

Global Centrifugal Water-Cooled Chiller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Centrifugal Water-Cooled Chiller market size is expected to reach \$ 4280 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

In 2025, global sales of centrifugal water-cooled chillers are estimated at 21,000 units, with an average selling price of approximately US\$130,000 to US\$180,000 per unit. The average gross profit margin is estimated at 25% to 35%. Single-line capacity was approximately 600 units per year, with an average gross profit margin of 25-35%. Centrifugal Water-Cooled Chiller is large-scale refrigeration equipment that uses a centrifugal compressor as its core and water as the cooling medium. They dissipate heat through an evaporator and a water-cooled condenser, and are widely used in central air conditioning systems and industrial refrigeration. Their main advantages are large single-unit cooling capacity, stable operation, high energy efficiency ratio, and long service life.

Upstream industries mainly include raw materials such as copper, steel, and aluminum, as well as rare earth elements, composite materials, and core components such as compressors, motors, impellers, heat exchange tubes, microcomputer controllers, and refrigerants used for compressors and electrical insulation. Downstream industries are widely used in central air conditioning systems and process cooling stages in commercial buildings (office buildings, shopping malls, hotels), public facilities (hospitals, airports, schools), and industrial fields (electronics, pharmaceuticals, chemical processes, etc.).

The core drivers of the steady growth in the centrifugal water-cooled chiller market stem from stringent carbon neutrality standards and the rapid expansion of computing

infrastructure. In 2026, major global economies implemented stricter mandatory energy efficiency standards for green buildings, directly boosting the replacement demand for inefficient and outdated units in the existing market. In the incremental market, the surge in intelligent computing center construction driven by generative AI has become the strongest engine. The rigid requirements for high-density cooling and extremely high reliability in such scenarios make large-capacity, highly stable centrifugal chillers the preferred choice. Furthermore, the widespread adoption of regional energy systems and the upgrading of precision manufacturing sectors such as chemicals and pharmaceuticals have increased the demand for centrifugal technology with large temperature differences and high pressure ratios, further expanding its market depth in specialized industrial applications.

Despite its significant technological advantages, the centrifugal water-cooled chiller industry still faces high cost barriers and technological disruptions caused by refrigerant iterations. Due to the high precision of magnetic levitation and variable frequency technologies, the initial purchase cost of these units is significantly higher than that of conventional screw chillers or variable frequency multi-split systems. This, to some extent, hinders the penetration of small and medium-sized development projects that are sensitive to capital costs.

This report studies the global Centrifugal Water-Cooled Chiller production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Centrifugal Water-Cooled Chiller total production and demand, 2021-2032, (Units)

Global Centrifugal Water-Cooled Chiller total production value, 2021-2032, (USD Million)

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

Global Centrifugal Water-Cooled Chiller consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Centrifugal Water-Cooled Chiller domestic production, consumption, key

domestic manufacturers and share

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

Global Centrifugal Water-Cooled Chiller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Centrifugal Water-Cooled Chiller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Centrifugal Water-Cooled Chiller 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, Trane, Daikin, Carrier, Mitsubishi Electric, Mitsubishi Heavy Industries, LG Electronics, Dunham-Bush, Smardt Chiller Group, Bosch, 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 Centrifugal Water-Cooled Chiller 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 Centrifugal Water-Cooled Chiller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Centrifugal Water-Cooled Chiller Market, Segmentation by Type:

Single-Stage

Multi-Stage

Global Centrifugal Water-Cooled Chiller Market, Segmentation by Bearing Type:

Oil Lubrication

Magnetic Levitation

Global Centrifugal Water-Cooled Chiller Market, Segmentation by Compressor Sealing Type:

Open Type

Semi-hermetic Type

Hermetic Type

Global Centrifugal Water-Cooled Chiller Market, Segmentation by Refrigerant:

R22 Refrigerant

R134a Refrigerant

Other

Global Centrifugal Water-Cooled Chiller Market, Segmentation by Application:

Commercial

Industrial

Companies Profiled:

Johnson Controls

Trane

Daikin

Carrier

Mitsubishi Electric

Mitsubishi Heavy Industries

LG Electronics

Dunham-Bush

Smardt Chiller Group

Bosch

Midea

TICA

GREE

DunAn

Key Questions Answered:

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

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