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Global R290 Compressor Market Growth 2026-2032

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Abstracts

The global R290 Compressor market size is predicted to grow from US$ 1057 million in 2025 to US$ 1520 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

In 2025, global R290 compressor production reached approximately 13.17 million units, with an average global market price of around US$82 per unit. In 2025, the global 's total production capacity of R290 compressor reached 16.46 million units. The industry average gross profit margin of this product has reached 22%.

An R290 compressor is a refrigeration compressor specifically designed for use with R290 as the refrigerant. It primarily works by compressing low-pressure gaseous R290 refrigerant, increasing its pressure and temperature, and driving the refrigerant in a continuous refrigeration cycle consisting of an evaporator, compressor, condenser, and throttling device, thereby achieving refrigeration, freezing, or heat pump heating functions. R290 is a natural hydrocarbon refrigerant with an ozone depletion potential (ODP) of 0 and a low global warming potential (GWP), exhibiting good thermodynamic properties and high energy efficiency potential. However, it is also classified as a Group A3 flammable refrigerant. Therefore, R290 compressors typically need to meet corresponding fire prevention, leakage prevention, and refrigerant charging safety requirements in terms of motor, wiring terminals, electrical components, sealing structures, lubrication systems, and overall system safety design. Structurally, R290 compressors can include reciprocating compressors, rotary compressors, and scroll compressors, and are widely used in household refrigerators and freezers, commercial refrigeration equipment, heat pumps, air conditioners, cold chain logistics for food retail, and other refrigeration systems using low-GWP natural refrigerants.

The upstream of the R290 compressor industry chain mainly includes metal materials such as steel, cast iron and aluminum alloys, motor materials such as copper wire,

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permanent magnet materials, and electrical steel, as well as key components such as bearings, crankshafts, pistons, rollers, scrolls, valves, seals, lubricants, electrical terminals and controllers. It also involves R290 refrigerant and compressor processing, casting, precision machinery manufacturing and motor manufacturing equipment suppliers; the midstream is an R290 compressor manufacturing enterprise, responsible for the compression mechanism, motor, shell, lubrication and sealing system R&D design, processing and assembly, performance testing and safety certification, and develop products of different specifications based on cooling capacity, displacement, rotation speed, evaporation temperature, condensation temperature and application scenarios; downstream mainly includes refrigerators and freezers, commercial display cabinets, beverage freezers, ice machines, food retail refrigeration equipment, heat pump water heaters, heat pump heating equipment, air conditioners and other refrigeration equipment manufacturers, ultimately serving end markets such as households, supermarket convenience stores, catering, food processing, cold chain logistics and building heating. As refrigeration equipment manufacturers switch from traditional HFC refrigerants to low-GWP natural refrigerants, the degree of collaborative development between compressor companies, system equipment manufacturers, refrigerant suppliers and control system companies continues to increase.

R290 compressors have good growth prospects in the future, and the core driving forces come from the global trend of low GWP refrigerants, substitution of natural refrigerants, and energy efficiency improvements in refrigeration and heat pump equipment. As relevant regulations such as the Kigali Amendment to the Montreal Protocol and European F-gas continue to promote emission reductions of high-GWP fluorinated refrigerants, R290, with its extremely low GWP, good thermodynamic properties and high system energy efficiency, is gradually expanding from the fields of household refrigerators, freezers and light commercial refrigeration to heat pumps, commercial refrigeration and some air conditioning applications, thus driving an increase in demand for R290 special compressors. In the future, market competition will further focus on high energy efficiency, frequency conversion, miniaturization, low noise, high reliability, and a wider operating temperature range. At the same time, flammable refrigerant charge limits, safety standards, and system design requirements are still important constraints on market expansion. Overall, driven by factors such as tightening environmental regulations, the development of the European heat pump market, the replacement of natural refrigerants in commercial refrigeration, and the growth of Asian refrigeration equipment exports, R290 compressors are expected to become an important growth category in the field of natural refrigerant compressors.

Report Scope

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LP Information, Inc. (LPI) ' newest research report, the “R290 Compressor Industry Forecast” looks at past sales and reviews total world R290 Compressor sales in 2025, providing a comprehensive analysis by region and market sector of projected R290 Compressor sales for 2026 through 2032. With R290 Compressor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world R290 Compressor industry.

This Insight Report provides a comprehensive analysis of the global R290 Compressor 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 R290 Compressor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global R290 Compressor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for R290 Compressor and breaks down the forecast by Compressor Configuration, 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 R290 Compressor.

This report presents a comprehensive overview, market shares, and growth opportunities of R290 Compressor market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Compressor Configuration:

Reciprocating Compressor

Scroll Compressor

Rotary Compressor

Screw Compressor

Others

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Segmentation by Operating Temperature Range:

Low Back Pressure

Medium Back Pressure

High Back Pressure

Segmentation by Speed Control Method:

Fixed-Speed R290 Compressor

Variable-Speed R290 Compressor

Segmentation by Cooling Capacity:

<0.5 kW

0.5–1.0 kW

1–3 kW

3–10 kW

>10 kW

Segmentation by Application:

Residential (Household Refrigerators, Chest Freezers, Upright Freezers, Home Ice Makers, Small Refrigeration Units, etc.)

Commercial (Supermarket Freezers, Display Cabinets, Beverage Coolers, Ice Cream Freezers, Commercial Ice Makers, Vending Machines, Foodservice

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Refrigeration Equipment, etc.)

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

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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.

Panasonic

Highly

Midea

Embraco

Gree

Bingshan Songyang Compressor (Dalian) Co., Ltd.

Secop

Changhong

Copeland

BITZER

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Tecumseh Products Company

LG Electronics

Frascold

Officine Mario Dorin

Hubei Donper Electromechanical Group

Kulthorn Kirby

Zhejiang Maidi Refrigeration Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global R290 Compressor market?

What factors are driving R290 Compressor market growth, globally and by region?

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

How do R290 Compressor market opportunities vary by end market size?

How does R290 Compressor break out by Compressor Configuration, by Application?

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