

**Medical Refrigerators Market Forecast to 2028 - COVID-19 Impact and Global Analysis by Temperature Control Range (Between  $-2^{\circ}\text{C}$  and  $-8^{\circ}\text{C}$ , Between  $-1^{\circ}\text{C}$  and  $-50^{\circ}\text{C}$ , Between  $-51^{\circ}\text{C}$  and  $-150^{\circ}\text{C}$ , and Below  $-151^{\circ}\text{C}$ ), Product Type (Laboratory Refrigerators and Freezers, Blood Bank Refrigerators and Plasma Freezers, Pharmacy Refrigerators and Freezers, Cryogenic Storage Systems, Vaccine Refrigerators, and Others), Design Type (Explosion-Proof Refrigerators, Undercounter Medical Refrigerators, Countertop Medical Refrigerators, and Flammable Material Storage Refrigerators), and End User (Hospitals and Pharmacies, Blood Banks, Pharmaceutical Companies, Research Institutes, Diagnostic Centers, and Others)**

<https://marketpublishers.com/r/M17A4E2A7E32EN.html>

Date: May 2023

Pages: 253

Price: US\$ 4,550.00 (Single User License)

ID: M17A4E2A7E32EN

## Abstracts

The medical refrigerators market is expected to grow from US\$ 4,665.97 million in 2022 to US\$ 6,499.18 million by 2028; it is estimated to register a CAGR of 5.8% from 2022 to 2028. The market growth is attributed to the increasing demand for blood and blood components, technological advancements in medical refrigerators, and growing R&D activities to introduce new drug compounds. However, growing use of refurbished equipment and high costs associated with ultra-low temperature freezers restrain the medical refrigerators market growth.

Several players operating in the medical refrigerators market are developing and launching new products. The strategic expansion of geographic presence and manufacturing capacities, along with the launch of new products, helps companies cater to a broad customer base. A few of the recent developments contributing to the medical refrigerators market growth are mentioned below.

- In February 2023, PHC Corporation of North America, the supplier of the PHCbi brand of cell preservation and growth products in North American and Latin American markets, launched the PHCbi brand VIP ECO SMART ultra-low temperature freezer series for use in facilities including medical institutions, universities, and pharmaceutical companies.
- In February 2022, Haier Biomedical vaccine refrigerators launched the CCEOP Phase III program in Uganda, and the training seminar was held simultaneously. Beyond Logistics Ltd (BLL), a local partner of Haier Biomedical, will be responsible for the warehousing, distribution, installation, and commissioning of the 1,435 vaccine refrigerators in over 130 districts across the country.
- In August 2022, Lec Medical launched a cloud-connected refrigeration range to enhance safe storage and remove time-consuming paper-based recording for pharmacy staff. Lec's new Pharmacy Connect range enables remote appliance diagnostics to protect vaccine stocks and other temperature-sensitive medicines.
- In February 2021, Blue Star Limited launched a new range of commercial refrigeration products and solutions, which are said to be ideal for storing vaccines.
- In April 2020, Thermo Fisher Scientific signed a partnership agreement with DKSH to distribute its Revco RDE Series Ultra Low Temperature (ULT) freezers. This agreement mainly focuses on the clinical sector.

Growing Emphasis on Temperature Uniformity and Energy Efficiency is Anticipated to Affect Medical Refrigerators Market Growth Positively.

The energy intensity of laboratories has come into focus in recent years due to increased electricity costs and widespread awareness regarding the massive carbon footprint associated with their operations. Most cascade (compressor-based) ULT freezers consume as much power as a typical household. Moreover, they generate heat and noise, need a significant amount of electricity, and require frequent maintenance.

The end users of ULT freezers such as biobanks and research laboratories demand uniformity of temperature, along with precision and efficient storage facilities. The medical refrigerator market vendors focus on providing temperature uniformity in their products to attract more consumers. These refrigerators also have an extremely low global warming potential, helping organizations meet environmental objectives. However, new energy-efficient units that facilitate 50% reduction in energy consumption, as well as less heat and noise production, are now available in the market. For instance, ECO ULT freezers manufactured by PHC Corporation use natural hydrocarbon (HC) refrigerants to ensure minimal energy consumption, reduced environmental impact, and substantially lower running costs. HC refrigerants have a high latent heat of evaporation; thus, they exhibit greater efficiency in removing heat from the freezer chamber than conventional refrigerants, resulting in up to a 55% reduction in energy consumption and costs. Thermo Fisher Scientific unveiled a new range of hydrocarbon-based ULT freezers, offering laboratories a greener solution marked by less power consumption, less noise, and higher efficiency without compromising the integrity of samples.

Thus, the growing emphasis on temperature uniformity and energy efficiency is emerging as a prevalent trend in the market.

The Report Segments the Medical Refrigerators Market as Follows.

The medical refrigerators market is segmented based on temperature control range, product type, design type, and end user. The medical refrigerators market, by product type, is segmented into laboratory refrigerators and freezers, blood bank refrigerators and plasma freezers, pharmacy refrigerators and freezers, cryogenic freezers and storage systems (including LN2 cryogenic storage system), vaccine refrigerator/freezer, and others. The medical refrigerators market, based on design type, is segmented into countertop medical refrigerators, undercounter medical refrigerators, explosion-proof refrigerators, and flammable material storage refrigerators.

The medical refrigerators market, by temperature control range, is categorized into between  $-1^{\circ}\text{C}$  and  $-50^{\circ}\text{C}$ , between  $2^{\circ}\text{C}$  and  $8^{\circ}\text{C}$ , between  $-51^{\circ}\text{C}$  and  $-150^{\circ}\text{C}$ , and below  $-151^{\circ}\text{C}$ . The medical refrigerators market, based on end user, is segmented into hospitals and pharmacies, blood banks, pharmaceutical companies, diagnostic centers, research institutes, and others.

International Journal of Drug Regulatory Affairs, American National Red Cross, International Institute for Sustainable Laboratories, Immunization Action Coalition,

Public Services and Procurement Canada, UK Advanced Therapy Medical Products (ATMP) Clinical Trials Report, World Health Organization (WHO), World Cancer Research funds, World Bank, Voice of America (VOA), , The Economist, United Nations Children's Fund (UNICEF), and Reuters are among the major primary and secondary sources referred to while preparing the report on the medical refrigerators market.

## Contents

### **1. INTRODUCTION**

- 1.1 Scope of the Study
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
  - 1.3.1 Global Medical Refrigerators Market – By Temperature Control Range
  - 1.3.2 Global Medical Refrigerators Market – By Product Type
  - 1.3.3 Global Medical Refrigerators Market – By Design Type
  - 1.3.4 Global Medical Refrigerators Market – By End User
  - 1.3.5 Global Medical Refrigerators market – By Geography

### **2. MEDICAL REFRIGERATORS MARKET – KEY TAKEAWAYS**

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. GLOBAL MEDICAL REFRIGERATORS MARKET – MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 PEST Analysis
  - 4.2.1 North America – PEST Analysis
  - 4.2.2 Europe – PEST Analysis
  - 4.2.3 Asia Pacific – PEST Analysis
  - 4.2.4 Middle East – PEST Analysis
  - 4.2.5 South and Central America (SCAM) – PEST Analysis
  - 4.2.6 Africa – PEST Analysis
- 4.3 Expert Opinions

### **5. MEDICAL REFRIGERATORS MARKET– KEY MARKET DYNAMICS**

- 5.1 Drivers
  - 5.1.1 Increasing Demand for Blood and Blood Components
  - 5.1.2 Technological Advancements in Medical Refrigerators

- 5.1.3 Growing R&D Activities to Introduce New Drug Compounds
- 5.2 Market Restraints
  - 5.2.1 Use of Refurbished Equipment
  - 5.2.2 High Costs Associated with Ultra-Low Temperature Freezers
- 5.3 Market Opportunities
  - 5.3.1 Government Support for Research Activities and Clinical Trials
- 5.4 Future Trends
  - 5.4.1 Growing Emphasis on Temperature Uniformity and Energy Efficiency
- 5.5 Impact Analysis

## **6. MEDICAL REFRIGERATORS MARKET – GLOBAL ANALYSIS**

- 6.1 Global Medical Refrigerators Market Revenue Forecast And Analysis
- 6.2 Global Medical Refrigerators Market, By Geography - Forecast And Analysis
- 6.3 Market Positioning of Key Players

## **7. MEDICAL REFRIGERATORS MARKET ANALYSIS – BY PRODUCT TYPE**

- 7.1 Overview
- 7.2 Medical Refrigerators Market Revenue Share, by Product Type (2022 and 2028)
- 7.3 Laboratory Refrigerators and Freezers
  - 7.3.1 Overview
  - 7.3.2 Laboratory Refrigerators and Freezers: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.4 Blood Bank Refrigerators and Plasma Freezers
  - 7.4.1 Overview
  - 7.4.2 Blood Bank Refrigerators and Plasma Freezers: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.5 Pharmacy Refrigerators and Freezers
  - 7.5.1 Overview
  - 7.5.2 Pharmacy Refrigerators and Freezers: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.6 Cryogenic Freezers and Storage Systems (including LN2 Cryogenic Storage System)
  - 7.6.1 Overview
  - 7.6.2 Cryogenic Freezers and Storage Systems (including LN2 Cryogenic Storage System): Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.7 Vaccine Refrigerator/Freezer
  - 7.7.1 Overview

7.7.2 Vaccine Refrigerator/Freezer: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

7.8 Others

7.8.1 Overview

7.8.2 Others: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

## **8. MEDICAL REFRIGERATORS MARKET ANALYSIS – BY DESIGN TYPE**

8.1 Overview

8.2 Medical Refrigerators Market Revenue Share, by Design Type (2022 and 2028)

8.3 Countertop Medical Refrigerators

8.3.1 Overview

8.3.2 Countertop Medical Refrigerators: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

8.4 Undercounter Medical Refrigerators

8.4.1 Overview

8.4.2 Undercounter Medical Refrigerators: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

8.5 Explosion-Proof Refrigerators

8.5.1 Overview

8.5.2 Explosion-Proof Refrigerators: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

8.6 Flammable Material Storage Refrigerators

8.6.1 Overview

8.6.2 Flammable Material Storage Refrigerators: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

## **9. MEDICAL REFRIGERATORS MARKET ANALYSIS – BY TEMPERATURE CONTROL RANGE**

9.1 Overview

9.2 Medical Refrigerators Market Revenue Share, by Temperature Control Range (2022 and 2028)

9.4 Between -1 to -50 °C

9.4.1 Overview

9.4.2 Between -1 to -50°C: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

9.5 Between 2 to 8 °C



#### 9.5.1 Overview

9.5.2 Between 2 to 8 °C: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

#### 9.6 Between -51 to -150 °C

##### 9.6.1 Overview

9.6.2 Between -51 to -150 °C: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

#### 9.7 Below -151°C

##### 9.7.1 Overview

9.7.2 Below -151°C: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

### **10. MEDICAL REFRIGERATORS MARKET ANALYSIS – BY END USER**

#### 10.1 Overview

10.2 Medical Refrigerators Market Revenue Share, by End User (2022 and 2028)

#### 10.3 Hospitals and Pharmacies

##### 10.3.1 Overview

10.3.2 Hospitals and Pharmacies: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

#### 10.4 Blood Banks

##### 10.4.1 Overview

10.4.2 Blood Banks: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

#### 10.5 Pharmaceutical Companies

##### 10.5.1 Overview

10.5.2 Pharmaceutical Companies: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

#### 10.6 Diagnostic Centers

##### 10.6.1 Overview

10.6.2 Diagnostic Centers: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

#### 10.7 Research Institutes

##### 10.7.1 Overview

10.7.2 Research Institutes: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

#### 10.8 Others

##### 10.8.1 Overview

10.8.2 Others: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$



Million)

## **11. MEDICAL REFRIGERATORS MARKET – GEOGRAPHIC ANALYSIS**

11.1 North America: Medical Refrigerators Market

11.1.1 Overview

11.1.2 North America: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.3 North America: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.1.4 North America: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.1.5 North America: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.1.6 North America: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.1.7 North America: Medical Refrigerators Market, by Country, 2022 & 2028 (%)

11.1.7.1 US: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.7.1.1 Overview

11.1.7.1.2 US: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.7.1.3 US: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.1.7.1.4 US: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.1.7.1.5 US: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.1.7.1.6 US Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.1.7.2 Canada: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.7.2.1 Overview

11.1.7.2.2 Canada: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.7.2.3 Canada: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.1.7.2.4 Canada: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.1.7.2.5 Canada: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.1.7.2.6 Canada: Medical Refrigerators Market, by End User, 2019–2028 (US\$

Million)

11.1.7.3 Mexico: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.7.3.1 Overview

11.1.7.3.2 Mexico: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.7.3.3 Mexico: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.1.7.3.4 Mexico: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.1.7.3.5 Mexico: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.1.7.3.6 Mexico: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.2 Europe: Medical Refrigerators Market

11.2.1 Overview

11.2.2 Europe: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.3 Europe: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.2.4 Europe: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.2.5 Europe: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.2.6 Europe: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.2.7 Europe: Medical Refrigerators Market, by Country, 2022 & 2028 (%)

11.2.7.1 Germany: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.1.1 Overview

11.2.7.1.2 Germany: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.1.3 Germany: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.2.7.1.4 Germany: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.2.7.1.5 Germany: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.2.7.1.6 Germany: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.2.7.2 France: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

- 11.2.7.2.1 Overview
- 11.2.7.2.2 France: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 11.2.7.2.3 France: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)
- 11.2.7.2.4 France: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)
- 11.2.7.2.5 France: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)
- 11.2.7.2.6 France: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)
- 11.2.7.3 UK: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 11.2.7.3.1 Overview
- 11.2.7.3.2 UK: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 11.2.7.3.3 UK: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)
- 11.2.7.3.4 UK: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)
- 11.2.7.3.5 UK: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)
- 11.2.7.3.6 UK: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)
- 11.2.7.4 Italy: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 11.2.7.4.1 Overview
- 11.2.7.4.2 Italy: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 11.2.7.4.3 Italy: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)
- 11.2.7.4.4 Italy: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)
- 11.2.7.4.5 Italy: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)
- 11.2.7.4.6 Italy: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)
- 11.2.7.5 Spain: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 11.2.7.5.1 Overview
- 11.2.7.5.2 Spain: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)
- 11.2.7.5.3 Spain: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)
- 11.2.7.5.4 Spain: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

Million)

11.2.7.5.5 Spain: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.2.7.5.6 Spain: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.2.7.6 Rest of Europe: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.6.1 Overview

11.2.7.6.2 Rest of Europe: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.6.3 Rest of Europe: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.2.7.6.4 Rest of Europe: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.2.7.6.5 Rest of Europe: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.2.7.6.6 Rest of Europe: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.3 Asia Pacific: Medical Refrigerators Market

11.3.1 Overview

11.3.2 Asia Pacific: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.3 Asia Pacific: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.3.4 Asia Pacific: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.3.5 Asia Pacific: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.3.6 Asia Pacific: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.3.7 Asia Pacific: Medical Refrigerators Market, by Country, 2022 & 2028 (%)

11.3.7.1 China: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.1.1 Overview

11.3.7.1.2 China: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.1.3 China: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.3.7.1.4 China: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.3.7.1.5 China: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.3.7.1.6 China Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.3.7.2 Japan: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.2.1 Overview

11.3.7.2.2 Japan: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.2.3 Japan: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.3.7.2.4 Japan: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.3.7.2.5 Japan: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.3.7.2.6 Japan: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.3.7.3 India: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.3.1 Overview

11.3.7.3.2 India: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.3.3 India: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.3.7.3.4 India: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.3.7.3.5 India: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.3.7.3.6 India: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.3.7.4 South Korea: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.4.1 Overview

11.3.7.4.2 South Korea: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.4.3 South Korea: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.3.7.4.4 South Korea: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.3.7.4.5 South Korea: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.3.7.4.6 South Korea: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

Million)

11.3.7.5 Australia: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.5.1 Overview

11.3.7.5.2 Australia: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.5.3 Australia: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.3.7.5.4 Australia: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.3.7.5.5 Australia: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.3.7.5.6 Australia: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.3.7.6 Rest of Asia Pacific: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.6.1 Overview

11.3.7.6.2 Rest of Asia Pacific: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.3.7.6.3 Rest of Asia Pacific: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.3.7.6.4 Rest of Asia Pacific: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.3.7.6.5 Rest of Asia Pacific: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.3.7.6.6 Rest of Asia Pacific: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.4 Middle East Medical Refrigerators Market

11.4.1 Overview

11.4.2 Middle East: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.4.3 Middle East: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.4.4 Middle East: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.4.5 Middle East: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.4.6 Middle East: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)



#### 11.4.7 Middle East: Medical Refrigerators Market, by Country, 2022 & 2028 (%)

##### 11.4.7.1 Saudi Arabia: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

###### 11.4.7.1.1 Overview

###### 11.4.7.1.2 Saudi Arabia: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

###### 11.4.7.1.3 Saudi Arabia: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

###### 11.4.7.1.4 Saudi Arabia: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

###### 11.4.7.1.5 Saudi Arabia: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

###### 11.4.7.1.6 Saudi Arabia: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

##### 11.4.7.2 UAE: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

###### 11.4.7.2.1 Overview

###### 11.4.7.2.2 UAE: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

###### 11.4.7.2.3 UAE: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

###### 11.4.7.2.4 UAE: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

###### 11.4.7.2.5 UAE: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

###### 11.4.7.2.6 UAE: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

##### 11.4.7.3 Kuwait: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

###### 11.4.7.3.1 Overview

###### 11.4.7.3.2 Kuwait: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

###### 11.4.7.3.3 Kuwait: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

###### 11.4.7.3.4 Kuwait: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

###### 11.4.7.3.5 Kuwait: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

###### 11.4.7.3.6 Kuwait: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

##### 11.4.7.4 Egypt: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$



Million)

11.4.7.4.1 Overview

11.4.7.4.2 Egypt: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.4.7.4.3 Egypt: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.4.7.4.4 Egypt: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.4.7.4.5 Egypt: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.4.7.4.6 Egypt: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.4.7.5 Rest of Middle East: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.4.7.5.1 Overview

11.4.7.5.2 Rest of Middle East: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.4.7.5.3 Rest of Middle East: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.4.7.5.4 Rest of Middle East: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.4.7.5.5 Rest of Middle East: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.4.7.5.6 Rest of Middle East: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.5 South & Central America Medical Refrigerators Market

11.5.1 Overview

11.5.2 South & Central America: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.5.3 South & Central America: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.5.4 South & Central America: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.5.5 South & Central America: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.5.6 South & Central America: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.5.7 South & Central America: Medical Refrigerators Market, by Country, 2022 & 2028 (%)

11.5.7.1 Brazil: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$

Million)

11.5.7.1.1 Overview

11.5.7.1.2 Brazil: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.5.7.1.3 Brazil: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.5.7.1.4 Brazil: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.5.7.1.5 Brazil: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.5.7.1.6 Brazil: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.5.7.2 Argentina: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.5.7.2.1 Overview

11.5.7.2.2 Argentina: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.5.7.2.3 Argentina: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.5.7.2.4 Argentina: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.5.7.2.5 Argentina: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.5.7.2.6 Argentina: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.5.7.3 Rest of South & Central America: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.5.7.3.1 Overview

11.5.7.3.2 Rest of South & Central America: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.5.7.3.3 Rest of South & Central America: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.5.7.3.4 Rest of South & Central America: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.5.7.3.5 Rest of South & Central America: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.5.7.3.6 Rest of South & Central America: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.6 Africa Medical Refrigerators Market

11.6.1 Overview

11.6.2 Africa: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.3 Africa: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.6.4 Africa: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.6.5 Africa: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.6.6 Africa: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.6.6.1 South Africa: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.6.1.1 Overview

11.6.6.1.2 South Africa: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.6.1.3 South Africa: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.6.6.1.4 South Africa: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.6.6.1.5 South Africa: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.6.6.1.6 South Africa: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.6.6.2 Kenya: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.6.2.1 Overview

11.6.6.2.2 Kenya: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.6.2.3 Kenya: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.6.6.2.4 Kenya: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.6.6.2.5 Kenya: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.6.6.2.6 Kenya: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.6.6.3 Nigeria: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.6.3.1 Overview

11.6.6.3.2 Nigeria: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.6.3.3 Nigeria: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.6.6.3.4 Nigeria: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.6.6.3.5 Nigeria: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.6.6.3.6 Nigeria: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

11.6.6.4 Rest of Africa: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.6.4.1 Overview

11.6.6.4.2 Rest of Africa: Medical Refrigerators Market – Revenue and Forecast to 2028 (US\$ Million)

11.6.6.4.3 Rest of Africa: Medical Refrigerators Market, by Temperature Control Range, 2019–2028 (US\$ Million)

11.6.6.4.4 Rest of Africa: Medical Refrigerators Market, by Product Type, 2019–2028 (US\$ Million)

11.6.6.4.5 Rest of Africa: Medical Refrigerators Market, by Design Type, 2019–2028 (US\$ Million)

11.6.6.4.6 Rest of Africa: Medical Refrigerators Market, by End User, 2019–2028 (US\$ Million)

## **12. IMPACT OF COVID-19 PANDEMIC ON GLOBAL MEDICAL REFRIGERATORS MARKET**

12.1 North America: Impact Assessment of COVID-19 Pandemic

12.2 Europe: Impact Assessment of COVID-19 Pandemic

12.3 Asia Pacific: Impact Assessment of COVID-19 Pandemic

12.4 Middle East: Impact Assessment of COVID-19 Pandemic

12.5 South & Central America: Impact Assessment of COVID-19 Pandemic

12.6 Africa: Impact Assessment of COVID-19 Pandemic

## **13. MEDICAL REFRIGERATORS MARKET – INDUSTRY LANDSCAPE**

13.1 Overview

13.2 Growth Strategies Done by the Companies in the Market, (%)

13.3 Organic Developments

13.3.1 Overview

13.4 Inorganic Developments

13.4.1 Overview

## **14. COMPANY PROFILES**

- 14.1 Thermo Fisher Scientific Inc
  - 14.1.1 Key Facts
  - 14.1.2 Business Description
  - 14.1.3 Products and Services
  - 14.1.4 Financial Overview
  - 14.1.5 SWOT Analysis
  - 14.1.6 Key Developments
- 14.2 Philipp Kirsch GmbH
  - 14.2.1 Key Facts
  - 14.2.2 Business Description
  - 14.2.3 Products and Services
  - 14.2.4 Financial Overview
  - 14.2.5 SWOT Analysis
  - 14.2.6 Key Developments
- 14.3 Godrej & Boyce Manufacturing Co Ltd
  - 14.3.1 Key Facts
  - 14.3.2 Business Description
  - 14.3.3 Products and Services
  - 14.3.4 Financial Overview
  - 14.3.5 SWOT Analysis
  - 14.3.6 Key Developments
- 14.4 Haier Biomedical
  - 14.4.1 Key Facts
  - 14.4.2 Business Description
  - 14.4.3 Products and Services
  - 14.4.4 Financial Overview
  - 14.4.5 SWOT Analysis
  - 14.4.6 Key Developments
- 14.5 Blue Star Ltd
  - 14.5.1 Key Facts
  - 14.5.2 Business Description
  - 14.5.3 Products and Services
  - 14.5.4 Financial Overview
  - 14.5.5 SWOT Analysis
  - 14.5.6 Key Developments
- 14.6 Helmer Scientific Inc.
  - 14.6.1 Key Facts
  - 14.6.2 Business Description

- 14.6.3 Products and Services
- 14.6.4 Financial Overview
- 14.6.5 SWOT Analysis
- 14.6.6 Key Developments
- 14.7 Vestfrost Solutions
- 14.7.1 Key Facts
- 14.7.2 Business Description
- 14.7.3 Products and Services
- 14.7.4 Financial Overview
- 14.7.5 SWOT Analysis
- 14.7.6 Key Developments
- 14.8 PHC Holdings Corporation
- 14.8.1 Key Facts
- 14.8.2 Business Description
- 14.8.3 Products and Services
- 14.8.4 Financial Overview
- 14.8.5 SWOT Analysis
- 14.8.6 Key Developments
- 14.9 FOLLETT LLC
- 14.9.1 Key Facts
- 14.9.2 Business Description
- 14.9.3 Products and Services
- 14.9.4 Financial Overview
- 14.9.5 SWOT Analysis
- 14.9.6 Key Developments
- 14.10 Lec Medical
- 14.10.1 Key Facts
- 14.10.2 Business Description
- 14.10.3 Products and Services
- 14.10.4 Financial Overview
- 14.10.5 SWOT Analysis
- 14.10.6 Key Developments

## **15. APPENDIX**

- 15.1 About The Insight Partners
- 15.2 Glossary of Terms

## List Of Tables

### LIST OF TABLES

Table 1. R&D Investments by Major Pharmaceutical Companies

Table 2. North America Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)

Table 3. North America Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 4. North America Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 5. North America Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 6. US Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)

Table 7. US Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 8. US Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 9. US Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 10. Canada Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)

Table 11. Canada Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 12. Canada Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 13. Canada Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 14. Mexico Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)

Table 15. Mexico Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 16. Mexico Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 17. Mexico Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 18. Europe Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)



Table 19. Europe Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 20. Europe Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 21. Europe Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 22. Germany Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)

Table 23. Germany Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 24. Germany Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 25. Germany Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 26. France Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)

Table 27. France Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 28. France Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 29. France Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 30. UK Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)

Table 31. UK Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 32. UK Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 33. UK Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 34. Italy Medical Refrigerators Market, by Temperature Control Range – Revenue and Forecast to 2028 (US\$ Million)

Table 35. Italy Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 36. Italy Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 37. Italy Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 38. Spain Medical Refrigerators Market, by Temperature Control Range –

Revenue and Forecast to 2028 (US\$ Million)

Table 39. Spain Medical Refrigerators Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 40. Spain Medical Refrigerators Market, by Design Type – Revenue and Forecast to 2028 (US\$ Million)

Table 41. Spain Medical Refrigerators Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

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