

Cold Plates Market to Reach USD 833.8 Million by 2035, Driven by Rising Demand for Advanced Thermal Management Solutions

UK cold plates market to grow at 9.8%

CAGR (2025–2035), driven by rising data

centers and renewable energy needs for thermal management.

NEWARK, DE, UNITED STATES, June 10, 2025 /EINPresswire.com/ -- The global [cold plates market](#)

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The cold plates market is thriving as industries demand efficient thermal solutions. Advancements in EVs, data centers, and renewables are accelerating adoption and driving robust global growth.”

Nikhil Kaitwade

is expected to witness robust growth, rising from USD 465.8 million in 2025 to USD 833.8 million by 2035. This growth, marked by a CAGR of around 6%, is driven by increasing demand for efficient thermal management solutions across electronics, automotive, and industrial sectors. As electronic devices become more compact and powerful, the need for effective heat dissipation technologies like cold plates continues to surge, propelling market expansion over the forecast period.

As businesses and governments continue to adopt high-performance electronic systems and green energy

technologies, cold plates have emerged as a vital solution for thermal management, offering efficient heat dissipation and prolonged equipment lifespans.

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Rising Adoption of Electronics and Data Infrastructure Fueling Growth

The expansion of the electronics industry, particularly in developing economies, is a key driver accelerating the cold plates market. As electronic devices become more compact and powerful, the need for advanced cooling mechanisms has grown. Cold plates, with their superior capability to maintain optimal operating temperatures for semiconductors, microprocessors, and power electronics, are increasingly being integrated into systems requiring consistent and efficient thermal regulation.

Moreover, the proliferation of data centers worldwide has further boosted demand. These facilities generate considerable heat and require dependable cooling solutions to maintain uninterrupted operations and avoid costly downtime. Liquid-cooled cold plates are proving instrumental in addressing these thermal management challenges, especially in high-density computing environments.

Automotive and EV Boom Catalyzing Market Dynamics

The automotive sector—especially the electric vehicle (EV) segment—is another high-growth vertical for cold plates. With the rise in EV production and the shift toward electrification in the global automotive industry, the demand for compact and efficient thermal management systems has soared. Cold plates are being employed to cool battery packs, power electronics, and onboard chargers, ensuring safe operation and extending component life.

As major automotive manufacturers ramp up their electric vehicle lines, the need for innovative, durable, and space-saving cooling solutions becomes paramount. This trend is anticipated to significantly boost the adoption of cold plates across both OEM and aftermarket applications, with advancements in battery technology further amplifying the need for effective thermal solutions.

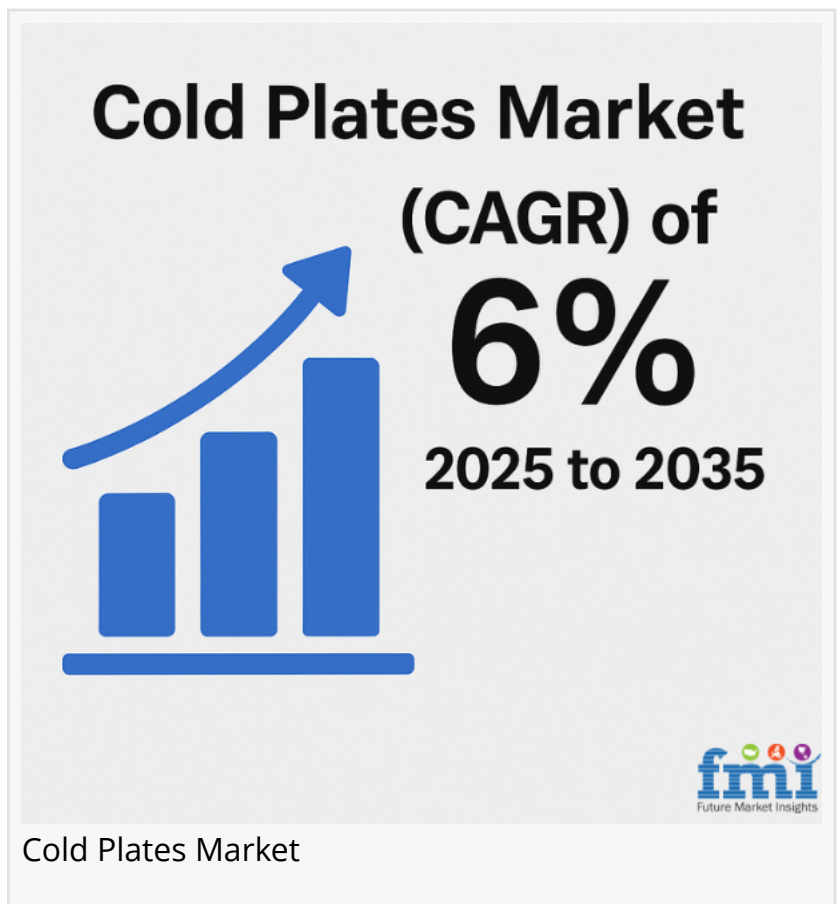
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Expanding Renewable Energy Projects Creating New Avenues

Another catalyst in the cold plates market is the global transition toward renewable energy. With the expansion of solar and wind power installations, there is an increasing demand for efficient heat exchangers and cooling systems for inverters and other power conversion components. Cold plates offer high thermal conductivity and flexibility in design, making them ideal for integration into complex renewable energy systems.

Governments and private sectors are investing heavily in green infrastructure, and this is



expected to create ample opportunities for cold plate manufacturers to innovate and customize their offerings to fit renewable energy applications.

Regional Insights

Regionally, North America and Europe remain key markets due to their robust infrastructure in electronics, aerospace, and automotive sectors. The presence of major manufacturers, research institutions, and early technology adopters has spurred innovation and demand. Asia-Pacific, however, is expected to emerge as the fastest-growing region, with countries like China, India, Japan, and South Korea witnessing surging investment in manufacturing, electric mobility, and data centers.

The region's growing industrial base, favorable government policies, and focus on digitalization are collectively driving market penetration and expansion.

Leading Players in Cold Plates Market

- Parker Hannifin Corporation
- Sanhua Holding Group Co., Ltd
- AMS Technologies
- Fujikura Ltd.
- Dana Limited
- Sumitomo Precision Products Co Ltd.
- Columbia Staver Ltd.
- Wieland Microcool
- Wakefield Thermal Solutions Inc.
- Telerex

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Cold Plates Market Analyzed by Key Investment Segments

By Product Type:

The market is segmented into Stir Welded Cold Plate, Press Locked Cold Plate, Vacuum Brazed Cold Plate, Rolled Tube Cold Plate, Exposed Tube Cold Plate, Vortex Cold Plate, Die-Cast Cold Plate, and Other Customized Types.

By Application:

The market is segmented into High Powered Electronics, Wind Turbines, Medical Equipment, IGBT Modules, and Motor Devices.

By Region:

The market is segmented into North America, Latin America, Western Europe, Eastern Europe, East Asia, South Asia & Pacific, and the Middle East and Africa.

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