

Global HFO Refrigerant Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G9FBE5A27901EN.html>

Date: February 2024

Pages: 111

Price: US\$ 3,480.00 (Single User License)

ID: G9FBE5A27901EN

Abstracts

According to our (Global Info Research) latest study, the global HFO Refrigerant market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

HFOs (hydrofluoro-olefins) are the fourth generation of fluorine-based gases. HFC refrigerants are composed of hydrogen, fluorine and carbon atoms connected by single bonds between the atoms. HFO refrigerants are composed of hydrogen, fluorine and carbon atoms but contain at least one double bond between the carbon atoms.

The first HFO, jointly developed by DuPont and Honeywell, is HFO 1234yf which is sold under the brand names Opteon YF and SOLSTICE yf. This is a low GWP (Global Warming Potential) replacement for R134a for use in mobile air conditioning (MAC) systems in the automotive sector.

HFO refrigerants are categorised as having zero ODP (Ozone Depletion Potential) and low GWP and so offer a more environmentally friendly alternative to CFCs, HCFCs and HFCs.

The Global Info Research report includes an overview of the development of the HFO Refrigerant industry chain, the market status of Automotive (R1234yf, R1234ze), Air Conditioner Appliances (R1234yf, R1234ze), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of HFO Refrigerant.

Regionally, the report analyzes the HFO Refrigerant markets in key regions. North

America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global HFO Refrigerant market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the HFO Refrigerant market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the HFO Refrigerant industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Tons), revenue generated, and market share of different by Type (e.g., R1234yf, R1234ze).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the HFO Refrigerant market.

Regional Analysis: The report involves examining the HFO Refrigerant market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the HFO Refrigerant market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to HFO Refrigerant:

Company Analysis: Report covers individual HFO Refrigerant manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and

attitudes towards HFO Refrigerant This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Air Conditioner Appliances).

Technology Analysis: Report covers specific technologies relevant to HFO Refrigerant. It assesses the current state, advancements, and potential future developments in HFO Refrigerant areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the HFO Refrigerant market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

HFO Refrigerant market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

R1234yf

R1234ze

R1234zd

Others

Market segment by Application

Automotive

Air Conditioner Appliances

Others

Major players covered

Honeywell

Chemours

Linde Gas

Gas Servei

Mitsubishi Electric

Climalife

Nippon Gases

Arkema

Huanxin Fluoro

Zhejiang Juhua Co.,Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe HFO Refrigerant product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of HFO Refrigerant, with price, sales, revenue and global market share of HFO Refrigerant from 2019 to 2024.

Chapter 3, the HFO Refrigerant competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the HFO Refrigerant breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and HFO Refrigerant market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of HFO Refrigerant.

Chapter 14 and 15, to describe HFO Refrigerant sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of HFO Refrigerant
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global HFO Refrigerant Consumption Value by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 R1234yf
 - 1.3.3 R1234ze
 - 1.3.4 R1234zd
 - 1.3.5 Others
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global HFO Refrigerant Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Automotive
 - 1.4.3 Air Conditioner Appliances
 - 1.4.4 Others
- 1.5 Global HFO Refrigerant Market Size & Forecast
 - 1.5.1 Global HFO Refrigerant Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global HFO Refrigerant Sales Quantity (2019-2030)
 - 1.5.3 Global HFO Refrigerant Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 Honeywell
 - 2.1.1 Honeywell Details
 - 2.1.2 Honeywell Major Business
 - 2.1.3 Honeywell HFO Refrigerant Product and Services
 - 2.1.4 Honeywell HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 Honeywell Recent Developments/Updates
- 2.2 Chemours
 - 2.2.1 Chemours Details
 - 2.2.2 Chemours Major Business
 - 2.2.3 Chemours HFO Refrigerant Product and Services
 - 2.2.4 Chemours HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.2.5 Chemours Recent Developments/Updates
- 2.3 Linde Gas
 - 2.3.1 Linde Gas Details
 - 2.3.2 Linde Gas Major Business
 - 2.3.3 Linde Gas HFO Refrigerant Product and Services
 - 2.3.4 Linde Gas HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.3.5 Linde Gas Recent Developments/Updates
- 2.4 Gas Servei
 - 2.4.1 Gas Servei Details
 - 2.4.2 Gas Servei Major Business
 - 2.4.3 Gas Servei HFO Refrigerant Product and Services
 - 2.4.4 Gas Servei HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.4.5 Gas Servei Recent Developments/Updates
- 2.5 Mitsubishi Electric
 - 2.5.1 Mitsubishi Electric Details
 - 2.5.2 Mitsubishi Electric Major Business
 - 2.5.3 Mitsubishi Electric HFO Refrigerant Product and Services
 - 2.5.4 Mitsubishi Electric HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.5.5 Mitsubishi Electric Recent Developments/Updates
- 2.6 Climalife
 - 2.6.1 Climalife Details
 - 2.6.2 Climalife Major Business
 - 2.6.3 Climalife HFO Refrigerant Product and Services
 - 2.6.4 Climalife HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.6.5 Climalife Recent Developments/Updates
- 2.7 Nippon Gases
 - 2.7.1 Nippon Gases Details
 - 2.7.2 Nippon Gases Major Business
 - 2.7.3 Nippon Gases HFO Refrigerant Product and Services
 - 2.7.4 Nippon Gases HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.7.5 Nippon Gases Recent Developments/Updates
- 2.8 Arkema
 - 2.8.1 Arkema Details
 - 2.8.2 Arkema Major Business

- 2.8.3 Arkema HFO Refrigerant Product and Services
- 2.8.4 Arkema HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 Arkema Recent Developments/Updates
- 2.9 Huanxin Fluoro
 - 2.9.1 Huanxin Fluoro Details
 - 2.9.2 Huanxin Fluoro Major Business
 - 2.9.3 Huanxin Fluoro HFO Refrigerant Product and Services
 - 2.9.4 Huanxin Fluoro HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.9.5 Huanxin Fluoro Recent Developments/Updates
- 2.10 Zhejiang Juhua Co.,Ltd.
 - 2.10.1 Zhejiang Juhua Co.,Ltd. Details
 - 2.10.2 Zhejiang Juhua Co.,Ltd. Major Business
 - 2.10.3 Zhejiang Juhua Co.,Ltd. HFO Refrigerant Product and Services
 - 2.10.4 Zhejiang Juhua Co.,Ltd. HFO Refrigerant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.10.5 Zhejiang Juhua Co.,Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HFO REFRIGERANT BY MANUFACTURER

- 3.1 Global HFO Refrigerant Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global HFO Refrigerant Revenue by Manufacturer (2019-2024)
- 3.3 Global HFO Refrigerant Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
 - 3.4.1 Producer Shipments of HFO Refrigerant by Manufacturer Revenue (\$MM) and Market Share (%): 2023
 - 3.4.2 Top 3 HFO Refrigerant Manufacturer Market Share in 2023
 - 3.4.2 Top 6 HFO Refrigerant Manufacturer Market Share in 2023
- 3.5 HFO Refrigerant Market: Overall Company Footprint Analysis
 - 3.5.1 HFO Refrigerant Market: Region Footprint
 - 3.5.2 HFO Refrigerant Market: Company Product Type Footprint
 - 3.5.3 HFO Refrigerant Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global HFO Refrigerant Market Size by Region

- 4.1.1 Global HFO Refrigerant Sales Quantity by Region (2019-2030)
- 4.1.2 Global HFO Refrigerant Consumption Value by Region (2019-2030)
- 4.1.3 Global HFO Refrigerant Average Price by Region (2019-2030)
- 4.2 North America HFO Refrigerant Consumption Value (2019-2030)
- 4.3 Europe HFO Refrigerant Consumption Value (2019-2030)
- 4.4 Asia-Pacific HFO Refrigerant Consumption Value (2019-2030)
- 4.5 South America HFO Refrigerant Consumption Value (2019-2030)
- 4.6 Middle East and Africa HFO Refrigerant Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global HFO Refrigerant Sales Quantity by Type (2019-2030)
- 5.2 Global HFO Refrigerant Consumption Value by Type (2019-2030)
- 5.3 Global HFO Refrigerant Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global HFO Refrigerant Sales Quantity by Application (2019-2030)
- 6.2 Global HFO Refrigerant Consumption Value by Application (2019-2030)
- 6.3 Global HFO Refrigerant Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America HFO Refrigerant Sales Quantity by Type (2019-2030)
- 7.2 North America HFO Refrigerant Sales Quantity by Application (2019-2030)
- 7.3 North America HFO Refrigerant Market Size by Country
 - 7.3.1 North America HFO Refrigerant Sales Quantity by Country (2019-2030)
 - 7.3.2 North America HFO Refrigerant Consumption Value by Country (2019-2030)
 - 7.3.3 United States Market Size and Forecast (2019-2030)
 - 7.3.4 Canada Market Size and Forecast (2019-2030)
 - 7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

- 8.1 Europe HFO Refrigerant Sales Quantity by Type (2019-2030)
- 8.2 Europe HFO Refrigerant Sales Quantity by Application (2019-2030)
- 8.3 Europe HFO Refrigerant Market Size by Country
 - 8.3.1 Europe HFO Refrigerant Sales Quantity by Country (2019-2030)
 - 8.3.2 Europe HFO Refrigerant Consumption Value by Country (2019-2030)

- 8.3.3 Germany Market Size and Forecast (2019-2030)
- 8.3.4 France Market Size and Forecast (2019-2030)
- 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
- 8.3.6 Russia Market Size and Forecast (2019-2030)
- 8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific HFO Refrigerant Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific HFO Refrigerant Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific HFO Refrigerant Market Size by Region
 - 9.3.1 Asia-Pacific HFO Refrigerant Sales Quantity by Region (2019-2030)
 - 9.3.2 Asia-Pacific HFO Refrigerant Consumption Value by Region (2019-2030)
 - 9.3.3 China Market Size and Forecast (2019-2030)
 - 9.3.4 Japan Market Size and Forecast (2019-2030)
 - 9.3.5 Korea Market Size and Forecast (2019-2030)
 - 9.3.6 India Market Size and Forecast (2019-2030)
 - 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
 - 9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

- 10.1 South America HFO Refrigerant Sales Quantity by Type (2019-2030)
- 10.2 South America HFO Refrigerant Sales Quantity by Application (2019-2030)
- 10.3 South America HFO Refrigerant Market Size by Country
 - 10.3.1 South America HFO Refrigerant Sales Quantity by Country (2019-2030)
 - 10.3.2 South America HFO Refrigerant Consumption Value by Country (2019-2030)
 - 10.3.3 Brazil Market Size and Forecast (2019-2030)
 - 10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa HFO Refrigerant Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa HFO Refrigerant Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa HFO Refrigerant Market Size by Country
 - 11.3.1 Middle East & Africa HFO Refrigerant Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa HFO Refrigerant Consumption Value by Country (2019-2030)
 - 11.3.3 Turkey Market Size and Forecast (2019-2030)

- 11.3.4 Egypt Market Size and Forecast (2019-2030)
- 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
- 11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 HFO Refrigerant Market Drivers
- 12.2 HFO Refrigerant Market Restraints
- 12.3 HFO Refrigerant Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of HFO Refrigerant and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of HFO Refrigerant
- 13.3 HFO Refrigerant Production Process
- 13.4 HFO Refrigerant Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 HFO Refrigerant Typical Distributors
- 14.3 HFO Refrigerant Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global HFO Refrigerant Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global HFO Refrigerant Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Honeywell Basic Information, Manufacturing Base and Competitors

Table 4. Honeywell Major Business

Table 5. Honeywell HFO Refrigerant Product and Services

Table 6. Honeywell HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Honeywell Recent Developments/Updates

Table 8. Chemours Basic Information, Manufacturing Base and Competitors

Table 9. Chemours Major Business

Table 10. Chemours HFO Refrigerant Product and Services

Table 11. Chemours HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Chemours Recent Developments/Updates

Table 13. Linde Gas Basic Information, Manufacturing Base and Competitors

Table 14. Linde Gas Major Business

Table 15. Linde Gas HFO Refrigerant Product and Services

Table 16. Linde Gas HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Linde Gas Recent Developments/Updates

Table 18. Gas Servei Basic Information, Manufacturing Base and Competitors

Table 19. Gas Servei Major Business

Table 20. Gas Servei HFO Refrigerant Product and Services

Table 21. Gas Servei HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Gas Servei Recent Developments/Updates

Table 23. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors

Table 24. Mitsubishi Electric Major Business

Table 25. Mitsubishi Electric HFO Refrigerant Product and Services

Table 26. Mitsubishi Electric HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Mitsubishi Electric Recent Developments/Updates

Table 28. Climalife Basic Information, Manufacturing Base and Competitors

- Table 29. Climalife Major Business
- Table 30. Climalife HFO Refrigerant Product and Services
- Table 31. Climalife HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. Climalife Recent Developments/Updates
- Table 33. Nippon Gases Basic Information, Manufacturing Base and Competitors
- Table 34. Nippon Gases Major Business
- Table 35. Nippon Gases HFO Refrigerant Product and Services
- Table 36. Nippon Gases HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. Nippon Gases Recent Developments/Updates
- Table 38. Arkema Basic Information, Manufacturing Base and Competitors
- Table 39. Arkema Major Business
- Table 40. Arkema HFO Refrigerant Product and Services
- Table 41. Arkema HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. Arkema Recent Developments/Updates
- Table 43. Huanxin Fluoro Basic Information, Manufacturing Base and Competitors
- Table 44. Huanxin Fluoro Major Business
- Table 45. Huanxin Fluoro HFO Refrigerant Product and Services
- Table 46. Huanxin Fluoro HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. Huanxin Fluoro Recent Developments/Updates
- Table 48. Zhejiang Juhua Co.,Ltd. Basic Information, Manufacturing Base and Competitors
- Table 49. Zhejiang Juhua Co.,Ltd. Major Business
- Table 50. Zhejiang Juhua Co.,Ltd. HFO Refrigerant Product and Services
- Table 51. Zhejiang Juhua Co.,Ltd. HFO Refrigerant Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 52. Zhejiang Juhua Co.,Ltd. Recent Developments/Updates
- Table 53. Global HFO Refrigerant Sales Quantity by Manufacturer (2019-2024) & (Tons)
- Table 54. Global HFO Refrigerant Revenue by Manufacturer (2019-2024) & (USD Million)
- Table 55. Global HFO Refrigerant Average Price by Manufacturer (2019-2024) & (US\$/Ton)
- Table 56. Market Position of Manufacturers in HFO Refrigerant, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
- Table 57. Head Office and HFO Refrigerant Production Site of Key Manufacturer

- Table 58. HFO Refrigerant Market: Company Product Type Footprint
- Table 59. HFO Refrigerant Market: Company Product Application Footprint
- Table 60. HFO Refrigerant New Market Entrants and Barriers to Market Entry
- Table 61. HFO Refrigerant Mergers, Acquisition, Agreements, and Collaborations
- Table 62. Global HFO Refrigerant Sales Quantity by Region (2019-2024) & (Tons)
- Table 63. Global HFO Refrigerant Sales Quantity by Region (2025-2030) & (Tons)
- Table 64. Global HFO Refrigerant Consumption Value by Region (2019-2024) & (USD Million)
- Table 65. Global HFO Refrigerant Consumption Value by Region (2025-2030) & (USD Million)
- Table 66. Global HFO Refrigerant Average Price by Region (2019-2024) & (US\$/Ton)
- Table 67. Global HFO Refrigerant Average Price by Region (2025-2030) & (US\$/Ton)
- Table 68. Global HFO Refrigerant Sales Quantity by Type (2019-2024) & (Tons)
- Table 69. Global HFO Refrigerant Sales Quantity by Type (2025-2030) & (Tons)
- Table 70. Global HFO Refrigerant Consumption Value by Type (2019-2024) & (USD Million)
- Table 71. Global HFO Refrigerant Consumption Value by Type (2025-2030) & (USD Million)
- Table 72. Global HFO Refrigerant Average Price by Type (2019-2024) & (US\$/Ton)
- Table 73. Global HFO Refrigerant Average Price by Type (2025-2030) & (US\$/Ton)
- Table 74. Global HFO Refrigerant Sales Quantity by Application (2019-2024) & (Tons)
- Table 75. Global HFO Refrigerant Sales Quantity by Application (2025-2030) & (Tons)
- Table 76. Global HFO Refrigerant Consumption Value by Application (2019-2024) & (USD Million)
- Table 77. Global HFO Refrigerant Consumption Value by Application (2025-2030) & (USD Million)
- Table 78. Global HFO Refrigerant Average Price by Application (2019-2024) & (US\$/Ton)
- Table 79. Global HFO Refrigerant Average Price by Application (2025-2030) & (US\$/Ton)
- Table 80. North America HFO Refrigerant Sales Quantity by Type (2019-2024) & (Tons)
- Table 81. North America HFO Refrigerant Sales Quantity by Type (2025-2030) & (Tons)
- Table 82. North America HFO Refrigerant Sales Quantity by Application (2019-2024) & (Tons)
- Table 83. North America HFO Refrigerant Sales Quantity by Application (2025-2030) & (Tons)
- Table 84. North America HFO Refrigerant Sales Quantity by Country (2019-2024) & (Tons)
- Table 85. North America HFO Refrigerant Sales Quantity by Country (2025-2030) & (Tons)

(Tons)

Table 86. North America HFO Refrigerant Consumption Value by Country (2019-2024) & (USD Million)

Table 87. North America HFO Refrigerant Consumption Value by Country (2025-2030) & (USD Million)

Table 88. Europe HFO Refrigerant Sales Quantity by Type (2019-2024) & (Tons)

Table 89. Europe HFO Refrigerant Sales Quantity by Type (2025-2030) & (Tons)

Table 90. Europe HFO Refrigerant Sales Quantity by Application (2019-2024) & (Tons)

Table 91. Europe HFO Refrigerant Sales Quantity by Application (2025-2030) & (Tons)

Table 92. Europe HFO Refrigerant Sales Quantity by Country (2019-2024) & (Tons)

Table 93. Europe HFO Refrigerant Sales Quantity by Country (2025-2030) & (Tons)

Table 94. Europe HFO Refrigerant Consumption Value by Country (2019-2024) & (USD Million)

Table 95. Europe HFO Refrigerant Consumption Value by Country (2025-2030) & (USD Million)

Table 96. Asia-Pacific HFO Refrigerant Sales Quantity by Type (2019-2024) & (Tons)

Table 97. Asia-Pacific HFO Refrigerant Sales Quantity by Type (2025-2030) & (Tons)

Table 98. Asia-Pacific HFO Refrigerant Sales Quantity by Application (2019-2024) & (Tons)

Table 99. Asia-Pacific HFO Refrigerant Sales Quantity by Application (2025-2030) & (Tons)

Table 100. Asia-Pacific HFO Refrigerant Sales Quantity by Region (2019-2024) & (Tons)

Table 101. Asia-Pacific HFO Refrigerant Sales Quantity by Region (2025-2030) & (Tons)

Table 102. Asia-Pacific HFO Refrigerant Consumption Value by Region (2019-2024) & (USD Million)

Table 103. Asia-Pacific HFO Refrigerant Consumption Value by Region (2025-2030) & (USD Million)

Table 104. South America HFO Refrigerant Sales Quantity by Type (2019-2024) & (Tons)

Table 105. South America HFO Refrigerant Sales Quantity by Type (2025-2030) & (Tons)

Table 106. South America HFO Refrigerant Sales Quantity by Application (2019-2024) & (Tons)

Table 107. South America HFO Refrigerant Sales Quantity by Application (2025-2030) & (Tons)

Table 108. South America HFO Refrigerant Sales Quantity by Country (2019-2024) & (Tons)

Table 109. South America HFO Refrigerant Sales Quantity by Country (2025-2030) & (Tons)

Table 110. South America HFO Refrigerant Consumption Value by Country (2019-2024) & (USD Million)

Table 111. South America HFO Refrigerant Consumption Value by Country (2025-2030) & (USD Million)

Table 112. Middle East & Africa HFO Refrigerant Sales Quantity by Type (2019-2024) & (Tons)

Table 113. Middle East & Africa HFO Refrigerant Sales Quantity by Type (2025-2030) & (Tons)

Table 114. Middle East & Africa HFO Refrigerant Sales Quantity by Application (2019-2024) & (Tons)

Table 115. Middle East & Africa HFO Refrigerant Sales Quantity by Application (2025-2030) & (Tons)

Table 116. Middle East & Africa HFO Refrigerant Sales Quantity by Region (2019-2024) & (Tons)

Table 117. Middle East & Africa HFO Refrigerant Sales Quantity by Region (2025-2030) & (Tons)

Table 118. Middle East & Africa HFO Refrigerant Consumption Value by Region (2019-2024) & (USD Million)

Table 119. Middle East & Africa HFO Refrigerant Consumption Value by Region (2025-2030) & (USD Million)

Table 120. HFO Refrigerant Raw Material

Table 121. Key Manufacturers of HFO Refrigerant Raw Materials

Table 122. HFO Refrigerant Typical Distributors

Table 123. HFO Refrigerant Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. HFO Refrigerant Picture

Figure 2. Global HFO Refrigerant Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global HFO Refrigerant Consumption Value Market Share by Type in 2023

Figure 4. R1234yf Examples

Figure 5. R1234ze Examples

Figure 6. R1234zd Examples

Figure 7. Others Examples

Figure 8. Global HFO Refrigerant Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 9. Global HFO Refrigerant Consumption Value Market Share by Application in 2023

Figure 10. Automotive Examples

Figure 11. Air Conditioner Appliances Examples

Figure 12. Others Examples

Figure 13. Global HFO Refrigerant Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 14. Global HFO Refrigerant Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 15. Global HFO Refrigerant Sales Quantity (2019-2030) & (Tons)

Figure 16. Global HFO Refrigerant Average Price (2019-2030) & (US\$/Ton)

Figure 17. Global HFO Refrigerant Sales Quantity Market Share by Manufacturer in 2023

Figure 18. Global HFO Refrigerant Consumption Value Market Share by Manufacturer in 2023

Figure 19. Producer Shipments of HFO Refrigerant by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 20. Top 3 HFO Refrigerant Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Top 6 HFO Refrigerant Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Global HFO Refrigerant Sales Quantity Market Share by Region (2019-2030)

Figure 23. Global HFO Refrigerant Consumption Value Market Share by Region (2019-2030)

Figure 24. North America HFO Refrigerant Consumption Value (2019-2030) & (USD

Million)

Figure 25. Europe HFO Refrigerant Consumption Value (2019-2030) & (USD Million)

Figure 26. Asia-Pacific HFO Refrigerant Consumption Value (2019-2030) & (USD Million)

Figure 27. South America HFO Refrigerant Consumption Value (2019-2030) & (USD Million)

Figure 28. Middle East & Africa HFO Refrigerant Consumption Value (2019-2030) & (USD Million)

Figure 29. Global HFO Refrigerant Sales Quantity Market Share by Type (2019-2030)

Figure 30. Global HFO Refrigerant Consumption Value Market Share by Type (2019-2030)

Figure 31. Global HFO Refrigerant Average Price by Type (2019-2030) & (US\$/Ton)

Figure 32. Global HFO Refrigerant Sales Quantity Market Share by Application (2019-2030)

Figure 33. Global HFO Refrigerant Consumption Value Market Share by Application (2019-2030)

Figure 34. Global HFO Refrigerant Average Price by Application (2019-2030) & (US\$/Ton)

Figure 35. North America HFO Refrigerant Sales Quantity Market Share by Type (2019-2030)

Figure 36. North America HFO Refrigerant Sales Quantity Market Share by Application (2019-2030)

Figure 37. North America HFO Refrigerant Sales Quantity Market Share by Country (2019-2030)

Figure 38. North America HFO Refrigerant Consumption Value Market Share by Country (2019-2030)

Figure 39. United States HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Canada HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Mexico HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Europe HFO Refrigerant Sales Quantity Market Share by Type (2019-2030)

Figure 43. Europe HFO Refrigerant Sales Quantity Market Share by Application (2019-2030)

Figure 44. Europe HFO Refrigerant Sales Quantity Market Share by Country (2019-2030)

Figure 45. Europe HFO Refrigerant Consumption Value Market Share by Country (2019-2030)

- Figure 46. Germany HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 47. France HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 48. United Kingdom HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 49. Russia HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 50. Italy HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 51. Asia-Pacific HFO Refrigerant Sales Quantity Market Share by Type (2019-2030)
- Figure 52. Asia-Pacific HFO Refrigerant Sales Quantity Market Share by Application (2019-2030)
- Figure 53. Asia-Pacific HFO Refrigerant Sales Quantity Market Share by Region (2019-2030)
- Figure 54. Asia-Pacific HFO Refrigerant Consumption Value Market Share by Region (2019-2030)
- Figure 55. China HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 56. Japan HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 57. Korea HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 58. India HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 59. Southeast Asia HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 60. Australia HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 61. South America HFO Refrigerant Sales Quantity Market Share by Type (2019-2030)
- Figure 62. South America HFO Refrigerant Sales Quantity Market Share by Application (2019-2030)
- Figure 63. South America HFO Refrigerant Sales Quantity Market Share by Country (2019-2030)
- Figure 64. South America HFO Refrigerant Consumption Value Market Share by Country (2019-2030)
- Figure 65. Brazil HFO Refrigerant Consumption Value and Growth Rate (2019-2030) &

(USD Million)

Figure 66. Argentina HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Middle East & Africa HFO Refrigerant Sales Quantity Market Share by Type (2019-2030)

Figure 68. Middle East & Africa HFO Refrigerant Sales Quantity Market Share by Application (2019-2030)

Figure 69. Middle East & Africa HFO Refrigerant Sales Quantity Market Share by Region (2019-2030)

Figure 70. Middle East & Africa HFO Refrigerant Consumption Value Market Share by Region (2019-2030)

Figure 71. Turkey HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Egypt HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Saudi Arabia HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. South Africa HFO Refrigerant Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. HFO Refrigerant Market Drivers

Figure 76. HFO Refrigerant Market Restraints

Figure 77. HFO Refrigerant Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of HFO Refrigerant in 2023

Figure 80. Manufacturing Process Analysis of HFO Refrigerant

Figure 81. HFO Refrigerant Industrial Chain

Figure 82. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

I would like to order

Product name: Global HFO Refrigerant Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

Product link: <https://marketpublishers.com/r/G9FBE5A27901EN.html>

Price: US\$ 3,480.00 (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 <https://marketpublishers.com/r/G9FBE5A27901EN.html>

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**

Customer signature _____

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

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

