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Global Low-GWP HFC Refrigerants 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 Low-GWP HFC Refrigerants market size was valued at US$ 4149 million in 2025 and is forecast to a readjusted size of US$ 5929 million by 2032 with a CAGR of 5.3% during review period.

In 2025, the global production of low-GWP HFC refrigerants reached approximately 670,000 tons, with an average global market price of around US$6/kg. In the same year, the global total production capacity of low-GWP HFC refrigerants reached 840,000 tons. The industry average gross profit margin of this product reached 35%.Low-GWP HFC refrigerants are a class of transitional or optimized refrigerants derived from traditional HFC systems through single-component optimization or blending; they possess a Global Warming Potential (GWP) significantly lower than that of mainstream high-GWP HFCs. Typical examples include HFC-32 (R32) and various HFC/HFO blends. While maintaining high cooling efficiency, favorable thermodynamic properties, and equipment compatibility, these refrigerants mitigate greenhouse gas impacts, thereby meeting the industry's need to phase down high-GWP refrigerants in accordance with the Kigali Amendment. They are widely used in air conditioning, heat pumps, and commercial refrigeration systems (medium- and low-temperature).

The upstream segment of the low-GWP HFC refrigerant value chain primarily comprises basic fluorochemical raw materials and intermediates. The midstream consists of refrigerant synthesis and blending enterprises responsible for producing R32, modified R134a systems, and HFC/HFO blends, as well as handling purification, packaging, and formulation optimization. The downstream sector encompasses the manufacturing of air conditioners and heat pumps, cold chain logistics equipment, industrial refrigeration systems, and the aftermarket for servicing and recharging. Additionally, equipment

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manufacturers (such as compressor and heat exchanger producers) collaborate with refrigerant manufacturers to drive the industry-wide transition from high-GWP to low-GWP technologies.

Driven by the ongoing implementation of the Kigali Amendment to the Montreal Protocol, the global refrigeration industry is undergoing a structural shift from high-GWP HFCs toward low-GWP alternatives, and ultimately to HFOs or natural refrigerants. As a 'transitional solution,' low-GWP HFC refrigerants offer a favorable balance between compatibility with existing equipment, retrofit costs, and safety, ensuring continued strong demand in the replacement market for installed systems. Future growth will be fueled by upgrades in air conditioner energy efficiency, increased heat pump adoption, expanding refrigeration demand in developing countries, and the replacement of legacy R22 and R404A systems. However, in the long term, their market share is expected to be gradually eroded by HFOs and natural refrigerants, following a typical trajectory of 'medium-term growth followed by long-term displacement.'

This report is a detailed and comprehensive analysis for global Low-GWP HFC Refrigerants market. Both quantitative and qualitative analyses are 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 Low-GWP HFC Refrigerants market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/kg), 2021-2032

Global Low-GWP HFC Refrigerants market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/kg), 2021-2032

Global Low-GWP HFC Refrigerants market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/kg), 2021-2032

Global Low-GWP HFC Refrigerants market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/kg), 2021-2026

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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 Low-GWP HFC Refrigerants

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 Low-GWP HFC Refrigerants market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Daikin, Honeywell, Chemours, Arkema, Mitsubishi, Orbia, Zhejiang Juhua, Dongyue Group, Sanmei, Gujarat Fluorochemicals, etc.

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

Market Segmentation

Low-GWP HFC Refrigerants 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

R32

R1234yf

R1233zd

Others

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Market segment by GWP Level

- Medium-to-low GWP HFC
- Lower GWP HFC

Market segment by Temperature Range

- Medium Temperature
- Low Temperature
- Ultra-low Temperature

Market segment by Application

- Home Air Conditioners
- Commercial Air Conditioners
- Car Air Conditioners
- Others

Major players covered

- Daikin
- Honeywell
- Chemours
- Arkema
- Mitsubishi

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Orbia

Zhejiang Juhua

Dongyue Group

Sanmei

Gujarat Fluorochemicals

SRF Ltd

JCI-YORK

Carrier

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 Low-GWP HFC Refrigerants product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low-GWP HFC Refrigerants, with price, sales quantity, revenue, and global market share of Low-GWP HFC Refrigerants from 2021 to 2026.

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

Chapter 4, the Low-GWP HFC Refrigerants 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.

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 Low-GWP HFC Refrigerants 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 Low-GWP HFC Refrigerants.

Chapter 14 and 15, to describe Low-GWP HFC Refrigerants sales channel, distributors, customers, research findings and conclusion.

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