

# Transcritical CO<sub>2</sub> Market by Application (Supermarkets, Heat Pumps, Food Processing & Storage Facilities, Ice Skating Rinks), by Geography (Europe, North America, Asia-Pacific) - Global Forecast to 2020

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## Abstracts

The Global Transcritical CO<sub>2</sub> systems market was valued at USD 4.90 billion in 2014, which is expected to reach USD 30.70 billion by 2020, at a CAGR of 40.2% during the forecast period from 2015 to 2020.

Transcritical CO<sub>2</sub> offers a number of functionalities for a variety of applications in various industries, such as supermarkets, food processing & storage facilities, commercial & industrial buildings, etc. Transcritical CO<sub>2</sub> is non-toxic and non-flammable. These performance characteristics, coupled with many other advantages, such as low GWP (1) and zero ODP, have provided transcritical CO<sub>2</sub> with a wide acceptance as materials of choice across various end-use industries.

Europe is the global leader in the consumption of transcritical CO<sub>2</sub>, and this dominance is expected to continue till 2020. Denmark is the key market in this region, which is consuming nearly half of the demand for transcritical CO<sub>2</sub>, followed by the U.K., where the consumption rate is growing steadily. The increase in the consumption of transcritical CO<sub>2</sub> in supermarket refrigeration, heat pumps, food processing & storage facilities, ice skating rinks, hotels & buildings industries has been observed in Europe pertaining to the phase-out of the synthetic refrigerants, such as HCFC (hydrochlorofluorocarbons) and HFC (hydrofluorocarbons). The continuous growth and innovation, along with various industry consolidations, are projected to ascertain a bright future for this market.

Supermarkets and heat pumps are the two major application segments of transcritical CO<sub>2</sub>. Their growth is driven by the sustainability of the transcritical CO<sub>2</sub> technology. Use of transcritical CO<sub>2</sub> helps retailers to reduce energy consumption, thereby helps in increasing their profit margin. Transcritical CO<sub>2</sub> also helps in reducing the maintenance cost of the refrigeration system. The increasing construction spending in emerging economies, such as China and India, is also expected to fuel the demand for transcritical CO<sub>2</sub> over the next few years.

This study estimates the market value for transcritical CO<sub>2</sub> and projects the same for the forecast period of 2015 to 2020. As a part of this quantitative analysis, this study segments the concerned market on the basis of different applications of the transcritical CO<sub>2</sub> market, at country level with the current market estimation and forecast till 2020. The countries covered in this report are China, Japan, Denmark, Germany, Canada, India, the U.S., and the U.K. The segmentation by application includes supermarkets, heat pumps, food processing & storage facility, ice skating rinks, and others. Furthermore, as a part of this qualitative analysis, this research study also provides a comprehensive review of the major market drivers, restraints, opportunities, burning issues, challenges, and key issues in this market. It also includes the company profiling and competitive strategies adopted by different market players, namely, Hill Phoenix Inc. (U.S.), Carrier Commercial Refrigeration (U.S.), Green & Cool World Refrigeration AB (Sweden), and Carnot Refrigeration Inc. (Canada).

The following customization options are available for the report:

Company information

Detailed analysis and profiling of additional market players (Up to 3)

Listing the regulatory issues related to the market for different regions, such as North America, Europe, and so on

Various components used in the transcritical CO<sub>2</sub> systems and comparative analysis of the low-cost sourcing locations

Detailed analysis of cascade CO<sub>2</sub> refrigeration systems and their current market

Impact of technology development on the production and usage of transcritical CO<sub>2</sub> systems

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