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# Global Environmentally Friendly Refrigerants for Automobiles Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Environmentally Friendly Refrigerants for Automobiles market size was valued at US$ 1892 million in 2025 and is forecast to a readjusted size of US$ 3297 million by 2032 with a CAGR of 8.3% during review period.

In 2025, the global production of environmentally friendly refrigerants for automobiles reached approximately 61,300 tons, with an average global market price of around USUS$30,000 per ton. In the same year, the global total production capacity of environmentally friendly refrigerants for automobiles reached 76,625 tons. The industry average gross profit margin of this product reached 32%.

Environmentally friendly refrigerants for automobiles refer to a new generation of refrigerants used in automotive air conditioning systems to facilitate the refrigeration cycle and lower cabin temperatures while complying with global environmental regulations. These refrigerants primarily include low-Global Warming Potential (GWP) HFO-based refrigerants (such as R1234yf), natural refrigerants (such as CO?/R744), low-GWP refrigerant blends, and other novel eco-friendly alternatives. Compared to the traditional high-GWP refrigerant R134a, these eco-friendly alternatives offer a reduced greenhouse effect and superior environmental compatibility, aligning with policy trends such as the EU's Mobile Air Conditioning (MAC) Directive, the US EPA's SNAP regulations, and China's environmental upgrade requirements for the automotive industry. Currently, R1234yf has become the mainstream replacement for passenger vehicle air conditioning systems globally, while R744 (CO?) is primarily utilized in new energy vehicles (NEVs), high-end models, and future heat pump air conditioning systems.

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The industry value chain for eco-friendly automotive refrigerants comprises three main segments: upstream raw material supply, midstream refrigerant production and auxiliary equipment manufacturing, and downstream application in automotive air conditioning systems. The upstream segment primarily involves basic fluorochemical raw materials?such as hydrogen fluoride (HF), chlorides, tetrafluoroethylene (TFE), hexafluoropropylene (HFP), catalysts, and CO? sources?with supply capacity influenced by fluorspar resources, energy costs, and environmental policies. The midstream segment consists mainly of manufacturers producing eco-friendly refrigerants (such as R1234yf, R134a alternatives, and R744) through processes like polymerization, fluorination, distillation, and blending; it also encompasses the manufacturing of refrigerant recovery, charging, and testing equipment. The downstream segment focuses on applications in automotive air conditioning compressors, thermal management systems, and vehicle manufacturing, covering traditional internal combustion engine vehicles, new energy vehicles, hybrid vehicles, commercial vehicles, and construction machinery. As the complexity of thermal management systems in new energy vehicles increases, automotive refrigerants are evolving from simple cooling media into critical materials for vehicle-wide thermal management.

The industry for eco-friendly automotive refrigerants holds significant growth potential, driven primarily by the tightening of global automotive environmental regulations, the rapid expansion of the new energy vehicle market, and policies aimed at carbon emission reduction. The EU mandate requiring automotive air conditioning systems to use refrigerants with a Global Warming Potential (GWP) of less than 150 has accelerated the replacement of R134a with R1234yf; meanwhile, markets such as the US, China, and Japan continue to promote the adoption of low-carbon refrigeration technologies. The rise of new energy vehicles (NEVs)?driven by the need for effective battery thermal management and cabin comfort?has further boosted demand for high-performance, eco-friendly refrigerants. Future industry development will focus on novel refrigerants characterized by low GWP, high efficiency, and enhanced safety, such as R1234yf, R744, and next-generation, low-cost HFO blends. While the market for eco-friendly automotive refrigerants is projected to grow rapidly alongside the expanding global vehicle population and rising NEV penetration, the industry also faces challenges, including high HFO production costs, patent barriers, and increasingly stringent environmental regulations within the fluorochemical sector.

This report is a detailed and comprehensive analysis for global Environmentally Friendly Refrigerants for Automobiles market. Both quantitative and qualitative analyses are

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presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Environmentally Friendly Refrigerants for Automobiles market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Environmentally Friendly Refrigerants for Automobiles market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Environmentally Friendly Refrigerants for Automobiles market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Environmentally Friendly Refrigerants for Automobiles market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Environmentally Friendly Refrigerants for Automobiles

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Environmentally Friendly Refrigerants for Automobiles market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and

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key developments. Key companies covered as a part of this study include Daikin, Chemours Company, Honeywell, Arkema, Linde Gas, Air Products, Air Liquide, Messer, Juhua Group, Showa Denko, etc.

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

Market Segmentation

Environmentally Friendly Refrigerants for Automobiles market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

R-1234yf

R-744

R-474A

Others

Market segment by Environmental Performance

Ultra-low GWP Natural Refrigerants

Ultra-low GWP HFOs

Low-to-medium GWP Refrigerants

Market segment by Safety Class

Class A1

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Class A2

Class A3

Market segment by Application

Commercial Vehicles

Passenger Vehicles

Major players covered

Daikin

Chemours Company

Honeywell

Arkema

Linde Gas

Air Products

Air Liquide

Messer

Juhua Group

Showa Denko

Sinochemlt

Koura Global

Dongyue Group

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Zhejiang Sanmei Chemical

Yonghe Refrigerant

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 Environmentally Friendly Refrigerants for Automobiles product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Environmentally Friendly Refrigerants for Automobiles, with price, sales quantity, revenue, and global market share of Environmentally Friendly Refrigerants for Automobiles from 2021 to 2026.

Chapter 3, the Environmentally Friendly Refrigerants for Automobiles competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Environmentally Friendly Refrigerants for Automobiles breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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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 2021 to 2026.and Environmentally Friendly Refrigerants for Automobiles market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Environmentally Friendly Refrigerants for Automobiles.

Chapter 14 and 15, to describe Environmentally Friendly Refrigerants for Automobiles sales channel, distributors, customers, research findings and conclusion.

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