

# Global Transcritical CO2 Systems Market 2023-2029

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## Abstracts

Transcritical CO2 systems are a type of refrigeration system that uses carbon dioxide as a refrigerant. These systems are used in many different industries, including food processing, cold storage, and supermarkets. The transcritical CO2 system works by compressing carbon dioxide at a temperature above its critical point, which is approximately 87.8°F (31°C) and a pressure of 1071 psi (7.4 MPa). At this point, the carbon dioxide becomes a supercritical fluid, which has properties of both a gas and a liquid, allowing it to transfer heat efficiently. The supercritical carbon dioxide is then used to cool the desired space or product. It is then expanded, which lowers its temperature and pressure. This process is repeated, and the supercritical carbon dioxide is compressed again, raising its temperature and pressure. According to the latest data, the market size of the global transcritical CO2 systems sector is expected to rise by USD 70.4 billion with a CAGR of 16.98% by the end of 2029.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global transcritical CO2 systems market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the function, application, and region. The global market for transcritical CO2 systems can be segmented by function: refrigeration, heating, air conditioning. Among these, the refrigeration segment was accounted for the highest revenue generator in 2022. Transcritical CO2 systems market is further segmented by application: retail, heat pumps, food processing and storage facilities, ice skating rinks, automobiles, others. The retail segment is estimated to account for the largest share of the global transcritical CO2 systems market. Based on region, the transcritical CO2

systems market is segmented into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. Europe held the largest share of the global transcritical CO2 systems market in 2022 and is anticipated to hold its share during the forecast period.

#### Market Segmentation

By function: refrigeration, heating, air conditioning

By application: retail, heat pumps, food processing and storage facilities, ice skating rinks, automobiles, others

By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report has also analysed the competitive landscape of the global transcritical CO2 systems market with some of the key players being Bitzer SE, Carrier Corporation, Daikin Industries, Ltd., Danfoss A/S, Dover Corporation, Emerson Electric Co., GEA Group AG, among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

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#### Scope of the Report

To analyze and forecast the market size of the global transcritical CO2 systems market.

To classify and forecast the global transcritical CO2 systems market based on function, application, region.

To identify drivers and challenges for the global transcritical CO2 systems market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global transcritical CO2 systems market.

To identify and analyze the profile of leading players operating in the global transcritical CO2 systems market.

#### Why Choose This Report

Gain a reliable outlook of the global transcritical CO2 systems market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

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Bitzer SE  
Carrier Corporation  
Daikin Industries, Ltd.  
Danfoss A/S  
Dover Corporation  
Emerson Electric Co.  
GEA Group AG

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