed Liquid Cooling System production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Phase Change Immersed Liquid Cooling System production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units)

This reports profiles key players in the global Phase Change Immersed Liquid Cooling System 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 Green Revolution Cooling (GRC) and Sugon etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Phase Change Immersed Liquid Cooling System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Phase Change Immersed Liquid Cooling System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Phase Change Immersed Liquid Cooling System Market, Segmentation by Type

Vertical System

Horizontal System

### Global Phase Change Immersed Liquid Cooling System Market, Segmentation by Application

Enterprises

Data Centers

Others

### Companies Profiled:

Green Revolution Cooling (GRC)

Sugon

## Key Questions Answered

1. How big is the global Phase Change Immersed Liquid Cooling System market?
2. What is the demand of the global Phase Change Immersed Liquid Cooling System market?
3. What is the year over year growth of the global Phase Change Immersed Liquid Cooling System market?
4. What is the production and production value of the global Phase Change Immersed Liquid Cooling System market?
5. Who are the key producers in the global Phase Change Immersed Liquid Cooling System market?
6. What are the growth factors driving the market demand?

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