

Comprehensive Report on the Bio Decontamination Equipment Market: Opportunities and Challenges

The Business Research Company's Bio Decontamination Equipment Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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What Is The Expected Cagr For The Bio Decontamination Equipment Market Through 2025?

The [market size for bio decontamination equipment](#) has significantly expanded in recent times.

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It is projected to elevate from \$1.08 billion in 2024 to \$1.21 billion in 2025 registering a compound annual growth rate (CAGR) of 11.8%. The growth witnessed in the historic phase can be credited to the rise in hospital-acquired infections, amplified need for contamination management, increase in pharmaceutical production, growth of healthcare facilities, and amplified consciousness of sterilization practices.

Anticipating robust expansion in the coming years, the bio decontamination equipment market is projected to reach a

value of \$1.87 billion in 2029, translating to a compound annual growth rate (CAGR) of 11.5%. The growth trajectory over the forecast period is propelled by factors such as the swelling demand for vaccines and biologics, heightened regulatory focus on infection control, growing investments in healthcare infrastructure, the enlargement of pharmaceutical manufacturing, and a rise in the outsourcing of sterilization services. The period is also expected to witness key trends including technological advancements in decontamination systems, breakthroughs in automated bio-decontamination, evolution in portable and flexible equipment, research and innovation in sterilization methodologies, and the integration of digital monitoring solutions.

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What Are The Driving Factors Impacting The Bio Decontamination Equipment Market?

The escalating prevalence of infections obtained in hospitals is predicted to fuel the expansion of the bio decontamination equipment market. Such infections, termed hospital-acquired infections (HAIs), are those contracted by patients during their stay in hospitals or other healthcare facilities, typically manifesting 48 hours or more post-admission. This rise is attributed to the uptick in patient admissions, with packed occupancy rates heightening the probability of cross-contamination and proliferation of infections. With its ability to successfully eradicate detrimental microorganisms from vital surfaces and air, bio decontamination equipment plays a fundamental role in preventing hospital-acquired infections, thereby curtailing the chance of pathogen transmission in healthcare settings. For instance, the Health Security Agency, a governmental body based in the UK, noted in March 2025 that 7.6% of patients in 2023 were diagnosed with hospital-acquired infections. Pneumonia and lower respiratory tract infections were the most rampant at 29.6%, followed by urinary tract infections at 17.5% and sepsis or systemic infections at 10.6%. Hence, the escalating prevalence of hospital-acquired infections is propelling the expansion of the bio decontamination equipment market.

Which Players Dominate The Bio Decontamination Equipment Industry Landscape?

Major players in the Bio Decontamination Equipment Global Market Report 2025 include:

- Steris Plc
- Labconco Corporation
- Turnkey Modular Systems Inc.
- AM Instruments Srl
- Air Science LLC
- Automated Systems of Tacoma LLC
- UVDI Inc.
- Brinda Pharma Technologies Pvt. Ltd.
- TOMI Environmental Solutions Inc.
- De Lama S.p.A.

What Are Some Emerging Trends In The Bio Decontamination Equipment Market?

Leading businesses in the bio decontamination equipment market are concentrating on creating innovative solutions, such as contamination control tools, to meet regulations and quality standards in crucial sectors. These control tools are devices or systems that help ensure cleanliness by restricting or eliminating damaging microbes and particles from a controlled setting. For example, in May 2025, UMF Corporation, a US-based purveyor of cleaning and hygiene items, introduced the RPM (Ridged Performance Material) product line. This system is a comprehensive 10-piece range of contamination control tools designed to provide efficient hygiene in areas of high risk like hospital pharmacies, vivariums, food processing zones, and areas requiring hazardous substance clean-up. The standout component of these tools is the

Ridged Performance Material, a cleaning agent adept at removing and soaking up contaminants from various surfaces. The series includes specialized contamination control tools such as flat mops, wipers, applicators, and accessories, all crafted for best lint-free performance. One notable feature is the OTU Hook and Loop Frame, a single-use, completely recyclable polypropylene frame that offers a cost-effective option to traditional stainless steel or reusable mop frames.

[Global Bio Decontamination Equipment Market Segmentation](#) By Type, Application, And Region
The bio decontamination equipment market covered in this report is segmented –

- 1) By Product Type: Chamber Decontamination, Room Decontamination
- 2) By Technology Type: Hydrogen Peroxide Vapor, Chlorine Dioxide, Ultraviolet (UV) Radiation, Others Technology Types
- 3) By Application: Surface Decontamination, Air Decontamination, Water Decontamination
- 4) By End User: Hospitals, Pharmaceutical Companies, Research Laboratories, Food Processing Plants, Aerospace Enterprises

Subsegments:

- 1) By Chamber Decontamination: Hydrogen Peroxide Vapor Systems, Ultraviolet Light Chambers, Ozone-Based Chambers, Dry Fog Systems, Chlorine Dioxide Chambers
- 2) By Room Decontamination: Mobile Hydrogen Peroxide Units, Fixed Ultraviolet Systems, Air Filtration Units, Fogging Machines, Surface Spray Systems

View the full bio decontamination equipment market report:

<https://www.thebusinessresearchcompany.com/report/bio-decontamination-equipment-global-market-report>

Which Region Holds The Largest Market Share In The Bio Decontamination Equipment Market?
In 2024, North America held the dominant position in the global bio decontamination equipment market. It is predicted that the Asia-Pacific will be the region experiencing the quickest growth in the subsequent period. The report on the bio decontamination equipment market includes geographical areas like Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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