

# HVAC Chillers Market to Reach USD 23.2 Billion by 2035, Growing at 5.0% CAGR | TMR

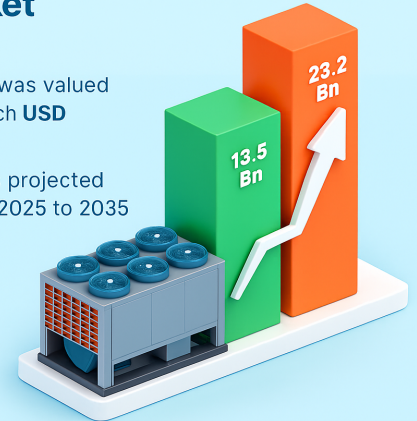
*Modern-day infrastructure, such as data centers, hospitals, and in manufacturing industries, where temperature control is very important use chillers.*

WILMINGTON, DE, UNITED STATES, October 3, 2025 /EINPresswire.com/ -- The global [HVAC chillers market](#), valued at USD 13.5 billion in 2024, is set to expand steadily at a CAGR of 5.0% from 2025 to 2035, reaching USD 23.2 billion by the end of the forecast period. Growth is driven by rising demand for energy-efficient cooling solutions, rapid urbanization, and the increasing development of commercial and industrial infrastructure worldwide.

## HVAC Chillers Market Outlook 2035

The global HVAC chillers industry was valued at **USD 13.5 Bn in 2024** and reach **USD 23.2 Bn** by the end of 2035

The global HVAC chillers market is projected to grow at a **CAGR of 5.0%** from 2025 to 2035



HVAC Chillers Market



HVAC Chillers Industry Set for 5.0% CAGR Growth Through 2035 Amid Increasing Commercial Cooling Needs”

*Transparency Market Research Inc.*

industrial, and residential sectors worldwide. Chillers, a critical component of Heating, Ventilation, and Air Conditioning (HVAC) systems, remove heat from liquids for various cooling applications, playing a vital role in maintaining comfortable indoor environments and facilitating industrial processes.

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The demand for HVAC chiller has seen a steady rise with the growing demand for energy-efficient cooling systems, a boom in urbanization, and industrialization. Improvements in the form of advances in chiller technology, such as smart and eco-friendly chillers boost the HVAC chillers market growth. As concerns are raised about sustainability and the need to mitigate

carbon footprints, HVAC chillers remain the central part of contemporary building management and industrial process optimization.

## Market Drivers and Challenges

### Market Drivers

The primary forces driving market growth include:

**Growing Demand for Energy-Efficient Solutions:** Regulatory pressures and rising energy costs are pushing end-users to adopt chillers with higher energy efficiency ratios (EER) and integrated smart controls, such as Variable Frequency Drives (VFDs) and magnetic bearing compressors.

**Infrastructure and Construction Boom:** Rapid urbanization and increasing construction of commercial buildings (e.g., data centers, hospitals, corporate offices, and malls) and industrial facilities (e.g., pharmaceuticals, food & beverages) in emerging economies, particularly in the Asia-Pacific region, are significantly boosting demand.

**Technological Advancements:** The integration of IoT (Internet of Things) and AI (Artificial Intelligence) allows for remote monitoring, predictive maintenance, and real-time optimization of chiller performance, enhancing operational efficiency.

**Stringent Environmental Regulations:** Global initiatives to phase down high Global Warming Potential (GWP) refrigerants (like HFCs) are compelling manufacturers to innovate with low-GWP refrigerants and more efficient chiller designs, such as absorption chillers utilizing waste heat.

### Market Challenges

Despite the positive outlook, the market faces certain hurdles:

**High Initial Capital Investment:** Advanced, high-efficiency chiller systems, including those with smart technology, often require a substantial initial investment, which can restrain adoption, especially in smaller businesses.

**Complex Installation and Maintenance:** The installation and maintenance of sophisticated, large-scale chiller systems demand specialized expertise, and a lack of skilled labor in some regions can pose a challenge.

**Technological Obsolescence:** The rapid pace of innovation necessitates continuous investment in R&D to avoid existing systems becoming quickly outdated, affecting product lifecycles.

### Market Segmentation

The HVAC chillers market is segmented across various parameters:

Segmentation Category

Key Segments

Detail

By Operation Type (Service Type)

Vapor Compression Chillers

Dominate the market; includes Centrifugal, Screw, Scroll, and Reciprocating Chillers.

Vapor Absorption Chillers

Gaining traction due to their ability to use waste heat, steam, or solar energy, aligning with sustainability goals.

By Condenser Type

Water-Cooled Chillers

Holds a significant share due to high energy efficiency and large cooling capacity, suitable for large applications.

Air-Cooled Chillers

Favored for their easy installation, lower maintenance, and use in small to mid-sized buildings.

Evaporative Chillers

Offer a balance between air-cooled and water-cooled systems.

By Application

Commercial

Offices, Data Centers, Healthcare, Hotels, Education, Retail. The largest application segment, driven by new construction and retrofitting.

Industrial

Food & Beverages, Pharmaceuticals, Chemicals, Oil & Gas, Plastics Processing. Requires high-precision and process cooling.

## Residential

Smaller cooling needs in large residential complexes and high-end homes.

## By Industry Vertical

This aligns closely with the Application segment, focusing on specific sectors like Data Centers (requiring high-capacity, reliable cooling) and Healthcare (demanding precise temperature control and reliability).

## By Sourcing Type

Not explicitly defined in the provided data, but generally refers to OEM/Direct Sales or Aftermarket/Indirect Channels.

## By Region

North America, Europe, Asia-Pacific (APAC), Latin America, Middle East & Africa (MEA).

## Regional Analysis

The Asia-Pacific (APAC) region is expected to remain the dominant and fastest-growing market during the forecast period. This growth is primarily attributable to:

**Rapid Industrialization and Urbanization:** Massive construction projects, smart city initiatives, and the expansion of manufacturing and commercial facilities, particularly in China and India.

**Climate Factors:** High population density coupled with rising average temperatures drives significant demand for cooling solutions.

North America and Europe also hold significant market shares, driven by stringent energy-efficiency regulations, a high concentration of data centers, and the necessity to retrofit aging infrastructure with modern, high-efficiency chiller systems. The Middle East & Africa (MEA) region is also witnessing robust growth due to extensive infrastructure development in countries like the UAE and Saudi Arabia.

## Market Trends

### Shift Towards Modular Chillers

Modular chillers are gaining traction due to their flexibility, scalability, and ease of installation. They are ideal for retrofit projects and facilities with evolving cooling demands, such as rapidly expanding data centers.

### Integration of Smart Technologies

The rise of smart buildings and Building Automation Systems (BAS) is leading to the widespread adoption of IoT and AI-enabled chillers. These features enable remote control, energy optimization, and predictive maintenance, maximizing uptime and efficiency.

### Focus on Low-GWP Refrigerants

Regulatory mandates, such as the F-Gas phase-down in Europe and similar movements globally, are accelerating the transition to eco-friendly refrigerants with low Global Warming Potential (GWP), such as R-1234ze and natural refrigerants.

### Demand for Absorption Chillers

The push for sustainability is increasing the demand for vapor absorption chillers, which use waste heat from industrial processes or solar energy instead of electricity, reducing operational costs and carbon footprint.

### Future Outlook and Key Market Study Points

The future of the HVAC chillers market is intrinsically linked to energy efficiency and digitalization. The market will see an increased emphasis on life-cycle cost analysis over initial purchase price, prioritizing systems that offer long-term savings through reduced energy consumption and maintenance.

#### Key Market Study Points:

**Sustainability Compliance:** Monitoring global and regional regulations on refrigerant use and energy efficiency standards.

**Data Center Growth:** The continuous proliferation of data centers globally will be a key driver for high-capacity, reliable, and redundant cooling solutions.

**Retrofit Opportunities:** Significant potential exists in retrofitting older, less efficient systems, especially in developed markets, with modern, smart, and low-GWP compliant chillers.

### Competitive Landscape and Recent Developments

The global HVAC chillers market is highly competitive, featuring both multinational corporations

and specialized regional players. Key companies are focusing on mergers, acquisitions, and strategic partnerships to expand their geographical reach and enhance their technology portfolios.

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## Key Market Players

Major companies leading the market include:

Daikin Industries Ltd.  
Carrier Global Corporation  
Johnson Controls International plc  
Trane Technologies PLC  
Mitsubishi Electric Corporation  
LG Electronics Inc.  
Siemens AG

## Recent Developments

**Focus on Magnetic Bearing Technology:** Key players are heavily investing in and launching magnetic bearing centrifugal chillers, which eliminate friction for superior energy efficiency, quieter operation, and significantly reduced maintenance requirements.

**Product Line Expansion:** Companies are continually expanding product lines with new chillers specifically designed for low-GWP refrigerants (e.g., R-1234ze, R-513A) to comply with upcoming environmental regulations.

**Smart and Connected Systems:** There is a surge in the introduction of chillers pre-equipped with advanced IoT sensors and AI-driven diagnostic tools for enhanced system management and predictive maintenance.

The market is set for a decade of evolution, with innovation cantered on meeting the global imperative for sustainable, reliable, and intelligent cooling.

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