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Global Chiller for Nuclear Power Station Market Growth 2026-2032

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Abstracts

The global Chiller for Nuclear Power Station market size is predicted to grow from US$ 1664 million in 2025 to US$ 2387 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

In 2024, global Chiller for Nuclear Power Station production reached approximately 12,000 units, with an average global market price of around US$130,000 per unit. In 2024, the global 's total production capacity of Chiller for Nuclear Power Station reached 15,000 units units. The industry average gross profit margin of this product reached 34%.Chiller for Nuclear Power Station is crucial auxiliary equipment, specifically referring to dedicated air conditioning units that use vapor compression refrigeration cycles and are driven by electric motors to provide a reliable cooling source for various buildings and process systems within the nuclear power plant. Depending on safety level and application area, they are mainly divided into nuclear-grade units and seismic-resistant units. Nuclear-grade units must meet the seismic resistance, quality assurance, and continuous operation capability under accident conditions required by nuclear safety regulations. Their functions include providing chilled water to the ventilation systems of the nuclear island safety building and electrical building, as well as the air conditioning system of the main control room. This aims to remove heat and maintain a specific ambient temperature, thereby ensuring that instrumentation and control equipment, cables, and critical areas remain within permissible temperature ranges under normal and even abnormal conditions, indirectly guaranteeing the safe and stable operation of the nuclear power plant.

The industrial chain for chillers used in nuclear power plants is long, technologically advanced, and closely tied to the policy direction of the nuclear power industry. Its upstream mainly consists of raw material and core component suppliers, including those

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providing basic materials such as steel and non-ferrous metals, as well as compressors, heat exchangers, pumps, valves, control systems, and high-performance sealing materials. The midstream involves the manufacturing and integration of chillers, with manufacturers designing, producing, testing, and qualifying them according to the different needs of the nuclear island (NI), conventional island (CI), and building plant (BOP), strictly adhering to nuclear safety levels and industry standards. Downstream applications directly target nuclear power plant operators—including initial installations for new units and maintenance, replacement, and technical upgrade services for in-service units throughout their lifecycle. Furthermore, different chilled water system branches, such as WSC and DEL, exist to address the cooling needs of specific areas within a nuclear power plant. The development of the entire industrial chain is deeply dependent on global and national government nuclear power development policies, the approval pace of new projects, and the maintenance and renovation plans of existing nuclear power plants.

Driven by global energy transition and carbon neutrality goals, nuclear power, as a stable and clean energy source, is experiencing a resurgence, bringing a definite growth prospect to the chiller industry for nuclear power plants. The industry exhibits a clear trend of technological iteration: on the one hand, the localization of high-end products will continue to deepen, with leading domestic companies making breakthroughs in key areas of nuclear-grade chillers through technological innovation, resulting in rapid increases in market share and order volume; on the other hand, industry consolidation and concentration may intensify, with the majority of global and Chinese market share expected to further concentrate on leading companies possessing advantages in technology, brand, and nuclear-grade certification. Furthermore, the diversification of technological approaches is also an important direction. For example, the market share of centrifugal chillers is increasing, while the application of indirect air-cooled systems in nuclear power plants is steadily progressing, jointly driving the industry's steady development under the dual impetus of technological innovation and market demand.

LP Information, Inc. (LPI) ' newest research report, the “Chiller for Nuclear Power Station Industry Forecast” looks at past sales and reviews total world Chiller for Nuclear Power Station sales in 2025, providing a comprehensive analysis by region and market sector of projected Chiller for Nuclear Power Station sales for 2026 through 2032. With Chiller for Nuclear Power Station sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Chiller for Nuclear Power Station industry.

This Insight Report provides a comprehensive analysis of the global Chiller for Nuclear

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Power Station 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 Chiller for Nuclear Power Station portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Chiller for Nuclear Power Station market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Chiller for Nuclear Power Station 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 Chiller for Nuclear Power Station.

This report presents a comprehensive overview, market shares, and growth opportunities of Chiller for Nuclear Power Station market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Water Cooled

Air Cooled

Segmentation by Compressor Types:

Centrifugal

Screw

Scroll

Segmentation by Drive Method:

Electric

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Engine Drive

Segmentation by Application:

Pressurized Water Reactor Nuclear Power Station

Boiling Water Reactor Nuclear Power Station

Heavy Water Reactor Nuclear Power Station

Fast Reactor Nuclear Power Station

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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- 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.

- LG
- Gree Electric Appliances
- Guangdong Shenling
- DunAnac
- Friotherm Deutschland GmbH

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Chiller for Nuclear Power Station market?

What factors are driving Chiller for Nuclear Power Station market growth, globally and by region?

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

How do Chiller for Nuclear Power Station market opportunities vary by end market size?

How does Chiller for Nuclear Power Station break out by Type, by Application?

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