

# Global R290 Explosion-proof Refrigerant Charging Equipment Market Growth 2026-2032

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## Abstracts

The global R290 Explosion-proof Refrigerant Charging Equipment market size is predicted to grow from US\$ 106 million in 2025 to US\$ 198 million in 2032; it is expected to grow at a CAGR of 8.9% from 2026 to 2032.

R290 explosion proof refrigerant charging equipment is specialized industrial equipment used in production lines for air conditioners, heat pumps, refrigerators, freezers and commercial refrigeration equipment. It is designed for R290 propane and other A3 highly flammable refrigerants to complete safe and accurate refrigerant charging during manufacturing. Main product forms include standalone explosion proof refrigerant charging machines, vacuum and charging integrated units, multi station automatic metering and charging stations, explosion proof refrigerant supply skid modules, flammable gas detection and interlock safety units, and line integrated explosion proof charging systems. The standard process integrates multi stage evacuation, pressure holding and leak testing, gravimetric or mass flow metering, accurate refrigerant transfer, residual gas recovery, forced workstation ventilation and purge, explosion proof electrical isolation, and full process safety interlock control. Key technical specifications include charging accuracy, charging rate, compatible refrigerant types, equipment explosion protection rating, flammable gas leak alarm threshold, ultimate vacuum level, production line cycle time, automation communication interface, and safety interlock shutdown response time. The core value of the equipment is to enable high precision, fully traceable and low explosion risk charging of flammable refrigerants under the transition toward low GWP refrigerants, and it is widely used in production lines for residential air conditioners, air source heat pumps, supermarket display cabinets and various commercial refrigeration equipment. In 2025, global shipments of R290 explosion proof refrigerant charging equipment were approximately 3,450 units, the industry average selling price was about USD 31,000 per unit, and the industry

average gross margin was about 38%.

R290 explosion proof refrigerant charging equipment is essentially a manufacturing safety upgrade driven by the transition toward low GWP refrigerants. The upstream supply chain consists of explosion proof electrical components, vacuum pumps, metering devices, weighing modules, valves, gas sensors, PLC control units and safety interlock components. The midstream includes equipment manufacturers and production line integrators, while downstream demand comes mainly from producers of air conditioners, heat pumps, refrigerators, freezers and commercial refrigeration equipment. Because R290 has a very low climate impact but belongs to the A3 flammable refrigerant category, the charging process requires controlled ventilation, leak detection, electrical isolation and automatic shutdown logic. This makes the equipment a dedicated safety and process control system rather than a conventional refrigerant charging machine. The competitive landscape is led by suppliers with long experience in refrigeration production equipment, safety engineering and automated charging systems. European and North American companies remain stronger in high end projects that require explosion protection, advanced process control, traceability and compliance documentation. Chinese manufacturers are gaining relevance in local production line upgrades, cost sensitive projects and faster service response, but many still need stronger evidence in international certification, long term operating records and global customer validation. The industry is also affected by regional supply chain adjustment, including changes in ownership of established equipment assets and the gradual localization of manufacturing and service capabilities in major appliance production regions. Policy pressure and end market technology transition are the main growth drivers. The phase down of high GWP fluorinated refrigerants, wider use of natural refrigerants in commercial refrigeration, and continued investment in efficient heat pumps and cooling equipment are encouraging manufacturers to add flammable refrigerant charging capability. Future demand will be supported by commercial display cabinets, light commercial refrigeration, heat pump production and selected air conditioning applications. However, the market will remain shaped by safety standards, refrigerant charge limits, installation practices and competition from alternative refrigerant routes. Overall, the industry should be viewed as a growing but specialized equipment segment with solid technical barriers, steady replacement demand and moderate long term expansion potential.

LP Information, Inc. (LPI) ' newest research report, the "R290 Explosion-proof Refrigerant Charging Equipment Industry Forecast" looks at past sales and reviews total world R290 Explosion-proof Refrigerant Charging Equipment sales in 2025, providing a comprehensive analysis by region and market sector of projected R290

Explosion-proof Refrigerant Charging Equipment sales for 2026 through 2032. With R290 Explosion-proof Refrigerant Charging Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world R290 Explosion-proof Refrigerant Charging Equipment industry.

This Insight Report provides a comprehensive analysis of the global R290 Explosion-proof Refrigerant Charging Equipment 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 Explosion-proof Refrigerant Charging Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global R290 Explosion-proof Refrigerant Charging Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for R290 Explosion-proof Refrigerant Charging Equipment 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 R290 Explosion-proof Refrigerant Charging Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of R290 Explosion-proof Refrigerant Charging Equipment market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Standalone Explosion-proof Charging Machine

Automatic Charging Station

Refrigerant Supply and Metering Skid

Turnkey Explosion-proof Charging System

Others

#### Segmentation by Charging and Metering Method:

- Gravimetric Charging
- Mass Flow Metering Charging
- Volumetric based Charging
- Hybrid Metering Charging
- Others

#### Segmentation by Safety Protection Configuration:

- Basic Explosion-proof Configuration
- Gas Detection and Interlock Configuration
- Integrated Ventilation and Safety System
- Others

#### Segmentation by Application:

- Commercial Refrigeration Industry
- Household Appliance Industry
- Industrial and Specialty Cooling Industry
- Others

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.

AGRAMKOW Fluid Systems A/S

Galileo TP Process Equipment S.r.l.

FT S.r.l.

VTech Process Equipment LLC

Marposs S.p.A.

Shanghai Schenck Machinery Co., Ltd.

Fives Group

Nanjing Wanfolai Precision Machinery Co., Ltd.

Cixi City Senda Refrigeration Technology Co., Ltd.

ULVAC, Inc.

Qingdao Ouruinuo Electronic Technology Co., Ltd.

SIQ Inc.

Key Questions Addressed in this Report

What is the 10-year outlook for the global R290 Explosion-proof Refrigerant Charging

Equipment market?

What factors are driving R290 Explosion-proof Refrigerant Charging Equipment market growth, globally and by region?

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

How do R290 Explosion-proof Refrigerant Charging Equipment market opportunities vary by end market size?

How does R290 Explosion-proof Refrigerant Charging Equipment break out by Type, by Application?

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