

Global Direct Cooling and Direct Heating Machine Market Growth 2026-2032

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Abstracts

The global Direct Cooling and Direct Heating Machine market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

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.

United States market for Direct Cooling and Direct Heating Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Direct Cooling and Direct Heating Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Direct Cooling and Direct Heating Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Direct Cooling and Direct Heating Machine players cover 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, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Direct Cooling and Direct Heating Machine Industry Forecast" looks at past sales and reviews total world Direct Cooling and Direct Heating Machine sales in 2025, providing a comprehensive analysis by region and market sector of projected Direct Cooling and Direct Heating Machine sales for 2026 through 2032. With Direct Cooling and Direct Heating Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Direct Cooling and Direct Heating Machine industry.

This Insight Report provides a comprehensive analysis of the global Direct Cooling and Direct Heating Machine landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Direct Cooling and Direct Heating Machine portfolios and capabilities, market

entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Direct Cooling and Direct Heating Machine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Direct Cooling and Direct Heating Machine and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Direct Cooling and Direct Heating Machine.

This report presents a comprehensive overview, market shares, and growth opportunities of Direct Cooling and Direct Heating Machine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cooling Capacity

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