

Global Explosion-Proof Refrigerant Charging Machine 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 Explosion-Proof Refrigerant Charging Machine market size was valued at US\$ 92.69 million in 2025 and is forecast to a readjusted size of US\$ 142 million by 2032 with a CAGR of 6.3% during review period.

In 2025, global production of explosion-proof refrigerant charging machines reached 3,450 units, with an estimated average selling price of US\$26,110 per unit. Explosion-proof refrigerant charging machines are specialized equipment used for the safe and quantitative charging of refrigerants containing flammable, slightly flammable, or potentially explosive refrigerants. They primarily serve production lines or maintenance scenarios in industrial refrigeration, central air conditioning, heat pumps, refrigerators and freezers, ice makers, commercial refrigeration equipment, and new energy thermal management systems. The upstream of the industry chain includes explosion-proof motors, explosion-proof electrical control boxes, vacuum pumps, refrigerant pumps, compressors, mass flow meters, weighing sensors, pressure/temperature sensors, combustible gas detectors, valves and fittings, quick couplings, filling guns, PLCs, HMIs, industrial software, sheet metal racks, and safety ventilation systems; the midstream consists of manufacturers of refrigerant filling, vacuuming, leak detection, recovery, and production line automation equipment; the downstream comprises manufacturers of heat pumps, air conditioners, industrial refrigeration, refrigerators and freezers, ice makers, commercial cold chain, and new energy thermal management systems. Gross profit margins range from approximately 35% to 45%.

This report is a detailed and comprehensive analysis for global Explosion-Proof Refrigerant Charging Machine 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 Explosion-Proof Refrigerant Charging Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Explosion-Proof Refrigerant Charging Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Explosion-Proof Refrigerant Charging Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Explosion-Proof Refrigerant Charging Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Explosion-Proof Refrigerant Charging Machine

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 Explosion-Proof Refrigerant Charging Machine 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 Ulvac, Agramkow Fluid Systems A/S, Galileo TP Process Equipment S.r.l., Fives Group, Serv-I-Quip, Nanjing Chunmu Refrigeration Electromechanical Equipment Technology, VTech Process Equipment, FT Future Technologies S.r.l., Vacuum Technology Incorporated (VTI), Marposs S.p.A., etc.

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

Market Segmentation

Explosion-Proof Refrigerant Charging Machine 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

Manual

Semi-automatic

Fully Automatic

Market segment by Function

Single Filling Machine

Vacuum + Filling Integrated Machine

Market segment by Metering Method

Weighing Type

Mass Flow Meter Type

Volumetric Type

Market segment by Explosion-Proof Rating and Safety Configuration

Basic Explosion-Proof Type

ATEX/IECEX Certified Type

Market segment by Application

Industrial Refrigeration

Central Air Conditioning

New Energy Vehicles

Others

Major players covered

Ulvac

Agramkow Fluid Systems A/S

Galileo TP Process Equipment S.r.l.

Fives Group

Serv-I-Quip

Nanjing Chunmu Refrigeration Electromechanical Equipment Technology

VTech Process Equipment

FT Future Technologies S.r.l.

Vacuum Technology Incorporated (VTI)

Marposs S.p.A.

Zhejiang Saixi Automation Technology

Shaoxing CACL Digital Control

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 Explosion-Proof Refrigerant Charging Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Explosion-Proof Refrigerant Charging Machine, with price, sales quantity, revenue, and global market share of Explosion-Proof Refrigerant Charging Machine from 2021 to 2026.

Chapter 3, the Explosion-Proof Refrigerant Charging Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Explosion-Proof Refrigerant Charging Machine 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 Explosion-Proof Refrigerant Charging Machine 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 Explosion-Proof Refrigerant Charging Machine.

Chapter 14 and 15, to describe Explosion-Proof Refrigerant Charging Machine sales channel, distributors, customers, research findings and conclusion.

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