

Global Carbon Dioxide (CO2) Incubators Market - Types, Capacities and Applications

Market Report | 2023-07-28 | 214 pages | Industry Experts

AVAILABLE LICENSES:

- Single user licence (PDF) \$4500.00
- Enterprise Electronic (PDF) \$7200.00

Report description:

Report Synopsis

Carbon Dioxide (CO2) Incubators are gassed incubators that enable in creating a natural atmosphere essential for developing cell and tissue cultures. The major parameters to be considered for a perfect match with cell culture requirements include temperature, humidity, pH, oxygen level and carbon dioxide (CO2) concentration levels, all of which are imperative for ensuring proper cell growth.

Owing to a robust research and development base, along with the presence of leading global biotechnology and pharmaceutical companies, North America constitutes the leading global market for CO2 Incubators. Factors furthering the demand for these devices in the region include a sharp rise in the incidence of chronic diseases that need R&D initiatives in cell and tissue engineering for successful clinical outcomes. The demand for CO2 Incubators in Asia-Pacific, though, is likely to post the fastest CAGR exceeding 6% over the 2023-2029 analysis period.

Research Findings & Coverage

- ☐- Worldwide market for Carbon Dioxide (CO2) Incubators is analyzed in this report with respect to types, capacities, applications, major geographic regions and key countries
- ☐- Global market share analysis for CO2 Incubators based on the segmentation mentioned above and current market size estimation, revenue projections for the analysis period through 2029
- ☐- The study discusses major growth trends, R&D, technology updates, statutory regulations and emerging applications of CO2 Incubators that influence the market growth
- ☐- Key business trends focusing on product innovations/developments, capacity expansions, M&As, JVs and other recent industry developments by the major players
- ☐- The report includes 158 data tables covering market numbers by segment and regions with graphical representation for each table
- ☐- Brief business profiles of major companies covered - 12
- ☐- The industry guide includes the contact details for 81 companies

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Product Outline

The market for types of Carbon Dioxide (CO2) Incubators analyzed in this report includes:

- ☐- Air-Jacketed
- ☐- Direct Heat
- ☐- Water-Jacketed

The report analyzes the market for Carbon Dioxide (CO2) Incubators by capacity comprise:

- ☐- Below 100 Liters
- ☐- 100-200 Liters
- ☐- Above 200 Liters

Global market for applications of Carbon Dioxide (CO2) Incubators explored in this study includes:

- ☐- In Vitro Fertilization (IVF)
- ☐- Laboratory Research & Clinical Diagnostics
- ☐- Other Applications

Analysis Period, Units and Growth Rates

- ☐- The report reviews, analyzes and projects the global Carbon Dioxide (CO2) Incubators market for the period 2020-2029 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2023 through 2029

Geographic Coverage

- ☐- North America (The United States, Canada and Mexico)
- ☐- Europe (France, Germany, Italy, The United Kingdom and Rest of Europe)
- ☐- Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)
- ☐- Rest of World

Table of Contents:

TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE

1. INTRODUCTION

1.1 Product Outline

1.1.1 A Primer on Incubators

1.1.1.1 Components of an Incubator

1.1.1.1.1 Cabinet

1.1.1.1.2 Door

1.1.1.1.3 Control Panel

1.1.1.1.4 Thermostat

1.1.1.1.5 Perforated Shelves

1.1.1.1.6 Asbestos Door Gasket

1.1.1.1.7 L-Shaped Thermometer

1.1.1.1.8 High-Efficiency Particulate Air (HEPA) Filters

1.1.1.1.9 Humidity and Gas Control

1.1.1.2 Operating Principle of an Incubator

1.1.1.3 Process to Run an Incubator

1.1.1.4 Types of Incubators

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 1.1.1.4.1 Benchtop Incubators
- 1.1.1.4.2 Carbon Dioxide (CO₂) Incubators
- 1.1.1.4.3 Cooled Incubators
- 1.1.1.4.4 Shaker Incubators
- 1.1.1.4.5 Portable Incubators
- 1.1.2 Carbon Dioxide (CO₂) Incubators: An Overview
- 1.1.2.1 A Brief History of CO₂ Incubators
- 1.1.2.2 The Significance of CO₂ in an Incubator
- 1.1.2.3 Maintenance of CO₂ Levels
- 1.1.2.4 Maintenance of Humidity Levels in CO₂ Incubators
- 1.1.2.5 Sterilization of CO₂ Incubators
- 1.1.2.6 Working of Sensors in CO₂ Incubators
- 1.1.2.7 Types of CO₂ Incubators
- 1.1.2.7.1 Air-Jacketed CO₂ Incubators
- 1.1.2.7.2 Direct Heat CO₂ Incubators
- 1.1.2.7.3 Water-Jacketed CO₂ Incubators

2. APPLICATION ANALYSIS - A MARKET SNAPSHOT

2.1 Laboratory Research & Clinical Diagnostics

2.1.1 Cell Culture

2.2 In Vitro Fertilization (IVF)

2.3 Other Applications

3. KEY MARKET TRENDS

3.1 Time-Lapse Technology Enhances Embryo Culture and Selection

3.2 CO₂ Incubator Enhancements Drive the Market for Cell Culture Applications

3.3 Innovative Developments in IVF Technology Likely to Dent the Future Demand for CO₂ Incubators

□Ovarian Platelet Rich Plasma (PRP) Treatment

□Stem Cell Treatment

□Laser-Assisted Hatching

□I-Womb Technique

□Vitrification

□InvoCell or Vagincubator

□Ozone Sauna Therapy

4. KEY GLOBAL PLAYERS

Bellco Glass, Inc. (United States)

Binder GmbH (Germany)

Cardinal Health, Inc. (United States)

Eppendorf SE (Germany)

ESCO Lifesciences Group (Singapore)

LEEC Limited (United Kingdom)

Memmert GmbH + Co KG (Germany)

Nuaire, Inc. (United States)

PHC Holdings Corporation (Japan)

Shanghai Boxun Medical Biological Instrument Corp (China)

Sheldon Manufacturing, Inc. (United States)

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5. GLOBAL MARKET OVERVIEW

5.1 Global Carbon Dioxide (CO₂) Incubators Market Overview by Type

5.1.1 Carbon Dioxide (CO₂) Incubators Type Market Overview by Global Region

5.1.1.1 Air-Jacketed

5.1.1.2 Direct Heat

5.1.1.3 Water-Jacketed

5.2 Global Carbon Dioxide (CO₂) Incubators Market Overview by Capacity

5.2.1 Carbon Dioxide (CO₂) Incubators Capacity Market Overview by Global Region

5.2.1.1 Below 100 Liters

5.2.1.2 100-200 Liters

5.2.1.3 Above 200 Liters

5.3 Global Carbon Dioxide (CO₂) Incubators Market Overview by Application

5.3.1 Global Carbon Dioxide (CO₂) Incubators Application Market Overview by Global Region

5.3.1.1 In Vitro Fertilization (IVF)

5.3.1.2 Laboratory Research & Clinical Diagnostics

5.3.1.3 Other Applications

PART B: REGIONAL MARKET PERSPECTIVE

REGIONAL MARKET OVERVIEW

6. NORTH AMERICA

6.1 North American Carbon Dioxide (CO₂) Incubators Market Overview by Geographic Region

6.2 North American Carbon Dioxide (CO₂) Incubators Market Overview by Type

6.3 North American Carbon Dioxide (CO₂) Incubators Market Overview by Capacity

6.4 North American Carbon Dioxide (CO₂) Incubators Market Overview by Application

6.5 Major Market Players

□ Bellco Glass, Inc. (United States)

□ Cardinal Health, Inc. (United States)

□ NuAire, Inc. (United States)

□ Sheldon Manufacturing, Inc. (United States)

□ Thermo Fisher Scientific, Inc. (United States)

6.6 Country-wise Analysis of North American Carbon Dioxide (CO₂) Incubators Market

6.6.1 The United States

6.6.1.1 United States' Carbon Dioxide (CO₂) Incubators Market Overview by Type

6.6.1.2 United States' Carbon Dioxide (CO₂) Incubators Market Overview by Capacity

6.6.1.3 United States' Carbon Dioxide (CO₂) Incubators Market Overview by Application

6.6.2 Canada

6.6.2.1 Canadian Carbon Dioxide (CO₂) Incubators Market Overview by Type

6.6.2.2 Canadian Carbon Dioxide (CO₂) Incubators Market Overview by Capacity

6.6.2.3 Canadian Carbon Dioxide (CO₂) Incubators Market Overview by Application

6.6.3 Mexico

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.6.3.1 Mexican Carbon Dioxide (CO2) Incubators Market Overview by Type
- 6.6.3.2 Mexican Carbon Dioxide (CO2) Incubators Market Overview by Capacity
- 6.6.3.3 Mexican Carbon Dioxide (CO2) Incubators Market Overview by Application

7. EUROPE

- 7.1 European Carbon Dioxide (CO2) Incubators Market Overview by Geographic Region
- 7.2 European Carbon Dioxide (CO2) Incubators Market Overview by Type
- 7.3 European Carbon Dioxide (CO2) Incubators Market Overview by Capacity
- 7.4 European Carbon Dioxide (CO2) Incubators Market Overview by Application

7.5 Major Market Players

- Binder GmbH (Germany)
- Eppendorf SE (Germany)
- LEEC Limited (United Kingdom)
- Memmert GmbH + Co Kg (Germany)

7.6 Country-wise Analysis of European Carbon Dioxide (CO2) Incubators Market

7.6.1 France

- 7.6.1.1 French Carbon Dioxide (CO2) Incubators Market Overview by Type
- 7.6.1.2 French Carbon Dioxide (CO2) Incubators Market Overview by Capacity
- 7.6.1.3 French Carbon Dioxide (CO2) Incubators Market Overview by Application

7.6.2 Germany

- 7.6.2.1 German Carbon Dioxide (CO2) Incubators Market Overview by Type
- 7.6.2.2 German Carbon Dioxide (CO2) Incubators Market Overview by Capacity
- 7.6.2.3 German Carbon Dioxide (CO2) Incubators Market Overview by Application

7.6.3 Italy

- 7.6.3.1 Italian Carbon Dioxide (CO2) Incubators Market Overview by Type
- 7.6.3.2 Italian Carbon Dioxide (CO2) Incubators Market Overview by Capacity
- 7.6.3.3 Italian Carbon Dioxide (CO2) Incubators Market Overview by Application

7.6.4 The United Kingdom

- 7.6.4.1 United Kingdom Carbon Dioxide (CO2) Incubators Market Overview by Type
- 7.6.4.2 United Kingdom Carbon Dioxide (CO2) Incubators Market Overview by Capacity
- 7.6.4.3 United Kingdom Carbon Dioxide (CO2) Incubators Market Overview by Application

7.6.5 Rest of Europe

- 7.6.5.1 Rest of Europe Carbon Dioxide (CO2) Incubators Market Overview by Type
- 7.6.5.2 Rest of Europe Carbon Dioxide (CO2) Incubators Market Overview by Capacity
- 7.6.5.3 Rest of Europe Carbon Dioxide (CO2) Incubators Market Overview by Application

8. ASIA-PACIFIC

- 8.1 Asia-Pacific Carbon Dioxide (CO2) Incubators Market Overview by Geographic Region
- 8.2 Asia-Pacific Carbon Dioxide (CO2) Incubators Market Overview by Type
- 8.3 Asia-Pacific Carbon Dioxide (CO2) Incubators Market Overview by Capacity
- 8.4 Asia-Pacific Carbon Dioxide (CO2) Incubators Market Overview by Application
- 8.5 Major Market Players

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- ESCO Lifesciences Group (Singapore)
- PHC Holdings Corporation (Japan)
- Shanghai Boxun Medical Biological Instrument Corp (China)

8.6 Country-wise Analysis of Asia-Pacific Carbon Dioxide (CO₂) Incubators Market

8.6.1 China

- 8.6.1.1 Chinese Carbon Dioxide (CO₂) Incubators Market Overview by Type
- 8.6.1.2 Chinese Carbon Dioxide (CO₂) Incubators Market Overview by Capacity
- 8.6.1.3 Chinese Carbon Dioxide (CO₂) Incubators Market Overview by Application

8.6.2 India

- 8.6.2.1 Indian Carbon Dioxide (CO₂) Incubators Market Overview by Type
- 8.6.2.2 Indian Carbon Dioxide (CO₂) Incubators Market Overview by Capacity
- 8.6.2.3 Indian Carbon Dioxide (CO₂) Incubators Market Overview by Application

8.6.3 Japan

- 8.6.3.1 Japanese Carbon Dioxide (CO₂) Incubators Market Overview by Type
- 8.6.3.2 Japanese Carbon Dioxide (CO₂) Incubators Market Overview by Capacity
- 8.6.3.3 Japanese Carbon Dioxide (CO₂) Incubators Market Overview by Application

8.6.4 South Korea

- 8.6.4.1 South Korean Carbon Dioxide (CO₂) Incubators Market Overview by Type
- 8.6.4.2 South Korean Carbon Dioxide (CO₂) Incubators Market Overview by Capacity
- 8.6.4.3 South Korean Carbon Dioxide (CO₂) Incubators Market Overview by Application

8.6.5 Rest of Asia-Pacific

- 8.6.5.1 Rest of Asia-Pacific Carbon Dioxide (CO₂) Incubators Market Overview by Type
- 8.6.5.2 Rest of Asia-Pacific Carbon Dioxide (CO₂) Incubators Market Overview by Capacity
- 8.6.5.3 Rest of Asia-Pacific Carbon Dioxide (CO₂) Incubators Market Overview by Application

9. REST OF WORLD

- 9.1 Rest of World Carbon Dioxide (CO₂) Incubators Market Overview by Type
- 9.2 Rest of World Carbon Dioxide (CO₂) Incubators Market Overview by Capacity
- 9.3 Rest of World Carbon Dioxide (CO₂) Incubators Market Overview by Application

PART C: GUIDE TO THE INDUSTRY

1. NORTH AMERICA
2. EUROPE
3. ASIA-PACIFIC

PART D: ANNEXURE

1. RESEARCH METHODOLOGY
2. FEEDBACK

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global Carbon Dioxide (CO2) Incubators Market - Types, Capacities and Applications

Market Report | 2023-07-28 | 214 pages | Industry Experts

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

ORDER FORM:

Select license	License	Price
	Single user licence (PDF)	\$4500.00
	Enterprise Electronic (PDF)	\$7200.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-23"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com