

# Bioquell | Q-10



- **Mobile hydrogen peroxide vapour (HPV) generator capable of 6-log bio-decontamination**
- **Excellent material compatibility, suitable for room volumes up to 250m<sup>3</sup>**
- **Simple to operate, fast bio-decontamination cycles, with intelligent parametric control**

The Bioquell Q-10 is a user-friendly mobile hydrogen peroxide vapour (HPV) generator which is capable of decontaminating rooms/laboratories of up to 250m<sup>3</sup>. A unique parametric control system provides fast and efficient bio-decontamination cycles. Enhanced HPV delivery and control is via a simple touch panel user interface. The Bioquell Q-10 is ideal for high-level disinfection of all surfaces within an enclosed area, providing a 6-log reduction in environmental bioburden, the same standard used when validating steam sterilisers/autoclaves.

The Bioquell Q-10 is suitable for facility/area bio-decontamination in non-regulated/GMP areas including food manufacturing/processing, laboratories, biomedical suites, biosafety/biosecurity zones and healthcare facilities.



**Image 1.** Pre-filled high quality Bioquell hydrogen peroxide bottles offer optimal performance and safety



**Image 2.** Hand held HPV environmental monitoring device provided as standard



**Image 3.** Thermal printer housed on lectern provides a record of the bio-decontamination cycle

## Technical specification

### Physical and safety data

#### Dimensions (WxHxD)

With control panel  
565 x 1250 x 655mm  
(22.3 x 49.2 x 25.8in)  
Without control panel  
565 x 1250 x 620mm  
(22.3 x 49.2 x 24.4in)

#### Weight

65kg (143lbs)  
(includes control panel and empty  
hydrogen peroxide tank)

### Operating data

#### Temperature of supply vapour at outlet

50-70°C (122-158°F)

#### H<sub>2</sub>O<sub>2</sub> liquid injection rate

230V 22g/min  
100V/120V 9-11g/min

#### Maximum H<sub>2</sub>O<sub>2</sub> liquid volume

4.5L (152fl oz)

#### H<sub>2</sub>O<sub>2</sub> liquid concentration

30-35% w/w Bioquell supply only  
– stored at 2-25°C (32-77°F)

#### Temperature (operation)

Operating 15-30°C (59-86°F)

#### Relative humidity

Operating 80% RH (max)

#### Airflow rate Vaporisation

230V/120V 45m<sup>3</sup>/hr (26.5CFM)

100V 40m<sup>3</sup>/hr (23.5CFM)

#### Distribution

≥800m<sup>3</sup>/hr (471CFM)

### Power data

#### Requirements

230V AC, single phase, 50/60Hz, 12A  
120V AC, single phase, 50/60Hz, 14A  
100V AC, single phase, 50/60Hz, 15A

#### Consumption

230V AC, 2.76kW max  
120V AC, 1.68kW max  
100V AC, 1.50kW max

#### Supply

Installation category II

## Key features

The Bioquell Q-10 includes intuitive software with PLC (programmable logic controller) interfaced via a colour touch panel. It has an integrated 4.5 litre hydrogen peroxide solution reservoir for continuous room gassing and an integral thermal paper printer. A hand held HPV environmental monitoring device is provided. Volt-free contacts allow remote start/stop functionality and a lightweight detachable control panel is provided for operation outside the target room/zone.

The Bioquell Q-10 utilises 30-35% w/w Bioquell hydrogen peroxide solution supplied in 500ml volumes which is effective against a wide range of microorganisms.

## Operation

After pre-loading the Bioquell Q-10 with hydrogen peroxide solution, parametric or user determined timed cycles can be employed to bio-decontaminate the target area. A thermal printer allows for hard copy data recording of each stage of the HPV bio-decontamination cycle. A Bioquell aeration and distribution system is required for aeration in areas where room HVAC cannot be used.

## Optional accessories include:

Bioquell catalytic aeration equipment can be linked directly to the Bioquell Q-10, assisting the decontamination cycle and also speeding up greatly the aeration phase (the longest part of the cycle). Please contact Bioquell for further information.

## Validation and service

Bioquell provides complete service including:

- Installation and integration
- Preventative maintenance plans
- Extensive field-based service engineer network
- Bio-decontamination cycle development services

Your local distributor:

Disclaimer: Please note that this document comprises marketing literature and is for summary information purposes only; customers or potential customers must not rely upon the contents of this document. Bioquell UK Ltd or its affiliates, distributors, agents or licensees (together 'Bioquell') reserve the right to make changes to the contents of this document at any time and without prior notification.

Bioquell is a registered trade mark of Bioquell UK Ltd.  
© Bioquell UK Ltd (2012). All rights reserved.

**E:** [info@bioquell.com](mailto:info@bioquell.com)  
**W:** [www.bioquell.com](http://www.bioquell.com)

**Bioquell UK**  
**T:** +44 (0)1264 835 835  
**Bioquell USA**  
**T:** +1 (215) 682 0225

**Bioquell Ireland**  
**T:** +353 (0)61 603 622  
**Bioquell Asia Pacific**  
**T:** +65 6592 5145

**Bioquell France**  
**T:** +33 (0)1 43 78 15 94  
**Bioquell China**  
**T:** +86 755 8631 0348

