

Global Cleanroom Technology Market

Market Research Report | 2024-02-19 | 128 pages | BCC Research

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Report description:

Description

Report Scope:

This report focuses on cleanroom technology and consumables. It discusses the types of technologies used for cleanrooms and related consumables. Also, the report provides a clinical trial analysis of cleanrooms and examines their growing application across sectors.

The report further examines the trends and dynamics affecting the market. The study covers market projections through 2028 and provides company profiles of major players.

By geography, the market has been segmented into North America, Europe, Asia-Pacific, and the Rest of the World. For market estimates, data have been provided for 2021, 2022 (as the base year), and 2023, with forecasts for 2028.

Report Includes:

- 31 data tables and 34 additional tables
- An overview of the global market for cleanroom products and technologies
- Analyses of the global market trends, with historical market revenue from 2021 to 2022, estimates for 2023, and projections of compound annual growth rates (CAGRs) through 2028
- An estimate of the market size and revenue forecast for the global cleanroom technology market, and a corresponding analysis of market shares based on product types and sub-types, end user and region
- Facts and figures pertaining to the market dynamics, opportunities and challenges, emerging technologies, future prospects and impact of various macroeconomic variables

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- Overview of the sustainability trends and ESG developments in cleanroom technology and consumables market, with emphasis on consumer attitudes, analysis of companies' ESG scores, a discussion of the future of ESG, and the ESG practices of leading companies
- Analysis of key patent grants on cleanroom technology and clinical trial applications
- An analysis of the competitive landscape, including company market shares, recent M&A activity, and the outlook for venture funding
- Profiles of the leading market players

Executive Summary

Summary:

Cleanrooms are essential in healthcare. In the pharmaceutical, biopharmaceutical, and medical device industries, they are needed for manufacturing and research-related activities. In hospitals they are required for operation theaters and isolation rooms. They are an indispensable part of good manufacturing practices. They are important for maintaining the quality of products. There are also other applications of cleanroom devices in sectors such as semiconductors, aerospace, food, and allied sectors.

Cleanrooms are controlled environments that are used across industries for the manufacture of highquality products. Cleanrooms or clean spaces were brought to the forefront during World War II.

The boost in the biopharmaceutical sector due to COVID-19 vaccine research and production has led to increased awareness of biotechnology drugs and investment in the same. This, in turn, has been driving the establishment of new cleanrooms and the overall cleanroom market. In the biotechnology field apart from biopharmaceuticals, cleanrooms are needed for plant tissue culture, gene therapy, cell therapy, and other applications.

The growth in the medical device sector, the trend toward miniaturization, and the demand for new devices is also driving the cleanroom market in the medical device sector. There is a demand for cleanrooms in this sector, as even a small particle can lead to faulty functioning of medical devices. One of the major restraints in the market is the cost of cleanrooms. Cleanrooms need a specific air quality; the air needs to be passed through HEPA filters, which increases the cost of cleanrooms.

Additionally, maintaining a cleanroom can be expensive because of the specifications required. This restraint is overcome by using modular cleanrooms that are one-tenth the cost of traditional cleanrooms. The cleanroom market is highly fragmented, with multiple companies offering cleanroom equipment and consumables, as well as construction services.

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Chapter 3 Market Overview

History

Definition of Cleanroom

Types of Cleanrooms

ISO 1 Cleanroom Requirements

ISO 2 Cleanroom Requirements

ISO 3 Cleanroom/FED Class 1 Equivalent

ISO 4 Cleanrooms

ISO 5 Cleanrooms

ISO 6 Cleanrooms

ISO 7 Cleanroom/FED Class 10000

ISO 8 Cleanroom/FED Class 100,000

Types of Cleanrooms Based on Structure

Contamination

Sources of Contaminants

Impact of COVID-19 on the Cleanroom Market

Cleanrooms in Hospitals

Cleanrooms in Manufacturing

Shortage of PPE

Travel Restrictions and Delays in Non-COVID Projects

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Cleanroom Safety Consumables

Cleanroom Cleaning Consumables

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HVAC Systems

HEPA Filters

Laminar Airflow and Biosafety Cabinets

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ABN CLEANROOM TECHNOLOGY
ABTECH INC.
ARDMAC
ATMOS-TECH INDUSTRIES
AZBIL CORP.
BOUYGUES
CLEAN AIR PRODUCTS
CLEAN ROOMS INTERNATIONAL INC.
CLEANROOMS BY UNITED
COLANDIS GMBH
DUPONT
EXYTE GMBH
ILLINOIS TOOL WORKS INC.
KIMBERLY-CLARK CORP.
LABCONCO
MECART CLEANROOMS
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