



# BIOQUELL Z-2

HIGH VOLUME ZONE DECONTAMINATION  
WITH SCALABILITY AND MOBILITY

From novel therapy and drug discovery efforts to bioprocessing and pharmaceutical production, the Bioquell Z-2 is trusted daily for advanced room and zone decontamination. It provides a mobile, automated solution to protect critical research areas and manufacturing facilities from contaminants.

Our patented Hydrogen Peroxide Vapour technology used by the Bioquell Z-2 adheres to regulatory compliance standards and is the system preferred by industry leaders around the world for contamination prevention.

Each Bioquell Z-2 boasts built-in aeration for rapid cycle times and the capacity to decontaminate larger zones with multiple systems.



## VAPORIZATION AND AERATION IN ONE



Each Bioquell Z-2 system provides a proven 6-log kill (99.9999% elimination) of bioburden from every exposed surface in a selected zone, and includes built-in aeration capabilities. Combined with Bioquell's validation efforts to optimize your cycle times, the Bioquell Z-2's vaporization and aeration capabilities limit downtime while protecting you from a contamination event.

## SCALABILITY TO MEET YOUR NEEDS



Every Bioquell Z-2 system can remove contaminants in areas up to 250m<sup>3</sup>, with the potential for much larger areas under Bioquell's advise. If you require decontamination in production areas or selected zones exceeding the scope of a single system, multiple systems can be operated at once to provide complete coverage. Our validation team will work with you to establish programmed cycles proven to eliminate bioburden in your areas of need.

## QUICK SETUP, RAPID DECONTAMINATION



As with every Bioquell decontamination system, there is no need to wait for a limited temperature or humidity range to be reached to begin the process. Capable of holding up to 300 pre-programmed cycles, an easy to use touchscreen and printed reports, you experience a simple setup with swift cycles and detailed reporting. Times can be further reduced through the use of up to two additional Bioquell aeration units. This can play a pivotal role in situations where HVAC cannot be used to assist in the removal of Hydrogen Peroxide Vapour.

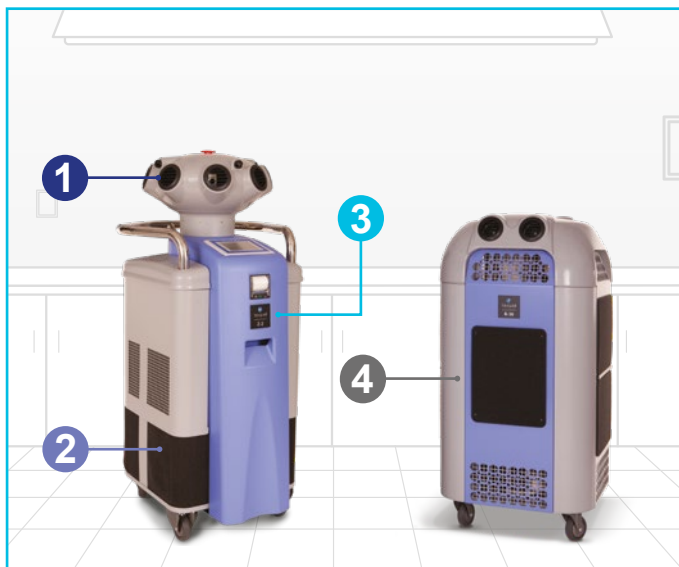
## YOUR BIOQUELL Z-2 SYSTEM CAN BE OPTIMIZED WITH:

- Aeration unit(s) for faster room turnaround
- System commissioning and IQ/OQ/PQ
- Advanced validation such as gas cycle development (GCD) and Performance Qualification (PQ)
- Integration testing for Building Management System (BMS)
- Complete documentation packages
- Real time cycle data available over Ethernet (Modbus protocol)
- Storage for up to 300 pre-programmed gassing cycles
- Thermal printer for recording key cycle data

## APPLICATIONS:

Maintain the integrity of your workspaces and key zones with the thorough decontamination offered by the Bioquell Z-2.

- Production and manufacturing zones of nearly any size
- Bio-safety labs of all levels
- Cleanrooms, lab spaces and anterooms
- Upstream/Downstream bioprocessing workflows



## COMPONENTS:

- 1 Vaporiser and Distribution**  
Each Bioquell Z-2 vaporiser can accommodate spaces up to 250m<sup>3</sup> and potentially much larger under Bioquell's advise
- 2 Built-In Aeration**  
Aeration capabilities are built-in to the body of the system as a standard feature.
- 3 Touchscreen Control Panel**  
The control panel detaches from the system and is hosted outside of the zone being decontaminated.
- 4 Optional Aeration**  
Up to two Bioquell aeration units can be connected to each Bioquell Z-2 to decrease cycle time when needed.

## GET TECHNICAL WITH THE BIOQUELL Z-2

Physical and safety data	Operating data	Power data	
Dimensions and weight With lectern: 660 x 1444 x 710mm (26.0 x 56.8 x 28.1in) Without lectern: 660 x 1444 x 560mm (26.0 x 56.8 x 22.0in)  With lectern: 95kg (209lbs) Lectern: 11.5kg (25lbs)	Temperature Operating: 15-30°C or (59-86°F) Storage: 0-35°C or (32-95°F)	Regional power data requirements: 230V AC, 50/60Hz 13A 120V AC, 50/60Hz 12A 100V AC, 50/60Hz 15A	
	Relative humidity (RH) limits at start of cycle: 80% max <sup>2</sup>		Operational consumption: 230V AC, 3kW 120V AC, 1.4kW 100V AC, 1.5kW
	Temperature of vapour supply 50-70°C (122-158°F)	Supply: Installation category II	
	Max liquid volume 5L: (1.32 US gallons)		
	Airflow rates Vapour: 50m <sup>3</sup> /hr (29.4CFM) Air distribution: 800m <sup>3</sup> /hr (471CFM), Aeration: 1000m <sup>3</sup> /hr (589CFM)		
		H <sub>2</sub> O <sub>2</sub> liquid injection rate 230V: 20g/min, 120V/100V: 10g/min	

<sup>1</sup> The Bioquell Z-2 will allow a cycle to begin at a maximum of 35°C (95°F) starting temperature. However, when operating above 30°C, please contact Bioquell to ensure the correct cycle is set up.

<sup>2</sup> If requiring to operate outside this range, refer to Bioquell or its agents.

<sup>3</sup> For a full hydrogen peroxide specification, please contact Bioquell or its agents.

### UK Headquarters

Bioquell UK Ltd  
 E: enquiries@bioquell.com  
 W: www.bioquell.com  
 T: +44 (0)1264 835 835

### Global

**The Americas**  
 Bioquell Inc  
 T: +1 215 682 0225  
  
**France**  
 Bioquell SAS  
 T: +33 (0)1 43 78 15 94

**Germany**  
 Bioquell GmbH  
 T: +49 (0) 221 168 996 74

**Ireland**  
 Bioquell Ireland  
 T: +353 (0)61 603 622

**China**  
 Bioquell Shenzhen Technology Company Ltd  
 T: +86 755 8635 2622

**Singapore**  
 Bioquell Asia Pacific Pte Ltd  
 T: +65 6592 5145

