

South & Central America Industrial Refrigeration Equipment Market Forecast to 2030 – Regional Analysis – by Type (Mechanical-Compression Refrigeration Systems, Evaporative Cooling, Absorption, Thermoelectric); Refrigerant Type (Ammonia – R717, Carbon dioxide (CO₂) – R744, Hydrocarbons – HCs); and Application (Food and Beverages, Pharmaceutical, Chemical and Petrochemical, District Cooling, Data Centres, Electricity Production, and Others)

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Abstracts

The South & Central America industrial refrigeration equipment market is expected to grow from US\$ 626.74 million in 2022 to US\$ 936.48 million by 2030. It is estimated to grow at a CAGR of 5.1% from 2022 to 2030.

Growing Popularity of CO₂ and NH₃-based Systems Fuels South & Central America Industrial Refrigeration Equipment Market

Natural refrigerants are being adopted for their environmental benefits, energy efficiency, and regulatory compliance. CO₂ (carbon dioxide) and NH₃ (ammonia)-based systems are considered natural refrigerants with low Global Warming Potential (GWP) compared to synthetic refrigerants such as HFCs. As environmental regulations become strict, industries are adopting more environmentally friendly solutions to reduce their carbon footprint and comply with regulations such as the Montreal Protocol. CO₂ and NH₃-based systems are known for their excellent thermodynamic properties, thereby

offering high energy efficiency. These systems can operate effectively across a wide range of temperatures, making them suitable for various industrial applications, such as cold storage, food processing, and petrochemical industries. Also, CO₂ and NH₃ have good heat transfer properties, enabling them to achieve effective cooling and freezing processes. The use of properly designed and maintained systems with these refrigerants can offer safe operation.

Furthermore, industry associations, governments, and organizations are actively promoting the adoption of natural refrigerants. They provide resources, training, and best practices to help industries successfully transition to CO₂ and NH₃-based systems. Hence, the growing popularity of CO₂ and NH₃-based systems is likely to generate lucrative opportunities for the industrial refrigeration equipment market growth during the forecast period.

South & Central America Industrial Refrigeration Equipment Market Overview

South America is known for its agricultural and food production. As the population grows and urbanization accelerates, the demand for processed and frozen foods increases. Industrial refrigeration equipment is essential for preserving these perishable products' freshness, quality, and safety throughout the supply chain. Many South American countries export agricultural products, including fruits, vegetables, seafood, and meat. Efficient industrial refrigeration systems are necessary to meet international standards and ensure product quality during transport. According to Encyclopedia Britannica, Inc., South America's major exports are mostly primary commodities, including foodstuffs and fuels, plant products, and raw materials. The first group's most important commodities are sugar, beef, bananas, cocoa, coffee, tobacco, corn, and wheat. Also, consumers are becoming more health-conscious and seeking fresh, minimally processed foods. This trend is driving the demand for refrigerated storage and display solutions in supermarkets, convenience stores, and food service outlets.

South & Central America Industrial Refrigeration Equipment Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Industrial Refrigeration Equipment Market Segmentation

The South & Central America industrial refrigeration equipment market is segmented into type, refrigerant type, application, and country.

Based on type, the South & Central America industrial refrigeration equipment market is

segmented into mechanical-compression refrigeration systems, evaporative cooling, absorption, thermoelectric. The mechanical-compression refrigeration systems segment registered the largest South & Central America industrial refrigeration equipment market share in 2022.

Based on refrigerant type, the South & Central America industrial refrigeration equipment market is segmented into ammonia – R717, carbon dioxide (CO₂) – R744, and hydrocarbons – HCs. The ammonia – R717 segment held the largest South & Central America industrial refrigeration equipment market share in 2022.

Based on application, the South & Central America industrial refrigeration equipment market is segmented into food and beverages, pharmaceutical, chemical and petrochemical, district cooling, data centres, electricity production, and others. The food and beverages segment held the largest South & Central America industrial refrigeration equipment market share in 2022.

Based on country, the South & Central America industrial refrigeration equipment market has been categorized into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America industrial refrigeration equipment market in 2022.

Johnson Controls International Plc, Danfoss AS, Honeywell International Inc, Evapco Inc, BITZER Kuhlmaschinenbau GmbH, and Carrier Global Corp are some of the leading companies operating in the industrial refrigeration equipment market in the region.

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