

Global Sorption Coolers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Sorption Coolers market size was valued at US\$ 1204 million in 2025 and is forecast to a readjusted size of US\$ 1807 million by 2032 with a CAGR of 6.0% during review period.

In 2025, global Sorption Cooler output reached about 450,000 units and global capacity of around 600,000 units units. The average price is about USD 2,600 per unit, with gross margins near 31%. Sorption Coolers are thermally driven refrigeration systems that use a sorption process?either absorption (liquid refrigerant absorbed into a solution, such as water?lithium bromide or ammonia?water) or adsorption (refrigerant vapor adsorbed onto a solid material like silica gel or zeolite)?to produce cooling without mechanical compressors, typically powered by waste heat, solar thermal energy, or gas burners. The supply chain begins upstream with raw materials and functional media (refrigerants, adsorbents, specialty salts, porous materials), along with heat exchanger materials (copper, aluminum, stainless steel); midstream includes core component manufacturing such as generators, absorbers/adsorbers, evaporators, condensers, vacuum vessels, and control systems, followed by system integration by HVAC and thermal engineering companies; downstream, sorption coolers are deployed in commercial buildings (district cooling, hotels, hospitals), industrial processes (waste heat recovery), renewable energy systems (solar cooling), and off-grid or low-electricity applications, with service providers handling installation, maintenance, and system optimization.

This report is a detailed and comprehensive analysis for global Sorption Coolers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this

report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Sorption Coolers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Sorption Coolers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Sorption Coolers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Sorption Coolers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Sorption Coolers

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Sorption Coolers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Carrier Global (USA), Trane Technologies (USA), Johnson Controls (USA), Daikin Industries (Japan), LG Electronics (South Korea), Thermax (India), Kirloskar Pneumatic (India), Robur (Italy), Aermec (Italy), Yazaki Energy Systems (Japan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Sorption Coolers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Single-Effect Coolers

- Double-Effect Coolers

- Triple-Effect Coolers

Market segment by Cooling Capacity

- Small-scale (500 kW)

Market segment by Application

- Commercial Buildings

- Industrial Facilities

- Energy & Power

- Telecom & Data Centers

- Transportation

- Others

Major players covered

Carrier Global (USA)

Trane Technologies (USA)

Johnson Controls (USA)

Daikin Industries (Japan)

LG Electronics (South Korea)

Thermax (India)

Kirloskar Pneumatic (India)

Robur (Italy)

Aermec (Italy)

Yazaki Energy Systems (Japan)

Hitachi (Japan)

Panasonic (Japan)

Broad Group (China)

Shuangliang Eco-Energy (China)

Shenzhen Shenling (China)

TICA Climate Solutions (China)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Sorption Coolers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Sorption Coolers, with price, sales quantity, revenue, and global market share of Sorption Coolers from 2021 to 2026.

Chapter 3, the Sorption Coolers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Sorption Coolers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Sorption Coolers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of

Sorption Coolers.

Chapter 14 and 15, to describe Sorption Coolers sales channel, distributors, customers, research findings and conclusion.

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