

Global Data Center Magnetic-Bearing Chillers Market Growth 2026-2032

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Abstracts

The global Data Center Magnetic-Bearing Chillers market size is predicted to grow from US\$ 406 million in 2025 to US\$ 1262 million in 2032; it is expected to grow at a CAGR of 16.3% from 2026 to 2032.

In 2025, global Data Center Magnetic-Bearing Chillers production reached approximately 6,300 units with average price of 65,000 USD per unit.

Data center magnetic-bearing chillers are high-efficiency refrigeration equipment applied in data center cooling systems. Adopting core magnetic bearing technology, the compressor rotor operates contact-free and oil-free, differing from traditional mechanical bearing chillers. Featuring high energy efficiency, low noise and vibration, long lifespan, and maintenance-free operation, they meet large cooling capacity demands in high-density computing scenarios, significantly reducing data center PUE, and serving as core cooling equipment for green computing infrastructure.

The industry chain comprises upstream core components, midstream machine manufacturing, and downstream application scenarios. The upstream includes magnetic bearings, high-speed permanent magnet motors, variable frequency control systems, high-efficiency heat exchangers, and eco-friendly refrigerants. Technical barriers focus on magnetic bearing control algorithms and high-speed motor design, with high-end components long relying on overseas supply, while localization accelerates in recent years. The midstream involves integration and manufacturing, where enterprises assemble, debug, and certify products by integrating core components, requiring system design and energy efficiency optimization capabilities. International brands compete fiercely with local leaders, with a clear trend of import substitution. The downstream is dominated by hyperscale/intelligent computing centers, covering cloud

computing and AI computing clusters, while expanding into commercial buildings and industrial refrigeration, driven by both computing power expansion and energy conservation policies.

Industry growth is jointly driven by computing power demand, policy constraints, and technological iteration, with broad long-term development space. AI and cloud computing drive a significant increase in power density per cabinet in data centers, making traditional cooling solutions inadequate. Magnetic-bearing chillers, with high energy efficiency ratios, meet low PUE requirements and become the preferred choice for new construction and renovation projects. Global carbon emission reduction policies are tightening, with countries mandating data centers to reduce energy consumption, accelerating the replacement of inefficient equipment and providing policy support for product penetration. Technologically, magnetic bearing control accuracy and motor efficiency continue to improve, costs gradually decline, and the maturity of domestic components enhances product cost-effectiveness. Meanwhile, application scenarios expand from data centers to industrial and commercial fields, opening incremental space. Leading enterprises will benefit from increased market concentration and competitive advantages built by technical barriers.

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

This Insight Report provides a comprehensive analysis of the global Data Center Magnetic-Bearing Chillers 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 Data Center Magnetic-Bearing Chillers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Data Center Magnetic-Bearing Chillers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center Magnetic-Bearing Chillers 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 Data Center Magnetic-Bearing Chillers.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Magnetic-Bearing Chillers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Magnetic-bearing Water-cooled Chiller

Magnetic-bearing Air-cooled Chiller

Segmentation by Capacity:

Small-capacity Magnetic-bearing Chiller

Medium-capacity Magnetic-bearing Chiller

Large-capacity Magnetic-bearing Chiller

Segmentation by Refrigerant:

Traditional Refrigerant

Environmentally Friendly Refrigerant

Segmentation by Application:

Enterprise Private Data Center

Carrier Colocation Data Center

Cloud & Supercomputing Data Center

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SMARDT (Canada)

Carrier (United States)

Trane (Ireland)

Daikin Applied (United States)

Airedale by Modine (United Kingdom)

Vertiv (United States)

LG Electronics (South Korea)

Johnson Controls?York? (Ireland)

Dunham-Bush (Malaysia)

Midea(China)

Hisense HVAC(China)

NANJING TICA CLIMATE SOLUTIONS CO.,LTD(China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Magnetic-Bearing Chillers market?

What factors are driving Data Center Magnetic-Bearing Chillers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Center Magnetic-Bearing Chillers market opportunities vary by end market size?

How does Data Center Magnetic-Bearing Chillers break out by Type, by Application?

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