

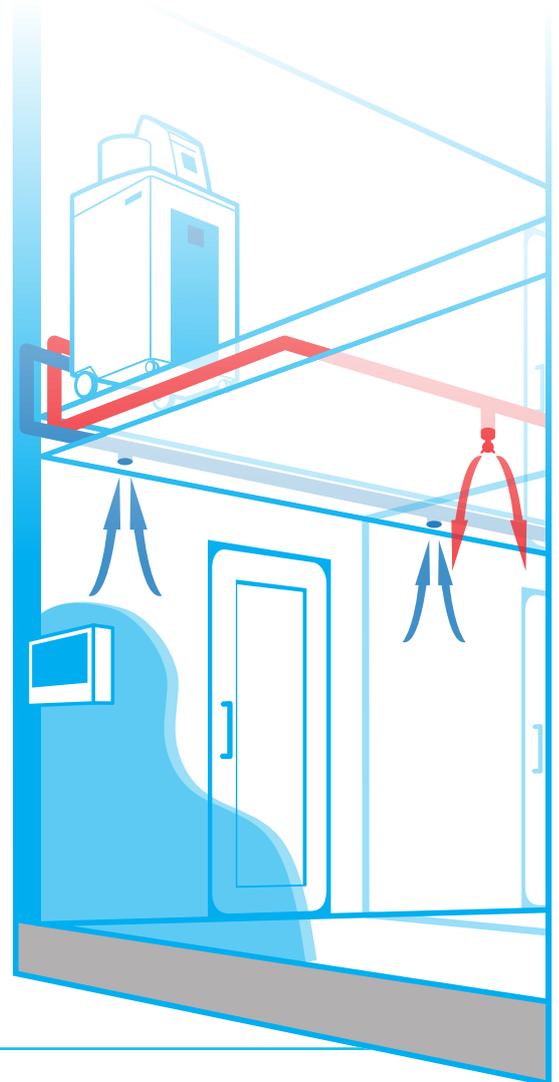
BIOQUELL INTEGRATED BUILDING DECONTAMINATION SYSTEM

AUTOMATED HYDROGEN PEROXIDE VAPOUR
BIO-DECONTAMINATION FOR CRITICAL AREAS

With an Integrated Building Decontamination System from Bioquell, routine bioburden elimination becomes simplified. Never worry about setting up, breaking down or storing equipment, all while increasing throughput and reducing downtime.

The Integrated Building Decontamination System creates an automated solution in predetermined critical areas by installing a Bioquell L-4 bio-decontamination system outside of the target zone and using dedicated pipework or the building's HVAC system to distribute and evacuate the hydrogen peroxide vapour.

Every setup is custom designed, scalable to your needs, and validated for a 6-log bioburden elimination. A complete integration allows for connectivity to your building management system, and compliance options for 21 CFR Part 11.



RAPID

With the system integrated into the building, no equipment setup is required, meaning reduced downtime which can be critical in time sensitive manufacturing environments. Every exposed surface receives a 6-log bioburden reduction thanks to Bioquell's Hydrogen Peroxide Vapour technology.



EASY TO USE AND FULLY AUTOMATED

To remove human error, the system is started with only the touch of a button meaning it can be run overnight or during the weekend. It can integrate with the BMS to control the HVAC system, and different cycles can be programmed to control the delivery of vapour into individual rooms to suit your needs.



EFFICACIOUS AND COMPLIANT

By validating the process, the same 6-log decontamination will be achieved every time therefore reducing risk. For GMP and 21 CFR Part 11 compliance, real time data collection is available as is audit trail software.

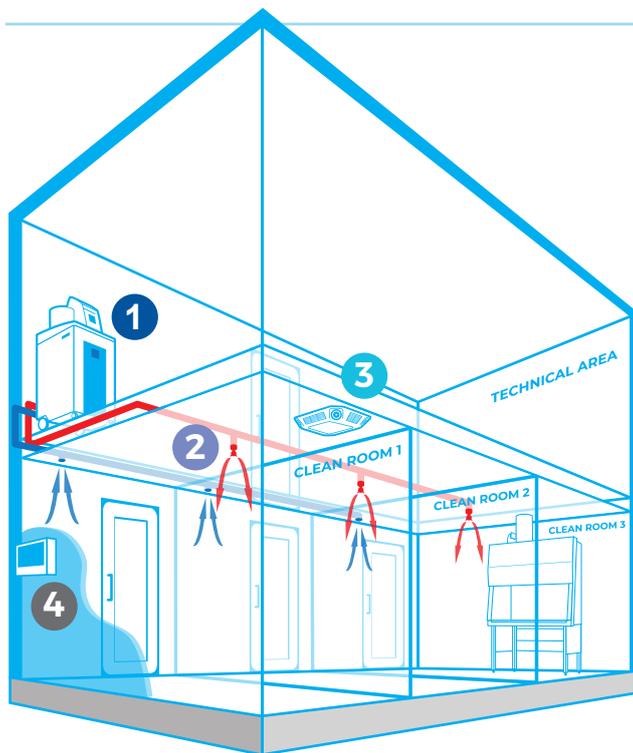
YOUR BIOQUELL INTEGRATED BUILDING DECONTAMINATION SYSTEM CAN BE OPTIMISED WITH:

- Process monitoring sensor package
- Ceiling mounted distribution nozzles
- Ceiling mounted catalyst units
- Control panels positioned locally to target area to start and monitor decontamination cycles
- Valves in pipe work to control the delivery of vapour into different rooms
- Realtime data logging and 21 CFR Part 11 audit trail compliance package
- Integration to Building Management System (BMS)
- System commissioning and IQ/OQ
- Gassing cycle development (GCD) and Performance Qualification (PQ)
- Preventative Maintenance plans

APPLICATIONS:

You can routinely decontaminate the following areas with an Integrated Decontamination System

- Biopharmaceutical manufacturing facilities
- Biosafety laboratories (BSL-3/BSL-4)
- Material airlocks and pass-throughs
- GMP Filling suites
- Biomedical holding areas



COMPONENTS:

- 1 Bioquell's 35% hydrogen peroxide vapour generators** are located in a technical area outside of target zone
- 2 Vapour is distributed into rooms** either through the building's HVAC system or preferably through a dedicated network of pipes terminating with distribution nozzles
- 3 Bioquell catalyst units** and the building's HVAC system can be used to rapidly breakdown and exhaust vapor after the decontamination cycle
- 4 HMI panels** positioned locally to the target area launch the cycle by interfacing with the BMS/HVAC and controlling the Bioquell generators, aerators, valves and distribution nozzles

Bioquell Expertise with you from Concept to Completion:

Following installation, every Integrated Building Decontamination System undergoes rigorous testing by our team of experienced validation engineers to ensure handshaking/communication to the building management system. Validation efforts ensue with the performance of an Installation and Operational Qualification (IQ/OQ) and customized 6-log decontamination cycles of any scale developed to your specific needs. After testing and confirmed results, a fully functional automated decontamination system is available to use, delivering repeatable results with high efficacy at the touch of a button.

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