

# Carbon Dioxide Incubators Market Size, Share & Trends Analysis Report By Product Type (Water Jacket Carbon Dioxide Incubators, Direct Heat Carbon Dioxide Incubators), By End-use, By Application, By Region, And Segment Forecasts, 2024 - 2030

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# **Abstracts**

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Carbon Dioxide Incubators Market Growth & Trends

The global carbon dioxide incubators market size is expected to reach USD 1.1 billion, growing at a CAGR of 6.3% from 2024 to 2030, according to a new report by Grand View Research, Inc. CO2 incubators are utilized in several scientific and healthcare fields, offering controlled tissue and cell culture environments. They are essential for growth of tissues, cells, and microorganisms in laboratory settings. Moreover, emerging economies, characterized by expanding R&D activities, are experiencing a surge in demand for these advanced devices.

According to the South China Morning Post Publishers Ltd., China is the second-largest investor in R&D, with a total expenditure of USD 419 billion in 2022, which was 10.4% higher than in 2021. In addition, as these economies improve their healthcare infrastructure, the demand for in vitro fertilization and stem cell therapy grows, necessitating the use of CO2 incubators to ensure optimal conditions for cell growth. For instance, the Department of Biotechnology released funds worth USD 8.84 million till 2022 for stem cell, gene editing, and early & late translational research studies in India. The aforementioned effort from the regulatory authority is anticipated to boost the market in developing countries over the forecast period.



Technological advancements in Carbon Dioxide (CO2) incubators have revolutionized them, allowing more precise and controlled environments for cell culture, tissue engineering, & scientific research. These innovations have significantly enhanced experimental reproducibility, data integrity, and operational efficiency. One key advancement is the integration of advanced microprocessor-based control systems, which enable highly accurate regulation of temperature, humidity, & CO2 levels, minimizing fluctuations and providing researchers with consistent conditions for their experiments. This is particularly crucial in fields like stem cell research and drug discovery, where slight variations can impact results.

For instance, PHCbi's patented Direct Heat and Air Jacket incubators are equipped with advanced Infrared (IR) CO2 sensing technology, which utilizes a single beam with two detectors. This innovative approach ensures high stability and accuracy by concurrently measuring reference and sample wavelengths to facilitate continuous calibration. Integrating the sensor with a microprocessor controller ensures consistent performance unaffected by fluctuations in temperature and humidity. This technology operates on the principle of measuring the absorption of light by CO2 at a specific wavelength across a predetermined distance. Given that CO2 is the only compound that absorbs light at this wavelength, the sensor's functionality is independent of changes in temperature and humidity, ensuring reliable and precise operation.

### Carbon Dioxide Incubators Market Report Highlights

The growth of the overall market can be attributed to the introduction of technologically advanced Carbon Dioxide (CO2) incubators for R&D in the healthcare sector, growing demand for cell-based therapies, and increasing healthcare spending.

Based on product, the water jacket CO2 incubators segment held the largest market share of 36.9% in 2023 due to improved performance and reliability, making them a preferred choice in research and biotechnology sectors for maintaining precise & consistent incubation environment.

Based on application, the in vitro fertilization segment held the largest market share in 2023 and is anticipated to witness the highest CAGR of 6.6% over the forecast period. This growth can be attributed to the rising number of infertility cases and advancements in assisted reproductive technologies.

Based on end-use, the research laboratories segment held the largest market



share in 2023. The demand for reliable and precise incubation systems is increasing, with expanding research activities in cell biology, driving the segment growth.

North America dominated the market in 2023 due to the increased spending on healthcare research and well-established research institutes in the region.

However, Asia Pacific is expected to witness the highest CAGR of 7.6% due to the expanding biotechnology and healthcare sectors.



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