

Global Sorption Coolers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sorption Coolers market size is expected to reach \$ 1807 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, global Sorption Cooler output reached about 450,000 units and global capacity of around 600,000 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 studies the global Sorption Coolers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Sorption Coolers total production and demand, 2021-2032, (K Units)

Global Sorption Coolers total production value, 2021-2032, (USD Million)

Global Sorption Coolers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Sorption Coolers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Sorption Coolers domestic production, consumption, key domestic manufacturers and share

Global Sorption Coolers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Sorption Coolers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Sorption Coolers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Sorption Coolers 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Sorption Coolers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Sorption Coolers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sorption Coolers Market, Segmentation by Type:

Single-Effect Coolers

Double-Effect Coolers

Triple-Effect Coolers

Global Sorption Coolers Market, Segmentation by Cooling Capacity:

Small-scale (500 kW)

Global Sorption Coolers Market, Segmentation by Application:

Commercial Buildings

Industrial Facilities

Energy & Power

Telecom & Data Centers

Transportation

Others

Companies Profiled:

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)

Key Questions Answered:

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

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