#### Bioquell<sup>®</sup> Hydrogen Peroxide Vapour Bio-decontamination

**Products & services range** 



## About Ecolab

A trusted partner for millions of customers, Ecolab is a global sustainability leader offering water, hygiene and infection prevention solutions and services that protect people and the resources vital to life. Building on a century of innovation, we deliver comprehensive sciencebased solutions, data-driven insights and world-class service to advance food safety, help maintain clean and safe environments, optimise water and energy use, and improve operational efficiencies for customers in more than 170 countries around the world.

## Our assurance

Ecolab is committed to providing exceptional service, total plant solutions and unsurpassed industry expertise to help you achieve your business goals.

Our breadth of resources and integrated business model ensure consistency across your operations.



Bio-decontamination products & services



# Isolator with integrated bio-decontamination

#### Bioquell<sup>®</sup> Qube







ANNEX 1 COMPLIANT BPR APPROVEI



**MODULAR** 



6-LOG SPORICIDAL KILL



#### The ideal isolator with integrated bio-decontamination

- Light, flexible, modular aseptic isolator in convenient configurations
- ISO 5 / Grade A working environment with rapid air clean up and integrated hydrogen peroxide vapour 6-log sporicidal kill bio-decontamination
- Optional 21 CFR Part 11 audit trail compliance package available
- Validated bio-decontamination cycles using Bioquell Hydrogen Peroxide Vapour

The Bioquell Qube has built-in hydrogen peroxide vapour bio-decontamination technology making it an ideal solution for aseptic processing. With multiple configurations available and a range of options and accessories, the Bioquell Qube is suitable for applications such as:

- Cell and Gene Therapy
- Sterility testing
- Cytotoxics preparation
- Small batch production (clinical trials, R&D, etc.)





# Room | Zone bio-decontamination

#### Bioquell<sup>®</sup> ProteQ









<400 m<sup>3</sup>

SPORICIDAL

#### Mobile bio-decontamination system for rooms and zones

- Advanced distribution and aeration capabilities with wireless communication provides faster setup and cycle times
- Optional 21 CFR Part 11 audit trail compliance package
- Hosts all components within its frame, including additional optional aeration units

 Control a network of three systems with one optional master control panel





#### Bioquell<sup>®</sup> BQ-50







6-LOG SPORICIDAL

#### A portable bio-decontamination system for hospital-wide use

- Mobile, simple to operate, rapid bio-decontamination cycles with intelligent parametric control
- Offers cost-effective bio-decontamination of rooms and laboratories in non-regulated areas
- Bioquell BQ-50 suite includes separate high capacity aeration units

## Enclosure | Zone bio-decontamination

#### Bioquell<sup>®</sup> L-4





<350 m<sup>3</sup>





6-LOG SPORICIDAL



- Multipurpose mobile generator offers flexibility of use
- Suitable for isolators, enclosures, pass-through chambers, freeze dryers, incubators and rooms
- Easy 'no touch' bottle loading
- Optional 21 CFR Part 11 audit trail compliance package



# Bioquell IG-2

#### Bioquell<sup>®</sup> IG-2









BMS

6-LOG SPORICIDAL

#### Seamlessly engineered and integrated option for hydrogen peroxide vapour bio-decontamination

- Designed to be built into process equipment and isolators for a seamless user experience
- Quickly bio-decontaminate equipment such as lyophiliser, filling lines, isolators, incubators, and more
- Rapid bioburden reduction for pass-throughs and airlocks
- Custom and challenging integration applications with the coordination and guidance of Bioquell engineers

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# Pass-through & airlock bio-decontamination

#### Bioquell<sup>®</sup> SeQure





<150 m<sup>3</sup>





В

6-LOG SPORICIDAL KILL



- ▼ Fixed hydrogen peroxide vapour generator for chambers or rooms
- ▼ Fast to install and validate (<1 week)</p>



Bottle module with peroxide traceability and wastage

minimisation through the two-bottle module system

 Optional 21 CFR Part 11 audit trail compliance package available

#### Bioquell<sup>®</sup> Hydrogen Peroxide (HPV-AQ)





- BPR approved: Bioquell HPV-AQ 35% hydrogen peroxide approval written into European law Biocidal Products Regulation (BPR, Regulation (EU) 528/2012)
- High quality, high purity aqueous hydrogen peroxide solution designed for use with Bioquell technology
- Bottles are tracked through the use of RFID tags, providing traceability of the batch number on cycle reports

# Hydrogen peroxide biological indicators (BI), chemical indicators (CI) & CI data scanner

## Bioquell<sup>®</sup> Biological Indicators

- 6-log Geobacillus stearothermophilus biological indicators

■ Consistent, reliable and independently tested

 Developed to validate hydrogen peroxide vapour technology



## Bioquell<sup>®</sup> Chemical Indicators

Two specially formulated options for rooms and for isolators / small enclosures that help quickly indicate a cycle has achieved an expected 6-log sporicidal kill



# Bioquell<sup>®</sup> Chemical Indicator (CI) Data Scanner

An easy to use tool which provides a quantifiable result from a Bioquell CI used in a bio-decontamination cycle which stores results electronically for improved record keeping and reporting



#### **Bioquell** Rapid Bio Decontamination Service

#### Bioquell<sup>®</sup> RBDS









SCALABLE BI

6-LOG SPORICIDAL KILL



#### A fully managed Rapid Bio Decontamination Service

- Planned, proactive or rapid emergency deployment based on client operations
- Dedicated response options to host Bioquell equipment onsite in critical areas for rapid emergency deployment
- Single room/lab to whole facility bio-decontamination to fit client requirements
- Bio-decontamination of Biological Safety Cabinets (BSCs), incubators, robotic enclosures and other similar laboratory based equipment
- 6-log sporicidal kill on exposed surfaces
- Fully managed process, from site survey through to final bio-decontamination report, with no capital equipment expenditure required

#### **Applications:**

- Bioprocessing, biomanufacturing and production zones
- Biosafety labs of all levels
- Cleanrooms and research labs
- ▼ Post-construction new-area commissioning
- Shutdown, end of campaign and facility restart periods
- ▼ Emergency response
- Dedicated response plans
- Equipment bio-decontamination needs (BSC, lyophiliser and more)



## Other services

#### **Ecolab services**

#### **Installation & commissioning**

To get the most from your Bioquell Hydrogen Peroxide Vapour bio-decontamination equipment, it must be correctly installed and configured. Depending on your application, this may not be a straightforward process, and our highly trained engineers are able to take you from a new, boxed unit to a fully functional and compliant set-up, ready for you to use, regardless of the complexity of your system.

#### **Maintenance & calibration**

Bioquell's experienced field service engineers can check, change and calibrate your bio-decontamination equipment, ensuring it remains in excellent condition. Whether it is breakdown cover for business / process critical systems or annual service and maintenance plans, the Ecolab team is able to tailor a service to suit you.

GMP



Ecolab offers a testing service to determine the compatibility of materials and components with Ecolab's Bioquell bio-decontamination systems. We also offer a hydrogen peroxide ingress testing service for clients who are concerned about hydrogen peroxide permeating into sensitive materials such as bags, vials, and syringes being loaded into isolators and material airlocks.

#### **Training & support**

To ensure longevity and efficient operation of your system, it is essential to start with a solid knowledge base. Using a combination of practical exercises, face-to-face training and a comprehensive e-learning system, we are able to 'transfer knowledge' through the medium which suits you. And once the training has been completed, our technical support team will continue to help you with any questions.



Validating Bioquell equipment

- Professional validation of Ecolab's Bioquell Hydrogen Peroxide Vapour process within client environment including provision of regulatory compliant paperwork
- Installation and Operational Qualification (IQ/OQ), Gas Cycle Development (GCD) and Performance Qualification (PQ) to ensure equipment is operational within required timelines
- Rapid and efficient hydrogen peroxide vapour cycle development to fit client process to provide a robust bio-decontamination cycle which achieves a 6-log sporicidal kill in the shortest amount of time
- We provide you with documentation to satisfy your regulatory requirements, from airflow checks and particle counts to full biodecontamination cycle development

# Automated bio-decontamination using Bioquell Hydrogen Peroxide Vapour technology







Create efficiencies in your process

Repeatable, validated results

Offers regulatory compliance and audit readiness

For expert implementation of automated bio-decontamination measures in your facility contact your Ecolab Account Manager or visit www.bioquell.com

For regional office details, please visit bioquell.com

USE BIOQUELL PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

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