

Global Absorption Chiller System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Absorption Chiller System market size is expected to reach \$ 2592 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

In 2025, global Absorption Chiller System production reached approximately 4.6k units , with an average global market price of around US\$400k per unit.

An absorption chiller system is a thermally driven refrigeration system that uses heat sources such as steam, hot water, gas, or industrial waste heat to produce cooling through an absorption–regeneration cycle. It typically employs refrigerant–absorbent pairs (e.g., water–lithium bromide or ammonia–water) and operates through evaporation, absorption, generation, and condensation processes. Unlike conventional vapor-compression systems, absorption chillers require minimal electricity, operate quietly, and can utilize waste or renewable heat, making them widely used in large commercial buildings, industrial cooling, and district cooling systems.

The upstream of the absorption chiller industry includes heat exchanger materials (copper, steel, stainless steel), absorbents such as lithium bromide or ammonia refrigerants, pumps, valves, and control systems, with representative suppliers including Honeywell (controls) and Arkema (refrigerants). The midstream consists of equipment manufacturers and system integrators such as Trane, Johnson Controls, Broad Group, LG Electronics, and Panasonic. Downstream applications are mainly in large commercial buildings (hotels, hospitals, data centers), industrial waste heat recovery systems, and district cooling projects such as those deployed by Siemens energy systems and major industrial users.

The absorption chiller system market is experiencing a structural revival driven by

energy efficiency and decarbonization requirements. Its key advantage lies in utilizing low-grade thermal energy to replace electricity consumption, making it highly suitable for industrial waste heat recovery and large-scale cooling applications. However, challenges remain, including high initial investment, system complexity, and dependence on stable heat sources. With the growth of distributed energy systems, trigeneration (CCHP), and green building initiatives, absorption chillers are expected to expand their adoption in niche but high-value applications.

This report studies the global Absorption Chiller System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Absorption Chiller System total production and demand, 2021-2032, (Units)

Global Absorption Chiller System total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Absorption 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 Panasonic, Emerson, Johnson Controls, Hitachi, LG, Robur Group, Trane, Carrier Corporation, Century Corporation, Thermax, 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 Absorption 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 Absorption Chiller System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Absorption Chiller System Market, Segmentation by Type:

Single Effect Absorption

Double Effect Absorption

Triple Effect Absorption

Global Absorption Chiller System Market, Segmentation by Cooling Capacity:

4.5 RT – 100 RT

100 – 1000 RT

1000 – 3000 RT

>3000 RT

Global Absorption Chiller System Market, Segmentation by Heat Source:

Steam

Hot Water

Direct Combustion

Waste Heat

Global Absorption Chiller System Market, Segmentation by Application:

Factory

Chemicals

Data Centers

Construction

Energy

Others

Companies Profiled:

Panasonic

Emerson

Johnson Controls

Hitachi

LG

Robur Group

Trane

Carrier Corporation

Century Corporation

Thermax

Yazaki Energy

Hitachi

Ebara

York

Berg Chilling Systems

Huayuantaimeng Energy-saving Equipment

Shuangliang Eco-Energy

Broad Group

Key Questions Answered:

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

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