



Bioquell® BQ-50

A portable bio-decontamination system for hospital-wide use

Bioquell[®] BQ-50



REDUCED INFECTION RATE

Deliver the ideal supply of vapour to eliminate pathogens in a room



VALIDATED CYCLE

A validated residue-free 6-log sporicidal kill for every cycle



BPR APPROVED

Bioquell HPV-AQ 35% hydrogen peroxide holds a European Union Authorisation under the Biocidal Products Regulation (BPR, Regulation (EU) 528/2012)

Proven 35% hydrogen peroxide vapour technology delivered in a portable, easy to use system

Lead the way in protecting your patients, staff and community by using the Bioquell BQ-50 to create a fully bio-decontaminated environment anywhere in your hospital.

In rooms up to 200 m³, this system aids you in the global fight against antibiotic resistance and healthcare-associated infections (HAIs).

Safe on sensitive electronics and residue-free, our 35% Hydrogen Peroxide Vapour technology eliminates pathogens from every exposed surface. Bioquell has proven efficacy against bacteria, viruses, spores and more, including *C. difficile*, VRE, norovirus, and CRE.

Bioquell BQ-50 offers:

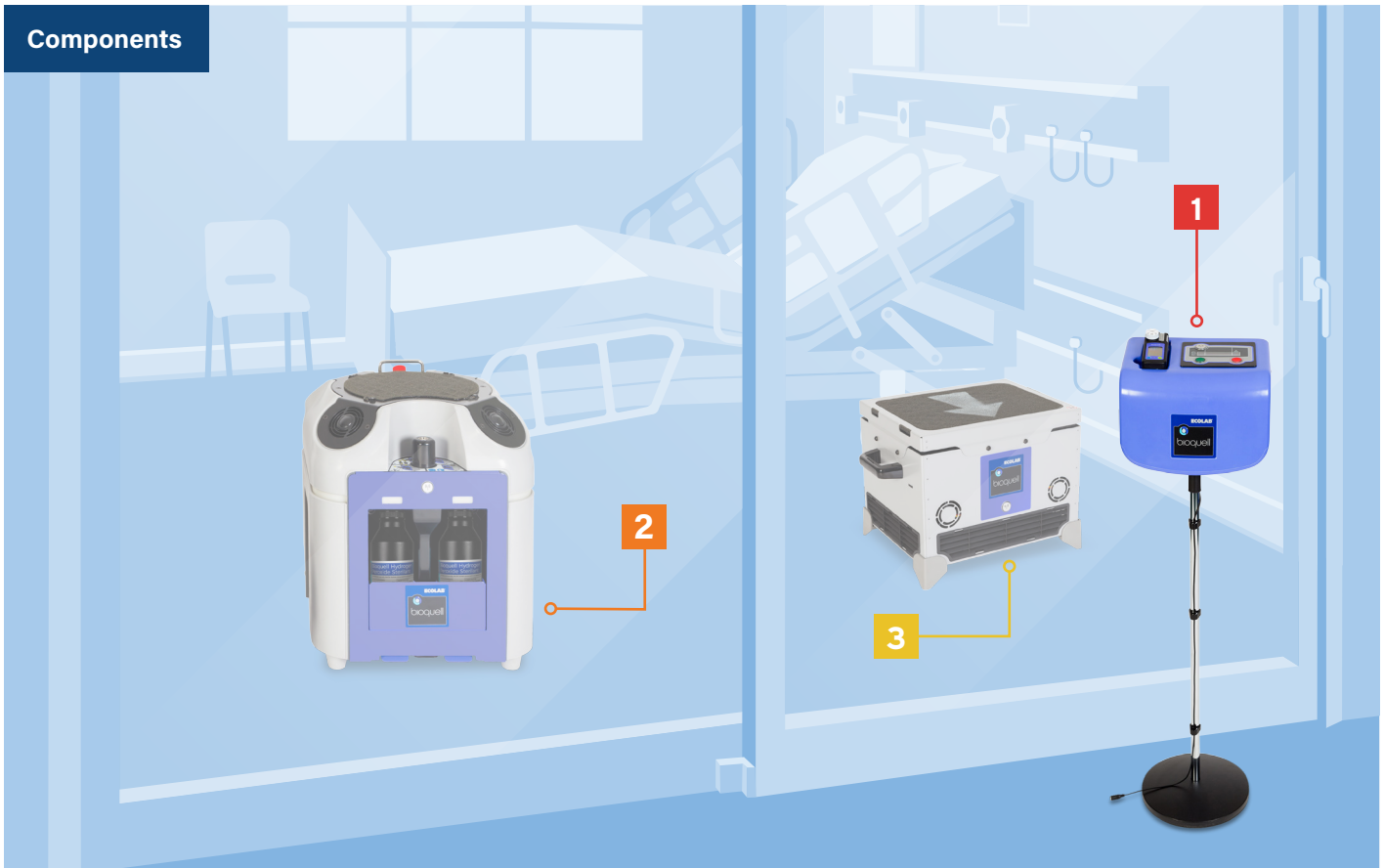
- ▼ Every exposed surface covered in a single cycle - wall to wall and ceiling to floor
- ▼ Effective pathogen elimination consistent across an entire room from 5 to 200 m³
- ▼ Rapid room turnover without compromising patient safety
- ▼ Implement as part of an effective infection prevention strategy
- ▼ Numerous peer reviewed studies in the healthcare environment, including results showing infection reductions of 39%¹ and 60%² of *C. difficile*

Applications:

The Bioquell BQ-50 can be used in a variety of situations in nearly every area of your facility.

- ▼ Any room from 5 to 200 m³
- ▼ Decrease HAI rates and target problematic pathogens
- ▼ Contain and eliminate escalated incidents
- ▼ Infection prevention in critical care areas
- ▼ Protect admitted immuno-compromised patients
- ▼ SSI reduction in operating theatres
- ▼ Maintain hospital pharmacy environmental levels
- ▼ Bio-decontaminate sensitive electronics
- ▼ Emergency response preparedness
- ▼ Accident and Emergency (A&E) department

Components



Hosted on a customised transport cart, the Bioquell BQ-50 is easy to navigate throughout your facility and is comprised of 3 key pieces:

1

Control panel

Placed outside the room, it communicates wirelessly with the vaporiser and aeration units. Enter in your room volume and the cycle starts with the push of a button.

2

Vaporiser

Fast, automated and lightweight, this component disperses the hydrogen peroxide vapour onto every exposed surface with recent improvements enhancing its capacity.

3

Aeration units

Each system comes with three units to rapidly remove hydrogen peroxide vapour from the room and to provide dynamic airflow to bio-decontaminate larger spaces. Residue and odour-free, the area can be occupied immediately upon cycle completion.

Your Bioquell BQ-50 system is enhanced with:

- ▾ The efficacy only Bioquell's proprietary 35% Hydrogen Peroxide Vapour provides
- ▾ Optional tracking and reporting with the Bioquell QuAD
- ▾ Direct Cycle Control (DCC) to bio-decontaminate large spaces
- ▾ Improved airflow management enhancing performance
- ▾ Upgrades allowing for cycles in extreme conditions
- ▾ RFID bottle reading for safety and quality control
- ▾ Compatibility with the Bioquell Pod single patient room
- ▾ Wireless communication between components
- ▾ Easy to use, mobile and light components
- ▾ Options for using multiple systems in high volume areas
- ▾ Comprehensive safety and user training
- ▾ A reduction in hydrogen peroxide needed to start a cycle

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Technical specifications

BQ-50		
Physical and safety data	Operating data	Power data
<p>Dimensions and weight:</p> <p>Lectern HMI: 290 x 1040 x 220 mm (11.4 x 50 x 8.7 in) adjustable, minimum stated. 4.6 Kg (10.1 lbs)</p> <p>Vaporiser module: 450 x 560 x 460 mm (17.7 x 22 x 18.1 in). 20 Kg (44 lbs) with 2 full bottles 22 Kg (48.5 lbs)</p> <p>Aeration unit: 480 x 330 x 340 mm (18.9 x 13 x 13.4 in) 10 Kg (22 lbs)</p> <p>Trolley: 700 x 1250 x 1350 mm (27.5 x 49.2 x 53 in)</p>	<p>Maximum H₂O₂ liquid volume: 2 x 950 mL (2 x 32.1 fl. oz.) (bottles Bioquell interface and RFID tag)</p> <p>H₂O₂ liquid concentration: 35% w/w. Bioquell HPV-AQ – stored at 4-25°C (39.2-77°F)</p> <p>Temperature (operation): 15°C to 30°C (59°F to 86°F) for successful and repeatable bio-decontamination</p> <p>The Bioquell BQ-50 will allow a cycle to start up to a maximum of 35°C (95°F) starting temperature</p> <p>Noise at 1m: 68dB(A)</p> <p>Wireless: 2.4 GHz ISM Band, 16 channels (IEEE802.15.4 Channel 11 to 26)</p>	<p>Regional power data requirements:</p> <p>Lectern HMI: 100-240 V Single phase, 50/60 Hz, (0.4 A)</p> <p>Vaporiser: 230 V Single phase, 50/60 Hz, (7.5 A) 120 V Single phase, 50/60 Hz, (15 A)</p> <p>Aeration unit: 100-240 V Single phase, 50/60 Hz, (3.1 A)</p> <p>Consumption: Lectern HMI - 0.006 kW Vaporiser - 1.8 kW Aeration Unit - 0.32 kW</p> <p>Supply: Installation category II</p>

¹ Manian FA, Griesnauer S, Bryant A. Implementation of hospital-wide enhanced terminal cleaning of targeted patient rooms and its impact on endemic Clostridium difficile infection rates. Am J Infect Control. 2013 Jun;41(6):537-41. doi: 10.1016/j.ajic.2012.06.014. Epub 2012 Dec 6. PMID: 23219675.

² McCord J, Prewitt M, Dyakova E, Mookerjee S, Otter JA. Reduction in Clostridium difficile infection associated with the introduction of hydrogen peroxide vapour automated room disinfection. J Hosp Infect. 2016 Oct;94(2):185-7. doi: 10.1016/j.jhin.2016.05.014. Epub 2016 May 31. PMID: 27372150.

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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