

# Global Sorption Coolers Market Growth 2026-2032

<https://marketpublishers.com/r/GD7DD5CA4696EN.html>

Date: July 2026

Pages: 133

Price: US\$ 3,660.00 (Single User License)

ID: GD7DD5CA4696EN

## Abstracts

The global Sorption Coolers market size is predicted to grow from US\$ 1145 million in 2025 to US\$ 1754 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 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.

United States market for Sorption Coolers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Sorption Coolers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Sorption Coolers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Sorption Coolers players cover Carrier Global (USA), Trane Technologies (USA), Johnson Controls (USA), Daikin Industries (Japan), LG Electronics (South Korea), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Sorption Coolers and breaks down the forecast by Type, 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 Sorption Coolers.

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

Segmentation by Type:

Single-Effect Coolers

Double-Effect Coolers

## Triple-Effect Coolers

### Segmentation by Cooling Capacity:

Small-scale (500 kW)

### Segmentation by Application:

Commercial Buildings

Industrial Facilities

Energy & Power

Telecom & Data Centers

Transportation

Others

### 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.

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 Addressed in this Report

What is the 10-year outlook for the global Sorption Coolers market?

What factors are driving Sorption Coolers market growth, globally and by region?

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

How do Sorption Coolers market opportunities vary by end market size?

How does Sorption Coolers break out by Type, by Application?

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