

Global Third-generation HFCs Refrigerant Market Growth 2025-2031

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Abstracts

The global Third-generation HFCs Refrigerant market size is predicted to grow from US\$ 9704 million in 2025 to US\$ 89500 million in 2031; it is expected to grow at a CAGR of 44.8% from 2025 to 2031.

Refrigerant is a medium used in various heat engines to complete energy conversion, mainly consisting of fluorinated refrigerants. It can be divided into various types such as ammonia, nitrogen, fluorine containing, water, and hydrocarbons, among which fluorine refrigerants with excellent thermodynamic performance are the most common. The third generation of Hydrofluorocarbon (HFCs) refrigerants are represented by HFC-32 (R32), HFC-134a (R134A), HFC-125 (R125) and HFC-410a (R410a). Their ODP is zero and does not damage the ozone layer, but their GWP value is high and the greenhouse effect is significant. The third-generation refrigerants are widely used abroad and are currently in the early stages of elimination in some developed countries. Some developing countries, including China, have entered the quota benchmark period (2020-2022), during which the production and sales of third-generation refrigerants will become the main reference index for future production enterprises to obtain quotas. The replacement process of refrigerant is slow. It usually takes 8-10 years from the beginning of using a refrigerant to the end of the refrigeration equipment. The third generation HFCs refrigerant still has a large demand space. It is estimated that due to the growth of applications such as AI servers and the reduction of the second generation refrigerant caused by quota agreements, the CAGR of the third generation HFCs refrigerant is expected to be 43.2% in the next five years (2023-2029), and the market size will be 44348 million dollars in 2029, while the market will face a decline after 2029.

LP Information, Inc. (LPI) ' newest research report, the "Third-generation HFCs

Refrigerant Industry Forecast” looks at past sales and reviews total world Third-generation HFCs Refrigerant sales in 2024, providing a comprehensive analysis by region and market sector of projected Third-generation HFCs Refrigerant sales for 2025 through 2031. With Third-generation HFCs Refrigerant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Third-generation HFCs Refrigerant industry.

This Insight Report provides a comprehensive analysis of the global Third-generation HFCs Refrigerant landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Third-generation HFCs Refrigerant portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Third-generation HFCs Refrigerant market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Third-generation HFCs Refrigerant and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Third-generation HFCs Refrigerant.

This report presents a comprehensive overview, market shares, and growth opportunities of Third-generation HFCs Refrigerant market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

R125 Refrigerant

R134a Refrigerant

R32 Refrigerant

R410a Refrigerant

Other

Segmentation by Application:

Refrigerator and Freezer

Air Conditioner

Fire-fighting Equipment

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Chemours

Arkema

Daikin

Orbia Advance Corporation

Honeywell

Shandong Dongyue Organosilicon Materials Co.,Ltd.

Zhejiang Juhua Co.,Ltd.

Jiangsu Meilan Co.,Ltd.

Zhonghao Chenguang Co.,Ltd.

Zhejiang Sanmei Co.,Ltd.

Zhejiang Yonghe Refrigerant Co.,Ltd.

Luxi Chemical Group Co.,Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Third-generation HFCs Refrigerant market?

What factors are driving Third-generation HFCs Refrigerant market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Third-generation HFCs Refrigerant market opportunities vary by end market size?

How does Third-generation HFCs Refrigerant break out by Type, by Application?

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