

Global Single Stage Centrifugal Chiller System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single Stage Centrifugal Chiller System market size is expected to reach \$ 3399 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

In 2025, global Single Stage Centrifugal Chiller System production reached approximately 9,637 Units. The average price is approximately \$220,000. Single Stage Centrifugal Chiller System is a medium- to large-capacity chilled-water production system built around single-stage centrifugal compression technology. It typically integrates a centrifugal refrigerant compressor, evaporator, condenser, expansion device, variable-frequency drive, lubrication or oil-free magnetic bearing system, unit controller, protection logic, and remote monitoring interface into a factory-assembled chiller package.

Single Stage Centrifugal Chiller System should be treated as a high-efficiency sub-segment within the broader centrifugal chiller market rather than as a completely separate HVAC equipment category. The core value of this product lies in delivering large cooling capacity, high part-load efficiency, stable chilled-water production, and relatively compact equipment integration for buildings and industrial facilities with large and continuous cooling loads. Compared with screw and scroll chillers, centrifugal chillers are more suitable for large commercial complexes, hospitals, airports, metro systems, industrial plants, electronics manufacturing, pharmaceutical facilities, district cooling schemes, and data center cooling plants. Compared with conventional multi-stage centrifugal designs, single-stage or single-compressor configurations emphasize simpler architecture, variable-speed operation, application flexibility, and easier integration into modern plant-control systems. Because suppliers do not always disclose ?single-stage,? ?single-compressor,? ?oil-free,? and ?magnetic bearing? in a

consistent way, this report separates strict single-stage products from broader single-compressor and magnetic-bearing centrifugal product lines, using official product evidence as the primary basis for inclusion.

From the supply side, the market is led by global HVAC groups, supported by fast-growing Chinese manufacturers and regional suppliers in India, Southeast Asia, Japan, Korea, Europe, and North America. Carrier, Johnson Controls/YORK, Trane, Daikin, and Mitsubishi Heavy Industries remain the most important global suppliers in large-tonnage centrifugal chillers because of their compressor design capability, controls know-how, project references, service networks, and long installed base. LG, Hitachi, and EBARA maintain a meaningful presence in Asia, while Smardt, Multistack, Geoclima, and Aermec participate through oil-free magnetic-bearing, modular, or Turbocor-based product strategies. In China, Midea, Gree, Haier, TICA, Shenling, Xinlei, and Tongfang-related entities have expanded their magnetic-bearing, inverter, direct-drive, and high-efficiency centrifugal product lines. The broad vendor pool is therefore much larger than the core formal list because some companies are component suppliers, distributors, system integrators, or historical product owners rather than confirmed complete chiller OEMs.

From the demand side, replacement and energy-efficiency upgrades in commercial buildings remain a stable base, but incremental growth is increasingly driven by data centers, electronics manufacturing, semiconductor-related facilities, pharmaceuticals, district energy, and industrial process cooling. Policy pressure on refrigerants and energy efficiency is reshaping product requirements. In the United States, the AIM Act framework supports a phasedown of HFC production and consumption; in Europe, F-gas regulation accelerates the transition away from high-GWP refrigerants; and in China, data center green-development policies are pushing lower PUE, higher energy efficiency, and more advanced cooling technologies. These trends favor centrifugal chillers with low-GWP refrigerants, better part-load efficiency, oil-free operation, intelligent controls, and compatibility with high-temperature chilled-water systems. Although liquid cooling is growing quickly in high-density AI computing, centrifugal chillers will continue to play an important role in plant-level heat rejection and chilled-water loops rather than being fully displaced.

From the technology perspective, competition is moving from rated full-load COP toward lifecycle energy performance, part-load efficiency, service cost, refrigerant transition readiness, digital monitoring, and plant-level optimization. Conventional semi-hermetic centrifugal chillers remain competitive in large-tonnage applications where proven reliability and cost performance matter. Oil-free magnetic-bearing chillers are

gaining share in retrofit projects, mission-critical buildings, and data centers because of lower maintenance, low starting current, reduced oil-related efficiency loss, and quiet operation. Falling-film or flooded evaporators, VFDs, permanent-magnet motors, low refrigerant charge, rapid restart, and advanced controllers are becoming common differentiators. Over the next several years, leading multinational suppliers are expected to defend premium large-project positions, Chinese OEMs are likely to gain share through cost-performance and local project execution, and specialized suppliers will remain relevant through modular, oil-free, industrial, and data-center-focused niches.

This report studies the global Single Stage Centrifugal Chiller System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Stage Centrifugal Chiller System 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 Single Stage Centrifugal Chiller System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Stage Centrifugal Chiller System total production and demand, 2021-2032, (Units)

Global Single Stage Centrifugal Chiller System total production value, 2021-2032, (USD Million)

Global Single Stage Centrifugal Chiller System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Single Stage Centrifugal Chiller System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Single Stage Centrifugal Chiller System domestic production, consumption, key domestic manufacturers and share

Global Single Stage Centrifugal Chiller System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Single Stage Centrifugal Chiller System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Single Stage Centrifugal Chiller System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Single Stage Centrifugal Chiller System

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 Johnson Controls, Daikin Industries, Carrier Global, Trane Technologies, MHI, Midea Group, Gree Electric, Haier Smart Home, LG Electronics, Smardt, 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 Single Stage Centrifugal Chiller System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Single Stage Centrifugal Chiller System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Stage Centrifugal Chiller System Market, Segmentation by Type:

- Water-Cooled Single-Stage Centrifugal Chiller
- Air-Cooled Single-Stage Centrifugal Chiller
- Evaporatively Cooled Single-Stage Centrifugal Chiller

Global Single Stage Centrifugal Chiller System Market, Segmentation by Bearing Technology:

- Single-Stage Centrifugal Chiller with Traditional Mechanical Bearings
- Single-Stage Centrifugal Chiller with Magnetic Bearings
- Single-Stage Centrifugal Chiller with Air Bearings

Global Single Stage Centrifugal Chiller System Market, Segmentation by Cooling Capacity:

- Low Cooling Capacity Range: 800?1,500 RT
- Medium Cooling Capacity Range: 1,500?3,000 RT
- High Cooling Capacity Range: 3,000?5,000 RT
- Ultra-High Cooling Capacity Range: Above 5,000 RT

Global Single Stage Centrifugal Chiller System Market, Segmentation by Application:

- Commercial Buildings
- Data Centers
- Industrial Manufacturing

Others

Companies Profiled:

Johnson Controls

Daikin Industries

Carrier Global

Trane Technologies

MHI

Midea Group

Gree Electric

Haier Smart Home

LG Electronics

Smardt

Dunham-Bush

Hitachi Cooling & Heating

EBARA

TICA

Blue Star

Kirloskar Chillers

Climaveneta

Aermec

Geoclima

Multistack

Thermal Care

Shenling

Voltas

Xinlei

Tongfang Smart Energy

Key Questions Answered:

1. How big is the global Single Stage Centrifugal Chiller System market?
2. What is the demand of the global Single Stage Centrifugal Chiller System market?
3. What is the year over year growth of the global Single Stage Centrifugal Chiller System market?
4. What is the production and production value of the global Single Stage Centrifugal Chiller System market?
5. Who are the key producers in the global Single Stage Centrifugal Chiller System market?
6. What are the growth factors driving the market demand?

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