

Global Dilution Refrigerator for Quantum Computing Market Growth 2026-2032

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Abstracts

The global Dilution Refrigerator for Quantum Computing market size is predicted to grow from US\$ 198 million in 2025 to US\$ 1282 million in 2032; it is expected to grow at a CAGR of 31.9% from 2026 to 2032.

In 2025, global Dilution Refrigerator for Quantum Computing production reached approximately 290 units with average price of 697,000 USD/Unit.

A dilution refrigerator for quantum computing is an ultra-low-temperature refrigeration system specifically designed to provide a millikelvin operating environment for superconducting quantum processors, quantum chips and associated cryogenic electronics. It generally uses a mechanical pulse-tube cryocooler for initial precooling, followed by the endothermic dilution of helium-3 into helium-4 to continuously cool the quantum-processor stage to below 10 mK. This ultralow-temperature environment suppresses thermal noise and unwanted thermal excitation, enabling superconducting qubits to retain the quantum states, coherence and controllability required for computation. IBM notes that superconducting qubits depend on the ultracold environment of a dilution refrigerator to prevent thermal noise from disrupting fragile quantum states.

Compared with general-purpose scientific dilution refrigerators, quantum-computing systems place greater emphasis on large experimental volume, high mixing-chamber cooling power, high-density microwave and direct-current wiring, low vibration, low electromagnetic noise, magnetic shielding and extended automated operation. A typical system includes a vacuum vessel, pulse-tube cold head, radiation shields, helium-3/helium-4 circulation loop, mixing chamber, gas-handling system, temperature-control system, quantum-processor mounting stage, microwave attenuators, filters,

isolators, low-noise amplifiers and interfaces to room-temperature control electronics. Microwave signals are transmitted through the refrigerator to control the quantum device, while weak readout signals are amplified at cryogenic stages before returning to room-temperature electronics.

The upstream segment includes helium-3 and high-purity helium-4, pulse-tube cryocoolers, helium compressors, vacuum pumps, oxygen-free high-conductivity copper, stainless steel, cryogenic heat exchangers, low-temperature valves, temperature sensors, vacuum gauges, superconducting materials, microwave coaxial cables, flexible cryogenic wiring, attenuators, filters, isolators, cryogenic amplifiers, magnetic shielding and control electronics. As qubit counts increase, conventional coaxial wiring creates growing challenges in occupied volume, thermal loading and installation complexity. High-density low-thermal-conductivity wiring, flexible interconnects, microwave multiplexing and cryogenic electronics are therefore becoming increasingly important parts of the supply chain.

The midstream segment consists of dilution-refrigerator manufacturers, cryogenic measurement-system integrators and quantum-control infrastructure suppliers. Their activities include thermodynamic design, vacuum-vessel fabrication, helium-mixture circulation integration, heat-exchanger and mixing-chamber manufacturing, temperature and flow control, microwave-line installation, magnetic shielding, software development, system calibration and reliability testing. Representative suppliers include Bluefors, Oxford Instruments NanoScience, FormFactor/JanisULT, Maybell Quantum and several Chinese manufacturers. Leading companies are moving beyond standalone refrigeration toward complete measurement infrastructure integrating wiring, filtering, cryogenic amplification, control hardware, software and quantum-processor mounting platforms. Oxford Instruments, for example, offers integrated quantum-control products with its Proteox systems to streamline quantum-laboratory deployment.

Downstream customers include superconducting quantum-computing companies, quantum-chip developers, universities, national laboratories, quantum-cloud operators, research institutes and government-supported national quantum centers. Procurement is generally project-based and covers technical specification, customized design, factory acceptance, transportation, installation, cooldown commissioning, quantum-chip integration and long-term maintenance. Oxford Instruments has installed multiple dilution refrigerators at the UK National Quantum Computing Centre for the development of superconducting-circuit hardware architectures, illustrating the growing importance of national-scale research facilities as end users.

The market for dilution refrigerators used in quantum computing will continue to benefit from investment in superconducting quantum research, expansion of quantum-processor scale and increasing demand for quantum-chip testing. Superconducting quantum computing remains one of the most important commercial applications for dilution refrigerators. As qubit counts, control channels and readout lines increase, users require larger cryogenic volumes, greater cooling capacity and higher wiring capacity. Major quantum-computing companies and national laboratories are moving from individual research installations toward parallel deployment for chip design, post-fabrication testing, qubit characterization, system integration and cloud-based quantum-computing services. Bluefors expanded its U.S. manufacturing facilities in 2024, stating that the project would raise capacity at the location by approximately 45%, indicating that suppliers are preparing for continued quantum-technology demand.

Future products are expected to develop in both large-scale and compact directions. Large systems will support high-qubit-count processors and require greater experimental volume, higher cooling power around 100 mK, high-density input-output capacity and modular expansion. Compact and benchtop systems will primarily serve quantum-chip screening, device validation and rapid research workflows. Oxford Instruments' compact ProteoxS emphasizes rapid cooldown and experimental turnaround, while Bluefors has also introduced an integrated ultra-compact system, demonstrating that shorter sample-exchange and testing cycles are becoming important competitive attributes.

Competition will gradually shift from minimum base temperature alone toward overall system capability, including cooling power, sample space, wiring density, vibration and noise control, automated operation, remote monitoring, rapid maintenance and integration with quantum-control platforms. As conventional wiring creates greater thermal loads and space constraints in larger quantum systems, flexible cryogenic interconnects, signal multiplexing and cryogenic control electronics will become important upgrade areas. Partnerships involving Bluefors and cryogenic interconnect specialists are intended to support expansion from hundreds toward thousands of qubits.

The market nevertheless faces constraints such as limited helium-3 availability, high equipment prices, long lead times for critical components, shortages of specialized installation personnel and uncertainty over the pace of commercial quantum-computing adoption. In addition, growth in qubit count may not require a proportional increase in conventional control wiring because readout multiplexing, cryogenic electronics and new interconnect technologies can reduce the refrigeration and cabling requirement per

qubit. Overall, suppliers with scalable production, experience in large quantum-system projects, comprehensive cryogenic measurement portfolios and global service networks are expected to achieve the strongest long-term positions.

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

This Insight Report provides a comprehensive analysis of the global Dilution Refrigerator for Quantum Computing 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 Dilution Refrigerator for Quantum Computing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Dilution Refrigerator for Quantum Computing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Dilution Refrigerator for Quantum Computing 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 Dilution Refrigerator for Quantum Computing.

This report presents a comprehensive overview, market shares, and growth opportunities of Dilution Refrigerator for Quantum Computing market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ultimate Temperature Range > 20 mK

Ultimate Temperature Range 5–20 mK

Ultimate Temperature < 5 mK

Segmentation by Power Range:

Low-Power Benchtop Models (0–10 ?W)

Medium-Power Standard Models (10–100 ?W)

High-Power Industrial-Grade Models (> 100 ?W)

Segmentation by Structure:

All-In-One Integrated Design

Modular and Expandable Design

Segmentation by Application:

Quantum Processor Development & Testing

Quantum Computing Systems

Quantum Computing Cloud Infrastructure

Research Institutions

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.

Bluefors Oy

Oxford Instruments NanoScience

Shanghai Q-One Technology Co., Ltd.

Hefei Zhileng Cryogenic Technology Co., Ltd.

Leiden Cryogenics B.V.

FormFactor, Inc. / JanisULT

Maybell Quantum Industries

The 16th Research Institute of CETC

Origin Quantum Computing Technology Co., Ltd.

CSIC Pride (Nanjing) Cryogenic Technology Co., Ltd.

QuantumCTek Co., Ltd.

CAS Quantum Measurement Instrument Co., Ltd.

Taiyo Nippon Sanso Corporation

ICEoxford Ltd.

ULVAC CRYOGENICS INC.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Dilution Refrigerator for Quantum Computing market?

What factors are driving Dilution Refrigerator for Quantum Computing market growth, globally and by region?

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

How do Dilution Refrigerator for Quantum Computing market opportunities vary by end market size?

How does Dilution Refrigerator for Quantum Computing break out by Type, by Application?

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