

Global R290 Air Conditioner Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on R290 Air Conditioner competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. R290 air conditioners are eco-friendly air conditioning systems that use pure propane (R-290) as the refrigerant. With an extremely low Global Warming Potential and superior thermophysical properties, R290 enables approximately 5-10% higher efficiency compared to traditional HFC refrigerants under standard vapor compression cycles, making it a key solution in line with global decarbonization and energy-saving trends. Due to its flammability, strict control of charge levels is required, along with the installation of leak detection and flame arrestor systems. The rapid growth of R290 air conditioners is mainly driven by the EU F-Gas Regulation, the U.S. AIM Act, and China's energy-saving policies. In China, Midea and Gree have already achieved large-scale production, while brands from Europe, the U.S., and Japan are actively expanding in the premium split wall-mounted and multi-split unit segments. This report covers household and commercial R290 air conditioners only, excluding heat pump products. In the upstream supply chain, the core raw materials of R290 air conditioners include metals, plastics, and electronic components such as sensors and control units. Metals are provided by major global steel and non-ferrous suppliers, plastics are sourced from companies such as DuPont, Dongyue Group, and Asahi Glass, while electronic components and sensors are supplied by global leaders like Analog Devices, Infineon Technologies, and TE Connectivity. This strong supply base ensures performance optimization and scalability in production. On the downstream side, key customers include both residential appliance brands and commercial cooling solution providers. R290 air conditioners maintain relatively high product margins, generally ranging from 20% to 40%, thanks to their differentiated value in energy

efficiency and environmental sustainability, as well as strong customer stickiness. In 2024, global R290 air conditioners production reached approximately 2,461.5 k units, with an average global market price of around US\$ 478 per unit. From a product type perspective, R290 air conditioners are mainly divided into split-type and integrated units. Split-type air conditioners, widely used in both residential and light commercial markets, represent the dominant product type with the largest market share. Integrated air conditioners are more commonly applied in commercial settings, particularly in small commercial buildings and localized cooling requirements. From an application perspective, the R290 air conditioner market is divided into household and commercial segments. Commercial applications are the leading market in 2024, accounting for approximately 45% of the global share, driven by increasing demand from restaurants, retail outlets, and public facilities for high-efficiency, eco-friendly cooling equipment. Household applications also show rapid growth, fueled by consumer preferences for green and energy-saving home appliances, especially in split-type systems. The key market driving factors for R290 air conditioners include the tightening of global low-carbon policies and the rising demand for sustainable and energy-efficient products. With the enforcement of F-Gas and AIM Act, traditional HFC refrigerants are being phased out, positioning R290 as an ideal alternative. China's policies on energy conservation and green manufacturing further accelerate adoption. On the other hand, the market also faces restraints, the most critical being safety concerns due to the flammability of propane, which imposes stricter requirements on product design, manufacturing, and installation. Additionally, regulatory barriers and limited consumer awareness in certain countries may slow down adoption. Nevertheless, under the global energy transition and sustainability trend, R290 air conditioners are expected to maintain strong growth potential and become a core solution in the next generation of cooling systems.

The global R290 Air Conditioner market size was estimated at USD 1177.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global R290 Air Conditioner market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market

positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global R290 Air Conditioner market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the R290 Air Conditioner market.

Global R290 Air Conditioner Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Midea
GREE
Godrej & Boyce
Carrier Corporation
Haier
YAIR
Changhong
TCL
AUX
Hisense

Mitsubishi Electric
Daikin

Market Segmentation (by Type)

Split-Type Air Conditioner
Integrated Air Conditioner

Market Segmentation (by Application)

Commercial
Household

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the R290 Air Conditioner Market
Overview of the regional outlook of the R290 Air Conditioner Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the R290 Air Conditioner Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of R290 Air Conditioner, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of R290 Air Conditioner
- 1.2 Key Market Segments
 - 1.2.1 R290 Air Conditioner Segment by Type
 - 1.2.2 R290 Air Conditioner Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 R290 AIR CONDITIONER MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global R290 Air Conditioner Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global R290 Air Conditioner Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 R290 AIR CONDITIONER MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global R290 Air Conditioner Product Life Cycle
- 3.3 Global R290 Air Conditioner Sales by Manufacturers (2020-2025)
- 3.4 Global R290 Air Conditioner Revenue Market Share by Manufacturers (2020-2025)
- 3.5 R290 Air Conditioner Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global R290 Air Conditioner Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 R290 Air Conditioner Market Competitive Situation and Trends
 - 3.8.1 R290 Air Conditioner Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest R290 Air Conditioner Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 R290 AIR CONDITIONER INDUSTRY CHAIN ANALYSIS

- 4.1 R290 Air Conditioner Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF R290 AIR CONDITIONER MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global R290 Air Conditioner Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to R290 Air Conditioner Market
- 5.7 ESG Ratings of Leading Companies

6 R290 AIR CONDITIONER MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global R290 Air Conditioner Sales Market Share by Type (2020-2025)
- 6.3 Global R290 Air Conditioner Market Size by Type (2020-2025)
- 6.4 Global R290 Air Conditioner Price by Type (2020-2025)

7 R290 AIR CONDITIONER MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global R290 Air Conditioner Market Sales by Application (2020-2025)
- 7.3 Global R290 Air Conditioner Market Size (M USD) by Application (2020-2025)

7.4 Global R290 Air Conditioner Sales Growth Rate by Application (2020-2025)

8 R290 AIR CONDITIONER MARKET SALES BY REGION

8.1 Global R290 Air Conditioner Sales by Region

8.1.1 Global R290 Air Conditioner Sales by Region

8.1.2 Global R290 Air Conditioner Sales Market Share by Region

8.2 Global R290 Air Conditioner Market Size by Region

8.2.1 Global R290 Air Conditioner Market Size by Region

8.2.2 Global R290 Air Conditioner Market Size by Region

8.3 North America

8.3.1 North America R290 Air Conditioner Sales by Country

8.3.2 North America R290 Air Conditioner Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe R290 Air Conditioner Sales by Country

8.4.2 Europe R290 Air Conditioner Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific R290 Air Conditioner Sales by Region

8.5.2 Asia Pacific R290 Air Conditioner Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America R290 Air Conditioner Sales by Country

8.6.2 South America R290 Air Conditioner Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa R290 Air Conditioner Sales by Region
- 8.7.2 Middle East and Africa R290 Air Conditioner Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 R290 AIR CONDITIONER MARKET PRODUCTION BY REGION

- 9.1 Global Production of R290 Air Conditioner by Region(2020-2025)
- 9.2 Global R290 Air Conditioner Revenue Market Share by Region (2020-2025)
- 9.3 Global R290 Air Conditioner Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America R290 Air Conditioner Production
 - 9.4.1 North America R290 Air Conditioner Production Growth Rate (2020-2025)
 - 9.4.2 North America R290 Air Conditioner Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe R290 Air Conditioner Production
 - 9.5.1 Europe R290 Air Conditioner Production Growth Rate (2020-2025)
 - 9.5.2 Europe R290 Air Conditioner Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan R290 Air Conditioner Production (2020-2025)
 - 9.6.1 Japan R290 Air Conditioner Production Growth Rate (2020-2025)
 - 9.6.2 Japan R290 Air Conditioner Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China R290 Air Conditioner Production (2020-2025)
 - 9.7.1 China R290 Air Conditioner Production Growth Rate (2020-2025)
 - 9.7.2 China R290 Air Conditioner Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Midea
 - 10.1.1 Midea Basic Information
 - 10.1.2 Midea R290 Air Conditioner Product Overview
 - 10.1.3 Midea R290 Air Conditioner Product Market Performance
 - 10.1.4 Midea Business Overview
 - 10.1.5 Midea SWOT Analysis

- 10.1.6 Midea Recent Developments
- 10.2 GREE
 - 10.2.1 GREE Basic Information
 - 10.2.2 GREE R290 Air Conditioner Product Overview
 - 10.2.3 GREE R290 Air Conditioner Product Market Performance
 - 10.2.4 GREE Business Overview
 - 10.2.5 GREE SWOT Analysis
 - 10.2.6 GREE Recent Developments
- 10.3 Godrej and Boyce
 - 10.3.1 Godrej and Boyce Basic Information
 - 10.3.2 Godrej and Boyce R290 Air Conditioner Product Overview
 - 10.3.3 Godrej and Boyce R290 Air Conditioner Product Market Performance
 - 10.3.4 Godrej and Boyce Business Overview
 - 10.3.5 Godrej and Boyce SWOT Analysis
 - 10.3.6 Godrej and Boyce Recent Developments
- 10.4 Carrier Corporation
 - 10.4.1 Carrier Corporation Basic Information
 - 10.4.2 Carrier Corporation R290 Air Conditioner Product Overview
 - 10.4.3 Carrier Corporation R290 Air Conditioner Product Market Performance
 - 10.4.4 Carrier Corporation Business Overview
 - 10.4.5 Carrier Corporation Recent Developments
- 10.5 Haier
 - 10.5.1 Haier Basic Information
 - 10.5.2 Haier R290 Air Conditioner Product Overview
 - 10.5.3 Haier R290 Air Conditioner Product Market Performance
 - 10.5.4 Haier Business Overview
 - 10.5.5 Haier Recent Developments
- 10.6 YAIR
 - 10.6.1 YAIR Basic Information
 - 10.6.2 YAIR R290 Air Conditioner Product Overview
 - 10.6.3 YAIR R290 Air Conditioner Product Market Performance
 - 10.6.4 YAIR Business Overview
 - 10.6.5 YAIR Recent Developments
- 10.7 Changhong
 - 10.7.1 Changhong Basic Information
 - 10.7.2 Changhong R290 Air Conditioner Product Overview
 - 10.7.3 Changhong R290 Air Conditioner Product Market Performance
 - 10.7.4 Changhong Business Overview
 - 10.7.5 Changhong Recent Developments

10.8 TCL

- 10.8.1 TCL Basic Information
- 10.8.2 TCL R290 Air Conditioner Product Overview
- 10.8.3 TCL R290 Air Conditioner Product Market Performance
- 10.8.4 TCL Business Overview
- 10.8.5 TCL Recent Developments

10.9 AUX

- 10.9.1 AUX Basic Information
- 10.9.2 AUX R290 Air Conditioner Product Overview
- 10.9.3 AUX R290 Air Conditioner Product Market Performance
- 10.9.4 AUX Business Overview
- 10.9.5 AUX Recent Developments

10.10 Hisense

- 10.10.1 Hisense Basic Information
- 10.10.2 Hisense R290 Air Conditioner Product Overview
- 10.10.3 Hisense R290 Air Conditioner Product Market Performance
- 10.10.4 Hisense Business Overview
- 10.10.5 Hisense Recent Developments

10.11 Mitsubishi Electric

- 10.11.1 Mitsubishi Electric Basic Information
- 10.11.2 Mitsubishi Electric R290 Air Conditioner Product Overview
- 10.11.3 Mitsubishi Electric R290 Air Conditioner Product Market Performance
- 10.11.4 Mitsubishi Electric Business Overview
- 10.11.5 Mitsubishi Electric Recent Developments

10.12 Daikin

- 10.12.1 Daikin Basic Information
- 10.12.2 Daikin R290 Air Conditioner Product Overview
- 10.12.3 Daikin R290 Air Conditioner Product Market Performance
- 10.12.4 Daikin Business Overview
- 10.12.5 Daikin Recent Developments

11 R290 AIR CONDITIONER MARKET FORECAST BY REGION

- 11.1 Global R290 Air Conditioner Market Size Forecast
- 11.2 Global R290 Air Conditioner Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe R290 Air Conditioner Market Size Forecast by Country
 - 11.2.3 Asia Pacific R290 Air Conditioner Market Size Forecast by Region
 - 11.2.4 South America R290 Air Conditioner Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of R290 Air Conditioner by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global R290 Air Conditioner Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of R290 Air Conditioner by Type (2026-2035)

12.1.2 Global R290 Air Conditioner Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of R290 Air Conditioner by Type (2026-2035)

12.2 Global R290 Air Conditioner Market Forecast by Application (2026-2035)

12.2.1 Global R290 Air Conditioner Sales (K Units) Forecast by Application

12.2.2 Global R290 Air Conditioner Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global R290 Air Conditioner Market Size by Type (M USD)
- Table 4. Global R290 Air Conditioner Market Size by Application
- Table 5. R290 Air Conditioner Market Size Comparison by Region (M USD)
- Table 6. Global R290 Air Conditioner Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global R290 Air Conditioner Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global R290 Air Conditioner Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global R290 Air Conditioner Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in R290 Air Conditioner as of 2025)
- Table 11. Global Market R290 Air Conditioner Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global R290 Air Conditioner Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. R290 Air Conditioner Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global R290 Air Conditioner Sales by Type (K Units)
- Table 27. Global R290 Air Conditioner Market Size by Type (M USD)
- Table 28. Global R290 Air Conditioner Sales (K Units) by Type (2020-2025)
- Table 29. Global R290 Air Conditioner Sales Market Share by Type (2020-2025)
- Table 30. Global R290 Air Conditioner Market Size (M USD) by Type (2020-2025)

- Table 31. Global R290 Air Conditioner Market Share by Type (2020-2025)
- Table 32. Global R290 Air Conditioner Price (USD/Unit) by Type (2020-2025)
- Table 33. Global R290 Air Conditioner Sales (K Units) by Application
- Table 34. Global R290 Air Conditioner Market Size by Application
- Table 35. Global R290 Air Conditioner Sales by Application (2020-2025) & (K Units)
- Table 36. Global R290 Air Conditioner Sales Market Share by Application (2020-2025)
- Table 37. Global R290 Air Conditioner Market Size by Application (2020-2025) & (M USD)
- Table 38. Global R290 Air Conditioner Market Share by Application (2020-2025)
- Table 39. Global R290 Air Conditioner Sales Growth Rate by Application (2020-2025)
- Table 40. Global R290 Air Conditioner Sales by Region (2020-2025) & (K Units)
- Table 41. Global R290 Air Conditioner Sales Market Share by Region (2020-2025)
- Table 42. Global R290 Air Conditioner Market Size by Region (2020-2025) & (M USD)
- Table 43. Global R290 Air Conditioner Market Size by Region (2020-2025)
- Table 44. North America R290 Air Conditioner Sales by Country (2020-2025) & (K Units)
- Table 45. North America R290 Air Conditioner Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe R290 Air Conditioner Sales by Country (2020-2025) & (K Units)
- Table 47. Europe R290 Air Conditioner Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific R290 Air Conditioner Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific R290 Air Conditioner Market Size by Region (2020-2025) & (M USD)
- Table 50. South America R290 Air Conditioner Sales by Country (2020-2025) & (K Units)
- Table 51. South America R290 Air Conditioner Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa R290 Air Conditioner Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa R290 Air Conditioner Market Size by Region (2020-2025) & (M USD)
- Table 54. Global R290 Air Conditioner Production (K Units) by Region(2020-2025)
- Table 55. Global R290 Air Conditioner Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global R290 Air Conditioner Revenue Market Share by Region (2020-2025)
- Table 57. Global R290 Air Conditioner Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America R290 Air Conditioner Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe R290 Air Conditioner Production (K Units), Revenue (US\$ Million),

Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan R290 Air Conditioner Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China R290 Air Conditioner Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Midea Basic Information

Table 63. Midea R290 Air Conditioner Product Overview

Table 64. Midea R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Midea Business Overview

Table 66. Midea SWOT Analysis

Table 67. Midea Recent Developments

Table 68. GREE Basic Information

Table 69. GREE R290 Air Conditioner Product Overview

Table 70. GREE R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. GREE Business Overview

Table 72. GREE SWOT Analysis

Table 73. GREE Recent Developments

Table 74. Godrej and Boyce Basic Information

Table 75. Godrej and Boyce R290 Air Conditioner Product Overview

Table 76. Godrej and Boyce R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Godrej and Boyce Business Overview

Table 78. Godrej and Boyce SWOT Analysis

Table 79. Godrej and Boyce Recent Developments

Table 80. Carrier Corporation Basic Information

Table 81. Carrier Corporation R290 Air Conditioner Product Overview

Table 82. Carrier Corporation R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Carrier Corporation Business Overview

Table 84. Carrier Corporation Recent Developments

Table 85. Haier Basic Information

Table 86. Haier R290 Air Conditioner Product Overview

Table 87. Haier R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Haier Business Overview

Table 89. Haier Recent Developments

Table 90. YAIR Basic Information

- Table 91. YAIR R290 Air Conditioner Product Overview
- Table 92. YAIR R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. YAIR Business Overview
- Table 94. YAIR Recent Developments
- Table 95. Changhong Basic Information
- Table 96. Changhong R290 Air Conditioner Product Overview
- Table 97. Changhong R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Changhong Business Overview
- Table 99. Changhong Recent Developments
- Table 100. TCL Basic Information
- Table 101. TCL R290 Air Conditioner Product Overview
- Table 102. TCL R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. TCL Business Overview
- Table 104. TCL Recent Developments
- Table 105. AUX Basic Information
- Table 106. AUX R290 Air Conditioner Product Overview
- Table 107. AUX R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. AUX Business Overview
- Table 109. AUX Recent Developments
- Table 110. Hisense Basic Information
- Table 111. Hisense R290 Air Conditioner Product Overview
- Table 112. Hisense R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Hisense Business Overview
- Table 114. Hisense Recent Developments
- Table 115. Mitsubishi Electric Basic Information
- Table 116. Mitsubishi Electric R290 Air Conditioner Product Overview
- Table 117. Mitsubishi Electric R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Mitsubishi Electric Business Overview
- Table 119. Mitsubishi Electric Recent Developments
- Table 120. Daikin Basic Information
- Table 121. Daikin R290 Air Conditioner Product Overview
- Table 122. Daikin R290 Air Conditioner Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Daikin Business Overview

Table 124. Daikin Recent Developments

Table 125. Global R290 Air Conditioner Sales Forecast by Region (2026-2035) & (K Units)

Table 126. Global R290 Air Conditioner Market Size Forecast by Region (2026-2035) & (M USD)

Table 127. North America R290 Air Conditioner Sales Forecast by Country (2026-2035) & (K Units)

Table 128. North America R290 Air Conditioner Market Size Forecast by Country (2026-2035) & (M USD)

Table 129. Europe R290 Air Conditioner Sales Forecast by Country (2026-2035) & (K Units)

Table 130. Europe R290 Air Conditioner Market Size Forecast by Country (2026-2035) & (M USD)

Table 131. Asia Pacific R290 Air Conditioner Sales Forecast by Region (2026-2035) & (K Units)

Table 132. Asia Pacific R290 Air Conditioner Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America R290 Air Conditioner Sales Forecast by Country (2026-2035) & (K Units)

Table 134. South America R290 Air Conditioner Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa R290 Air Conditioner Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa R290 Air Conditioner Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global R290 Air Conditioner Sales Forecast by Type (2026-2035) & (K Units)

Table 138. Global R290 Air Conditioner Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global R290 Air Conditioner Price Forecast by Type (2026-2035) & (USD/Unit)

Table 140. Global R290 Air Conditioner Sales (K Units) Forecast by Application (2026-2035)

Table 141. Global R290 Air Conditioner Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of R290 Air Conditioner
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global R290 Air Conditioner Market Size (M USD), 2025-2035
- Figure 5. Global R290 Air Conditioner Market Size (M USD) (2020-2035)
- Figure 6. Global R290 Air Conditioner Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. R290 Air Conditioner Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global R290 Air Conditioner Product Life Cycle
- Figure 13. R290 Air Conditioner Sales Share by Manufacturers in 2025
- Figure 14. Global R290 Air Conditioner Revenue Share by Manufacturers in 2025
- Figure 15. R290 Air Conditioner Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market R290 Air Conditioner Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by R290 Air Conditioner Revenue in 2025
- Figure 18. Industry Chain Map of R290 Air Conditioner
- Figure 19. Global R290 Air Conditioner Market PEST Analysis
- Figure 20. Global R290 Air Conditioner Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global R290 Air Conditioner Market Share by Type
- Figure 27. Sales Market Share of R290 Air Conditioner by Type (2020-2025)
- Figure 28. Sales Market Share of R290 Air Conditioner by Type in 2025
- Figure 29. Market Share of R290 Air Conditioner by Type (2020-2025)
- Figure 30. Market Share of R290 Air Conditioner by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global R290 Air Conditioner Market Share by Application

Figure 33. Global R290 Air Conditioner Sales Market Share by Application (2020-2025)

Figure 34. Global R290 Air Conditioner Sales Market Share by Application in 2025

Figure 35. Global R290 Air Conditioner Market Share by Application (2020-2025)

Figure 36. Global R290 Air Conditioner Market Share by Application in 2025

Figure 37. Global R290 Air Conditioner Sales Growth Rate by Application (2020-2025)

Figure 38. Global R290 Air Conditioner Sales Market Share by Region (2020-2025)

Figure 39. Global R290 Air Conditioner Market Size by Region (2020-2025)

Figure 40. North America R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America R290 Air Conditioner Sales Market Share by Country in 2024

Figure 43. North America R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America R290 Air Conditioner Market Size by Country in 2024

Figure 45. U.S. R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada R290 Air Conditioner Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada R290 Air Conditioner Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico R290 Air Conditioner Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico R290 Air Conditioner Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe R290 Air Conditioner Sales Market Share by Country in 2024

Figure 53. Europe R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe R290 Air Conditioner Market Size by Country in 2024

Figure 55. Germany R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

USD)

Figure 61. Italy R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific R290 Air Conditioner Sales and Growth Rate (K Units)

Figure 66. Asia Pacific R290 Air Conditioner Sales Market Share by Region in 2024

Figure 67. Asia Pacific R290 Air Conditioner Market Size by Region in 2024

Figure 68. China R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America R290 Air Conditioner Sales and Growth Rate (K Units)

Figure 79. South America R290 Air Conditioner Sales Market Share by Country in 2024

Figure 80. South America R290 Air Conditioner Market Size and Growth Rate (M USD)

Figure 81. South America R290 Air Conditioner Market Size by Country in 2024

Figure 82. Brazil R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K

Units)

Figure 87. Columbia R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa R290 Air Conditioner Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa R290 Air Conditioner Sales Market Share by Region in 2024

Figure 90. Middle East and Africa R290 Air Conditioner Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa R290 Air Conditioner Market Size by Region in 2024

Figure 92. Saudi Arabia R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa R290 Air Conditioner Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa R290 Air Conditioner Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global R290 Air Conditioner Production Market Share by Region (2020-2025)

Figure 103. North America R290 Air Conditioner Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe R290 Air Conditioner Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan R290 Air Conditioner Production (K Units) Growth Rate (2020-2025)

Figure 106. China R290 Air Conditioner Production (K Units) Growth Rate (2020-2025)

Figure 107. Global R290 Air Conditioner Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global R290 Air Conditioner Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global R290 Air Conditioner Sales Market Share Forecast by Type

(2026-2035)

Figure 110. Global R290 Air Conditioner Market Share Forecast by Type (2026-2035)

Figure 111. Global R290 Air Conditioner Sales Forecast by Application (2026-2035)

Figure 112. Global R290 Air Conditioner Market Share Forecast by Application
(2026-2035)

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