

# Global Cleanroom Technology Market - Analysis of Market Size, Share & Trends for 2019 – 2020 and Forecast to 2027

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## Abstracts

The global cleanroom technologies market is projected to reach USD 7.6 billion by 2027 from USD 4.2 billion in 2019, at a CAGR of 8.0% from 2019 to 2027. The growth of this market is majorly driven by the stringent regulatory framework, growth of the biologics sector, rising demand for sterilized pharmaceutical formulations, increasing demand for medical devices, and technological advancements in cleanroom technology. Also, the increasing demand in developing economies and the growing focus on energy-efficient cleanrooms are expected to offer significant opportunities for market growth in the coming years. However, the high operational cost associated with the cleanrooms is expected to restrain market growth to a certain extent.

Increased demand for cleanroom technology in manufacturing units across diverse industries is one of the crucial factors anticipated to boost market growth over the forecast period. Various sources such as raw materials, product flow, and machinery are likely to contaminate the product being manufactured. Growing adoption of cleanroom technology will ensure the sterility of the final product and the overall manufacturing processes. It is an integral part of the healthcare industry, serving the purpose of developing standardized products as per regulatory norms.

There are several technical and economic advantages of using cleanroom technology in manufacturing sectors, which include gaining a superior ranking in the market, a more organized manufacturing process with optimum time and cost-efficiency, and improved product flow. These solutions are usually customized according to the needs of various industries such as biotechnology, healthcare, and food processing. These customizations are expected to provide the right environment that complies with the regulatory standards, thus propelling the growth.

Technological advancements pertaining to cleanrooms are expected to drive the market for cleanroom technology over the forecast period. Cleanroom technologies have transitioned from being conventional constructive to modular flexible cleanrooms. Benefits such as reconfiguration as per requirement, quick installation, and cost-effectiveness are some of the key factors that boost demand for modular cleanrooms in various industries.

Based on product, the cleanroom technologies market is segmented into consumables, equipment, and controls. The consumables segment accounted for the larger market share in 2018. The high and growing number of pharmaceutical, biotech, and medical device companies facilitating the use of disposable protective clothing has resulted in the increased adoption of the consumables in the cleanroom technologies market. Also, the large number of R&D activities in the healthcare industry is resulting in a stable demand for cleanroom consumables among end users.

Based on construction type, the cleanroom technologies market is segmented into standard/drywall cleanrooms, hardwall cleanrooms, softwall cleanrooms, and pass-through cabinets. The hardwall cleanrooms segment is expected to witness the highest growth during the forecast period. This is mainly due to the higher demand for hardwall cleanrooms, as they are more design-flexible than standard and softwall cleanrooms, quick and easy to install, freestanding for easy portability, and easy to expand or reconfigure.

The pharmaceutical industry end-user segment accounted for the largest share of the market in 2018. This is attributed to the industrial growth in this sector, the robust pipeline of injectable formulations, and rising focus on ensuring the quality of healthcare products.

The cleanroom technologies market in the Asia Pacific is estimated to grow at the highest CAGR during the forecast period. This is due to its favourable government regulations, increasing healthcare expenditure, and the growing base of pharma companies in the country, all of which are driving adoption of cleanroom solutions in the Asia Pacific.

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