

# Global Transcritical CO2 Condensing Unit Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Transcritical CO2 Condensing Unit market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

The key players of transcritical CO2 condensing unit in Europe cover Profroid, Danfoss, SCM Frigo and Panasonic, etc. In terms of revenue, the Europe three largest companies occupied for a share nearly 32.28%.

A transcritical CO2 condensing unit is a type of refrigeration system that uses carbon dioxide (CO2) as the refrigerant and operates in a transcritical cycle. It is a sustainable alternative to traditional refrigeration systems that use synthetic refrigerants with high global warming potential (GWP).

In a transcritical CO2 system, the refrigerant operates above its critical point, where both liquid and gas phases coexist. Unlike traditional refrigerants like hydrofluorocarbons (HFCs), CO2 has a relatively low GWP and does not contribute significantly to global warming.

The transcritical CO2 cycle involves a high-pressure gas cooler, where the CO2 gas rejects heat and condenses into a high-pressure liquid. This high-pressure liquid then flows to an expansion valve, where it undergoes a pressure drop, causing it to expand and cool down. The CO2 then enters an evaporator, where it absorbs heat from the surroundings, such as a refrigerated space or product. The absorbed heat causes the CO2 to evaporate into a low-pressure gas. The low-pressure gas is then compressed by a compressor, increasing its temperature and pressure, and the cycle repeats. The key feature of the transcritical CO2 cycle is that the gas does not fully condense into a liquid during the heat rejection process, which distinguishes it from subcritical refrigeration

cycles. Transcritical CO<sub>2</sub> systems are often used in commercial refrigeration applications, such as supermarkets, food processing, and cold storage facilities. They offer several advantages, including high energy efficiency, reduced environmental impact, and compliance with environmental regulations. However, transcritical CO<sub>2</sub> systems can be more complex and require additional components, such as gas coolers designed to handle the higher operating pressures.

This report studies the global Transcritical CO<sub>2</sub> Condensing Unit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Transcritical CO<sub>2</sub> Condensing Unit, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Transcritical CO<sub>2</sub> Condensing Unit that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Transcritical CO<sub>2</sub> Condensing Unit total production and demand, 2018-2029, (Units)

Global Transcritical CO<sub>2</sub> Condensing Unit total production value, 2018-2029, (USD Million)

Global Transcritical CO<sub>2</sub> Condensing Unit production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Transcritical CO<sub>2</sub> Condensing Unit consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Transcritical CO<sub>2</sub> Condensing Unit domestic production, consumption, key domestic manufacturers and share

Global Transcritical CO<sub>2</sub> Condensing Unit production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Transcritical CO<sub>2</sub> Condensing Unit production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Transcritical CO2 Condensing Unit production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Transcritical CO2 Condensing Unit market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Profroid, Danfoss, SCM Frigo, Panasonic, Emerson (Copeland), Teko, Hillphoenix (Advansor), Epta (Kysor Warren) and Arneg, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Transcritical CO2 Condensing Unit market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Transcritical CO2 Condensing Unit Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Transcritical CO2 Condensing Unit Market, Segmentation by Type

Air-cooled Transcritical CO2 Condensing Unit

Water-cooled Transcritical CO2 Condensing Unit

Hybrid Transcritical CO2 Condensing Unit

## Global Transcritical CO2 Condensing Unit Market, Segmentation by Application

Commercial Refrigeration

Industrial Refrigeration

Transportation Refrigeration

Residential Refrigeration

## Companies Profiled:

Profroid

Danfoss

SCM Frigo

Panasonic

Emerson (Copeland)

Teko

Hillphoenix (Advansor)

Epta (Kysor Warren)

Arneg

Bitzer

Mitsubishi Heavy Industries Thermal Systems

Mayekawa

Rivacold

INTARCON

Bergcold

### Key Questions Answered

1. How big is the global Transcritical CO2 Condensing Unit market?
2. What is the demand of the global Transcritical CO2 Condensing Unit market?
3. What is the year over year growth of the global Transcritical CO2 Condensing Unit market?
4. What is the production and production value of the global Transcritical CO2 Condensing Unit market?
5. Who are the key producers in the global Transcritical CO2 Condensing Unit market?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Transcritical CO2 Condensing Unit Introduction
- 1.2 World Transcritical CO2 Condensing Unit Supply & Forecast
  - 1.2.1 World Transcritical CO2 Condensing Unit Production Value (2018 & 2022 & 2029)
  - 1.2.2 World Transcritical CO2 Condensing Unit Production (2018-2029)
  - 1.2.3 World Transcritical CO2 Condensing Unit Pricing Trends (2018-2029)
- 1.3 World Transcritical CO2 Condensing Unit Production by Region (Based on Production Site)
  - 1.3.1 World Transcritical CO2 Condensing Unit Production Value by Region (2018-2029)
  - 1.3.2 World Transcritical CO2 Condensing Unit Production by Region (2018-2029)
  - 1.3.3 World Transcritical CO2 Condensing Unit Average Price by Region (2018-2029)
  - 1.3.4 North America Transcritical CO2 Condensing Unit Production (2018-2029)
  - 1.3.5 Europe Transcritical CO2 Condensing Unit Production (2018-2029)
  - 1.3.6 China Transcritical CO2 Condensing Unit Production (2018-2029)
  - 1.3.7 Japan Transcritical CO2 Condensing Unit Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Transcritical CO2 Condensing Unit Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Transcritical CO2 Condensing Unit Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Transcritical CO2 Condensing Unit Demand (2018-2029)
- 2.2 World Transcritical CO2 Condensing Unit Consumption by Region
  - 2.2.1 World Transcritical CO2 Condensing Unit Consumption by Region (2018-2023)
  - 2.2.2 World Transcritical CO2 Condensing Unit Consumption Forecast by Region (2024-2029)
- 2.3 United States Transcritical CO2 Condensing Unit Consumption (2018-2029)
- 2.4 China Transcritical CO2 Condensing Unit Consumption (2018-2029)
- 2.5 Europe Transcritical CO2 Condensing Unit Consumption (2018-2029)
- 2.6 Japan Transcritical CO2 Condensing Unit Consumption (2018-2029)
- 2.7 South Korea Transcritical CO2 Condensing Unit Consumption (2018-2029)
- 2.8 ASEAN Transcritical CO2 Condensing Unit Consumption (2018-2029)
- 2.9 India Transcritical CO2 Condensing Unit Consumption (2018-2029)

### **3 WORLD TRANSCRITICAL CO2 CONDENSING UNIT MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Transcritical CO2 Condensing Unit Production Value by Manufacturer (2018-2023)

3.2 World Transcritical CO2 Condensing Unit Production by Manufacturer (2018-2023)

3.3 World Transcritical CO2 Condensing Unit Average Price by Manufacturer (2018-2023)

3.4 Transcritical CO2 Condensing Unit Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Transcritical CO2 Condensing Unit Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Transcritical CO2 Condensing Unit in 2022

3.5.3 Global Concentration Ratios (CR8) for Transcritical CO2 Condensing Unit in 2022

3.6 Transcritical CO2 Condensing Unit Market: Overall Company Footprint Analysis

3.6.1 Transcritical CO2 Condensing Unit Market: Region Footprint

3.6.2 Transcritical CO2 Condensing Unit Market: Company Product Type Footprint

3.6.3 Transcritical CO2 Condensing Unit Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Transcritical CO2 Condensing Unit Production Value Comparison

4.1.1 United States VS China: Transcritical CO2 Condensing Unit Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Transcritical CO2 Condensing Unit Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Transcritical CO2 Condensing Unit Production Comparison

4.2.1 United States VS China: Transcritical CO2 Condensing Unit Production Comparison (2018 & 2022 & 2029)



4.2.2 United States VS China: Transcritical CO2 Condensing Unit Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Transcritical CO2 Condensing Unit Consumption Comparison

4.3.1 United States VS China: Transcritical CO2 Condensing Unit Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Transcritical CO2 Condensing Unit Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Transcritical CO2 Condensing Unit Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Transcritical CO2 Condensing Unit Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Transcritical CO2 Condensing Unit Production Value (2018-2023)

4.4.3 United States Based Manufacturers Transcritical CO2 Condensing Unit Production (2018-2023)

4.5 China Based Transcritical CO2 Condensing Unit Manufacturers and Market Share

4.5.1 China Based Transcritical CO2 Condensing Unit Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Transcritical CO2 Condensing Unit Production Value (2018-2023)

4.5.3 China Based Manufacturers Transcritical CO2 Condensing Unit Production (2018-2023)

4.6 Rest of World Based Transcritical CO2 Condensing Unit Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Transcritical CO2 Condensing Unit Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Transcritical CO2 Condensing Unit Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Transcritical CO2 Condensing Unit Production (2018-2023)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Transcritical CO2 Condensing Unit Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Air-cooled Transcritical CO2 Condensing Unit

5.2.2 Water-cooled Transcritical CO2 Condensing Unit



5.2.3 Hybrid Transcritical CO2 Condensing Unit

5.3 Market Segment by Type

5.3.1 World Transcritical CO2 Condensing Unit Production by Type (2018-2029)

5.3.2 World Transcritical CO2 Condensing Unit Production Value by Type (2018-2029)

5.3.3 World Transcritical CO2 Condensing Unit Average Price by Type (2018-2029)

## **6 MARKET ANALYSIS BY APPLICATION**

6.1 World Transcritical CO2 Condensing Unit Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Commercial Refrigeration

6.2.2 Industrial Refrigeration

6.2.3 Transportation Refrigeration

6.2.4 Residential Refrigeration

6.3 Market Segment by Application

6.3.1 World Transcritical CO2 Condensing Unit Production by Application (2018-2029)

6.3.2 World Transcritical CO2 Condensing Unit Production Value by Application (2018-2029)

6.3.3 World Transcritical CO2 Condensing Unit Average Price by Application (2018-2029)

## **7 COMPANY PROFILES**

7.1 Profroid

7.1.1 Profroid Details

7.1.2 Profroid Major Business

7.1.3 Profroid Transcritical CO2 Condensing Unit Product and Services

7.1.4 Profroid Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Profroid Recent Developments/Updates

7.1.6 Profroid Competitive Strengths & Weaknesses

7.2 Danfoss

7.2.1 Danfoss Details

7.2.2 Danfoss Major Business

7.2.3 Danfoss Transcritical CO2 Condensing Unit Product and Services

7.2.4 Danfoss Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Danfoss Recent Developments/Updates

- 7.2.6 Danfoss Competitive Strengths & Weaknesses
- 7.3 SCM Frigo
  - 7.3.1 SCM Frigo Details
  - 7.3.2 SCM Frigo Major Business
  - 7.3.3 SCM Frigo Transcritical CO2 Condensing Unit Product and Services
  - 7.3.4 SCM Frigo Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.3.5 SCM Frigo Recent Developments/Updates
  - 7.3.6 SCM Frigo Competitive Strengths & Weaknesses
- 7.4 Panasonic
  - 7.4.1 Panasonic Details
  - 7.4.2 Panasonic Major Business
  - 7.4.3 Panasonic Transcritical CO2 Condensing Unit Product and Services
  - 7.4.4 Panasonic Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.4.5 Panasonic Recent Developments/Updates
  - 7.4.6 Panasonic Competitive Strengths & Weaknesses
- 7.5 Emerson (Copeland)
  - 7.5.1 Emerson (Copeland) Details
  - 7.5.2 Emerson (Copeland) Major Business
  - 7.5.3 Emerson (Copeland) Transcritical CO2 Condensing Unit Product and Services
  - 7.5.4 Emerson (Copeland) Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.5.5 Emerson (Copeland) Recent Developments/Updates
  - 7.5.6 Emerson (Copeland) Competitive Strengths & Weaknesses
- 7.6 Teko
  - 7.6.1 Teko Details
  - 7.6.2 Teko Major Business
  - 7.6.3 Teko Transcritical CO2 Condensing Unit Product and Services
  - 7.6.4 Teko Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.6.5 Teko Recent Developments/Updates
  - 7.6.6 Teko Competitive Strengths & Weaknesses
- 7.7 Hillphoenix (Advansor)
  - 7.7.1 Hillphoenix (Advansor) Details
  - 7.7.2 Hillphoenix (Advansor) Major Business
  - 7.7.3 Hillphoenix (Advansor) Transcritical CO2 Condensing Unit Product and Services
  - 7.7.4 Hillphoenix (Advansor) Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)

- 7.7.5 Hillphoenix (Advansor) Recent Developments/Updates
- 7.7.6 Hillphoenix (Advansor) Competitive Strengths & Weaknesses
- 7.8 Epta (Kysor Warren)
  - 7.8.1 Epta (Kysor Warren) Details
  - 7.8.2 Epta (Kysor Warren) Major Business
  - 7.8.3 Epta (Kysor Warren) Transcritical CO2 Condensing Unit Product and Services
  - 7.8.4 Epta (Kysor Warren) Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.8.5 Epta (Kysor Warren) Recent Developments/Updates
  - 7.8.6 Epta (Kysor Warren) Competitive Strengths & Weaknesses
- 7.9 Arneg
  - 7.9.1 Arneg Details
  - 7.9.2 Arneg Major Business
  - 7.9.3 Arneg Transcritical CO2 Condensing Unit Product and Services
  - 7.9.4 Arneg Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.9.5 Arneg Recent Developments/Updates
  - 7.9.6 Arneg Competitive Strengths & Weaknesses
- 7.10 Bitzer
  - 7.10.1 Bitzer Details
  - 7.10.2 Bitzer Major Business
  - 7.10.3 Bitzer Transcritical CO2 Condensing Unit Product and Services
  - 7.10.4 Bitzer Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.10.5 Bitzer Recent Developments/Updates
  - 7.10.6 Bitzer Competitive Strengths & Weaknesses
- 7.11 Mitsubishi Heavy Industries Thermal Systems
  - 7.11.1 Mitsubishi Heavy Industries Thermal Systems Details
  - 7.11.2 Mitsubishi Heavy Industries Thermal Systems Major Business
  - 7.11.3 Mitsubishi Heavy Industries Thermal Systems Transcritical CO2 Condensing Unit Product and Services
  - 7.11.4 Mitsubishi Heavy Industries Thermal Systems Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.11.5 Mitsubishi Heavy Industries Thermal Systems Recent Developments/Updates
  - 7.11.6 Mitsubishi Heavy Industries Thermal Systems Competitive Strengths & Weaknesses
- 7.12 Mayekawa
  - 7.12.1 Mayekawa Details
  - 7.12.2 Mayekawa Major Business

- 7.12.3 Mayekawa Transcritical CO2 Condensing Unit Product and Services
- 7.12.4 Mayekawa Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.12.5 Mayekawa Recent Developments/Updates
- 7.12.6 Mayekawa Competitive Strengths & Weaknesses
- 7.13 Rivacold
  - 7.13.1 Rivacold Details
  - 7.13.2 Rivacold Major Business
  - 7.13.3 Rivacold Transcritical CO2 Condensing Unit Product and Services
  - 7.13.4 Rivacold Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.13.5 Rivacold Recent Developments/Updates
  - 7.13.6 Rivacold Competitive Strengths & Weaknesses
- 7.14 INTARCON
  - 7.14.1 INTARCON Details
  - 7.14.2 INTARCON Major Business
  - 7.14.3 INTARCON Transcritical CO2 Condensing Unit Product and Services
  - 7.14.4 INTARCON Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.14.5 INTARCON Recent Developments/Updates
  - 7.14.6 INTARCON Competitive Strengths & Weaknesses
- 7.15 Bergcold
  - 7.15.1 Bergcold Details
  - 7.15.2 Bergcold Major Business
  - 7.15.3 Bergcold Transcritical CO2 Condensing Unit Product and Services
  - 7.15.4 Bergcold Transcritical CO2 Condensing Unit Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.15.5 Bergcold Recent Developments/Updates
  - 7.15.6 Bergcold Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 Transcritical CO2 Condensing Unit Industry Chain
- 8.2 Transcritical CO2 Condensing Unit Upstream Analysis
  - 8.2.1 Transcritical CO2 Condensing Unit Core Raw Materials
  - 8.2.2 Main Manufacturers of Transcritical CO2 Condensing Unit Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Transcritical CO2 Condensing Unit Production Mode

8.6 Transcritical CO2 Condensing Unit Procurement Model

8.7 Transcritical CO2 Condensing Unit Industry Sales Model and Sales Channels

8.7.1 Transcritical CO2 Condensing Unit Sales Model

8.7.2 Transcritical CO2 Condensing Unit Typical Customers

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Transcritical CO2 Condensing Unit Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Transcritical CO2 Condensing Unit Production Value by Region (2018-2023) & (USD Million)

Table 3. World Transcritical CO2 Condensing Unit Production Value by Region (2024-2029) & (USD Million)

Table 4. World Transcritical CO2 Condensing Unit Production Value Market Share by Region (2018-2023)

Table 5. World Transcritical CO2 Condensing Unit Production Value Market Share by Region (2024-2029)

Table 6. World Transcritical CO2 Condensing Unit Production by Region (2018-2023) & (Units)

Table 7. World Transcritical CO2 Condensing Unit Production by Region (2024-2029) & (Units)

Table 8. World Transcritical CO2 Condensing Unit Production Market Share by Region (2018-2023)

Table 9. World Transcritical CO2 Condensing Unit Production Market Share by Region (2024-2029)

Table 10. World Transcritical CO2 Condensing Unit Average Price by Region (2018-2023) & (US\$/Unit)

Table 11. World Transcritical CO2 Condensing Unit Average Price by Region (2024-2029) & (US\$/Unit)

Table 12. Transcritical CO2 Condensing Unit Major Market Trends

Table 13. World Transcritical CO2 Condensing Unit Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Units)

Table 14. World Transcritical CO2 Condensing Unit Consumption by Region (2018-2023) & (Units)

Table 15. World Transcritical CO2 Condensing Unit Consumption Forecast by Region (2024-2029) & (Units)

Table 16. World Transcritical CO2 Condensing Unit Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Transcritical CO2 Condensing Unit Producers in 2022

Table 18. World Transcritical CO2 Condensing Unit Production by Manufacturer (2018-2023) & (Units)



Table 19. Production Market Share of Key Transcritical CO2 Condensing Unit Producers in 2022

Table 20. World Transcritical CO2 Condensing Unit Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 21. Global Transcritical CO2 Condensing Unit Company Evaluation Quadrant

Table 22. World Transcritical CO2 Condensing Unit Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Transcritical CO2 Condensing Unit Production Site of Key Manufacturer

Table 24. Transcritical CO2 Condensing Unit Market: Company Product Type Footprint

Table 25. Transcritical CO2 Condensing Unit Market: Company Product Application Footprint

Table 26. Transcritical CO2 Condensing Unit Competitive Factors

Table 27. Transcritical CO2 Condensing Unit New Entrant and Capacity Expansion Plans

Table 28. Transcritical CO2 Condensing Unit Mergers & Acquisitions Activity

Table 29. United States VS China Transcritical CO2 Condensing Unit Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Transcritical CO2 Condensing Unit Production Comparison, (2018 & 2022 & 2029) & (Units)

Table 31. United States VS China Transcritical CO2 Condensing Unit Consumption Comparison, (2018 & 2022 & 2029) & (Units)

Table 32. United States Based Transcritical CO2 Condensing Unit Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Transcritical CO2 Condensing Unit Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Transcritical CO2 Condensing Unit Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Transcritical CO2 Condensing Unit Production (2018-2023) & (Units)

Table 36. United States Based Manufacturers Transcritical CO2 Condensing Unit Production Market Share (2018-2023)

Table 37. China Based Transcritical CO2 Condensing Unit Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Transcritical CO2 Condensing Unit Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Transcritical CO2 Condensing Unit Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Transcritical CO2 Condensing Unit Production



(2018-2023) & (Units)

Table 41. China Based Manufacturers Transcritical CO2 Condensing Unit Production Market Share (2018-2023)

Table 42. Rest of World Based Transcritical CO2 Condensing Unit Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Transcritical CO2 Condensing Unit Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Transcritical CO2 Condensing Unit Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Transcritical CO2 Condensing Unit Production (2018-2023) & (Units)

Table 46. Rest of World Based Manufacturers Transcritical CO2 Condensing Unit Production Market Share (2018-2023)

Table 47. World Transcritical CO2 Condensing Unit Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Transcritical CO2 Condensing Unit Production by Type (2018-2023) & (Units)

Table 49. World Transcritical CO2 Condensing Unit Production by Type (2024-2029) & (Units)

Table 50. World Transcritical CO2 Condensing Unit Production Value by Type (2018-2023) & (USD Million)

Table 51. World Transcritical CO2 Condensing Unit Production Value by Type (2024-2029) & (USD Million)

Table 52. World Transcritical CO2 Condensing Unit Average Price by Type (2018-2023) & (US\$/Unit)

Table 53. World Transcritical CO2 Condensing Unit Average Price by Type (2024-2029) & (US\$/Unit)

Table 54. World Transcritical CO2 Condensing Unit Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Transcritical CO2 Condensing Unit Production by Application (2018-2023) & (Units)

Table 56. World Transcritical CO2 Condensing Unit Production by Application (2024-2029) & (Units)

Table 57. World Transcritical CO2 Condensing Unit Production Value by Application (2018-2023) & (USD Million)

Table 58. World Transcritical CO2 Condensing Unit Production Value by Application (2024-2029) & (USD Million)

Table 59. World Transcritical CO2 Condensing Unit Average Price by Application (2018-2023) & (US\$/Unit)

Table 60. World Transcritical CO2 Condensing Unit Average Price by Application (2024-2029) & (US\$/Unit)

Table 61. Profroid Basic Information, Manufacturing Base and Competitors

Table 62. Profroid Major Business

Table 63. Profroid Transcritical CO2 Condensing Unit Product and Services

Table 64. Profroid Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Profroid Recent Developments/Updates

Table 66. Profroid Competitive Strengths & Weaknesses

Table 67. Danfoss Basic Information, Manufacturing Base and Competitors

Table 68. Danfoss Major Business

Table 69. Danfoss Transcritical CO2 Condensing Unit Product and Services

Table 70. Danfoss Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Danfoss Recent Developments/Updates

Table 72. Danfoss Competitive Strengths & Weaknesses

Table 73. SCM Frigo Basic Information, Manufacturing Base and Competitors

Table 74. SCM Frigo Major Business

Table 75. SCM Frigo Transcritical CO2 Condensing Unit Product and Services

Table 76. SCM Frigo Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. SCM Frigo Recent Developments/Updates

Table 78. SCM Frigo Competitive Strengths & Weaknesses

Table 79. Panasonic Basic Information, Manufacturing Base and Competitors

Table 80. Panasonic Major Business

Table 81. Panasonic Transcritical CO2 Condensing Unit Product and Services

Table 82. Panasonic Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Panasonic Recent Developments/Updates

Table 84. Panasonic Competitive Strengths & Weaknesses

Table 85. Emerson (Copeland) Basic Information, Manufacturing Base and Competitors

Table 86. Emerson (Copeland) Major Business

Table 87. Emerson (Copeland) Transcritical CO2 Condensing Unit Product and Services

Table 88. Emerson (Copeland) Transcritical CO2 Condensing Unit Production (Units),

Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Emerson (Copeland) Recent Developments/Updates

Table 90. Emerson (Copeland) Competitive Strengths & Weaknesses

Table 91. Teko Basic Information, Manufacturing Base and Competitors

Table 92. Teko Major Business

Table 93. Teko Transcritical CO2 Condensing Unit Product and Services

Table 94. Teko Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Teko Recent Developments/Updates

Table 96. Teko Competitive Strengths & Weaknesses

Table 97. Hillphoenix (Advansor) Basic Information, Manufacturing Base and Competitors

Table 98. Hillphoenix (Advansor) Major Business

Table 99. Hillphoenix (Advansor) Transcritical CO2 Condensing Unit Product and Services

Table 100. Hillphoenix (Advansor) Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. Hillphoenix (Advansor) Recent Developments/Updates

Table 102. Hillphoenix (Advansor) Competitive Strengths & Weaknesses

Table 103. Epta (Kysor Warren) Basic Information, Manufacturing Base and Competitors

Table 104. Epta (Kysor Warren) Major Business

Table 105. Epta (Kysor Warren) Transcritical CO2 Condensing Unit Product and Services

Table 106. Epta (Kysor Warren) Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. Epta (Kysor Warren) Recent Developments/Updates

Table 108. Epta (Kysor Warren) Competitive Strengths & Weaknesses

Table 109. Arneg Basic Information, Manufacturing Base and Competitors

Table 110. Arneg Major Business

Table 111. Arneg Transcritical CO2 Condensing Unit Product and Services

Table 112. Arneg Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. Arneg Recent Developments/Updates

Table 114. Arneg Competitive Strengths & Weaknesses

- Table 115. Bitzer Basic Information, Manufacturing Base and Competitors
- Table 116. Bitzer Major Business
- Table 117. Bitzer Transcritical CO2 Condensing Unit Product and Services
- Table 118. Bitzer Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 119. Bitzer Recent Developments/Updates
- Table 120. Bitzer Competitive Strengths & Weaknesses
- Table 121. Mitsubishi Heavy Industries Thermal Systems Basic Information, Manufacturing Base and Competitors
- Table 122. Mitsubishi Heavy Industries Thermal Systems Major Business
- Table 123. Mitsubishi Heavy Industries Thermal Systems Transcritical CO2 Condensing Unit Product and Services
- Table 124. Mitsubishi Heavy Industries Thermal Systems Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 125. Mitsubishi Heavy Industries Thermal Systems Recent Developments/Updates
- Table 126. Mitsubishi Heavy Industries Thermal Systems Competitive Strengths & Weaknesses
- Table 127. Mayekawa Basic Information, Manufacturing Base and Competitors
- Table 128. Mayekawa Major Business
- Table 129. Mayekawa Transcritical CO2 Condensing Unit Product and Services
- Table 130. Mayekawa Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 131. Mayekawa Recent Developments/Updates
- Table 132. Mayekawa Competitive Strengths & Weaknesses
- Table 133. Rivacold Basic Information, Manufacturing Base and Competitors
- Table 134. Rivacold Major Business
- Table 135. Rivacold Transcritical CO2 Condensing Unit Product and Services
- Table 136. Rivacold Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 137. Rivacold Recent Developments/Updates
- Table 138. Rivacold Competitive Strengths & Weaknesses
- Table 139. INTARCON Basic Information, Manufacturing Base and Competitors
- Table 140. INTARCON Major Business
- Table 141. INTARCON Transcritical CO2 Condensing Unit Product and Services

Table 142. INTARCON Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. INTARCON Recent Developments/Updates

Table 144. Bergcold Basic Information, Manufacturing Base and Competitors

Table 145. Bergcold Major Business

Table 146. Bergcold Transcritical CO2 Condensing Unit Product and Services

Table 147. Bergcold Transcritical CO2 Condensing Unit Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 148. Global Key Players of Transcritical CO2 Condensing Unit Upstream (Raw Materials)

Table 149. Transcritical CO2 Condensing Unit Typical Customers

Table 150. Transcritical CO2 Condensing Unit Typical Distributors

## **LIST OF FIGURE**

Figure 1. Transcritical CO2 Condensing Unit Picture

Figure 2. World Transcritical CO2 Condensing Unit Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Transcritical CO2 Condensing Unit Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Transcritical CO2 Condensing Unit Production (2018-2029) & (Units)

Figure 5. World Transcritical CO2 Condensing Unit Average Price (2018-2029) & (US\$/Unit)

Figure 6. World Transcritical CO2 Condensing Unit Production Value Market Share by Region (2018-2029)

Figure 7. World Transcritical CO2 Condensing Unit Production Market Share by Region (2018-2029)

Figure 8. North America Transcritical CO2 Condensing Unit Production (2018-2029) & (Units)

Figure 9. Europe Transcritical CO2 Condensing Unit Production (2018-2029) & (Units)

Figure 10. China Transcritical CO2 Condensing Unit Production (2018-2029) & (Units)

Figure 11. Japan Transcritical CO2 Condensing Unit Production (2018-2029) & (Units)

Figure 12. Transcritical CO2 Condensing Unit Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Transcritical CO2 Condensing Unit Consumption (2018-2029) & (Units)

Figure 15. World Transcritical CO2 Condensing Unit Consumption Market Share by



Region (2018-2029)

Figure 16. United States Transcritical CO2 Condensing Unit Consumption (2018-2029) & (Units)

Figure 17. China Transcritical CO2 Condensing Unit Consumption (2018-2029) & (Units)

Figure 18. Europe Transcritical CO2 Condensing Unit Consumption (2018-2029) & (Units)

Figure 19. Japan Transcritical CO2 Condensing Unit Consumption (2018-2029) & (Units)

Figure 20. South Korea Transcritical CO2 Condensing Unit Consumption (2018-2029) & (Units)

Figure 21. ASEAN Transcritical CO2 Condensing Unit Consumption (2018-2029) & (Units)

Figure 22. India Transcritical CO2 Condensing Unit Consumption (2018-2029) & (Units)

Figure 23. Producer Shipments of Transcritical CO2 Condensing Unit by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Transcritical CO2 Condensing Unit Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Transcritical CO2 Condensing Unit Markets in 2022

Figure 26. United States VS China: Transcritical CO2 Condensing Unit Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Transcritical CO2 Condensing Unit Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Transcritical CO2 Condensing Unit Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Transcritical CO2 Condensing Unit Production Market Share 2022

Figure 30. China Based Manufacturers Transcritical CO2 Condensing Unit Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Transcritical CO2 Condensing Unit Production Market Share 2022

Figure 32. World Transcritical CO2 Condensing Unit Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World Transcritical CO2 Condensing Unit Production Value Market Share by Type in 2022

Figure 34. Air-cooled Transcritical CO2 Condensing Unit

Figure 35. Water-cooled Transcritical CO2 Condensing Unit

Figure 36. Hybrid Transcritical CO2 Condensing Unit

Figure 37. World Transcritical CO2 Condensing Unit Production Market Share by Type (2018-2029)

Figure 38. World Transcritical CO2 Condensing Unit Production Value Market Share by Type (2018-2029)

Figure 39. World Transcritical CO2 Condensing Unit Average Price by Type (2018-2029) & (US\$/Unit)

Figure 40. World Transcritical CO2 Condensing Unit Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 41. World Transcritical CO2 Condensing Unit Production Value Market Share by Application in 2022

Figure 42. Commercial Refrigeration

Figure 43. Industrial Refrigeration

Figure 44. Transportation Refrigeration

Figure 45. Residential Refrigeration

Figure 46. World Transcritical CO2 Condensing Unit Production Market Share by Application (2018-2029)

Figure 47. World Transcritical CO2 Condensing Unit Production Value Market Share by Application (2018-2029)

Figure 48. World Transcritical CO2 Condensing Unit Average Price by Application (2018-2029) & (US\$/Unit)

Figure 49. Transcritical CO2 Condensing Unit Industry Chain

Figure 50. Transcritical CO2 Condensing Unit Procurement Model

Figure 51. Transcritical CO2 Condensing Unit Sales Model

Figure 52. Transcritical CO2 Condensing Unit Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source



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