

Global Phase Change Immersed Liquid Cooling System Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Phase Change Immersed Liquid Cooling System 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. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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 is a detailed and comprehensive analysis for global Phase Change Immersed Liquid Cooling System 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 2023, are provided.

Key Features:

Global Phase Change Immersed Liquid Cooling System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Phase Change Immersed Liquid Cooling System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Phase Change Immersed Liquid Cooling System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Phase Change Immersed Liquid Cooling System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2018-2023

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 Phase Change Immersed Liquid Cooling System

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 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.

Market Segmentation

Phase Change Immersed Liquid Cooling System 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Vertical System

Horizontal System

Market segment by Application

Enterprises

Data Centers

Others

Major players covered

Green Revolution Cooling (GRC)

Sugon

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 Phase Change Immersed Liquid Cooling System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phase Change Immersed Liquid Cooling System, with price, sales, revenue and global market share of Phase Change Immersed

Liquid Cooling System from 2018 to 2023.

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

Chapter 4, the Phase Change Immersed Liquid Cooling System 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 Phase Change Immersed Liquid Cooling System market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Phase Change Immersed Liquid Cooling System.

Chapter 14 and 15, to describe Phase Change Immersed Liquid Cooling System sales channel, distributors, customers, research findings and conclusion.

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