

Food Sterilization Equipment Market Size, Share & Trends Analysis Report By Process (Batch Sterilization, Continuous Sterilization), By Technology (Heat, Radiation), By Application, By Region, And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/FED771B475F6EN.html>

Date: November 2024

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: FED771B475F6EN

Abstracts

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Food Sterilization Equipment Market Growth & Trends

The global food sterilization equipment market size is estimated to reach USD 1.18 billion by 2030, registering growth at a CAGR of 4.2% from 2025 to 2030 according to a new report by Grand View Research, Inc. The market is driven by growing concerns regarding product safety, along with consumer shift toward canned and processed foods across the globe.

Rising demand for aseptic processing is expected to boost demand for food sterilization equipment over the forecast period. Aseptic processing is a method that uses advanced sterilization processes in eatables with particulates and dairy-based beverages to increase shelf life and protect them from pathogens.

The food processing industry is a mature sector that is going through a turbulent period on account of growing consumer demand for product safety and higher sustainability and quality. As a result, food processing manufacturers have started investing in sterilizers, which is expected to boost market growth over the coming years.

Canned/processed meats have less acids and need to be sterilized in order to hinder bacterial growth. Rising demand for processed meats in emerging economies such as

India, China, Malaysia, and Indonesia owing to increasing disposable income and growing influence of western culture is anticipated to drive the market over the forecast period.

Manufacturers are focusing on product innovations and investing in offering new sterilizers with improved efficiency and ease of operation. Continued investments in low-temperature sterilizers have resulted in reducing processing times, along with cost efficiency, which will lead to an increase in product demand through 2025.

Food Sterilization Equipment Market Report Highlights

Batch sterilization led the market with a revenue share of 56.7% in 2024 as this method enables the comprehensive sterilization of substantial food quantities within a controlled environment, significantly reducing contamination risks.

Heat sterilization dominated the market and accounted for a share of 38.2% in 2024. This prevalent method effectively eradicates microorganisms while preserving food quality and safety.

Spices, seasonings, and herbs held the largest market share of 23.4% in 2024. Effective sterilization of spices and herbs is crucial to prevent pathogen contamination and ensure safety and quality.

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