

North America Transcritical CO2 Market Forecast to 2030 - Regional Analysis- by Application (Ice Skating Rinks, Food Processing & Storage Facilities, Heat Pumps, Supermarkets & Convenience Stores, and Others) and Function (Air Conditioning, Refrigeration, and Heating)

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Abstracts

The North America transcritical CO2 market is expected to grow from US\$ 8,282.59 million in 2023 to US\$ 26,776.89 million by 2030. It is estimated to grow at a CAGR of 18.2% from 2023 to 2028.

Adoption of Transcritical CO2 Systems in Supermarkets and Convenience Stores Fuel the North America Transcritical CO2 Market

Supermarkets and convenience stores often face consumer scrutiny regarding their environmental impact and sustainability practices. Adopting transcritical CO2 systems allows retailers to showcase their commitment to sustainability and environmental responsibility, improving their brand image and attracting eco-conscious consumers. Consumer demand for environmentally friendly products and services has been increasing, and retailers that embrace transcritical CO2 systems can differentiate themselves in the market and gain a competitive advantage. Moreover, transcritical CO2 systems offer operational flexibility and adaptability to varying ambient conditions. They can effectively operate in both subcritical and transcritical modes, allowing for optimal performance in different climates. The transcritical CO2 system design can be tailored to meet the specific needs of supermarkets and convenience stores, such as different refrigeration loads, store layouts, and product display requirements. The flexibility and customization options of transcritical CO2 systems make them suitable for these retail environments. Thus, all such advantages of transcritical CO2 systems are driving the market further.

North America Transcritical CO2 Market Overview

The transcritical CO2 market in North America is segmented into the US, Canada, and Mexico. Transcritical CO2 system is an environmental-friendly and reliable system under which CO2 is cooled but does not condense at the gas cooler outlet and operates above the critical point. These systems are mainly used for commercial purposes in supermarkets, convenience stores, and other commercial refrigeration applications. These systems are also used for industrial purposes such as food processing, cold storage warehouses, and breweries. These industries need reliable temperature control and energy efficiency, making transcritical CO2 systems a preferred choice.

The increasing concerns regarding environmental sustainability and the phase-out of ozone-depleting substances have driven the demand for transcritical CO2 systems. These systems are known for their low global warming and zero depletion potential, making them an environmentally friendly alternative to traditional refrigerants.

The rise in demand for transcritical CO2 in the ice-making, beer-brewing, and margarine-production industries is one of the key factors anticipated to propel the expansion of the North American transcritical CO2 market in the coming years. Additionally, growing demand for air conditioning and refrigeration applications and the lower operating costs of systems will fuel the regional market growth.

North America Transcritical CO2 Market Revenue and Forecast to 2030 (US\$ Million)

North America Transcritical CO2 Market Segmentation

The North America transcritical CO2 market is segmented into application, function, and country.

Based on application, the North America transcritical CO2 market is segmented into ice skating rinks, food processing & storage facilities, heat pumps, supermarkets & convenience stores, and others. The supermarkets and convenience stores segment held the largest share of the North America transcritical CO2 market in 2023.

Based on function, the North America transcritical CO2 market is segmented into air conditioning, refrigeration, and heating. The refrigeration segment held the largest share of the North America transcritical CO2 market in 2023.

Based on country, the North America transcritical CO2 market is segmented into the US, Canada, and Mexico. The US dominated the North America transcritical CO2 market in 2023.

Baltimore Aircoil Co, BITZER Kuhlmaschinenbau GmbH, Carrier Global Corp, Danfoss AS, Hussmann Corp, Panasonic Holdings Corp, Evapco LMP Inc, and Mayekawa Manufacturing Co Ltd are some of the leading companies operating in the North America transcritical CO2 market.

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