

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

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Abstracts

According to our (Global Info Research) latest study, the global HFC Refrigerant market size was valued at USD 3717.5 million in 2023 and is forecast to a readjusted size of USD 2553.3 million by 2030 with a CAGR of -5.2% during review period.

Refrigerants are generally in the fluid form and are used in a heat pump or refrigeration process. They primarily are of three types: Chlorofluorocarbons (CFC), Hydro chlorofluorocarbons (HCFC), and Hydro-fluorocarbons (HFC). All these types are believed to be hazardous to environment. HFCs are third generation of CFCs which do not deplete ozone layer, but are potentially greenhouse gases.

Hydrofluorocarbon (HFC), any of several organic compounds composed of hydrogen, fluorine, and carbon. HFCs are produced synthetically and are used primarily as refrigerants. They became widely used for this purpose beginning in the late 1980s, with the introduction of the Montreal Protocol, which phased out the use of chemicals such as halons and chlorofluorocarbons (CFCs) that contribute to the depletion of Earth's ozone layer. However, while HFCs have an ozone depletion potential of zero, they are potent greenhouse gases, and thus their manufacture and use became increasingly regulated in the 21st century.

In general, HFCs are relatively nonflammable, chemically stable, and nonreactive. Many are colorless, odorless gases, but some—such as HFC-365mfc (1, 1, 1, 3, 3-pentafluorobutane)—are liquids at room temperature. As refrigerants, HFCs are used in a wide variety of cooling systems, from refrigerators and freezers to automotive air-conditioning units. HFCs are also used as blowing agents in the production of polymer foams; as firefighting agents (having replaced halons); as solvents in cleaning products for plastics and metals and in plasma etching for semiconductor technology; and as

propellants in metered-dose inhalers prescribed for the treatment of asthma.

The most popular hydro-fluorocarbon (HFC) refrigerants for new commercial Air Conditioner systems include R-410A and R-134a.

Global major players of HFC refrigerant are Chemours, Arkema, Daikin. The top 5 companies hold a share about 50%. China is the largest market, with a share about 30%, followed by North America and Europe with the share about 27% and 20%. In terms of product, R-134a is the largest segment, with a share about 35%. And in terms of application, the largest application is air conditioner, followed by automotive air conditioner.

The Global Info Research report includes an overview of the development of the HFC Refrigerant industry chain, the market status of Air Condition (R-32, R-134a), Automotive Air Conditioner (R-32, R-134a), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of HFC Refrigerant.

Regionally, the report analyzes the HFC 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 HFC Refrigerant market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the HFC 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 HFC 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 (K MT), revenue generated, and market share of different by Type (e.g., R-32, R-134a).

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 HFC Refrigerant market.

Regional Analysis: The report involves examining the HFC 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 HFC 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 HFC Refrigerant:

Company Analysis: Report covers individual HFC 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 HFC Refrigerant. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Air Condition, Automotive Air Conditioner).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the HFC 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

HFC 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

R-32

R-134a

R-410A

Others

Market segment by Application

Air Condition

Automotive Air Conditioner

Refrigerator

Others

Major players covered

Orbia

Zhejiang Juhua

Chemours

Arkema

Sanmei

Daikin

Honeywell

Dongyue Group

Sinochem Group

Meilan Chemical

Linde

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 HFC Refrigerant product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the HFC 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 HFC 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 HFC Refrigerant.

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

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