

Steam Autoclaves Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The steam autoclaves market is projected to register a CAGR of 8.6% during the forecast period.

During the COVID-19 pandemic, there was a rising demand for steam disinfection by autoclaves, which drove the market growth. This was due to the increased demand for medical supplies, such as reusable devices. The increase in the infection rate of COVID-19 was expected to have a positive impact on the market as steam disinfection could prevent the risk of infections from spreading among physicians and patients. Also, the increase in nosocomial infections posed a serious challenge to healthcare professionals globally during the COVID-19 pandemic. In September 2021, a study published in the Infection Control and Hospital Epidemiology showed a significant increase in the number of healthcare-associated infections (HAIs) in 2020 over the previous year. The rapid rise in HAIs was majorly attributed to the COVID-19 pandemic. Hospitals boosted their infection control protocols to avoid or destroy hospital-acquired infections for the patient and hospital staff's safety. Thus, there was increased demand for the steam autoclave market to prevent the further spread of such hospital-acquired infections.

Moreover, the steam autoclaves market is expected to show rapid growth due to the rising prevalence of hospital-acquired infections, the growing need to manage bio-hazardous and medical waste, and the growing adoption of a central sterile supply department (CSSD) in healthcare establishments.

The need for hazardous waste management is also increasing in the healthcare sector. Maintaining clean, sterilized, and disinfected environments in hospitals have also become crucial, which has resulted in the growing usage of steam autoclaves and the adoption of a central sterile services department (CSSD) framework. Owing to these factors, the steam autoclaves market is expected to grow rapidly.

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Steam Autoclaves Market Trends

Vertical Steam Autoclave Segment Expected to Hold Major Market Share

Vertical steam autoclaves deliver flexible solutions for steam sterilization in hospitals, clinics, and other areas of application, where reliable steam sterilization is a mandatory process and is a safe and efficient sterilization process.

Vertical autoclaves are highly preferred to their counterparts, the horizontal autoclaves. This is majorly due to the ease of use associated with vertical autoclaves. Vertical autoclaves are highly portable, with most incorporating wheels at the bottom of the equipment for easier transportation. Astella Scientific has shown that vertical steam autoclaves are also less bulky in comparison with horizontal ones. The vertical autoclaves are also more water-efficient than the horizontal autoclaves, with the volume of water required for the disinfection or sterilization of vertical autoclaves being much lesser than that required for horizontal autoclaves. The increase in the height of the vertical autoclave, which is of the same capacity as a horizontal one, enables the user to sterilize more materials in a vertical autoclave as compared to a horizontal autoclave.

The increase in the number of research institutions in the biotechnology industry is expected to positively impact the vertical steam autoclave segment. There has been a steady rise in the number of clinical trials in the research industry. According to the US National Library of Medicine, the number of registered studies in 2020 was 36,732, while in 2021, the number rose to 37,027. As of March 20, 2022, the number of registered studies was 8,860. This increase in the number of clinical studies and the necessity of supporting equipment for such studies is expected to propel the market's growth during the forecast period.

The vertical steam autoclaves market segment is expected to record a high CAGR due to its increasing use in hospitals, clinics, bacteriological and research laboratories, and beverage and food units, resulting in its growing demand, thereby augmenting the segment's growth. Therefore, due to the increasing need for hazardous waste management and medium capacity laboratory sterilization solutions, the vertical steam autoclaves market segment is expected to grow over the forecast period.

North America Anticipated to Dominate the Steam Autoclaves Market

In the North American region, the United States dominates the steam autoclaves market as there is a rising prevalence of rare and infectious diseases, a growing number of research organizations, and increasing R&D investments for new drug development, which will positively impact the market growth. There is also an increasing geriatric population prone to suffering from various chronic diseases. According to World Bank data, the number of people over the age of 65 years was 54.796 million in the United States in 2020. The US census showed that the number of people over the age of 65 years in the United States as of 2022 is 59.71 million. The rapid progression in the old age population in the region and the rise in chronic diseases is expected to boost the demand for biopharmaceuticals and result in the high growth of the steam autoclaves market over the near future.

The North American region ranks at the top of the world in terms of research output. This is mainly attributed to the research in the United States. Data from Springer Nature has shown that the United States leads globally in terms of the amount of research output. In 2020, the number of research output from the North American region was 33,178, with about 29,179 outputs from America, 3592 outputs from Canada, and 407 outputs from Mexico. The numbers are also consistently rising through the years, indicating the competency of the region. This increase in the research in the region, not just in the area of life sciences, but in other sectors such as the food and beverage industry, prosthetics fabrication industry, and others where autoclaves are significantly used for steam sterilization is expected to propel the growth of the steam autoclave market in the North American region during the forecast period.

In addition, the growing concern for controlling the spread of hospital-acquired infections across the North American region and the increasing adoption of a CSSD framework in the region is expected to drive demand for sterilization and disinfection products

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and devices throughout the forecast period.

Steam Autoclaves Market Competitor Analysis

The steam autoclaves market is fragmented, competitive, and consists of several major players. In terms of market share, a few of the major players are currently dominating the market. Some companies currently dominating the market are TESALYS Group, Astell Scientific, Belimed Deutschland GmbH, BMM Weston Ltd, Celitron Medical Technologies, Consolidated Sterilizer Systems, Getinge AB, Dental X, Hirayama Manufacturing Corporation, and MELAG Medizintechnik GmbH & Co.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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