

Global Direct Cooling and Direct Heating Machine Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G7061FF5DCF6EN.html>

Date: October 2025

Pages: 102

Price: US\$ 3,132.00 (Single User License)

ID: G7061FF5DCF6EN

Abstracts

According to our (Global Info Research) latest study, the global Direct Cooling and Direct Heating Machine market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

With the booming development of the new energy vehicle market, power batteries, as its core components, have a performance and safety that are directly related to the vehicle's range, charging speed and service life. In this context, the cooling and heating technology of power batteries is particularly important. Direct cooling and direct heating technology, as the name suggests, is a technology that can directly cool and heat power batteries. Traditional battery thermal management systems mostly use air cooling or liquid cooling, but these methods often have problems such as uneven heat dissipation and low efficiency when facing high energy density and large capacity batteries. The direct cooling and direct heating tester uses advanced heat pipe technology to achieve direct, efficient and uniform thermal management of the battery. The core principle of the direct cooling and direct heating tester is to use the efficient thermal conductivity of the heat pipe to quickly transfer the heat generated by the battery to the condensation end of the heat pipe, and then discharge it out of the car through the cooling system; when heating is required, heat is extracted from the outside environment through heat pump technology and directly transported to the heating end of the battery. This design not only greatly improves the heat dissipation efficiency of the battery, but also ensures the rapid preheating of the battery in extreme environments, thereby significantly

improving the performance and service life of the battery. In practical applications, the direct cooling and heating tester has shown significant advantages. First, in a high temperature environment, it can effectively control the temperature rise of the battery to prevent performance degradation and safety hazards caused by overheating. Secondly, in a cold environment, the direct cooling and heating tester can quickly preheat the battery to ensure that the battery can still charge and discharge normally at low temperatures, greatly reducing the problem of reduced mileage caused by low temperatures. In addition, the direct cooling and heating tester has a compact structure and light weight, which is very suitable for the strict space and weight requirements of new energy vehicles.

This report is a detailed and comprehensive analysis for global Direct Cooling and Direct Heating Machine 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 2025, are provided.

Key Features:

Global Direct Cooling and Direct Heating Machine market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Direct Cooling and Direct Heating Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Direct Cooling and Direct Heating Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Direct Cooling and Direct Heating Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Direct Cooling and Direct Heating Machine
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 Direct Cooling and Direct Heating Machine market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include WUXI GUANYA REFRIGERATION TECHNOLOGY CO.,LTD., Guangdong Yunhai Junlan Technology Co., Ltd, Guangdong Bell Experiment Equipment Co.,Ltd, Beijing LING GONG Sci.&Tech. Co.,Ltd., JIANGSU TOMILO ENVIRONMENTAL TESTING EQUIPMENT CO.,LTD, Shenzhen Aolante Machinery Co.,Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Direct Cooling and Direct Heating Machine market is split by Type and by Application. For the period 2020-2031, 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

Cooling Capacity

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Direct Cooling and Direct Heating Machine Consumption Value
by Type: 2020 Versus 2024 Versus 2031

1.3.2 Cooling Capacity

List Of Tables

LIST OF TABLES

Table 1. Global Direct Cooling and Direct Heating Machine Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Direct Cooling and Direct Heating Machine Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. WUXI GUANYA REFRIGERATION TECHNOLOGY CO.,LTD. Basic Information, Manufacturing Base and Competitors

Table 4. WUXI GUANYA REFRIGERATION TECHNOLOGY CO.,LTD. Major Business

Table 5. WUXI GUANYA REFRIGERATION TECHNOLOGY CO.,LTD. Direct Cooling and Direct Heating Machine Product and Services

Table 6. WUXI GUANYA REFRIGERATION TECHNOLOGY CO.,LTD. Direct Cooling and Direct Heating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. WUXI GUANYA REFRIGERATION TECHNOLOGY CO.,LTD. Recent Developments/Updates

Table 8. Guangdong Yunhai Junlan Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 9. Guangdong Yunhai Junlan Technology Co., Ltd Major Business

Table 10. Guangdong Yunhai Junlan Technology Co., Ltd Direct Cooling and Direct Heating Machine Product and Services

Table 11. Guangdong Yunhai Junlan Technology Co., Ltd Direct Cooling and Direct Heating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Guangdong Yunhai Junlan Technology Co., Ltd Recent Developments/Updates

Table 13. Guangdong Bell Experiment Equipment Co.,Ltd Basic Information, Manufacturing Base and Competitors

Table 14. Guangdong Bell Experiment Equipment Co.,Ltd Major Business

Table 15. Guangdong Bell Experiment Equipment Co.,Ltd Direct Cooling and Direct Heating Machine Product and Services

Table 16. Guangdong Bell Experiment Equipment Co.,Ltd Direct Cooling and Direct Heating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Guangdong Bell Experiment Equipment Co.,Ltd Recent Developments/Updates

Table 18. Beijing LING GONG Sci.&Tech. Co.,Ltd. Basic Information, Manufacturing

Base and Competitors

Table 19. Beijing LING GONG Sci.&Tech. Co.,Ltd. Major Business

Table 20. Beijing LING GONG Sci.&Tech. Co.,Ltd. Direct Cooling and Direct Heating Machine Product and Services

Table 21. Beijing LING GONG Sci.&Tech. Co.,Ltd. Direct Cooling and Direct Heating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Beijing LING GONG Sci.&Tech. Co.,Ltd. Recent Developments/Updates

Table 23. JIANGSU TOMILO ENVIRONMENTAL TESTING EQUIPMENT CO.,LTD Basic Information, Manufacturing Base and Competitors

Table 24. JIANGSU TOMILO ENVIRONMENTAL TESTING EQUIPMENT CO.,LTD Major Business

Table 25. JIANGSU TOMILO ENVIRONMENTAL TESTING EQUIPMENT CO.,LTD Direct Cooling and Direct Heating Machine Product and Services

Table 26. JIANGSU TOMILO ENVIRONMENTAL TESTING EQUIPMENT CO.,LTD Direct Cooling and Direct Heating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. JIANGSU TOMILO ENVIRONMENTAL TESTING EQUIPMENT CO.,LTD Recent Developments/Updates

Table 28. Shenzhen Aolante Machinery Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 29. Shenzhen Aolante Machinery Co.,Ltd. Major Business

Table 30. Shenzhen Aolante Machinery Co.,Ltd. Direct Cooling and Direct Heating Machine Product and Services

Table 31. Shenzhen Aolante Machinery Co.,Ltd. Direct Cooling and Direct Heating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Shenzhen Aolante Machinery Co.,Ltd. Recent Developments/Updates

Table 33. Global Direct Cooling and Direct Heating Machine Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 34. Global Direct Cooling and Direct Heating Machine Revenue by Manufacturer (2020-2025) & (USD Million)

Table 35. Global Direct Cooling and Direct Heating Machine Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 36. Market Position of Manufacturers in Direct Cooling and Direct Heating Machine, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 37. Head Office and Direct Cooling and Direct Heating Machine Production Site of Key Manufacturer

Table 38. Direct Cooling and Direct Heating Machine Market: Company Product Type

Footprint

Table 39. Direct Cooling and Direct Heating Machine Market: Company Product Application Footprint

Table 40. Direct Cooling and Direct Heating Machine New Market Entrants and Barriers to Market Entry

Table 41. Direct Cooling and Direct Heating Machine Mergers, Acquisition, Agreements, and Collaborations

Table 42. Global Direct Cooling and Direct Heating Machine Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 43. Global Direct Cooling and Direct Heating Machine Sales Quantity by Region (2020-2025) & (K Units)

Table 44. Global Direct Cooling and Direct Heating Machine Sales Quantity by Region (2026-2031) & (K Units)

Table 45. Global Direct Cooling and Direct Heating Machine Consumption Value by Region (2020-2025) & (USD Million)

Table 46. Global Direct Cooling and Direct Heating Machine Consumption Value by Region (2026-2031) & (USD Million)

Table 47. Global Direct Cooling and Direct Heating Machine Average Price by Region (2020-2025) & (US\$/Unit)

Table 48. Global Direct Cooling and Direct Heating Machine Average Price by Region (2026-2031) & (US\$/Unit)

Table 49. Global Direct Cooling and Direct Heating Machine Sales Quantity by Type (2020-2025) & (K Units)

Table 50. Global Direct Cooling and Direct Heating Machine Sales Quantity by Type (2026-2031) & (K Units)

Table 51. Global Direct Cooling and Direct Heating Machine Consumption Value by Type (2020-2025) & (USD Million)

Table 52. Global Direct Cooling and Direct Heating Machine Consumption Value by Type (2026-2031) & (USD Million)

Table 53. Global Direct Cooling and Direct Heating Machine Average Price by Type (2020-2025) & (US\$/Unit)

Table 54. Global Direct Cooling and Direct Heating Machine Average Price by Type (2026-2031) & (US\$/Unit)

Table 55. Global Direct Cooling and Direct Heating Machine Sales Quantity by Application (2020-2025) & (K Units)

Table 56. Global Direct Cooling and Direct Heating Machine Sales Quantity by Application (2026-2031) & (K Units)

Table 57. Global Direct Cooling and Direct Heating Machine Consumption Value by Application (2020-2025) & (USD Million)

Table 58. Global Direct Cooling and Direct Heating Machine Consumption Value by Application (2026-2031) & (USD Million)

Table 59. Global Direct Cooling and Direct Heating Machine Average Price by Application (2020-2025) & (US\$/Unit)

Table 60. Global Direct Cooling and Direct Heating Machine Average Price by Application (2026-2031) & (US\$/Unit)

Table 61. North America Direct Cooling and Direct Heating Machine Sales Quantity by Type (2020-2025) & (K Units)

Table 62. North America Direct Cooling and Direct Heating Machine Sales Quantity by Type (2026-2031) & (K Units)

Table 63. North America Direct Cooling and Direct Heating Machine Sales Quantity by Application (2020-2025) & (K Units)

Table 64. North America Direct Cooling and Direct Heating Machine Sales Quantity by Application (2026-2031) & (K Units)

Table 65. North America Direct Cooling and Direct Heating Machine Sales Quantity by Country (2020-2025) & (K Units)

Table 66. North America Direct Cooling and Direct Heating Machine Sales Quantity by Country (2026-2031) & (K Units)

Table 67. North America Direct Cooling and Direct Heating Machine Consumption Value by Country (2020-2025) & (USD Million)

Table 68. North America Direct Cooling and Direct Heating Machine Consumption Value by Country (2026-2031) & (USD Million)

Table 69. Europe Direct Cooling and Direct Heating Machine Sales Quantity by Type (2020-2025) & (K Units)

Table 70. Europe Direct Cooling and Direct Heating Machine Sales Quantity by Type (2026-2031) & (K Units)

Table 71. Europe Direct Cooling and Direct Heating Machine Sales Quantity by Application (2020-2025) & (K Units)

Table 72. Europe Direct Cooling and Direct Heating Machine Sales Quantity by Application (2026-2031) & (K Units)

Table 73. Europe Direct Cooling and Direct Heating Machine Sales Quantity by Country (2020-2025) & (K Units)

Table 74. Europe Direct Cooling and Direct Heating Machine Sales Quantity by Country (2026-2031) & (K Units)

Table 75. Europe Direct Cooling and Direct Heating Machine Consumption Value by Country (2020-2025) & (USD Million)

Table 76. Europe Direct Cooling and Direct Heating Machine Consumption Value by Country (2026-2031) & (USD Million)

Table 77. Asia-Pacific Direct Cooling and Direct Heating Machine Sales Quantity by

Type (2020-2025) & (K Units)

Table 78. Asia-Pacific Direct Cooling and Direct Heating Machine Sales Quantity by Type (2026-2031) & (K Units)

Table 79. Asia-Pacific Direct Cooling and Direct Heating Machine Sales Quantity by Application (2020-2025) & (K Units)

Table 80. Asia-Pacific Direct Cooling and Direct Heating Machine Sales Quantity by Application (2026-2031) & (K Units)

Table 81. Asia-Pacific Direct Cooling and Direct Heating Machine Sales Quantity by Region (2020-2025) & (K Units)

Table 82. Asia-Pacific Direct Cooling and Direct Heating Machine Sales Quantity by Region (2026-2031) & (K Units)

Table 83. Asia-Pacific Direct Cooling and Direct Heating Machine Consumption Value by Region (2020-2025) & (USD Million)

Table 84. Asia-Pacific Direct Cooling and Direct Heating Machine Consumption Value by Region (2026-2031) & (USD Million)

Table 85. South America Direct Cooling and Direct Heating Machine Sales Quantity by Type (2020-2025) & (K Units)

Table 86. South America Direct Cooling and Direct Heating Machine Sales Quantity by Type (2026-2031) & (K Units)

Table 87. South America Direct Cooling and Direct Heating Machine Sales Quantity by Application (2020-2025) & (K Units)

Table 88. South America Direct Cooling and Direct Heating Machine Sales Quantity by Application (2026-2031) & (K Units)

Table 89. South America Direct Cooling and Direct Heating Machine Sales Quantity by Country (2020-2025) & (K Units)

Table 90. South America Direct Cooling and Direct Heating Machine Sales Quantity by Country (2026-2031) & (K Units)

Table 91. South America Direct Cooling and Direct Heating Machine Consumption Value by Country (2020-2025) & (USD Million)

Table 92. South America Direct Cooling and Direct Heating Machine Consumption Value by Country (2026-2031) & (USD Million)

Table 93. Middle East & Africa Direct Cooling and Direct Heating Machine Sales Quantity by Type (2020-2025) & (K Units)

Table 94. Middle East & Africa Direct Cooling and Direct Heating Machine Sales Quantity by Type (2026-2031) & (K Units)

Table 95. Middle East & Africa Direct Cooling and Direct Heating Machine Sales Quantity by Application (2020-2025) & (K Units)

Table 96. Middle East & Africa Direct Cooling and Direct Heating Machine Sales Quantity by Application (2026-2031) & (K Units)

Table 97. Middle East & Africa Direct Cooling and Direct Heating Machine Sales
Quantity by Country (2020-2025) & (K Units)

Table 98. Middle East & Africa Direct Cooling and Direct Heating Machine Sales
Quantity by Country (2026-2031) & (K Units)

Table 99. Middle East & Africa Direct Cooling and Direct Heating Machine Consumption
Value by Country (2020-2025) & (USD Million)

Table 100. Middle East & Africa Direct Cooling and Direct Heating Machine
Consumption Value by Country (2026-2031) & (USD Million)

Table 101. Direct Cooling and Direct Heating Machine Raw Material

Table 102. Key Manufacturers of Direct Cooling and Direct Heating Machine Raw
Materials

Table 103. Direct Cooling and Direct Heating Machine Typical Distributors

Table 104. Direct Cooling and Direct Heating Machine Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Direct Cooling and Direct Heating Machine Picture

Figure 2. Global Direct Cooling and Direct Heating Machine Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Direct Cooling and Direct Heating Machine Revenue Market Share by Type in 2024

Figure 4. Cooling Capacity

I would like to order

Product name: Global Direct Cooling and Direct Heating Machine Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

Product link: <https://marketpublishers.com/r/G7061FF5DCF6EN.html>

Price: US\$ 3,132.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G7061FF5DCF6EN.html>