

Global Low Temperature Refrigeration Scroll Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low Temperature Refrigeration Scroll Compressor market size is expected to reach \$ 557 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

In 2025, the global production of cryogenic scroll compressors reached 414,600 units, with an average selling price of US\$1,050 per unit. The global annual production capacity of cryogenic scroll compressors is approximately 600,000 units, with a gross profit margin of approximately 23.7%. A cryogenic scroll compressor is a scroll compressor specifically designed for refrigeration applications under low-temperature conditions. It is widely used in the refrigeration industry, especially in applications requiring extremely low temperatures, such as ice making, cold chain transportation, food freezing, and laboratory cooling. The upstream of the cryogenic scroll compressor industry chain includes copper/aluminum materials used in scroll chambers, heat exchange pipes, support structures, and heat-resistant coating additives; the midstream consists of cryogenic scroll compressor manufacturers; and the downstream mainly comprises commercial and industrial applications.

The cryogenic scroll compressor market is in a phase of sustained growth, primarily driven by expansion in areas such as ultra-low temperature applications, cold chain logistics, pharmaceuticals, and high-end industrial refrigeration. The industry focuses on improving reliability and lubrication/sealing performance under cryogenic conditions, enhancing energy and thermal efficiency, and reducing vibration and noise. Global competition is increasingly concentrated among a few leading manufacturers, driving modular and scalable system solutions and emphasizing deep integration with intelligent monitoring, remote diagnostics, and energy management. Simultaneously,

factors such as the substitution of environmentally friendly refrigerants, increasingly stringent regulations, and fluctuations in the raw material and component supply chains are creating price and supply uncertainties. Overall, the cryogenic scroll compressor market is steadily growing through technological iteration and application expansion, moving towards greater efficiency, durability, and localized production.

This report studies the global Low Temperature Refrigeration Scroll Compressor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low Temperature Refrigeration Scroll Compressor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Low Temperature Refrigeration Scroll Compressor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low Temperature Refrigeration Scroll Compressor total production and demand, 2021-2032, (K Units)

Global Low Temperature Refrigeration Scroll Compressor total production value, 2021-2032, (USD Million)

Global Low Temperature Refrigeration Scroll Compressor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Low Temperature Refrigeration Scroll Compressor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Low Temperature Refrigeration Scroll Compressor domestic production, consumption, key domestic manufacturers and share

Global Low Temperature Refrigeration Scroll Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Low Temperature Refrigeration Scroll Compressor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Low Temperature Refrigeration Scroll Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Low Temperature Refrigeration Scroll Compressor 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 Danfoss,

Emerson, GMCC, Panasonic, Daikin, Johnson Controls-Hitachi Air Conditioning Taiwan, Mitsubishi Electric, Bitzer, Tecumseh, Invotech, 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 Low Temperature Refrigeration Scroll Compressor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low Temperature Refrigeration Scroll Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low Temperature Refrigeration Scroll Compressor Market, Segmentation by Type:

Fixed Frequency Scroll Compressor

Variable Frequency Scroll Compressor

Global Low Temperature Refrigeration Scroll Compressor Market, Segmentation by Structural Forms:

Single-Unit Scroll Compressor

Parallel Scroll Compressor

Global Low Temperature Refrigeration Scroll Compressor Market, Segmentation by Cooling Methods:

Air-Cooled

Water-Cooled

Global Low Temperature Refrigeration Scroll Compressor Market, Segmentation by Application:

Commercial Use

Industrial Use

Companies Profiled:

Danfoss

Emerson

GMCC

Panasonic

Daikin

Johnson Controls-Hitachi Air Conditioning Taiwan

Mitsubishi Electric

Bitzer

Tecumseh

Invotech

Sonyo Compressor (Dalian)

XECOM

Key Questions Answered:

1. How big is the global Low Temperature Refrigeration Scroll Compressor market?
2. What is the demand of the global Low Temperature Refrigeration Scroll Compressor market?
3. What is the year over year growth of the global Low Temperature Refrigeration Scroll Compressor market?
4. What is the production and production value of the global Low Temperature Refrigeration Scroll Compressor market?
5. Who are the key producers in the global Low Temperature Refrigeration Scroll Compressor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Low Temperature Refrigeration Scroll Compressor Introduction
- 1.2 World Low Temperature Refrigeration Scroll Compressor Supply & Forecast
 - 1.2.1 World Low Temperature Refrigeration Scroll Compressor Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Low Temperature Refrigeration Scroll Compressor Production (2021-2032)
 - 1.2.3 World Low Temperature Refrigeration Scroll Compressor Pricing Trends (2021-2032)
- 1.3 World Low Temperature Refrigeration Scroll Compressor Production by Region (Based on Production Site)
 - 1.3.1 World Low Temperature Refrigeration Scroll Compressor Production Value by Region (2021-2032)
 - 1.3.2 World Low Temperature Refrigeration Scroll Compressor Production by Region (2021-2032)
 - 1.3.3 World Low Temperature Refrigeration Scroll Compressor Average Price by Region (2021-2032)
 - 1.3.4 North America Low Temperature Refrigeration Scroll Compressor Production (2021-2032)
 - 1.3.5 Europe Low Temperature Refrigeration Scroll Compressor Production (2021-2032)
 - 1.3.6 China Low Temperature Refrigeration Scroll Compressor Production (2021-2032)
 - 1.3.7 Japan Low Temperature Refrigeration Scroll Compressor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Low Temperature Refrigeration Scroll Compressor Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Low Temperature Refrigeration Scroll Compressor Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Low Temperature Refrigeration Scroll Compressor Demand (2021-2032)
- 2.2 World Low Temperature Refrigeration Scroll Compressor Consumption by Region
 - 2.2.1 World Low Temperature Refrigeration Scroll Compressor Consumption by Region (2021-2026)

2.2.2 World Low Temperature Refrigeration Scroll Compressor Consumption Forecast by Region (2027-2032)

2.3 United States Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032)

2.4 China Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032)

2.5 Europe Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032)

2.6 Japan Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032)

2.7 South Korea Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032)

2.8 ASEAN Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032)

2.9 India Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Low Temperature Refrigeration Scroll Compressor Production Value by Manufacturer (2021-2026)

3.2 World Low Temperature Refrigeration Scroll Compressor Production by Manufacturer (2021-2026)

3.3 World Low Temperature Refrigeration Scroll Compressor Average Price by Manufacturer (2021-2026)

3.4 Low Temperature Refrigeration Scroll Compressor Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Low Temperature Refrigeration Scroll Compressor Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Low Temperature Refrigeration Scroll Compressor in 2025

3.5.3 Global Concentration Ratios (CR8) for Low Temperature Refrigeration Scroll Compressor in 2025

3.6 Low Temperature Refrigeration Scroll Compressor Market: Overall Company Footprint Analysis

3.6.1 Low Temperature Refrigeration Scroll Compressor Market: Region Footprint

3.6.2 Low Temperature Refrigeration Scroll Compressor Market: Company Product Type Footprint

3.6.3 Low Temperature Refrigeration Scroll Compressor 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: Low Temperature Refrigeration Scroll Compressor Production Value Comparison
 - 4.1.1 United States VS China: Low Temperature Refrigeration Scroll Compressor Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Low Temperature Refrigeration Scroll Compressor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Low Temperature Refrigeration Scroll Compressor Production Comparison
 - 4.2.1 United States VS China: Low Temperature Refrigeration Scroll Compressor Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Low Temperature Refrigeration Scroll Compressor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Low Temperature Refrigeration Scroll Compressor Consumption Comparison
 - 4.3.1 United States VS China: Low Temperature Refrigeration Scroll Compressor Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Low Temperature Refrigeration Scroll Compressor Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Low Temperature Refrigeration Scroll Compressor Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Low Temperature Refrigeration Scroll Compressor Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value (2021-2026)
 - 4.4.3 United States Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production (2021-2026)
- 4.5 China Based Low Temperature Refrigeration Scroll Compressor Manufacturers and Market Share
 - 4.5.1 China Based Low Temperature Refrigeration Scroll Compressor Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value (2021-2026)

4.5.3 China Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production (2021-2026)

4.6 Rest of World Based Low Temperature Refrigeration Scroll Compressor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Low Temperature Refrigeration Scroll Compressor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Low Temperature Refrigeration Scroll Compressor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Fixed Frequency Scroll Compressor

5.2.2 Variable Frequency Scroll Compressor

5.3 Market Segment by Type

5.3.1 World Low Temperature Refrigeration Scroll Compressor Production by Type (2021-2032)

5.3.2 World Low Temperature Refrigeration Scroll Compressor Production Value by Type (2021-2032)

5.3.3 World Low Temperature Refrigeration Scroll Compressor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY STRUCTURAL FORMS

6.1 World Low Temperature Refrigeration Scroll Compressor Market Size Overview by Structural Forms: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Structural Forms

6.2.1 Single-Unit Scroll Compressor

6.2.2 Parallel Scroll Compressor

6.3 Market Segment by Structural Forms

6.3.1 World Low Temperature Refrigeration Scroll Compressor Production by Structural Forms (2021-2032)

6.3.2 World Low Temperature Refrigeration Scroll Compressor Production Value by Structural Forms (2021-2032)

6.3.3 World Low Temperature Refrigeration Scroll Compressor Average Price by

Structural Forms (2021-2032)

7 MARKET ANALYSIS BY COOLING METHODS

7.1 World Low Temperature Refrigeration Scroll Compressor Market Size Overview by Cooling Methods: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cooling Methods

7.2.1 Air-Cooled

7.2.2 Water-Cooled

7.3 Market Segment by Cooling Methods

7.3.1 World Low Temperature Refrigeration Scroll Compressor Production by Cooling Methods (2021-2032)

7.3.2 World Low Temperature Refrigeration Scroll Compressor Production Value by Cooling Methods (2021-2032)

7.3.3 World Low Temperature Refrigeration Scroll Compressor Average Price by Cooling Methods (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Low Temperature Refrigeration Scroll Compressor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Commercial Use

8.2.2 Industrial Use

8.3 Market Segment by Application

8.3.1 World Low Temperature Refrigeration Scroll Compressor Production by Application (2021-2032)

8.3.2 World Low Temperature Refrigeration Scroll Compressor Production Value by Application (2021-2032)

8.3.3 World Low Temperature Refrigeration Scroll Compressor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Danfoss

9.1.1 Danfoss Details

9.1.2 Danfoss Major Business

9.1.3 Danfoss Low Temperature Refrigeration Scroll Compressor Product and Services

9.1.4 Danfoss Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Danfoss Recent Developments/Updates

9.1.6 Danfoss Competitive Strengths & Weaknesses

9.2 Emerson

9.2.1 Emerson Details

9.2.2 Emerson Major Business

9.2.3 Emerson Low Temperature Refrigeration Scroll Compressor Product and Services

9.2.4 Emerson Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Emerson Recent Developments/Updates

9.2.6 Emerson Competitive Strengths & Weaknesses

9.3 GMCC

9.3.1 GMCC Details

9.3.2 GMCC Major Business

9.3.3 GMCC Low Temperature Refrigeration Scroll Compressor Product and Services

9.3.4 GMCC Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 GMCC Recent Developments/Updates

9.3.6 GMCC Competitive Strengths & Weaknesses

9.4 Panasonic

9.4.1 Panasonic Details

9.4.2 Panasonic Major Business

9.4.3 Panasonic Low Temperature Refrigeration Scroll Compressor Product and Services

9.4.4 Panasonic Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Panasonic Recent Developments/Updates

9.4.6 Panasonic Competitive Strengths & Weaknesses

9.5 Daikin

9.5.1 Daikin Details

9.5.2 Daikin Major Business

9.5.3 Daikin Low Temperature Refrigeration Scroll Compressor Product and Services

9.5.4 Daikin Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Daikin Recent Developments/Updates

9.5.6 Daikin Competitive Strengths & Weaknesses

9.6 Johnson Controls-Hitachi Air Conditioning Taiwan

- 9.6.1 Johnson Controls-Hitachi Air Conditioning Taiwan Details
- 9.6.2 Johnson Controls-Hitachi Air Conditioning Taiwan Major Business
- 9.6.3 Johnson Controls-Hitachi Air Conditioning Taiwan Low Temperature Refrigeration Scroll Compressor Product and Services
- 9.6.4 Johnson Controls-Hitachi Air Conditioning Taiwan Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Johnson Controls-Hitachi Air Conditioning Taiwan Recent Developments/Updates
- 9.6.6 Johnson Controls-Hitachi Air Conditioning Taiwan Competitive Strengths & Weaknesses
- 9.7 Mitsubishi Electric
 - 9.7.1 Mitsubishi Electric Details
 - 9.7.2 Mitsubishi Electric Major Business
 - 9.7.3 Mitsubishi Electric Low Temperature Refrigeration Scroll Compressor Product and Services
 - 9.7.4 Mitsubishi Electric Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Mitsubishi Electric Recent Developments/Updates
 - 9.7.6 Mitsubishi Electric Competitive Strengths & Weaknesses
- 9.8 Bitzer
 - 9.8.1 Bitzer Details
 - 9.8.2 Bitzer Major Business
 - 9.8.3 Bitzer Low Temperature Refrigeration Scroll Compressor Product and Services
 - 9.8.4 Bitzer Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Bitzer Recent Developments/Updates
 - 9.8.6 Bitzer Competitive Strengths & Weaknesses
- 9.9 Tecumseh
 - 9.9.1 Tecumseh Details
 - 9.9.2 Tecumseh Major Business
 - 9.9.3 Tecumseh Low Temperature Refrigeration Scroll Compressor Product and Services
 - 9.9.4 Tecumseh Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Tecumseh Recent Developments/Updates
 - 9.9.6 Tecumseh Competitive Strengths & Weaknesses
- 9.10 Invotech
 - 9.10.1 Invotech Details

- 9.10.2 Invotech Major Business
- 9.10.3 Invotech Low Temperature Refrigeration Scroll Compressor Product and Services
- 9.10.4 Invotech Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Invotech Recent Developments/Updates
- 9.10.6 Invotech Competitive Strengths & Weaknesses
- 9.11 Sonyo Compressor (Dalian)
 - 9.11.1 Sonyo Compressor (Dalian) Details
 - 9.11.2 Sonyo Compressor (Dalian) Major Business
 - 9.11.3 Sonyo Compressor (Dalian) Low Temperature Refrigeration Scroll Compressor Product and Services
 - 9.11.4 Sonyo Compressor (Dalian) Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Sonyo Compressor (Dalian) Recent Developments/Updates
 - 9.11.6 Sonyo Compressor (Dalian) Competitive Strengths & Weaknesses
- 9.12 XECOM
 - 9.12.1 XECOM Details
 - 9.12.2 XECOM Major Business
 - 9.12.3 XECOM Low Temperature Refrigeration Scroll Compressor Product and Services
 - 9.12.4 XECOM Low Temperature Refrigeration Scroll Compressor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 XECOM Recent Developments/Updates
 - 9.12.6 XECOM Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Low Temperature Refrigeration Scroll Compressor Industry Chain
- 10.2 Low Temperature Refrigeration Scroll Compressor Upstream Analysis
 - 10.2.1 Low Temperature Refrigeration Scroll Compressor Core Raw Materials
 - 10.2.2 Main Manufacturers of Low Temperature Refrigeration Scroll Compressor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Low Temperature Refrigeration Scroll Compressor Production Mode
- 10.6 Low Temperature Refrigeration Scroll Compressor Procurement Model
- 10.7 Low Temperature Refrigeration Scroll Compressor Industry Sales Model and Sales Channels

10.7.1 Low Temperature Refrigeration Scroll Compressor Sales Model

10.7.2 Low Temperature Refrigeration Scroll Compressor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Low Temperature Refrigeration Scroll Compressor Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Low Temperature Refrigeration Scroll Compressor Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Low Temperature Refrigeration Scroll Compressor Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Region (2021-2026)
- Table 5. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Region (2027-2032)
- Table 6. World Low Temperature Refrigeration Scroll Compressor Production by Region (2021-2026) & (K Units)
- Table 7. World Low Temperature Refrigeration Scroll Compressor Production by Region (2027-2032) & (K Units)
- Table 8. World Low Temperature Refrigeration Scroll Compressor Production Market Share by Region (2021-2026)
- Table 9. World Low Temperature Refrigeration Scroll Compressor Production Market Share by Region (2027-2032)
- Table 10. World Low Temperature Refrigeration Scroll Compressor Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Low Temperature Refrigeration Scroll Compressor Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Low Temperature Refrigeration Scroll Compressor Major Market Trends
- Table 13. World Low Temperature Refrigeration Scroll Compressor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Low Temperature Refrigeration Scroll Compressor Consumption by Region (2021-2026) & (K Units)
- Table 15. World Low Temperature Refrigeration Scroll Compressor Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Low Temperature Refrigeration Scroll Compressor Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Low Temperature Refrigeration Scroll Compressor Producers in 2025
- Table 18. World Low Temperature Refrigeration Scroll Compressor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Low Temperature Refrigeration Scroll Compressor Producers in 2025

Table 20. World Low Temperature Refrigeration Scroll Compressor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Low Temperature Refrigeration Scroll Compressor Company Evaluation Quadrant

Table 22. World Low Temperature Refrigeration Scroll Compressor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Low Temperature Refrigeration Scroll Compressor Production Site of Key Manufacturer

Table 24. Low Temperature Refrigeration Scroll Compressor Market: Company Product Type Footprint

Table 25. Low Temperature Refrigeration Scroll Compressor Market: Company Product Application Footprint

Table 26. Low Temperature Refrigeration Scroll Compressor Competitive Factors

Table 27. Low Temperature Refrigeration Scroll Compressor New Entrant and Capacity Expansion Plans

Table 28. Low Temperature Refrigeration Scroll Compressor Mergers & Acquisitions Activity

Table 29. United States VS China Low Temperature Refrigeration Scroll Compressor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Low Temperature Refrigeration Scroll Compressor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Low Temperature Refrigeration Scroll Compressor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Low Temperature Refrigeration Scroll Compressor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Market Share (2021-2026)

Table 37. China Based Low Temperature Refrigeration Scroll Compressor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value, (2021-2026) & (USD Million)

- Table 39. China Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production, (2021-2026) & (K Units)
- Table 41. China Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Market Share (2021-2026)
- Table 42. Rest of World Based Low Temperature Refrigeration Scroll Compressor Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production, (2021-2026) & (K Units)
- Table 46. Rest of World Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Market Share (2021-2026)
- Table 47. World Low Temperature Refrigeration Scroll Compressor Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Low Temperature Refrigeration Scroll Compressor Production by Type (2021-2026) & (K Units)
- Table 49. World Low Temperature Refrigeration Scroll Compressor Production by Type (2027-2032) & (K Units)
- Table 50. World Low Temperature Refrigeration Scroll Compressor Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Low Temperature Refrigeration Scroll Compressor Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Low Temperature Refrigeration Scroll Compressor Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Low Temperature Refrigeration Scroll Compressor Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Low Temperature Refrigeration Scroll Compressor Production Value by Structural Forms, (USD Million), 2021 & 2025 & 2032
- Table 55. World Low Temperature Refrigeration Scroll Compressor Production by Structural Forms (2021-2026) & (K Units)
- Table 56. World Low Temperature Refrigeration Scroll Compressor Production by Structural Forms (2027-2032) & (K Units)
- Table 57. World Low Temperature Refrigeration Scroll Compressor Production Value by Structural Forms (2021-2026) & (USD Million)
- Table 58. World Low Temperature Refrigeration Scroll Compressor Production Value by

Structural Forms (2027-2032) & (USD Million)

Table 59. World Low Temperature Refrigeration Scroll Compressor Average Price by Structural Forms (2021-2026) & (US\$/Unit)

Table 60. World Low Temperature Refrigeration Scroll Compressor Average Price by Structural Forms (2027-2032) & (US\$/Unit)

Table 61. World Low Temperature Refrigeration Scroll Compressor Production Value by Cooling Methods, (USD Million), 2021 & 2025 & 2032

Table 62. World Low Temperature Refrigeration Scroll Compressor Production by Cooling Methods (2021-2026) & (K Units)

Table 63. World Low Temperature Refrigeration Scroll Compressor Production by Cooling Methods (2027-2032) & (K Units)

Table 64. World Low Temperature Refrigeration Scroll Compressor Production Value by Cooling Methods (2021-2026) & (USD Million)

Table 65. World Low Temperature Refrigeration Scroll Compressor Production Value by Cooling Methods (2027-2032) & (USD Million)

Table 66. World Low Temperature Refrigeration Scroll Compressor Average Price by Cooling Methods (2021-2026) & (US\$/Unit)

Table 67. World Low Temperature Refrigeration Scroll Compressor Average Price by Cooling Methods (2027-2032) & (US\$/Unit)

Table 68. World Low Temperature Refrigeration Scroll Compressor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Low Temperature Refrigeration Scroll Compressor Production by Application (2021-2026) & (K Units)

Table 70. World Low Temperature Refrigeration Scroll Compressor Production by Application (2027-2032) & (K Units)

Table 71. World Low Temperature Refrigeration Scroll Compressor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Low Temperature Refrigeration Scroll Compressor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Low Temperature Refrigeration Scroll Compressor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Low Temperature Refrigeration Scroll Compressor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Danfoss Basic Information, Manufacturing Base and Competitors

Table 76. Danfoss Major Business

Table 77. Danfoss Low Temperature Refrigeration Scroll Compressor Product and Services

Table 78. Danfoss Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. Danfoss Recent Developments/Updates

Table 80. Danfoss Competitive Strengths & Weaknesses

Table 81. Emerson Basic Information, Manufacturing Base and Competitors

Table 82. Emerson Major Business

Table 83. Emerson Low Temperature Refrigeration Scroll Compressor Product and Services

Table 84. Emerson Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Emerson Recent Developments/Updates

Table 86. Emerson Competitive Strengths & Weaknesses

Table 87. GMCC Basic Information, Manufacturing Base and Competitors

Table 88. GMCC Major Business

Table 89. GMCC Low Temperature Refrigeration Scroll Compressor Product and Services

Table 90. GMCC Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. GMCC Recent Developments/Updates

Table 92. GMCC Competitive Strengths & Weaknesses

Table 93. Panasonic Basic Information, Manufacturing Base and Competitors

Table 94. Panasonic Major Business

Table 95. Panasonic Low Temperature Refrigeration Scroll Compressor Product and Services

Table 96. Panasonic Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Panasonic Recent Developments/Updates

Table 98. Panasonic Competitive Strengths & Weaknesses

Table 99. Daikin Basic Information, Manufacturing Base and Competitors

Table 100. Daikin Major Business

Table 101. Daikin Low Temperature Refrigeration Scroll Compressor Product and Services

Table 102. Daikin Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Daikin Recent Developments/Updates

Table 104. Daikin Competitive Strengths & Weaknesses

Table 105. Johnson Controls-Hitachi Air Conditioning Taiwan Basic Information, Manufacturing Base and Competitors

Table 106. Johnson Controls-Hitachi Air Conditioning Taiwan Major Business

Table 107. Johnson Controls-Hitachi Air Conditioning Taiwan Low Temperature Refrigeration Scroll Compressor Product and Services

Table 108. Johnson Controls-Hitachi Air Conditioning Taiwan Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Johnson Controls-Hitachi Air Conditioning Taiwan Recent Developments/Updates

Table 110. Johnson Controls-Hitachi Air Conditioning Taiwan Competitive Strengths & Weaknesses

Table 111. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors

Table 112. Mitsubishi Electric Major Business

Table 113. Mitsubishi Electric Low Temperature Refrigeration Scroll Compressor Product and Services

Table 114. Mitsubishi Electric Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Mitsubishi Electric Recent Developments/Updates

Table 116. Mitsubishi Electric Competitive Strengths & Weaknesses

Table 117. Bitzer Basic Information, Manufacturing Base and Competitors

Table 118. Bitzer Major Business

Table 119. Bitzer Low Temperature Refrigeration Scroll Compressor Product and Services

Table 120. Bitzer Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Bitzer Recent Developments/Updates

Table 122. Bitzer Competitive Strengths & Weaknesses

Table 123. Tecumseh Basic Information, Manufacturing Base and Competitors

Table 124. Tecumseh Major Business

Table 125. Tecumseh Low Temperature Refrigeration Scroll Compressor Product and Services

Table 126. Tecumseh Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Tecumseh Recent Developments/Updates

Table 128. Tecumseh Competitive Strengths & Weaknesses

- Table 129. Invotech Basic Information, Manufacturing Base and Competitors
- Table 130. Invotech Major Business
- Table 131. Invotech Low Temperature Refrigeration Scroll Compressor Product and Services
- Table 132. Invotech Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Invotech Recent Developments/Updates
- Table 134. Invotech Competitive Strengths & Weaknesses
- Table 135. Sonyo Compressor (Dalian) Basic Information, Manufacturing Base and Competitors
- Table 136. Sonyo Compressor (Dalian) Major Business
- Table 137. Sonyo Compressor (Dalian) Low Temperature Refrigeration Scroll Compressor Product and Services
- Table 138. Sonyo Compressor (Dalian) Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Sonyo Compressor (Dalian) Recent Developments/Updates
- Table 140. Sonyo Compressor (Dalian) Competitive Strengths & Weaknesses
- Table 141. XECOM Basic Information, Manufacturing Base and Competitors
- Table 142. XECOM Major Business
- Table 143. XECOM Low Temperature Refrigeration Scroll Compressor Product and Services
- Table 144. XECOM Low Temperature Refrigeration Scroll Compressor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. XECOM Recent Developments/Updates
- Table 146. XECOM Competitive Strengths & Weaknesses
- Table 147. Global Key Players of Low Temperature Refrigeration Scroll Compressor Upstream (Raw Materials)
- Table 148. Global Low Temperature Refrigeration Scroll Compressor Typical Customers
- Table 149. Low Temperature Refrigeration Scroll Compressor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Low Temperature Refrigeration Scroll Compressor Picture

Figure 2. World Low Temperature Refrigeration Scroll Compressor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Low Temperature Refrigeration Scroll Compressor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Low Temperature Refrigeration Scroll Compressor Production (2021-2032) & (K Units)

Figure 5. World Low Temperature Refrigeration Scroll Compressor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Region (2021-2032)

Figure 7. World Low Temperature Refrigeration Scroll Compressor Production Market Share by Region (2021-2032)

Figure 8. North America Low Temperature Refrigeration Scroll Compressor Production (2021-2032) & (K Units)

Figure 9. Europe Low Temperature Refrigeration Scroll Compressor Production (2021-2032) & (K Units)

Figure 10. China Low Temperature Refrigeration Scroll Compressor Production (2021-2032) & (K Units)

Figure 11. Japan Low Temperature Refrigeration Scroll Compressor Production (2021-2032) & (K Units)

Figure 12. Low Temperature Refrigeration Scroll Compressor Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032) & (K Units)

Figure 15. World Low Temperature Refrigeration Scroll Compressor Consumption Market Share by Region (2021-2032)

Figure 16. United States Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032) & (K Units)

Figure 17. China Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032) & (K Units)

Figure 18. Europe Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032) & (K Units)

Figure 19. Japan Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032) & (K Units)

Figure 20. South Korea Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032) & (K Units)

Figure 22. India Low Temperature Refrigeration Scroll Compressor Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Low Temperature Refrigeration Scroll Compressor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Low Temperature Refrigeration Scroll Compressor Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Low Temperature Refrigeration Scroll Compressor Markets in 2025

Figure 26. United States VS China: Low Temperature Refrigeration Scroll Compressor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Low Temperature Refrigeration Scroll Compressor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Low Temperature Refrigeration Scroll Compressor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Market Share 2025

Figure 30. China Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Low Temperature Refrigeration Scroll Compressor Production Market Share 2025

Figure 32. World Low Temperature Refrigeration Scroll Compressor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Type in 2025

Figure 34. Fixed Frequency Scroll Compressor

Figure 35. Variable Frequency Scroll Compressor

Figure 36. World Low Temperature Refrigeration Scroll Compressor Production Market Share by Type (2021-2032)

Figure 37. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Type (2021-2032)

Figure 38. World Low Temperature Refrigeration Scroll Compressor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Low Temperature Refrigeration Scroll Compressor Production Value by Structural Forms, (USD Million), 2021 & 2025 & 2032

Figure 40. World Low Temperature Refrigeration Scroll Compressor Production Value

Market Share by Structural Forms in 2025

Figure 41. Single-Unit Scroll Compressor

Figure 42. Parallel Scroll Compressor

Figure 43. World Low Temperature Refrigeration Scroll Compressor Production Market Share by Structural Forms (2021-2032)

Figure 44. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Structural Forms (2021-2032)

Figure 45. World Low Temperature Refrigeration Scroll Compressor Average Price by Structural Forms (2021-2032) & (US\$/Unit)

Figure 46. World Low Temperature Refrigeration Scroll Compressor Production Value by Cooling Methods, (USD Million), 2021 & 2025 & 2032

Figure 47. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Cooling Methods in 2025

Figure 48. Air-Cooled

Figure 49. Water-Cooled

Figure 50. World Low Temperature Refrigeration Scroll Compressor Production Market Share by Cooling Methods (2021-2032)

Figure 51. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Cooling Methods (2021-2032)

Figure 52. World Low Temperature Refrigeration Scroll Compressor Average Price by Cooling Methods (2021-2032) & (US\$/Unit)

Figure 53. World Low Temperature Refrigeration Scroll Compressor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Application in 2025

Figure 55. Commercial Use

Figure 56. Industrial Use

Figure 57. World Low Temperature Refrigeration Scroll Compressor Production Market Share by Application (2021-2032)

Figure 58. World Low Temperature Refrigeration Scroll Compressor Production Value Market Share by Application (2021-2032)

Figure 59. World Low Temperature Refrigeration Scroll Compressor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 60. Low Temperature Refrigeration Scroll Compressor Industry Chain

Figure 61. Low Temperature Refrigeration Scroll Compressor Procurement Model

Figure 62. Low Temperature Refrigeration Scroll Compressor Sales Model

Figure 63. Low Temperature Refrigeration Scroll Compressor Sales Channels, Direct Sales, and Distribution

Figure 64. Methodology

Figure 65. Research Process and Data Source

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