

Global Data Center Magnetic-Bearing Chillers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Magnetic-Bearing Chillers market size is expected to reach \$ 1264 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Data Center Magnetic-Bearing Chillers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Magnetic-Bearing Chillers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center Magnetic-Bearing Chillers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Magnetic-Bearing Chillers total production and demand, 2021-2032, (Units)

Global Data Center Magnetic-Bearing Chillers total production value, 2021-2032, (USD Million)

Global Data Center Magnetic-Bearing Chillers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Data Center Magnetic-Bearing Chillers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Data Center Magnetic-Bearing Chillers domestic production,

consumption, key domestic manufacturers and share

Global Data Center Magnetic-Bearing Chillers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Data Center Magnetic-Bearing Chillers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Data Center Magnetic-Bearing Chillers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Data Center Magnetic-Bearing Chillers 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 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), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center Magnetic-Bearing Chillers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center Magnetic-Bearing Chillers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Magnetic-Bearing Chillers Market, Segmentation by Type:

Magnetic-bearing Water-cooled Chiller

Magnetic-bearing Air-cooled Chiller

Global Data Center Magnetic-Bearing Chillers Market, Segmentation by Capacity:

Small-capacity Magnetic-bearing Chiller

Medium-capacity Magnetic-bearing Chiller

Large-capacity Magnetic-bearing Chiller

Global Data Center Magnetic-Bearing Chillers Market, Segmentation by Refrigerant:

Traditional Refrigerant

Environmentally Friendly Refrigerant

Global Data Center Magnetic-Bearing Chillers Market, Segmentation by Application:

Enterprise Private Data Center

Carrier Colocation Data Center

Cloud & Supercomputing Data Center

Companies Profiled:

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 Answered:

1. How big is the global Data Center Magnetic-Bearing Chillers market?
2. What is the demand of the global Data Center Magnetic-Bearing Chillers market?
3. What is the year over year growth of the global Data Center Magnetic-Bearing Chillers market?
4. What is the production and production value of the global Data Center Magnetic-Bearing Chillers market?
5. Who are the key producers in the global Data Center Magnetic-Bearing Chillers market?

6. What are the growth factors driving the market demand?

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