

Global Absorption Chillers Market Growth 2026-2032

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Abstracts

The global Absorption Chillers market size is predicted to grow from US\$ 819 million in 2025 to US\$ 1046 million in 2032; it is expected to grow at a CAGR of 3.6% from 2026 to 2032.

Absorption chillers are thermally driven chilled-water machines that use heat rather than electricity as the primary driving energy. Most commonly based on a lithium bromide solution as the absorbent and water as the refrigerant, they circulate working fluids through key heat-exchange components including the generator, condenser, evaporator, and absorber to convert steam, hot water, flue-gas waste heat, engine jacket water, or direct-fired gas heat into chilled water for comfort air-conditioning or industrial process cooling, and in some configurations can also support space heating or domestic hot water needs. Their core value lies in leveraging low-cost or otherwise wasted heat to reduce electrical consumption and peak demand, while using water as the refrigerant to deliver refrigerant-side benefits of zero ozone depletion potential and zero global warming potential. Commercial offerings are typically segmented by effect and heat source, including single-effect and double-effect units as well as steam-fired, hot-water-fired, direct-fired, and waste-heat-driven variants. Manufacturers differentiate through solution concentration management and anti-crystallization strategies, vacuum system design and maintainability, corrosion-resistant materials and flow-path layouts, and part-load controls to improve reliability and year-round efficiency. Typical customers include commercial buildings and district energy plants, hospitals and large public facilities, and industrial sites with stable steam or waste-heat availability, as well as combined heat and power systems. Deliveries commonly bundle equipment, project integration, and operations and maintenance services, with selection and acceptance based on quantifiable metrics such as cooling output, compatible steam pressure ranges, capacity coverage, and coefficient of performance (COP).

Absorption chillers create value by ?using heat instead of electricity,? converting

thermal inputs such as steam, hot water, direct-fired natural gas heat, flue-gas waste heat, and engine jacket water into measurable, dispatchable chilled-water capacity. For campus energy plants and district cooling systems, they can materially reduce peak electrical demand during high-tariff periods or when power capacity is constrained, easing transformer sizing and power-supply reliability pressure while improving overall energy utilization when integrated with combined heat and power (CHP) or boiler plants. For industrial users, an absorption chiller often functions as a ?waste-heat utilization asset,? turning surplus steam or hot water from continuous processes into steady process cooling and reducing compression-chiller electricity consumption and electrical expansion needs. Commercial products are typically stratified by effect and heat-source fit, with clear segments such as single-effect units that better tolerate lower-grade heat and wider operating boundaries, double-effect units that prioritize higher efficiency and lower steam consumption per unit of cooling, direct-fired units that emphasize energy independence and rapid deployment, and waste-heat-driven units that maximize heat-recovery depth and system integration. Selection and evaluation generally follow a year-round logic centered on cooling capacity coverage, heat-source conditions, cooling-water temperature, part-load control strategy, annual operating hours, and the local structure of electricity costs and carbon performance. In practice, delivery commonly bundles equipment, engineering integration, and operations and maintenance services, with contracts defining acceptance criteria such as cooling output, energy consumption, and availability.

From a technical and operational standpoint, absorption chiller competitiveness is not determined solely by nameplate COP, but more by long-term availability drivers such as solution management, vacuum system stability, corrosion control, and maintainability. In lithium bromide?water systems, water is the refrigerant and performance is sensitive to vacuum level and heat-transfer surface condition; even minor leakage, accumulation of non-condensable gases, or water-quality swings can cause efficiency decay and unplanned outages. There is a clear trade-off between efficiency and complexity across single- and double-effect designs. Double-effect units raise efficiency through staged generators and heat recovery, but demand steadier heat sources, more sophisticated controls, and higher requirements for material corrosion resistance, while also being more sensitive to crystallization risk and solution concentration control. Manufacturers typically improve life-cycle performance through closed-loop concentration management, anti-crystallization logic and bypass strategies, optimized heat-exchanger structures and spray distribution, corrosion-resistant materials and inhibitor systems, and designs that simplify vacuum pumping, leak detection, and servicing. On the engineering side, the cooling-water system and cooling-tower operating window are critical, because condensation and absorption are strongly influenced by cooling-water

temperature; in hot and humid climates, stable output often depends on disciplined cooling-water control and water treatment. Operationally, routine vacuum maintenance, solution sampling and concentration checks, water-quality and corrosion monitoring, crystallization risk management, heat-exchanger cleaning, and spare-parts and outage-window planning together determine true life-cycle cost and realized efficiency. High-performing projects typically bake these requirements into commissioning and long-term service agreements rather than treating them as afterthoughts.

Regionally, supply tends to exhibit a pronounced 'Asian manufacturing belt' pattern, with East Asia and China offering comparatively complete industrial foundations that span core machine design and fabrication, project integration ecosystems, and service networks; India and South Korea also contribute meaningful supplier capacity with local channels and service advantages in domestic projects. Because absorption chillers are highly engineering-intensive to manufacture and deliver, success depends not only on core heat-exchanger and pressure-vessel capability, but also on project experience, commissioning competence, and a durable maintenance footprint. As a result, cross-border deliveries coexist with localized execution models, often through regional subsidiaries, distributors, and service teams that close the delivery-and-support loop. On the demand side, consumption is shaped by climate, grid constraints, and energy structure: hot and humid regions tend to value district cooling and peak shaving more strongly, while industrial clusters with abundant steam and waste heat can form stable application bases. In Asia-Pacific, large volumes of new campuses and public buildings combine with widespread industrial waste-heat conditions, making absorption chillers easier to scale in both district energy and industrial heat-recovery deployments. In the Middle East and similar markets, where district cooling penetration can be high and peak power pressure is acute, systems that also feature natural gas and CHP infrastructure are more likely to adopt thermally driven cooling as a system-optimization tool. Overall, incremental growth is most likely to come from three project types: new builds and expansions of campus-scale energy plants and district cooling networks, industrial waste-heat retrofit programs, and integrated energy projects coupled with CHP or boiler plants, which together drive regional differences in demand intensity and product mix.

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

This Insight Report provides a comprehensive analysis of the global Absorption Chillers 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 Absorption Chillers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Absorption Chillers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Absorption Chillers and breaks down the forecast by Effect, 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 Absorption Chillers.

This report presents a comprehensive overview, market shares, and growth opportunities of Absorption Chillers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Effect:

Single-Effect

Double-Effect

Multi-Effect

Segmentation by Working Pair:

Lithium Bromide?Water

Ammonia?Water (NH₃?H₂O)

Segmentation by Driving Heat Source:

Steam-Fired

Hot-Water-Fired

Direct-Fired

Exhaust/Flue-Gas Waste Heat

Multiple Heat Sources

Segmentation by Application:

District Cooling Network

Single-Facility Comfort Cooling

Industrial Process Cooling

Low-Temperature Refrigeration/Freezing

End-Use Cooling + Heating Delivery

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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.

Johnson Controls (YORK?)

Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group)

Yazaki Corporation

Hitachi

LG Electronics

EBARA Corporation

Thermax Limited

BROAD Group

Shuangliang Eco-Energy Systems / Shuangliang International

Hope Deepblue Air Conditioning Manufacture Corp., Ltd.

Sonyo Refrigeration (Dalian) Co., Ltd.

Shanghai Shenglin M&E Technology Co., Ltd.

World Energy Co., Ltd.

Trane

Carrier

Key Questions Addressed in this Report

What is the 10-year outlook for the global Absorption Chillers market?

What factors are driving Absorption Chillers market growth, globally and by region?

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

How do Absorption Chillers market opportunities vary by end market size?

How does Absorption Chillers break out by Effect, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Absorption Chillers Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Absorption Chillers by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Absorption Chillers by Country/Region, 2021, 2025 & 2032
- 2.2 Absorption Chillers Segment by Effect
 - 2.2.1 Single-Effect
 - 2.2.2 Double-Effect
 - 2.2.3 Multi-Effect
 - 2.2.4 Absorption Chillers Sales by Effect
 - 2.2.4.1 Global Absorption Chillers Sales Market Share by Effect (2021-2026)
 - 2.2.4.2 Global Absorption Chillers Revenue and Market Share by Effect (2021-2026)
 - 2.2.4.3 Global Absorption Chillers Sale Price by Effect (2021-2026)
- 2.3 Absorption Chillers Segment by Working Pair
 - 2.3.1 Lithium Bromide?Water
 - 2.3.2 Ammonia?Water (NH??H?O)
 - 2.3.3 Absorption Chillers Sales by Working Pair
 - 2.3.3.1 Global Absorption Chillers Sales Market Share by Working Pair (2021-2026)
 - 2.3.3.2 Global Absorption Chillers Revenue and Market Share by Working Pair (2021-2026)
 - 2.3.3.3 Global Absorption Chillers Sale Price by Working Pair (2021-2026)
- 2.4 Absorption Chillers Segment by Driving Heat Source
 - 2.4.1 Steam-Fired

2.4.2 Hot-Water-Fired

2.4.3 Direct-Fired

2.4.4 Exhaust/Flue-Gas Waste Heat

2.4.5 Multiple Heat Sources

2.4.6 Absorption Chillers Sales by Driving Heat Source

2.4.6.1 Global Absorption Chillers Sales Market Share by Driving Heat Source (2021-2026)

2.4.6.2 Global Absorption Chillers Revenue and Market Share by Driving Heat Source (2021-2026)

2.4.6.3 Global Absorption Chillers Sale Price by Driving Heat Source (2021-2026)

2.5 Absorption Chillers Segment by Application

2.5.1 District Cooling Network

2.5.2 Single-Facility Comfort Cooling

2.5.3 Industrial Process Cooling

2.5.4 Low-Temperature Refrigeration/Freezing

2.5.5 End-Use Cooling + Heating Delivery

2.5.6 Absorption Chillers Sales by Application

2.5.6.1 Global Absorption Chillers Sale Market Share by Application (2021-2026)

2.5.6.2 Global Absorption Chillers Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Absorption Chillers Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Absorption Chillers Breakdown Data by Company

3.1.1 Global Absorption Chillers Annual Sales by Company (2021-2026)

3.1.2 Global Absorption Chillers Sales Market Share by Company (2021-2026)

3.2 Global Absorption Chillers Annual Revenue by Company (2021-2026)

3.2.1 Global Absorption Chillers Revenue by Company (2021-2026)

3.2.2 Global Absorption Chillers Revenue Market Share by Company (2021-2026)

3.3 Global Absorption Chillers Sale Price by Company

3.4 Key Manufacturers Absorption Chillers Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Absorption Chillers Product Location Distribution

3.4.2 Players Absorption Chillers Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ABSORPTION CHILLERS BY GEOGRAPHIC REGION

- 4.1 World Historic Absorption Chillers Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Absorption Chillers Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Absorption Chillers Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Absorption Chillers Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Absorption Chillers Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Absorption Chillers Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Absorption Chillers Sales Growth
- 4.4 APAC Absorption Chillers Sales Growth
- 4.5 Europe Absorption Chillers Sales Growth
- 4.6 Middle East & Africa Absorption Chillers Sales Growth

5 AMERICAS

- 5.1 Americas Absorption Chillers Sales by Country
 - 5.1.1 Americas Absorption Chillers Sales by Country (2021-2026)
 - 5.1.2 Americas Absorption Chillers Revenue by Country (2021-2026)
- 5.2 Americas Absorption Chillers Sales by Effect (2021-2026)
- 5.3 Americas Absorption Chillers Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Absorption Chillers Sales by Region
 - 6.1.1 APAC Absorption Chillers Sales by Region (2021-2026)
 - 6.1.2 APAC Absorption Chillers Revenue by Region (2021-2026)
- 6.2 APAC Absorption Chillers Sales by Effect (2021-2026)
- 6.3 APAC Absorption Chillers Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia

- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Absorption Chillers by Country
 - 7.1.1 Europe Absorption Chillers Sales by Country (2021-2026)
 - 7.1.2 Europe Absorption Chillers Revenue by Country (2021-2026)
- 7.2 Europe Absorption Chillers Sales by Effect (2021-2026)
- 7.3 Europe Absorption Chillers Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Absorption Chillers by Country
 - 8.1.1 Middle East & Africa Absorption Chillers Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Absorption Chillers Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Absorption Chillers Sales by Effect (2021-2026)
- 8.3 Middle East & Africa Absorption Chillers Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Absorption Chillers

10.3 Manufacturing Process Analysis of Absorption Chillers

10.4 Industry Chain Structure of Absorption Chillers

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Absorption Chillers Distributors

11.3 Absorption Chillers Customer

12 WORLD FORECAST REVIEW FOR ABSORPTION CHILLERS BY GEOGRAPHIC REGION

12.1 Global Absorption Chillers Market Size Forecast by Region

12.1.1 Global Absorption Chillers Forecast by Region (2027-2032)

12.1.2 Global Absorption Chillers Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Absorption Chillers Forecast by Effect (2027-2032)

12.7 Global Absorption Chillers Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Johnson Controls (YORK?)

13.1.1 Johnson Controls (YORK?) Company Information

13.1.2 Johnson Controls (YORK?) Absorption Chillers Product Portfolios and Specifications

13.1.3 Johnson Controls (YORK?) Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Johnson Controls (YORK?) Main Business Overview

13.1.5 Johnson Controls (YORK?) Latest Developments

13.2 Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group)

13.2.1 Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Company Information

13.2.2 Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Absorption

Chillers Product Portfolios and Specifications

13.2.3 Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Main Business Overview

13.2.5 Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Latest Developments

13.3 Yazaki Corporation

13.3.1 Yazaki Corporation Company Information

13.3.2 Yazaki Corporation Absorption Chillers Product Portfolios and Specifications

13.3.3 Yazaki Corporation Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Yazaki Corporation Main Business Overview

13.3.5 Yazaki Corporation Latest Developments

13.4 Hitachi

13.4.1 Hitachi Company Information

13.4.2 Hitachi Absorption Chillers Product Portfolios and Specifications

13.4.3 Hitachi Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Hitachi Main Business Overview

13.4.5 Hitachi Latest Developments

13.5 LG Electronics

13.5.1 LG Electronics Company Information

13.5.2 LG Electronics Absorption Chillers Product Portfolios and Specifications

13.5.3 LG Electronics Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 LG Electronics Main Business Overview

13.5.5 LG Electronics Latest Developments

13.6 EBARA Corporation

13.6.1 EBARA Corporation Company Information

13.6.2 EBARA Corporation Absorption Chillers Product Portfolios and Specifications

13.6.3 EBARA Corporation Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 EBARA Corporation Main Business Overview

13.6.5 EBARA Corporation Latest Developments

13.7 Thermax Limited

13.7.1 Thermax Limited Company Information

13.7.2 Thermax Limited Absorption Chillers Product Portfolios and Specifications

13.7.3 Thermax Limited Absorption Chillers Sales, Revenue, Price and Gross Margin

(2021-2026)

13.7.4 Thermax Limited Main Business Overview

13.7.5 Thermax Limited Latest Developments

13.8 BROAD Group

13.8.1 BROAD Group Company Information

13.8.2 BROAD Group Absorption Chillers Product Portfolios and Specifications

13.8.3 BROAD Group Absorption Chillers Sales, Revenue, Price and Gross Margin

(2021-2026)

13.8.4 BROAD Group Main Business Overview

13.8.5 BROAD Group Latest Developments

13.9 Shuangliang Eco-Energy Systems / Shuangliang International

13.9.1 Shuangliang Eco-Energy Systems / Shuangliang International Company Information

13.9.2 Shuangliang Eco-Energy Systems / Shuangliang International Absorption Chillers Product Portfolios and Specifications

13.9.3 Shuangliang Eco-Energy Systems / Shuangliang International Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Shuangliang Eco-Energy Systems / Shuangliang International Main Business Overview

13.9.5 Shuangliang Eco-Energy Systems / Shuangliang International Latest Developments

13.10 Hope Deepblue Air Conditioning Manufacture Corp., Ltd.

13.10.1 Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Company Information

13.10.2 Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Absorption Chillers Product Portfolios and Specifications

13.10.3 Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Main Business Overview

13.10.5 Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Latest Developments

13.11 Sonyo Refrigeration (Dalian) Co., Ltd.

13.11.1 Sonyo Refrigeration (Dalian) Co., Ltd. Company Information

13.11.2 Sonyo Refrigeration (Dalian) Co., Ltd. Absorption Chillers Product Portfolios and Specifications

13.11.3 Sonyo Refrigeration (Dalian) Co., Ltd. Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Sonyo Refrigeration (Dalian) Co., Ltd. Main Business Overview

13.11.5 Sonyo Refrigeration (Dalian) Co., Ltd. Latest Developments

13.12 Shanghai Shenglin M&E Technology Co., Ltd.

13.12.1 Shanghai Shenglin M&E Technology Co., Ltd. Company Information

13.12.2 Shanghai Shenglin M&E Technology Co., Ltd. Absorption Chillers Product Portfolios and Specifications

13.12.3 Shanghai Shenglin M&E Technology Co., Ltd. Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Shanghai Shenglin M&E Technology Co., Ltd. Main Business Overview

13.12.5 Shanghai Shenglin M&E Technology Co., Ltd. Latest Developments

13.13 World Energy Co., Ltd.

13.13.1 World Energy Co., Ltd. Company Information

13.13.2 World Energy Co., Ltd. Absorption Chillers Product Portfolios and Specifications

13.13.3 World Energy Co., Ltd. Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 World Energy Co., Ltd. Main Business Overview

13.13.5 World Energy Co., Ltd. Latest Developments

13.14 Trane

13.14.1 Trane Company Information

13.14.2 Trane Absorption Chillers Product Portfolios and Specifications

13.14.3 Trane Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Trane Main Business Overview

13.14.5 Trane Latest Developments

13.15 Carrier

13.15.1 Carrier Company Information

13.15.2 Carrier Absorption Chillers Product Portfolios and Specifications

13.15.3 Carrier Absorption Chillers Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Carrier Main Business Overview

13.15.5 Carrier Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Absorption Chillers Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Absorption Chillers Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Single-Effect
- Table 4. Major Players of Double-Effect
- Table 5. Major Players of Multi-Effect
- Table 6. Global Absorption Chillers Sales by Effect (2021-2026) & (K Units)
- Table 7. Global Absorption Chillers Sales Market Share by Effect (2021-2026)
- Table 8. Global Absorption Chillers Revenue by Effect (2021-2026) & (\$ million)
- Table 9. Global Absorption Chillers Revenue Market Share by Effect (2021-2026)
- Table 10. Global Absorption Chillers Sale Price by Effect (2021-2026) & (USD/Unit)
- Table 11. Major Players of Lithium Bromide?Water
- Table 12. Major Players of Ammonia?Water (NH??H?O)
- Table 13. Global Absorption Chillers Sales by Working Pair (2021-2026) & (K Units)
- Table 14. Global Absorption Chillers Sales Market Share by Working Pair (2021-2026)
- Table 15. Global Absorption Chillers Revenue by Working Pair (2021-2026) & (\$ million)
- Table 16. Global Absorption Chillers Revenue Market Share by Working Pair (2021-2026)
- Table 17. Global Absorption Chillers Sale Price by Working Pair (2021-2026) & (USD/Unit)
- Table 18. Major Players of Steam-Fired
- Table 19. Major Players of Hot-Water-Fired
- Table 20. Major Players of Direct-Fired
- Table 21. Major Players of Exhaust/Flue-Gas Waste Heat
- Table 22. Major Players of Multiple Heat Sources
- Table 23. Global Absorption Chillers Sales by Driving Heat Source (2021-2026) & (K Units)
- Table 24. Global Absorption Chillers Sales Market Share by Driving Heat Source (2021-2026)
- Table 25. Global Absorption Chillers Revenue by Driving Heat Source (2021-2026) & (\$ million)
- Table 26. Global Absorption Chillers Revenue Market Share by Driving Heat Source (2021-2026)
- Table 27. Global Absorption Chillers Sale Price by Driving Heat Source (2021-2026) &

(USD/Unit)

Table 28. Global Absorption Chillers Sale by Application (2021-2026) & (K Units)

Table 29. Global Absorption Chillers Sale Market Share by Application (2021-2026)

Table 30. Global Absorption Chillers Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Absorption Chillers Revenue Market Share by Application (2021-2026)

Table 32. Global Absorption Chillers Sale Price by Application (2021-2026) & (USD/Unit)

Table 33. Global Absorption Chillers Sales by Company (2021-2026) & (K Units)

Table 34. Global Absorption Chillers Sales Market Share by Company (2021-2026)

Table 35. Global Absorption Chillers Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Absorption Chillers Revenue Market Share by Company (2021-2026)

Table 37. Global Absorption Chillers Sale Price by Company (2021-2026) & (USD/Unit)

Table 38. Key Manufacturers Absorption Chillers Producing Area Distribution and Sales Area

Table 39. Players Absorption Chillers Products Offered

Table 40. Absorption Chillers Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Absorption Chillers Sales by Geographic Region (2021-2026) & (K Units)

Table 44. Global Absorption Chillers Sales Market Share Geographic Region (2021-2026)

Table 45. Global Absorption Chillers Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Absorption Chillers Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Absorption Chillers Sales by Country/Region (2021-2026) & (K Units)

Table 48. Global Absorption Chillers Sales Market Share by Country/Region (2021-2026)

Table 49. Global Absorption Chillers Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Absorption Chillers Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Absorption Chillers Sales by Country (2021-2026) & (K Units)

Table 52. Americas Absorption Chillers Sales Market Share by Country (2021-2026)

Table 53. Americas Absorption Chillers Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Absorption Chillers Sales by Effect (2021-2026) & (K Units)

Table 55. Americas Absorption Chillers Sales by Application (2021-2026) & (K Units)

Table 56. APAC Absorption Chillers Sales by Region (2021-2026) & (K Units)

Table 57. APAC Absorption Chillers Sales Market Share by Region (2021-2026)

Table 58. APAC Absorption Chillers Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Absorption Chillers Sales by Effect (2021-2026) & (K Units)

Table 60. APAC Absorption Chillers Sales by Application (2021-2026) & (K Units)

Table 61. Europe Absorption Chillers Sales by Country (2021-2026) & (K Units)

Table 62. Europe Absorption Chillers Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Absorption Chillers Sales by Effect (2021-2026) & (K Units)

Table 64. Europe Absorption Chillers Sales by Application (2021-2026) & (K Units)

Table 65. Middle East & Africa Absorption Chillers Sales by Country (2021-2026) & (K Units)

Table 66. Middle East & Africa Absorption Chillers Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Absorption Chillers Sales by Effect (2021-2026) & (K Units)

Table 68. Middle East & Africa Absorption Chillers Sales by Application (2021-2026) & (K Units)

Table 69. Key Market Drivers & Growth Opportunities of Absorption Chillers

Table 70. Key Market Challenges & Risks of Absorption Chillers

Table 71. Key Industry Trends of Absorption Chillers

Table 72. Absorption Chillers Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. Absorption Chillers Distributors List

Table 75. Absorption Chillers Customer List

Table 76. Global Absorption Chillers Sales Forecast by Region (2027-2032) & (K Units)

Table 77. Global Absorption Chillers Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas Absorption Chillers Sales Forecast by Country (2027-2032) & (K Units)

Table 79. Americas Absorption Chillers Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC Absorption Chillers Sales Forecast by Region (2027-2032) & (K Units)

Table 81. APAC Absorption Chillers Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe Absorption Chillers Sales Forecast by Country (2027-2032) & (K Units)

Table 83. Europe Absorption Chillers Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa Absorption Chillers Sales Forecast by Country (2027-2032) & (K Units)

Table 85. Middle East & Africa Absorption Chillers Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global Absorption Chillers Sales Forecast by Effect (2027-2032) & (K Units)

Table 87. Global Absorption Chillers Revenue Forecast by Effect (2027-2032) & (\$ millions)

Table 88. Global Absorption Chillers Sales Forecast by Application (2027-2032) & (K Units)

Table 89. Global Absorption Chillers Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Johnson Controls (YORK?) Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 91. Johnson Controls (YORK?) Absorption Chillers Product Portfolios and Specifications

Table 92. Johnson Controls (YORK?) Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 93. Johnson Controls (YORK?) Main Business

Table 94. Johnson Controls (YORK?) Latest Developments

Table 95. Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 96. Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Absorption Chillers Product Portfolios and Specifications

Table 97. Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 98. Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Main Business

Table 99. Kawasaki Thermal Engineering (Kawasaki Heavy Industries Group) Latest Developments

Table 100. Yazaki Corporation Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 101. Yazaki Corporation Absorption Chillers Product Portfolios and Specifications

Table 102. Yazaki Corporation Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 103. Yazaki Corporation Main Business

Table 104. Yazaki Corporation Latest Developments

Table 105. Hitachi Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 106. Hitachi Absorption Chillers Product Portfolios and Specifications

Table 107. Hitachi Absorption Chillers Sales (K Units), Revenue (\$ Million), Price

(USD/Unit) and Gross Margin (2021-2026)

Table 108. Hitachi Main Business

Table 109. Hitachi Latest Developments

Table 110. LG Electronics Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 111. LG Electronics Absorption Chillers Product Portfolios and Specifications

Table 112. LG Electronics Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 113. LG Electronics Main Business

Table 114. LG Electronics Latest Developments

Table 115. EBARA Corporation Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 116. EBARA Corporation Absorption Chillers Product Portfolios and Specifications

Table 117. EBARA Corporation Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 118. EBARA Corporation Main Business

Table 119. EBARA Corporation Latest Developments

Table 120. Thermax Limited Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 121. Thermax Limited Absorption Chillers Product Portfolios and Specifications

Table 122. Thermax Limited Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 123. Thermax Limited Main Business

Table 124. Thermax Limited Latest Developments

Table 125. BROAD Group Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 126. BROAD Group Absorption Chillers Product Portfolios and Specifications

Table 127. BROAD Group Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 128. BROAD Group Main Business

Table 129. BROAD Group Latest Developments

Table 130. Shuangliang Eco-Energy Systems / Shuangliang International Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 131. Shuangliang Eco-Energy Systems / Shuangliang International Absorption Chillers Product Portfolios and Specifications

Table 132. Shuangliang Eco-Energy Systems / Shuangliang International Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 133. Shuangliang Eco-Energy Systems / Shuangliang International Main Business

Table 134. Shuangliang Eco-Energy Systems / Shuangliang International Latest Developments

Table 135. Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 136. Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Absorption Chillers Product Portfolios and Specifications

Table 137. Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 138. Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Main Business

Table 139. Hope Deepblue Air Conditioning Manufacture Corp., Ltd. Latest Developments

Table 140. Sonyo Refrigeration (Dalian) Co., Ltd. Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 141. Sonyo Refrigeration (Dalian) Co., Ltd. Absorption Chillers Product Portfolios and Specifications

Table 142. Sonyo Refrigeration (Dalian) Co., Ltd. Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 143. Sonyo Refrigeration (Dalian) Co., Ltd. Main Business

Table 144. Sonyo Refrigeration (Dalian) Co., Ltd. Latest Developments

Table 145. Shanghai Shenglin M&E Technology Co., Ltd. Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 146. Shanghai Shenglin M&E Technology Co., Ltd. Absorption Chillers Product Portfolios and Specifications

Table 147. Shanghai Shenglin M&E Technology Co., Ltd. Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 148. Shanghai Shenglin M&E Technology Co., Ltd. Main Business

Table 149. Shanghai Shenglin M&E Technology Co., Ltd. Latest Developments

Table 150. World Energy Co., Ltd. Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 151. World Energy Co., Ltd. Absorption Chillers Product Portfolios and Specifications

Table 152. World Energy Co., Ltd. Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 153. World Energy Co., Ltd. Main Business

Table 154. World Energy Co., Ltd. Latest Developments

Table 155. Trane Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 156. Trane Absorption Chillers Product Portfolios and Specifications

Table 157. Trane Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 158. Trane Main Business

Table 159. Trane Latest Developments

Table 160. Carrier Basic Information, Absorption Chillers Manufacturing Base, Sales Area and Its Competitors

Table 161. Carrier Absorption Chillers Product Portfolios and Specifications

Table 162. Carrier Absorption Chillers Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 163. Carrier Main Business

Table 164. Carrier Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Absorption Chillers
- Figure 2. Absorption Chillers Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Absorption Chillers Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Absorption Chillers Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Absorption Chillers Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Absorption Chillers Sales Market Share by Country/Region (2025)
- Figure 10. Absorption Chillers Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Single-Effect
- Figure 12. Product Picture of Double-Effect
- Figure 13. Product Picture of Multi-Effect
- Figure 14. Global Absorption Chillers Sales Market Share by Effect in 2026
- Figure 15. Global Absorption Chillers Revenue Market Share by Effect (2021-2026)
- Figure 16. Product Picture of Lithium Bromide?Water
- Figure 17. Product Picture of Ammonia?Water (NH??H?O)
- Figure 18. Global Absorption Chillers Sales Market Share by Working Pair in 2026
- Figure 19. Global Absorption Chillers Revenue Market Share by Working Pair (2021-2026)
- Figure 20. Product Picture of Steam-Fired
- Figure 21. Product Picture of Hot-Water-Fired
- Figure 22. Product Picture of Direct-Fired
- Figure 23. Product Picture of Exhaust/Flue-Gas Waste Heat
- Figure 24. Product Picture of Multiple Heat Sources
- Figure 25. Global Absorption Chillers Sales Market Share by Driving Heat Source in 2026
- Figure 26. Global Absorption Chillers Revenue Market Share by Driving Heat Source (2021-2026)
- Figure 27. Absorption Chillers Consumed in District Cooling Network
- Figure 28. Global Absorption Chillers Market: District Cooling Network (2021-2026) & (K Units)
- Figure 29. Absorption Chillers Consumed in Single-Facility Comfort Cooling

Figure 30. Global Absorption Chillers Market: Single-Facility Comfort Cooling (2021-2026) & (K Units)

Figure 31. Absorption Chillers Consumed in Industrial Process Cooling

Figure 32. Global Absorption Chillers Market: Industrial Process Cooling (2021-2026) & (K Units)

Figure 33. Absorption Chillers Consumed in Low-Temperature Refrigeration/Freezing

Figure 34. Global Absorption Chillers Market: Low-Temperature Refrigeration/Freezing (2021-2026) & (K Units)

Figure 35. Absorption Chillers Consumed in End-Use Cooling + Heating Delivery

Figure 36. Global Absorption Chillers Market: End-Use Cooling + Heating Delivery (2021-2026) & (K Units)

Figure 37. Global Absorption Chillers Sale Market Share by Application (2025)

Figure 38. Global Absorption Chillers Revenue Market Share by Application in 2025

Figure 39. Absorption Chillers Sales by Company in 2025 (K Units)

Figure 40. Global Absorption Chillers Sales Market Share by Company in 2025

Figure 41. Absorption Chillers Revenue by Company in 2025 (\$ millions)

Figure 42. Global Absorption Chillers Revenue Market Share by Company in 2025

Figure 43. Global Absorption Chillers Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global Absorption Chillers Revenue Market Share by Geographic Region in 2025

Figure 45. Americas Absorption Chillers Sales 2021-2026 (K Units)

Figure 46. Americas Absorption Chillers Revenue 2021-2026 (\$ millions)

Figure 47. APAC Absorption Chillers Sales 2021-2026 (K Units)

Figure 48. APAC Absorption Chillers Revenue 2021-2026 (\$ millions)

Figure 49. Europe Absorption Chillers Sales 2021-2026 (K Units)

Figure 50. Europe Absorption Chillers Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa Absorption Chillers Sales 2021-2026 (K Units)

Figure 52. Middle East & Africa Absorption Chillers Revenue 2021-2026 (\$ millions)

Figure 53. Americas Absorption Chillers Sales Market Share by Country in 2025

Figure 54. Americas Absorption Chillers Revenue Market Share by Country (2021-2026)

Figure 55. Americas Absorption Chillers Sales Market Share by Effect (2021-2026)

Figure 56. Americas Absorption Chillers Sales Market Share by Application (2021-2026)

Figure 57. United States Absorption Chillers Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada Absorption Chillers Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico Absorption Chillers Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil Absorption Chillers Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC Absorption Chillers Sales Market Share by Region in 2025

- Figure 62. APAC Absorption Chillers Revenue Market Share by Region (2021-2026)
- Figure 63. APAC Absorption Chillers Sales Market Share by Effect (2021-2026)
- Figure 64. APAC Absorption Chillers Sales Market Share by Application (2021-2026)
- Figure 65. China Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Japan Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 67. South Korea Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Southeast Asia Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 69. India Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Australia Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 71. China Taiwan Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Europe Absorption Chillers Sales Market Share by Country in 2025
- Figure 73. Europe Absorption Chillers Revenue Market Share by Country (2021-2026)
- Figure 74. Europe Absorption Chillers Sales Market Share by Effect (2021-2026)
- Figure 75. Europe Absorption Chillers Sales Market Share by Application (2021-2026)
- Figure 76. Germany Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 77. France Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 78. UK Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Italy Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Russia Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Middle East & Africa Absorption Chillers Sales Market Share by Country (2021-2026)
- Figure 82. Middle East & Africa Absorption Chillers Sales Market Share by Effect (2021-2026)
- Figure 83. Middle East & Africa Absorption Chillers Sales Market Share by Application (2021-2026)
- Figure 84. Egypt Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 85. South Africa Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Israel Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Turkey Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 88. GCC Countries Absorption Chillers Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Manufacturing Cost Structure Analysis of Absorption Chillers in 2026
- Figure 90. Manufacturing Process Analysis of Absorption Chillers
- Figure 91. Industry Chain Structure of Absorption Chillers
- Figure 92. Channels of Distribution
- Figure 93. Global Absorption Chillers Sales Market Forecast by Region (2027-2032)
- Figure 94. Global Absorption Chillers Revenue Market Share Forecast by Region (2027-2032)
- Figure 95. Global Absorption Chillers Sales Market Share Forecast by Effect (2027-2032)

Figure 96. Global Absorption Chillers Revenue Market Share Forecast by Effect
(2027-2032)

Figure 97. Global Absorption Chillers Sales Market Share Forecast by Application
(2027-2032)

Figure 98. Global Absorption Chillers Revenue Market Share Forecast by Application
(2027-2032)

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