

# BIOQUELL BQ-EMS

A PORTABLE, EASY TO USE DECONTAMINATION SYSTEM WITH 35% HYDROGEN PEROXIDE VAPOUR TECHNOLOGY FOR EMS VEHICLES

Lead the way in protecting your patients and staff by using the Bioquell BQ-EMS to decontaminate every exposed surface within your emergency vehicles.

A revolutionary system developed for emergency response vehicles, the Bioquell BQ-EMS is modular, lightweight, and easy to use, giving you the ability to rapidly eliminate pathogens left behind in your vehicle.

The process is safe on sensitive electronics and residue-free. This mobile and powerful system has proven efficacy against a wide spectrum of organisms.



## ONE CYCLE. EVERY SURFACE. WALL TO WALL. CEILING TO FLOOR



In a single cycle, every exposed surface receives the efficacy Bioquell is known for worldwide, a 99.9999% sporicidal kill. Using our proprietary technology, an EPA registered sterilant, no area remains untouched. Open as many cabinets and drawers as possible to decontaminate even the hardest to reach places, all in a single cycle.

## AUTOMATED DECONTAMINATION CAN SAVE TIME AND LIVES



No two days are the same for an EMS professional. The unpredictability of the job can mean effective disinfection becomes a low priority or a near impossibility. An extensive clean can take many man hours. The Bioquell BQ-EMS system provides an automated solution ideal for use after a shift or following preventative maintenance. Reduce the risk that your patients or staff are exposed to a harmful pathogen.

## CYCLES IN AS FAST AS 45 MINUTES



With our Direct Cycle Control (DCC) you deliver the optimum amount of vapour within a vehicle. Simply prepare the vehicle for decontamination including the removal of any visible dirt or soil from the exposed surfaces, place in the equipment, enter in the area volume, seal the doors, and hit go. In as fast as 45 minutes\*, you can safely reclaim the vehicle with no harsh odours remaining or additional wipe downs required.

## YOUR BIOQUELL BQ-EMS SYSTEM IS ENHANCED WITH:

- Bioquell's proprietary 35% hydrogen peroxide vapour
- Rugged, mobile, and lightweight components
- Comprehensive safety and user training
- Wireless communication between components
- Upgrades allowing for cycles in extreme conditions
- RFID bottle reading for safety and quality control

## APPLICATIONS

You can use the Bioquell BQ-EMS to create a 99.9999% sporicidal kill in the following areas:

- Ambulances
- Police vehicles
- EMS station
- Fire apparatus
- Equipment closets
- High risk transports



## COMPONENTS:

Mobile, lightweight and versatile, the Bioquell BQ-EMS is easy to transport throughout various areas and is comprised of 4 key pieces:

- 1 Handheld Sensor**  
Safety is paramount for Bioquell. This low-level hydrogen peroxide sensor is used to confirm no vapour is escaping during a cycle and to ensure the area is safe to enter after a cycle.
- 2 Control Panel**  
Kept in a hardwearing case and placed outside the vehicle, it wirelessly controls the vaporiser and aeration units. Enter in the volume of the area to be decontaminated and the cycle starts with the push of a button.
- 3 Vaporiser**  
Fast, automated and lightweight, this component disperses the hydrogen peroxide vapour onto every exposed surface.
- 4 Aeration Units**  
With two high-powered aeration units, hydrogen peroxide vapour is removed rapidly in the final stages of the cycle. Once complete, the area is left residue and odour free.

## GET TECHNICAL WITH THE BIOQUELL BQ-EMS

Physical and safety data	Operating data	Power data
<p>Dimensions and weight</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>Cased Control Panel - 310 x 145 x 270 mm (12 x 5.75 x 10.5 in). 2.3 Kg (5.1 lbs)</p>	<p>Maximum H<sub>2</sub>O<sub>2</sub> liquid volume: 2 x 950 ml ( 2 x 32.1 fl oz) (bottles Bioquell interface and RFID tag)</p> <p>H<sub>2</sub>O<sub>2</sub> 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 decontamination</p> <p>The Bioquell BQ-EMS 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>Control Module HMI - 100-240V Single phase, 50/60 Hz, (0.4 A)</p> <p>Vaporiser</p> <p>230 V - Single phase, 50/60 Hz, (7.5A)</p> <p>120 V - Single phase, 50/60 Hz, (15A)</p> <p>Aeration Unit - 100-240 V Single phase, 50/60 Hz, (3.1 A)</p> <p>Consumption:</p> <p>Control Module HMI - 0.006 kW</p> <p>Vaporiser - 1.8 kW</p> <p>Aeration Unit - 0.32 kW</p> <p>Supply: Installation category II</p>

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