

Transcritical Co2 Systems Market by Function (Refrigeration, Heating, Air Conditioning), Application (Supermarkets And Convenience Stores, Heat Pumps, Food Processing & Storage Facilities, Ice Skating Rinks), and Region - Global Forecast to 2023

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Abstracts

The transcritical CO₂ systems market is projected to grow at a CAGR of 17.9% from 2018 to 2023

The transcritical CO₂ systems market is projected to reach USD 61.8 billion by 2023 from USD 27.2 billion in 2018, at a CAGR of 17.9% between 2018 and 2023. The major driving factors for the transcritical CO₂ systems market are low environmental impact of transcritical CO₂ systems, phasing out CFC, HCFC, and HFC refrigerants, increasing demand for refrigeration and air-conditioning applications, and lower operating cost of transcritical CO₂ refrigeration systems.

Based on function, the refrigeration segment is expected to be the largest

Refrigeration is mostly used in supermarkets and convenience stores. Transcritical CO₂ refrigeration has a high safety rating and is non-toxic and non-flammable. Additionally, these systems are used in refrigeration processes due to their high volumetric cooling capacities.

Based on application, supermarkets & convenience stores segment is expected to be the largest application segment

Refrigeration systems account for more than 50% of the total electricity consumption in supermarkets. The use of transcritical CO₂ helps retailers reduce energy consumption

by reducing the maintenance cost of refrigeration systems. Transcritical CO₂ systems operate at higher pressures than other refrigeration systems. Low Ozone-depletion Potential (ODP) and low Global Warming Potential (GWP) of these systems make them preferable in supermarkets in Europe, Australia, and Japan.

Europe is expected to lead the transcritical CO₂ systems market

The Europe transcritical CO₂ systems market is projected to lead the transcritical CO₂ systems market.

The transcritical CO₂ systems market in Europe is expected to witness significant growth on account of the recent F-Gas regulations/HFC phase-out plan which dictates the reduction of use of HFC refrigerants by almost half by 2025. The region also houses the highest number of end user entities, such as Tesco (UK) and Metro AG (Germany) that have already switched to refrigeration systems based on transcritical CO₂ systems.

Profile break-up of primary participants for the report:

By Company Function: Tier 1 – 42 %, Tier 2 – 25%, Tier 3 – 33%

By Designation: C level – 33%, Director level – 22%, Others – 45%

By Region: North America – 50%, Europe – 17%, Asia Pacific – 25%, Middle East & Africa – 5%, and South America – 3%

Research Coverage:

As part of the qualitative analysis, this research study provides a comprehensive review of major market drivers, restraints, opportunities, and challenges. The report defines, describes, and forecasts the transcritical CO₂ systems market based on function, application, and region. It provides a strategic analysis of micromarkets with respect to individual growth trends, prospects, and their contribution to the overall market.

It also discusses the competitive strategies adopted by various market players, such as Carrier Commercial Refrigeration (US), Green & Cool World Refrigeration AB (Sweden), Hillphoenix, Inc. (US), Advansor (Denmark), Danfoss (Denmark), BITZER (Germany), Carnot Refrigeration (Canada), SCM Frigo S.p.A. (Italy), Emerson Climate Technologies (US), Baltimore Aircoil Company (US), Henry Technologies, Inc. (US),

Systemes LMP, Inc. (Canada), Mayekawa Mfg. Co., Ltd. (Japan), and Panasonic (Japan).

Key benefits of buying the report:

From an insight perspective, this research report has focused on various levels of analyses — industry analysis (industry trends), market share analysis of top players, supply chain analysis, and company profiles, which together comprise and discuss the basic views on the competitive landscape, emerging and high-growth segments of the transcritical CO2 systems market, high-growth regions, and market drivers, restraints, and opportunities.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on transcritical CO2 systems offered by top players in the transcritical CO2 systems market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the transcritical CO2 systems market

Market Development: Comprehensive information about lucrative emerging markets – the report analyzes the markets for transcritical CO2 systems across regions

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the transcritical CO2 systems market

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of the leading players in the transcritical CO2 systems market

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 SCOPE OF THE STUDY
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primary interviews
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
- 2.3 DATA TRIANGULATION METHODOLOGY
- 2.4 RESEARCH ASSUMPTIONS
 - 2.4.1 ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN TRANSCRITICAL CO₂ SYSTEMS MARKET
- 4.2 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY REGION
- 4.3 EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION & COUNTRY
- 4.4 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION & REGION
- 4.5 TOP COUNTRIES IN TRANSCRITICAL CO₂ SYSTEMS MARKET

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 EVOLUTION

5.3 TRANSCRITICAL CO₂ SYSTEM

5.4 COMPARISON OF CO₂ WITH AMMONIA AND HYDROCARBONS

5.5 MARKET DYNAMICS

5.5.1 DRIVERS

5.5.1.1 Low environmental impact

5.5.1.2 Phasing out CFC, HCFC, and HFC refrigerants

5.5.1.3 Increasing demand for refrigeration and air-conditioning applications

5.5.2 RESTRAINTS

5.5.2.1 Requirement of higher initial capital investment

5.5.2.2 Low demand for transcritical CO₂ systems

5.5.2.3 Flammability and toxicity issues

5.5.3 OPPORTUNITIES

5.5.3.1 Effects of global warming

5.5.3.2 Lower operating cost of transcritical CO₂ refrigerant systems

along with enhanced performance

5.5.4 CHALLENGES

5.5.4.1 Few companies for the purification of CO₂ refrigerants

5.5.4.2 Lack of training and awareness about transcritical CO₂ refrigerant systems

among HVAC contractors and technicians

5.6 MACROECONOMIC INDICATORS

5.6.1 ANNUAL GDP GROWTH OF MAJOR ECONOMIES

5.6.1.1 Cold storage

5.6.1.2 Construction

5.6.1.3 Manufacturing

5.7 PORTER'S FIVE FORCES ANALYSIS

5.7.1 THREAT OF NEW ENTRANTS

5.7.2 BARGAINING POWER OF SUPPLIERS

5.7.3 THREAT OF SUBSTITUTES

5.7.4 BARGAINING POWER OF BUYERS

5.7.5 INTENSITY OF RIVALRY

6 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION

6.1 INTRODUCTION

Transcritical Co₂ Systems Market by Function (Refrigeration, Heating, Air Conditioning), Application (Supermar...

- 6.2 REFRIGERATION
- 6.3 HEATING
- 6.4 AIR CONDITIONING

7 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION

- 7.1 INTRODUCTION
- 7.2 SUPERMARKETS & CONVENIENCE STORES
- 7.3 HEAT PUMPS
- 7.4 FOOD PROCESSING & STORAGE FACILITIES
- 7.5 ICE SKATING RINKS
- 7.6 OTHERS

8 REGIONAL ANALYSIS

- 8.1 INTRODUCTION
- 8.2 EUROPE
 - 8.2.1 GERMANY
 - 8.2.2 NORWAY
 - 8.2.3 UK
 - 8.2.4 DENMARK
 - 8.2.5 SWITZERLAND
 - 8.2.6 SWEDEN
 - 8.2.7 REST OF EUROPE
- 8.3 ASIA PACIFIC
 - 8.3.1 JAPAN
 - 8.3.2 CHINA
 - 8.3.3 NEW ZEALAND
 - 8.3.4 INDONESIA
 - 8.3.5 AUSTRALIA
 - 8.3.6 TAIWAN
 - 8.3.7 MALAYSIA
- 8.4 NORTH AMERICA
 - 8.4.1 US
 - 8.4.2 CANADA
 - 8.4.3 MEXICO
- 8.5 MIDDLE EAST & AFRICA
 - 8.5.1 SOUTH AFRICA
 - 8.5.2 JORDAN

8.6 SOUTH AMERICA

- 8.6.1 ARGENTINA
- 8.6.2 CHILE
- 8.6.3 BRAZIL
- 8.6.4 COLOMBIA

9 COMPETITIVE LANDSCAPE

- 9.1 INTRODUCTION
- 9.2 MARKET RANKING ANALYSIS
- 9.3 COMPETITIVE SITUATION & TRENDS
 - 9.3.1 NEW PRODUCT LAUNCHES
 - 9.3.2 EXPANSIONS
 - 9.3.3 PARTNERSHIPS & JOINT VENTURES
 - 9.3.4 AGREEMENTS & CONTRACTS
 - 9.3.5 MERGERS & ACQUISITIONS

10 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View)*

- 10.1 ADVANSOR
- 10.2 TEKO GMBH
- 10.3 CARRIER COMMERCIAL REFRIGERATION
- 10.4 GREEN & COOL WORLD REFRIGERATION AB
- 10.5 HILLPHOENIX, INC.
- 10.6 DANFOSS
- 10.7 BITZER
- 10.8 CARNOT REFRIGERATION
- 10.9 SCM FRIGO S.P.A.
- 10.10 EMERSON CLIMATE TECHNOLOGIES
- 10.11 PANASONIC CORPORATION
- 10.12 BALTIMORE AIRCOIL COMPANY, INC.
- 10.13 HENRY TECHNOLOGIES, INC.
- 10.14 SYSTEMES LMP, INC.
- 10.15 MAYEKAWA MFG. CO., LTD.
- 10.16 SHECCO SPRL

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

11 APPENDIX

11.1 DISCUSSION GUIDE

11.2 KNOWLEDGE STORE: MARKET SAND MARKETS' SUBSCRIPTION PORTAL

11.3 AVAILABLE CUSTOMIZATIONS

11.4 RELATED REPORTS

11.5 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 ANNUAL GDP GROWTH OF MAJOR ECONOMIES, 2012 TO 2016

TABLE 2 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023
(USD MILLION)

TABLE 3 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023
(NUMBER OF INSTALLATIONS)

TABLE 4 REFRIGERATION MARKET SIZE, BY REGION, 2016–2023 (USD MILLION)

TABLE 5 REFRIGERATION MARKET SIZE, BY REGION, 2016–2023 (NUMBER OF
INSTALLATIONS)

TABLE 6 HEATING MARKET SIZE, BY REGION, 2016–2023 (USD MILLION)

TABLE 7 HEATING MARKET SIZE, BY REGION, 2016–2023 (NUMBER OF
INSTALLATIONS)

TABLE 8 AIR CONDITIONING MARKET SIZE, BY REGION, 2016–2023 (USD
MILLION)

TABLE 9 AIR CONDITIONING MARKET SIZE, BY REGION, 2016–2023
(NUMBER OF INSTALLATIONS)

TABLE 10 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023
(USD MILLION)

TABLE 11 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023
(NUMBER OF INSTALLATIONS)

TABLE 12 SUPERMARKETS & CONVENIENCE STORES MARKET SIZE, BY
REGION, 2016–2023 (USD MILLION)

TABLE 13 SUPERMARKETS & CONVENIENCE STORES MARKET SIZE, BY
REGION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 14 HEAT PUMPS MARKET SIZE, BY REGION, 2016–2023 (USD MILLION)

TABLE 15 HEAT PUMPS MARKET SIZE, BY REGION, 2016–2023
(NUMBER OF INSTALLATIONS)

TABLE 16 FOOD PROCESSING & STORAGE FACILITIES MARKET SIZE, BY
REGION, 2016–2023 (USD MILLION)

TABLE 17 FOOD PROCESSING & STORAGE FACILITIES MARKET SIZE, BY
REGION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 18 ICE SKATING RINKS MARKET SIZE, BY REGION, 2016–2023 (USD
MILLION)

TABLE 19 ICE SKATING RINKS MARKET SIZE, BY REGION, 2016–2023 (NUMBER
OF INSTALLATIONS)

TABLE 20 OTHER APPLICATIONS MARKET SIZE, BY REGION, 2016–2023 (USD

MILLION)

TABLE 21 OTHER APPLICATIONS MARKET SIZE, BY REGION, 2016–2023

(NUMBER OF INSTALLATIONS)

TABLE 22 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY REGION, 2016–2023 (USD

MILLION)

TABLE 23 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY REGION, 2016–2023

(NUMBER OF INSTALLATIONS)

TABLE 24 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023

(USD MILLION)

TABLE 25 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023

(NUMBER OF INSTALLATIONS)

TABLE 26 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023

(USD MILLION)

TABLE 27 TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023

(NUMBER OF INSTALLATIONS)

TABLE 28 EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY,

2016–2023 (USD MILLION)

TABLE 29 EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY,

2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 30 EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION,

2016–2023 (USD MILLION)

TABLE 31 EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION,

2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 32 EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,

2016–2023 (USD MILLION)

TABLE 33 EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,

2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 34 GERMANY TRANSCRITICAL CO₂ SYSTEMS MARKET, BY

APPLICATION, 2016–2023 (USD MILLION)

TABLE 35 GERMANY TRANSCRITICAL CO₂ SYSTEMS MARKET, BY

APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 36 NORWAY TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,

2016–2023 (USD MILLION)

TABLE 37 NORWAY TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,

2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 38 UK TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,

2016–2023 (USD MILLION)

TABLE 39 UK TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,

2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 40 DENMARK TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 41 DENMARK TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 42 SWITZERLAND TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 43 SWITZERLAND TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 44 SWEDEN TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 45 SWEDEN TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 46 REST OF EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 47 REST OF EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 48 ASIA PACIFIC TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY, 2016–2023 (USD MILLION)

TABLE 49 ASIA PACIFIC TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 50 ASIA PACIFIC TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023 (USD MILLION)

TABLE 51 ASIA PACIFIC TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 52 ASIA PACIFIC TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 53 ASIA PACIFIC TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 54 JAPAN TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 55 JAPAN TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 56 CHINA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 57 CHINA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 58 NEW ZEALAND TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 59 NEW ZEALAND TRANSCRITICAL CO₂ SYSTEMS MARKET, BY

APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 60 INDONESIA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 61 INDONESIA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 62 AUSTRALIA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 63 AUSTRALIA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 64 TAIWAN TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 65 TAIWAN TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 66 MALAYSIA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 67 MALAYSIA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 68 NORTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY, 2016–2023 (USD MILLION)

TABLE 69 NORTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 70 NORTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023 (USD MILLION)

TABLE 71 NORTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 72 NORTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 73 NORTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 74 US TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 75 US TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 76 CANADA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 77 CANADA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 78 MEXICO TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 79 MEXICO TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 80 MIDDLE EAST & AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY, 2016–2023 (USD MILLION)

TABLE 81 MIDDLE EAST & AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 82 MIDDLE EAST & AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023 (USD MILLION)

TABLE 83 MIDDLE EAST & AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 84 MIDDLE EAST & AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 85 MIDDLE EAST & AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 86 SOUTH AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 87 SOUTH AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 88 JORDAN TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 89 JORDAN TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 90 SOUTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY, 2016–2023 (USD MILLION)

TABLE 91 SOUTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY COUNTRY, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 92 SOUTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023 (USD MILLION)

TABLE 93 SOUTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY FUNCTION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 94 SOUTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 95 SOUTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 96 ARGENTINA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

TABLE 97 ARGENTINA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 98 CHILE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,

2016–2023 (USD MILLION)

TABLE 99 CHILE TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,
2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 100 BRAZIL TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,
2016–2023 (USD MILLION)

TABLE 101 BRAZIL TRANSCRITICAL CO₂ SYSTEMS MARKET, BY APPLICATION,
2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 102 COLOMBIA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY
APPLICATION, 2016–2023 (USD MILLION)

TABLE 103 COLOMBIA TRANSCRITICAL CO₂ SYSTEMS MARKET, BY
APPLICATION, 2016–2023 (NUMBER OF INSTALLATIONS)

TABLE 104 NEW PRODUCT LAUNCHES, 2013–2018

TABLE 105 EXPANSIONS, 2013–2018

TABLE 106 PARTNERSHIPS & JOINT VENTURES, 2013–2018

TABLE 107 AGREEMENTS & CONTRACTS, 2013–2018

TABLE 108 MERGERS & ACQUISITIONS, 2013–2018

List Of Figures

LIST OF FIGURES

FIGURE 1 TRANSCRITICAL CO₂ SYSTEMS MARKET: RESEARCH DESIGN

FIGURE 2 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH

FIGURE 3 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH

FIGURE 4 TRANSCRITICAL CO₂ SYSTEMS MARKET: DATA TRIANGULATION

FIGURE 5 REFRIGERATION SEGMENT TO LEAD TRANSCRITICAL CO₂ SYSTEMS MARKET BETWEEN 2018 AND 2023

FIGURE 6 SUPERMARKETS & CONVENIENCE STORES SEGMENT TO LEAD TRANSCRITICAL CO₂ SYSTEMS MARKET DURING FORECAST PERIOD

FIGURE 7 EUROPE ESTIMATED TO LEAD TRANSCRITICAL CO₂ SYSTEMS MARKET IN 2018

FIGURE 8 GROWTH OF SUPERMARKET APPLICATION EXPECTED TO DRIVE TRANSCRITICAL CO₂ SYSTEMS MARKET BETWEEN 2018 AND 2023

FIGURE 9 TRANSCRITICAL CO₂ SYSTEMS MARKET IN MIDDLE EAST & AFRICA PROJECTED TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 10 APPLICATION SEGMENT ESTIMATED TO ACCOUNT FOR LARGEST SHARE

OF EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET IN 2018

FIGURE 11 SEGMENT ESTIMATED TO ACCOUNT FOR LARGEST SHARE OF TRANSCRITICAL CO₂ SYSTEMS MARKET ACROSS ALL REGIONS IN 2018

FIGURE 12 JAPAN PROJECTED TO LEAD TRANSCRITICAL CO₂ SYSTEMS MARKET BETWEEN 2018 AND 2023

FIGURE 13 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN THE TRANSCRITICAL CO₂ SYSTEMS MARKET

FIGURE 14 COLD STORAGE CONSTRUCTION MARKET, 2016 & 2021

FIGURE 15 CONSTRUCTION INDUSTRY GROWTH RATE, 2014

FIGURE 16 MANUFACTURING INDUSTRY GROWTH RATE, 2014

FIGURE 17 PORTER'S FIVE FORCES ANALYSIS: TRANSCRITICAL CO₂ SYSTEMS MARKET

FIGURE 18 REFRIGERATION FUNCTION SEGMENT PROJECTED TO LEAD TRANSCRITICAL

CO₂ SYSTEMS MARKET DURING FORECAST PERIOD

FIGURE 19 SUPERMARKETS & CONVENIENCE STORES APPLICATION SEGMENT PROJECTED

TO LEAD TRANSCRITICAL CO₂ SYSTEMS MARKET DURING FORECAST PERIOD

FIGURE 20 REGIONAL SNAPSHOT

FIGURE 21 EUROPE TRANSCRITICAL CO₂ SYSTEMS MARKET SNAPSHOT
FIGURE 22 ASIA PACIFIC TRANSCRITICAL CO₂ SYSTEMS MARKET SNAPSHOT
FIGURE 23 NORTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET
SNAPSHOT
FIGURE 24 MIDDLE EAST & AFRICA TRANSCRITICAL CO₂ SYSTEMS MARKET
SNAPSHOT
FIGURE 25 SOUTH AMERICA TRANSCRITICAL CO₂ SYSTEMS MARKET
SNAPSHOT
FIGURE 26 COMPANIES HAVE ADOPTED ORGANIC GROWTH STRATEGIES
BETWEEN 2013 AND 2018 TO STRENGTHEN THEIR POSITION IN
TRANSCRITICAL CO₂ SYSTEMS MARKET
FIGURE 27 TRANSCRITICAL CO₂ SYSTEMS MARKET RANKING, BY COMPANY,
2018
FIGURE 28 DANFOSS: COMPANY SNAPSHOT
FIGURE 29 EMERSON CLIMATE TECHNOLOGIES: COMPANY SNAPSHOT
FIGURE 30 PANASONIC CORPORATION: COMPANY SNAPSHOT

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