

Global Explosion-Proof Refrigerant Charging Machine Market Growth 2026-2032

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Abstracts

The global Explosion-Proof Refrigerant Charging Machine market size is predicted to grow from US\$ 88.12 million in 2025 to US\$ 138 million in 2032; it is expected to grow at a CAGR of 6.7% from 2026 to 2032.

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%.

United States market for Explosion-Proof Refrigerant Charging Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Explosion-Proof Refrigerant Charging Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Explosion-Proof Refrigerant Charging Machine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Explosion-Proof Refrigerant Charging Machine players cover Ulvac, Agramkow Fluid Systems A/S, Galileo TP Process Equipment S.r.l., Fives Group, Serv-I-Quip, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

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

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

Segmentation by Type:

Manual

Semi-automatic

Fully Automatic

Segmentation by Function:

Single Filling Machine

Vacuum + Filling Integrated Machine

Segmentation by Metering Method:

Weighing Type

Mass Flow Meter Type

Volumetric Type

Segmentation by Explosion-Proof Rating and Safety Configuration:

Basic Explosion-Proof Type

ATEX/IECEX Certified Type

Segmentation by Application:

Industrial Refrigeration

Central Air Conditioning

New Energy Vehicles

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.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Explosion-Proof Refrigerant Charging Machine market?

What factors are driving Explosion-Proof Refrigerant Charging Machine market growth, globally and by region?

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

How do Explosion-Proof Refrigerant Charging Machine market opportunities vary by end market size?

How does Explosion-Proof Refrigerant Charging Machine break out by Type, by Application?

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