

# Global R-452aRefrigerant Supply, Demand and Key Producers, 2023-2029

https://marketpublishers.com/r/G6A738E4EA8CEN.html

Date: May 2023

Pages: 112

Price: US\$ 4,480.00 (Single User License)

ID: G6A738E4EA8CEN

# **Abstracts**

The global R-452aRefrigerant market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

R-452aRefrigerant is a non-ozone depleting, low global warming potential (GWP) hydrofluoroolefin (HFO) based replacement for R-404A and R-507 refrigerants.

This report studies the global R-452aRefrigerant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for R-452aRefrigerant, 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 R-452aRefrigerant that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global R-452aRefrigerant total production and demand, 2018-2029, (Tons)

Global R-452aRefrigerant total production value, 2018-2029, (USD Million)

Global R-452aRefrigerant production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global R-452aRefrigerant consumption by region & country, CAGR, 2018-2029 & (Tons)



U.S. VS China: R-452aRefrigerant domestic production, consumption, key domestic manufacturers and share

Global R-452aRefrigerant production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global R-452aRefrigerant production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global R-452aRefrigerant production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global R-452aRefrigerant 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 Honeywell, Daikin, Linde A.G., Chemours, Arkema, Thermo King, A-Gas, Tecumseh Products Company and SINTECO SRL, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World R-452aRefrigerant market

**Detailed Segmentation:** 

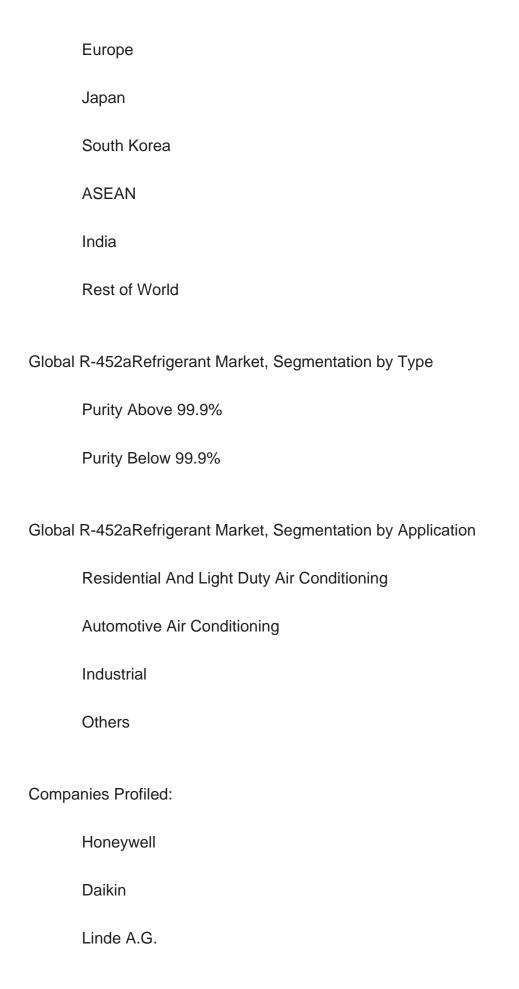
Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate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

Global R-452aRefrigerant Market, By Region:

**United States** 

China







Chemours		
Arkema		
Thermo King		
A-Gas		
Tecumseh Products Company		
SINTECO SRL		
Koura Global		
Orbia		
Gas Servei		
Climalife		
Precision		
Key Questions Answered		
1. How big is the global R-452aRefrigerant market?		
2. What is the demand of the global R-452aRefrigerant market?		
3. What is the year over year growth of the global R-452aRefrigerant market?		
4. What is the production and production value of the global R-452aRefrigerant market?		
5. Who are the key producers in the global R-452aRefrigerant market?		
6. What are the growth factors driving the market demand?		



# **Contents**

#### 1 SUPPLY SUMMARY

- 1.1 R-452aRefrigerant Introduction
- 1.2 World R-452aRefrigerant Supply & Forecast
  - 1.2.1 World R-452aRefrigerant Production Value (2018 & 2022 & 2029)
  - 1.2.2 World R-452aRefrigerant Production (2018-2029)
  - 1.2.3 World R-452aRefrigerant Pricing Trends (2018-2029)
- 1.3 World R-452aRefrigerant Production by Region (Based on Production Site)
  - 1.3.1 World R-452aRefrigerant Production Value by Region (2018-2029)
  - 1.3.2 World R-452aRefrigerant Production by Region (2018-2029)
  - 1.3.3 World R-452aRefrigerant Average Price by Region (2018-2029)
  - 1.3.4 North America R-452aRefrigerant Production (2018-2029)
  - 1.3.5 Europe R-452aRefrigerant Production (2018-2029)
  - 1.3.6 China R-452aRefrigerant Production (2018-2029)
- 1.3.7 Japan R-452aRefrigerant Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 R-452aRefrigerant Market Drivers
  - 1.4.2 Factors Affecting Demand
- 1.4.3 R-452aRefrigerant Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
  - 1.5.1 Influence of COVID-19
  - 1.5.2 Influence of Russia-Ukraine War

#### **2 DEMAND SUMMARY**

- 2.1 World R-452aRefrigerant Demand (2018-2029)
- 2.2 World R-452aRefrigerant Consumption by Region
- 2.2.1 World R-452aRefrigerant Consumption by Region (2018-2023)
- 2.2.2 World R-452aRefrigerant Consumption Forecast by Region (2024-2029)
- 2.3 United States R-452aRefrigerant Consumption (2018-2029)
- 2.4 China R-452aRefrigerant Consumption (2018-2029)
- 2.5 Europe R-452aRefrigerant Consumption (2018-2029)
- 2.6 Japan R-452aRefrigerant Consumption (2018-2029)
- 2.7 South Korea R-452aRefrigerant Consumption (2018-2029)
- 2.8 ASEAN R-452aRefrigerant Consumption (2018-2029)
- 2.9 India R-452aRefrigerant Consumption (2018-2029)



#### 3 WORLD R-452AREFRIGERANT MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World R-452aRefrigerant Production Value by Manufacturer (2018-2023)
- 3.2 World R-452aRefrigerant Production by Manufacturer (2018-2023)
- 3.3 World R-452aRefrigerant Average Price by Manufacturer (2018-2023)
- 3.4 R-452aRefrigerant Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global R-452aRefrigerant Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for R-452aRefrigerant in 2022
  - 3.5.3 Global Concentration Ratios (CR8) for R-452aRefrigerant in 2022
- 3.6 R-452aRefrigerant Market: Overall Company Footprint Analysis
  - 3.6.1 R-452aRefrigerant Market: Region Footprint
  - 3.6.2 R-452aRefrigerant Market: Company Product Type Footprint
  - 3.6.3 R-452aRefrigerant 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: R-452aRefrigerant Production Value Comparison
- 4.1.1 United States VS China: R-452aRefrigerant Production Value Comparison (2018 & 2022 & 2029)
- 4.1.2 United States VS China: R-452aRefrigerant Production Value Market Share Comparison (2018 & 2022 & 2029)
- 4.2 United States VS China: R-452aRefrigerant Production Comparison
- 4.2.1 United States VS China: R-452aRefrigerant Production Comparison (2018 & 2022 & 2029)
- 4.2.2 United States VS China: R-452aRefrigerant Production Market Share Comparison (2018 & 2022 & 2029)
- 4.3 United States VS China: R-452aRefrigerant Consumption Comparison
- 4.3.1 United States VS China: R-452aRefrigerant Consumption Comparison (2018 & 2022 & 2029)
- 4.3.2 United States VS China: R-452aRefrigerant Consumption Market Share Comparison (2018 & 2022 & 2029)
- 4.4 United States Based R-452aRefrigerant Manufacturers and Market Share,



#### 2018-2023

- 4.4.1 United States Based R-452aRefrigerant Manufacturers, Headquarters and Production Site (States, Country)
- 4.4.2 United States Based Manufacturers R-452aRefrigerant Production Value (2018-2023)
- 4.4.3 United States Based Manufacturers R-452aRefrigerant Production (2018-2023)
- 4.5 China Based R-452aRefrigerant Manufacturers and Market Share
- 4.5.1 China Based R-452aRefrigerant Manufacturers, Headquarters and Production Site (Province, Country)
- 4.5.2 China Based Manufacturers R-452aRefrigerant Production Value (2018-2023)
- 4.5.3 China Based Manufacturers R-452aRefrigerant Production (2018-2023)
- 4.6 Rest of World Based R-452aRefrigerant Manufacturers and Market Share, 2018-2023
- 4.6.1 Rest of World Based R-452aRefrigerant Manufacturers, Headquarters and Production Site (State, Country)
- 4.6.2 Rest of World Based Manufacturers R-452aRefrigerant Production Value (2018-2023)
- 4.6.3 Rest of World Based Manufacturers R-452aRefrigerant Production (2018-2023)

# **5 MARKET ANALYSIS BY TYPE**

- 5.1 World R-452aRefrigerant Market Size Overview by Type: 2018 VS 2022 VS 2029
- 5.2 Segment Introduction by Type
  - 5.2.1 Purity Above 99.9%
  - 5.2.2 Purity Below 99.9%
- 5.3 Market Segment by Type
  - 5.3.1 World R-452aRefrigerant Production by Type (2018-2029)
  - 5.3.2 World R-452aRefrigerant Production Value by Type (2018-2029)
  - 5.3.3 World R-452aRefrigerant Average Price by Type (2018-2029)

## **6 MARKET ANALYSIS BY APPLICATION**

- 6.1 World R-452aRefrigerant Market Size Overview by Application: 2018 VS 2022 VS 2029
- 6.2 Segment Introduction by Application
  - 6.2.1 Residential And Light Duty Air Conditioning
  - 6.2.2 Automotive Air Conditioning
  - 6.2.3 Industrial
  - 6.2.4 Others



- 6.3 Market Segment by Application
  - 6.3.1 World R-452aRefrigerant Production by Application (2018-2029)
  - 6.3.2 World R-452aRefrigerant Production Value by Application (2018-2029)
  - 6.3.3 World R-452aRefrigerant Average Price by Application (2018-2029)

# **7 COMPANY PROFILES**

- 7.1 Honeywell
  - 7.1.1 Honeywell Details
  - 7.1.2 Honeywell Major Business
  - 7.1.3 Honeywell R-452aRefrigerant Product and Services
- 7.1.4 Honeywell R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.1.5 Honeywell Recent Developments/Updates
- 7.1.6 Honeywell Competitive Strengths & Weaknesses
- 7.2 Daikin
  - 7.2.1 Daikin Details
  - 7.2.2 Daikin Major Business
  - 7.2.3 Daikin R-452aRefrigerant Product and Services
- 7.2.4 Daikin R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.2.5 Daikin Recent Developments/Updates
  - 7.2.6 Daikin Competitive Strengths & Weaknesses
- 7.3 Linde A.G.
  - 7.3.1 Linde A.G. Details
- 7.3.2 Linde A.G. Major Business
- 7.3.3 Linde A.G. R-452aRefrigerant Product and Services
- 7.3.4 Linde A.G. R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.3.5 Linde A.G. Recent Developments/Updates
  - 7.3.6 Linde A.G. Competitive Strengths & Weaknesses
- 7.4 Chemours
  - 7.4.1 Chemours Details
  - 7.4.2 Chemours Major Business
  - 7.4.3 Chemours R-452aRefrigerant Product and Services
- 7.4.4 Chemours R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.4.5 Chemours Recent Developments/Updates
- 7.4.6 Chemours Competitive Strengths & Weaknesses



- 7.5 Arkema
  - 7.5.1 Arkema Details
  - 7.5.2 Arkema Major Business
  - 7.5.3 Arkema R-452aRefrigerant Product and Services
- 7.5.4 Arkema R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.5.5 Arkema Recent Developments/Updates
  - 7.5.6 Arkema Competitive Strengths & Weaknesses
- 7.6 Thermo King
  - 7.6.1 Thermo King Details
  - 7.6.2 Thermo King Major Business
  - 7.6.3 Thermo King R-452aRefrigerant Product and Services
- 7.6.4 Thermo King R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.6.5 Thermo King Recent Developments/Updates
  - 7.6.6 Thermo King Competitive Strengths & Weaknesses
- 7.7 A-Gas
  - 7.7.1 A-Gas Details
  - 7.7.2 A-Gas Major Business
  - 7.7.3 A-Gas R-452aRefrigerant Product and Services
- 7.7.4 A-Gas R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.7.5 A-Gas Recent Developments/Updates
  - 7.7.6 A-Gas Competitive Strengths & Weaknesses
- 7.8 Tecumseh Products Company
  - 7.8.1 Tecumseh Products Company Details
  - 7.8.2 Tecumseh Products Company Major Business
  - 7.8.3 Tecumseh Products Company R-452aRefrigerant Product and Services
  - 7.8.4 Tecumseh Products Company R-452aRefrigerant Production, Price, Value,
- Gross Margin and Market Share (2018-2023)
  - 7.8.5 Tecumseh Products Company Recent Developments/Updates
  - 7.8.6 Tecumseh Products Company Competitive Strengths & Weaknesses
- 7.9 SINTECO SRL
  - 7.9.1 SINTECO SRL Details
  - 7.9.2 SINTECO SRL Major Business
  - 7.9.3 SINTECO SRL R-452aRefrigerant Product and Services
- 7.9.4 SINTECO SRL R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.9.5 SINTECO SRL Recent Developments/Updates



# 7.9.6 SINTECO SRL Competitive Strengths & Weaknesses

- 7.10 Koura Global
  - 7.10.1 Koura Global Details
  - 7.10.2 Koura Global Major Business
  - 7.10.3 Koura Global R-452aRefrigerant Product and Services
- 7.10.4 Koura Global R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.10.5 Koura Global Recent Developments/Updates
  - 7.10.6 Koura Global Competitive Strengths & Weaknesses
- 7.11 Orbia
  - 7.11.1 Orbia Details
  - 7.11.2 Orbia Major Business
  - 7.11.3 Orbia R-452aRefrigerant Product and Services
- 7.11.4 Orbia R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.11.5 Orbia Recent Developments/Updates
- 7.11.6 Orbia Competitive Strengths & Weaknesses
- 7.12 Gas Servei
  - 7.12.1 Gas Servei Details
  - 7.12.2 Gas Servei Major Business
  - 7.12.3 Gas Servei R-452aRefrigerant Product and Services
- 7.12.4 Gas Servei R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.12.5 Gas Servei Recent Developments/Updates
  - 7.12.6 Gas Servei Competitive Strengths & Weaknesses
- 7.13 Climalife
  - 7.13.1 Climalife Details
  - 7.13.2 Climalife Major Business
  - 7.13.3 Climalife R-452aRefrigerant Product and Services
- 7.13.4 Climalife R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.13.5 Climalife Recent Developments/Updates
  - 7.13.6 Climalife Competitive Strengths & Weaknesses
- 7.14 Precision
  - 7.14.1 Precision Details
  - 7.14.2 Precision Major Business
  - 7.14.3 Precision R-452aRefrigerant Product and Services
- 7.14.4 Precision R-452aRefrigerant Production, Price, Value, Gross Margin and Market Share (2018-2023)



- 7.14.5 Precision Recent Developments/Updates
- 7.14.6 Precision Competitive Strengths & Weaknesses

# **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 R-452aRefrigerant Industry Chain
- 8.2 R-452aRefrigerant Upstream Analysis
  - 8.2.1 R-452aRefrigerant Core Raw Materials
  - 8.2.2 Main Manufacturers of R-452aRefrigerant Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 R-452aRefrigerant Production Mode
- 8.6 R-452aRefrigerant Procurement Model
- 8.7 R-452aRefrigerant Industry Sales Model and Sales Channels
  - 8.7.1 R-452aRefrigerant Sales Model
  - 8.7.2 R-452aRefrigerant 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 R-452aRefrigerant Production Value by Region (2018, 2022 and 2029) & (USD Million)
- Table 2. World R-452aRefrigerant Production Value by Region (2018-2023) & (USD Million)
- Table 3. World R-452aRefrigerant Production Value by Region (2024-2029) & (USD Million)
- Table 4. World R-452aRefrigerant Production Value Market Share by Region (2018-2023)
- Table 5. World R-452aRefrigerant Production Value Market Share by Region (2024-2029)
- Table 6. World R-452aRefrigerant Production by Region (2018-2023) & (Tons)
- Table 7. World R-452aRefrigerant Production by Region (2024-2029) & (Tons)
- Table 8. World R-452aRefrigerant Production Market Share by Region (2018-2023)
- Table 9. World R-452aRefrigerant Production Market Share by Region (2024-2029)
- Table 10. World R-452aRefrigerant Average Price by Region (2018-2023) & (US\$/Ton)
- Table 11. World R-452aRefrigerant Average Price by Region (2024-2029) & (US\$/Ton)
- Table 12. R-452aRefrigerant Major Market Trends
- Table 13. World R-452aRefrigerant Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)
- Table 14. World R-452aRefrigerant Consumption by Region (2018-2023) & (Tons)
- Table 15. World R-452aRefrigerant Consumption Forecast by Region (2024-2029) & (Tons)
- Table 16. World R-452aRefrigerant Production Value by Manufacturer (2018-2023) & (USD Million)
- Table 17. Production Value Market Share of Key R-452aRefrigerant Producers in 2022
- Table 18. World R-452aRefrigerant Production by Manufacturer (2018-2023) & (Tons)
- Table 19. Production Market Share of Key R-452aRefrigerant Producers in 2022
- Table 20. World R-452aRefrigerant Average Price by Manufacturer (2018-2023) & (US\$/Ton)
- Table 21. Global R-452aRefrigerant Company Evaluation Quadrant
- Table 22. World R-452aRefrigerant Industry Rank of Major Manufacturers, Based on Production Value in 2022
- Table 23. Head Office and R-452aRefrigerant Production Site of Key Manufacturer
- Table 24. R-452aRefrigerant Market: Company Product Type Footprint
- Table 25. R-452aRefrigerant Market: Company Product Application Footprint



- Table 26. R-452aRefrigerant Competitive Factors
- Table 27. R-452aRefrigerant New Entrant and Capacity Expansion Plans
- Table 28. R-452aRefrigerant Mergers & Acquisitions Activity
- Table 29. United States VS China R-452aRefrigerant Production Value Comparison,
- (2018 & 2022 & 2029) & (USD Million)
- Table 30. United States VS China R-452aRefrigerant Production Comparison, (2018 & 2022 & 2029) & (Tons)
- Table 31. United States VS China R-452aRefrigerant Consumption Comparison, (2018 & 2022 & 2029) & (Tons)
- Table 32. United States Based R-452aRefrigerant Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers R-452aRefrigerant Production Value, (2018-2023) & (USD Million)
- Table 34. United States Based Manufacturers R-452aRefrigerant Production Value Market Share (2018-2023)
- Table 35. United States Based Manufacturers R-452aRefrigerant Production (2018-2023) & (Tons)
- Table 36. United States Based Manufacturers R-452aRefrigerant Production Market Share (2018-2023)
- Table 37. China Based R-452aRefrigerant Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers R-452aRefrigerant Production Value, (2018-2023) & (USD Million)
- Table 39. China Based Manufacturers R-452aRefrigerant Production Value Market Share (2018-2023)
- Table 40. China Based Manufacturers R-452aRefrigerant Production (2018-2023) & (Tons)
- Table 41. China Based Manufacturers R-452aRefrigerant Production Market Share (2018-2023)
- Table 42. Rest of World Based R-452aRefrigerant Manufacturers, Headquarters and Production Site (States, Country)
- Table 43. Rest of World Based Manufacturers R-452aRefrigerant Production Value, (2018-2023) & (USD Million)
- Table 44. Rest of World Based Manufacturers R-452aRefrigerant Production Value Market Share (2018-2023)
- Table 45. Rest of World Based Manufacturers R-452aRefrigerant Production (2018-2023) & (Tons)
- Table 46. Rest of World Based Manufacturers R-452aRefrigerant Production Market Share (2018-2023)



- Table 47. World R-452aRefrigerant Production Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 48. World R-452aRefrigerant Production by Type (2018-2023) & (Tons)
- Table 49. World R-452aRefrigerant Production by Type (2024-2029) & (Tons)
- Table 50. World R-452aRefrigerant Production Value by Type (2018-2023) & (USD Million)
- Table 51. World R-452aRefrigerant Production Value by Type (2024-2029) & (USD Million)
- Table 52. World R-452aRefrigerant Average Price by Type (2018-2023) & (US\$/Ton)
- Table 53. World R-452aRefrigerant Average Price by Type (2024-2029) & (US\$/Ton)
- Table 54. World R-452aRefrigerant Production Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 55. World R-452aRefrigerant Production by Application (2018-2023) & (Tons)
- Table 56. World R-452aRefrigerant Production by Application (2024-2029) & (Tons)
- Table 57. World R-452aRefrigerant Production Value by Application (2018-2023) & (USD Million)
- Table 58. World R-452aRefrigerant Production Value by Application (2024-2029) & (USD Million)
- Table 59. World R-452aRefrigerant Average Price by Application (2018-2023) & (US\$/Ton)
- Table 60. World R-452aRefrigerant Average Price by Application (2024-2029) & (US\$/Ton)
- Table 61. Honeywell Basic Information, Manufacturing Base and Competitors
- Table 62. Honeywell Major Business
- Table 63. Honeywell R-452aRefrigerant Product and Services
- Table 64. Honeywell R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production
- Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 65. Honeywell Recent Developments/Updates
- Table 66. Honeywell Competitive Strengths & Weaknesses
- Table 67. Daikin Basic Information, Manufacturing Base and Competitors
- Table 68. Daikin Major Business
- Table 69. Daikin R-452aRefrigerant Product and Services
- Table 70. Daikin R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production
- Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 71. Daikin Recent Developments/Updates
- Table 72. Daikin Competitive Strengths & Weaknesses
- Table 73. Linde A.G. Basic Information, Manufacturing Base and Competitors
- Table 74. Linde A.G. Major Business
- Table 75. Linde A.G. R-452aRefrigerant Product and Services



Table 76. Linde A.G. R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production

Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Linde A.G. Recent Developments/Updates

Table 78. Linde A.G. Competitive Strengths & Weaknesses

Table 79. Chemours Basic Information, Manufacturing Base and Competitors

Table 80. Chemours Major Business

Table 81. Chemours R-452aRefrigerant Product and Services

Table 82. Chemours R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production

Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Chemours Recent Developments/Updates

Table 84. Chemours Competitive Strengths & Weaknesses

Table 85. Arkema Basic Information, Manufacturing Base and Competitors

Table 86. Arkema Major Business

Table 87. Arkema R-452aRefrigerant Product and Services

Table 88. Arkema R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production

Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Arkema Recent Developments/Updates

Table 90. Arkema Competitive Strengths & Weaknesses

Table 91. Thermo King Basic Information, Manufacturing Base and Competitors

Table 92. Thermo King Major Business

Table 93. Thermo King R-452aRefrigerant Product and Services

Table 94. Thermo King R-452aRefrigerant Production (Tons), Price (US\$/Ton),

Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Thermo King Recent Developments/Updates

Table 96. Thermo King Competitive Strengths & Weaknesses

Table 97. A-Gas Basic Information, Manufacturing Base and Competitors

Table 98. A-Gas Major Business

Table 99. A-Gas R-452aRefrigerant Product and Services

Table 100. A-Gas R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production

Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. A-Gas Recent Developments/Updates

Table 102. A-Gas Competitive Strengths & Weaknesses

Table 103. Tecumseh Products Company Basic Information, Manufacturing Base and Competitors

Table 104. Tecumseh Products Company Major Business

Table 105. Tecumseh Products Company R-452aRefrigerant Product and Services

Table 106. Tecumseh Products Company R-452aRefrigerant Production (Tons), Price

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



- Table 107. Tecumseh Products Company Recent Developments/Updates
- Table 108. Tecumseh Products Company Competitive Strengths & Weaknesses
- Table 109. SINTECO SRL Basic Information, Manufacturing Base and Competitors
- Table 110. SINTECO SRL Major Business
- Table 111. SINTECO SRL R-452aRefrigerant Product and Services
- Table 112. SINTECO SRL R-452aRefrigerant Production (Tons), Price (US\$/Ton),
- Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 113. SINTECO SRL Recent Developments/Updates
- Table 114. SINTECO SRL Competitive Strengths & Weaknesses
- Table 115. Koura Global Basic Information, Manufacturing Base and Competitors
- Table 116. Koura Global Major Business
- Table 117. Koura Global R-452aRefrigerant Product and Services
- Table 118. Koura Global R-452aRefrigerant Production (Tons), Price (US\$/Ton),
- Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 119. Koura Global Recent Developments/Updates
- Table 120. Koura Global Competitive Strengths & Weaknesses
- Table 121. Orbia Basic Information, Manufacturing Base and Competitors
- Table 122. Orbia Major Business
- Table 123. Orbia R-452aRefrigerant Product and Services
- Table 124. Orbia R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production
- Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 125. Orbia Recent Developments/Updates
- Table 126. Orbia Competitive Strengths & Weaknesses
- Table 127. Gas Servei Basic Information, Manufacturing Base and Competitors
- Table 128. Gas Servei Major Business
- Table 129. Gas Servei R-452aRefrigerant Product and Services
- Table 130. Gas Servei R-452aRefrigerant Production (Tons), Price (US\$/Ton),
- Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 131. Gas Servei Recent Developments/Updates
- Table 132. Gas Servei Competitive Strengths & Weaknesses
- Table 133. Climalife Basic Information, Manufacturing Base and Competitors
- Table 134. Climalife Major Business
- Table 135. Climalife R-452aRefrigerant Product and Services
- Table 136. Climalife R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production
- Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 137. Climalife Recent Developments/Updates
- Table 138. Precision Basic Information, Manufacturing Base and Competitors
- Table 139. Precision Major Business
- Table 140. Precision R-452aRefrigerant Product and Services



Table 141. Precision R-452aRefrigerant Production (Tons), Price (US\$/Ton), Production

Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 142. Global Key Players of R-452aRefrigerant Upstream (Raw Materials)

Table 143. R-452aRefrigerant Typical Customers

Table 144. R-452aRefrigerant Typical Distributors



# **List Of Figures**

### LIST OF FIGURES

- Figure 1. R-452aRefrigerant Picture
- Figure 2. World R-452aRefrigerant Production Value: 2018 & 2022 & 2029, (USD Million)
- Figure 3. World R-452aRefrigerant Production Value and Forecast (2018-2029) & (USD Million)
- Figure 4. World R-452aRefrigerant Production (2018-2029) & (Tons)
- Figure 5. World R-452aRefrigerant Average Price (2018-2029) & (US\$/Ton)
- Figure 6. World R-452aRefrigerant Production Value Market Share by Region (2018-2029)
- Figure 7. World R-452aRefrigerant Production Market Share by Region (2018-2029)
- Figure 8. North America R-452aRefrigerant Production (2018-2029) & (Tons)
- Figure 9. Europe R-452aRefrigerant Production (2018-2029) & (Tons)
- Figure 10. China R-452aRefrigerant Production (2018-2029) & (Tons)
- Figure 11. Japan R-452aRefrigerant Production (2018-2029) & (Tons)
- Figure 12. R-452aRefrigerant Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World R-452aRefrigerant Consumption (2018-2029) & (Tons)
- Figure 15. World R-452aRefrigerant Consumption Market Share by Region (2018-2029)
- Figure 16. United States R-452aRefrigerant Consumption (2018-2029) & (Tons)
- Figure 17. China R-452aRefrigerant Consumption (2018-2029) & (Tons)
- Figure 18. Europe R-452aRefrigerant Consumption (2018-2029) & (Tons)
- Figure 19. Japan R-452aRefrigerant Consumption (2018-2029) & (Tons)
- Figure 20. South Korea R-452aRefrigerant Consumption (2018-2029) & (Tons)
- Figure 21. ASEAN R-452aRefrigerant Consumption (2018-2029) & (Tons)
- Figure 22. India R-452aRefrigerant Consumption (2018-2029) & (Tons)
- Figure 23. Producer Shipments of R-452aRefrigerant by Manufacturer Revenue (\$MM) and Market Share (%): 2022
- Figure 24. Global Four-firm Concentration Ratios (CR4) for R-452aRefrigerant Markets in 2022
- Figure 25. Global Four-firm Concentration Ratios (CR8) for R-452aRefrigerant Markets in 2022
- Figure 26. United States VS China: R-452aRefrigerant Production Value Market Share Comparison (2018 & 2022 & 2029)
- Figure 27. United States VS China: R-452aRefrigerant Production Market Share Comparison (2018 & 2022 & 2029)



Figure 28. United States VS China: R-452aRefrigerant Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers R-452aRefrigerant Production Market Share 2022

Figure 30. China Based Manufacturers R-452aRefrigerant Production Market Share 2022

Figure 31. Rest of World Based Manufacturers R-452aRefrigerant Production Market Share 2022

Figure 32. World R-452aRefrigerant Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World R-452aRefrigerant Production Value Market Share by Type in 2022

Figure 34. Purity Above 99.9%

Figure 35. Purity Below 99.9%

Figure 36. World R-452aRefrigerant Production Market Share by Type (2018-2029)

Figure 37. World R-452aRefrigerant Production Value Market Share by Type (2018-2029)

Figure 38. World R-452aRefrigerant Average Price by Type (2018-2029) & (US\$/Ton)

Figure 39. World R-452aRefrigerant Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 40. World R-452aRefrigerant Production Value Market Share by Application in 2022

Figure 41. Residential And Light Duty Air Conditioning

Figure 42. Automotive Air Conditioning

Figure 43. Industrial

Figure 44. Others

Figure 45. World R-452aRefrigerant Production Market Share by Application (2018-2029)

Figure 46. World R-452aRefrigerant Production Value Market Share by Application (2018-2029)

Figure 47. World R-452aRefrigerant Average Price by Application (2018-2029) & (US\$/Ton)

Figure 48. R-452aRefrigerant Industry Chain

Figure 49. R-452aRefrigerant Procurement Model

Figure 50. R-452aRefrigerant Sales Model

Figure 51. R-452aRefrigerant Sales Channels, Direct Sales, and Distribution

Figure 52. Methodology

Figure 53. Research Process and Data Source



# I would like to order

Product name: Global R-452aRefrigerant Supply, Demand and Key Producers, 2023-2029

Product link: https://marketpublishers.com/r/G6A738E4EA8CEN.html

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/G6A738E4EA8CEN.html">https://marketpublishers.com/r/G6A738E4EA8CEN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:	
Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970