

Global Explosion-Proof Refrigerant Charging Machine Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G580AF6335D9EN.html>

Date: July 2026

Pages: 130

Price: US\$ 4,480.00 (Single User License)

ID: G580AF6335D9EN

Abstracts

The global Explosion-Proof Refrigerant Charging Machine market size is expected to reach \$ 142 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

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%.

This report studies the global Explosion-Proof Refrigerant Charging Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Explosion-

Proof Refrigerant Charging Machine and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Explosion-Proof Refrigerant Charging Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Explosion-Proof Refrigerant Charging Machine total production and demand, 2021-2032, (Units)

Global Explosion-Proof Refrigerant Charging Machine total production value, 2021-2032, (USD Million)

Global Explosion-Proof Refrigerant Charging Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Explosion-Proof Refrigerant Charging Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Explosion-Proof Refrigerant Charging Machine domestic production, consumption, key domestic manufacturers and share

Global Explosion-Proof Refrigerant Charging Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Explosion-Proof Refrigerant Charging Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Explosion-Proof Refrigerant Charging Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Explosion-Proof Refrigerant Charging Machine market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Explosion-Proof Refrigerant Charging Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Explosion-Proof Refrigerant Charging Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Explosion-Proof Refrigerant Charging Machine Market, Segmentation by Type:

Manual

Semi-automatic

Fully Automatic

Global Explosion-Proof Refrigerant Charging Machine Market, Segmentation by Function:

Single Filling Machine

Vacuum + Filling Integrated Machine

Global Explosion-Proof Refrigerant Charging Machine Market, Segmentation by Metering Method:

Weighing Type

Mass Flow Meter Type

Volumetric Type

Global Explosion-Proof Refrigerant Charging Machine Market, Segmentation by Explosion-Proof Rating and Safety Configuration:

Basic Explosion-Proof Type

ATEX/IECEX Certified Type

Global Explosion-Proof Refrigerant Charging Machine Market, Segmentation by Application:

Industrial Refrigeration

Central Air Conditioning

New Energy Vehicles

Others

Companies Profiled:

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 Answered:

1. How big is the global Explosion-Proof Refrigerant Charging Machine market?
2. What is the demand of the global Explosion-Proof Refrigerant Charging Machine market?
3. What is the year over year growth of the global Explosion-Proof Refrigerant Charging Machine market?
4. What is the production and production value of the global Explosion-Proof Refrigerant Charging Machine market?
5. Who are the key producers in the global Explosion-Proof Refrigerant Charging Machine market?
6. What are the growth factors driving the market demand?

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