

# Bioquell | BQ-50

AUTOMATED ROOM  
DISINFECTION TECHNOLOGY

Eliminate pathogens  
and reduce HAIs





## Introducing the BQ-50

### Automatic and easy to use

- Simply press a button to start the decontamination process. Optimise technician's time as the fastest cycle is automatically calculated using sophisticated electronics which assess the starting environmental conditions and room size

### Efficacious: kills pathogens

- Eliminate doubt – as well as pathogens - and reduce HAIs through the use of high strength 35% w/w hydrogen peroxide

### Fast and residue-free

- No residues: hydrogen peroxide vapour is converted to water vapour & oxygen at the end of the process using high-speed aeration units

### Small, lightweight and robust

- The BQ-50 has been designed to be readily and rapidly transported around a hospital

### Swift deployment

- Quick set-up times including wireless control

### Peace of mind that the job is done

- Supported by an extensive and unparalleled scientific evidence base: eliminate pathogens, eliminate doubt
- Instant reassurance of successful room bioquelling provided by simple, colour-change indicators

# Automated room disinfection technology

Nosocomial pathogens like *Clostridium difficile*, MRSA and VRE continue to cause problems in hospitals. The growth of antibiotic-resistant bacteria is now a global problem with experts and world leaders worried about the onset of a post-antibiotic age and escalating costs.

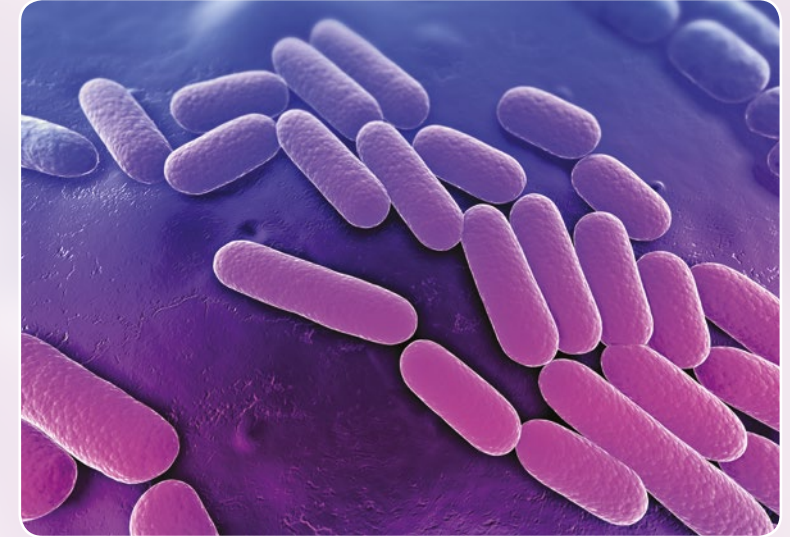
In particular, there are major clinical challenges linked to Gram-negative bacteria which are responsible for numerous healthcare-associated infections (HAIs). The number of viable antibiotics are going down fast, particularly for the treatment of problematic Gram-negative bacteria including *Acinetobacter baumannii*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa*.

## Eliminating pathogens, eliminating doubt

Research shows that ensuring successful eradication of all pathogens from the environment is essential to reduce HAIs. Bioquell's automated room disinfection technology ensures all high-touch surfaces are decontaminated.

Bioquell's unique hydrogen peroxide vapour (HPV) bio-decontamination technology works.

It has been shown to reduce HAI rates in numerous independent, published scientific studies as well as 'real-world' deployments at top hospitals such as Johns Hopkins (USA). The threat of increasing antibiotic resistance has driven the development of the new Bioquell BQ-50 – which draws upon all of Bioquell's 'microorganism' eradication expertise and experience.



### Bioquell's latest automated room disinfection technology ensures:

- Pathogens are rapidly eliminated
- HAI rates are reduced – a clinical impact
- Evidence-based technology is adopted

## Latest generation pathogen killing technology

Easy to use

Eliminates HAIs

Small and robust

- Simple to use with just 2 buttons: 'start' and 'stop'
- Most standard single patient rooms bioquelled in c. 1hr
- Easy to lift and move – small, lightweight and robust core unit weighing only 20kgs
- Simplified process monitoring technology – providing reliability with low service costs
- Fully automated cycle calculations – adjusts for room size, starting temperature and starting relative humidity to ensure pathogen eradication in the shortest time
- Estimation of when cycle completes, allowing for improved use of technician time during the 6-log decontamination process
- Aeration unit (only 10kgs) doubles up as HPV distribution during bio-decontamination phase
- Aeration units scalable: simply add more units for larger rooms (eg. ORs) – and all wirelessly controlled
- 2 bottles minimises hydrogen peroxide consumable wastage: the BQ-50 uses first bottle, then switches to second bottle
- Bespoke hospital transport system to ensure that all the equipment needed to operate the BQ-50 can be moved together
- BQ-50 – uses Bioquell's core HPV technology which is supported by extensive and unrivalled scientific research





# Applications for the BQ-50

The BQ-50 can be used to provide rapid 'emergency' response – or planned regular 'bioquelling' of high risk locations.

## Reactive bioquelling

For an emergency response to an outbreak and as part of contingency preparedness planning, the BQ-50 is an essential tool in the infection control suite of interventions.

### Hospital-wide

- Norovirus eradication
- CRE/CPE outbreak
- Resistant NDM strains
- Ebola preparedness

### ICU

- *Acinetobacter baumannii* outbreak
- *Klebsiella pneumoniae* in cardiothoracic ICU
- *Serratia marcescens* outbreak in neonatal ICU

### Burns unit

- *Pseudomonas aeruginosa*

### Bone marrow transplant

- *Aspergillus*

### Emergency response vehicles

- Ambulance bio-decontamination

## Select bioquelling

Whether used on a daily, weekly or an ad hoc basis, there are many ways that Bioquell BQ-50 technology addresses the infection control challenges you face at your hospital.

### Specialist hospital applications

- Neonatal incubators in NICU
- Childrens' toys in paediatrics
- ORs/operating theatres
- EDs / A&Es
- Renal/dialysis units

### Other specialist units

- High dependency / step down
- Oncology
- Haematology
- Elderly care
- Medical assessment unit
- Orthopaedic / spinal

### Routine healthcare applications

- Units/rooms post-building works (for eradication of *Aspergillus* spores)
- Units/rooms post-sprinkler set-off or flooding
- Ambulance deep clean



# Focused on eradicating HAIs



## A broad range of complementary products and services

### Bioquell Pod

Many critical care units comprise open-plan, multi-bed units with excellent visibility for clinical care but which can compromise infection control practices leading to a high risk of HAI transmission.

Pod technology from Bioquell enables open-plan, multi-bed units to be rapidly converted into single patient rooms – without the need to close the unit.

This unique single room solution with integrated air-handling can be deployed in a number of units, for example Neonatal with neonatal incubators.

Bioquell's single patient room Pod is now widely used in hospitals throughout the world. We are happy to share our expertise and experience of its application in a variety of healthcare environments.

### Bioquell's bio-decontamination services

Bioquell offers a range of service-based decontamination solutions for hospitals:

- **Reactive:** an emergency/rapid response from a discreet & highly professional team in the event of an HAI outbreak or major pathogen challenge.
- **Proactive:** fully managed, simple-to-implement service solution. Bioquell equipment and technicians are on-site and work alongside your infection control and facilities/environmental services teams at the hospital.
- **Select:** a tailor-made service to address the needs of the hospital incorporating key features from the 'Reactive' and 'Proactive' services.

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