

# BIOQUELL BQ-EMS

A PORTABLE, EASY TO USE DECONTAMINATION SYSTEM WITH 35% HYDROGEN PEROXIDE VAPOR 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 bacteria, viruses, spores, and more, including *C. difficile*, VRE, MRSA, norovirus, and CRE.



### 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 6-log sporicidal kill (99.9999% elimination). 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 UNDER AN HOUR

With our Direct Cycle Control (DCC) you deliver the optimum amount of vapor within a vehicle. Simply prepare the vehicle for decontamination, place in the equipment, enter in the area volume, seal the doors, and hit go. In under an hour\*, you can safely reclaim the vehicle with no harsh odors remaining or additional wipe downs required.

\*Subject to configuration, loading and environmental conditions

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

- Bioquell's proprietary 35% hydrogen peroxide vapor
- · 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**

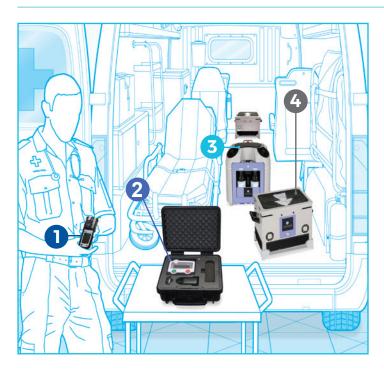
You can use the Bioquell BQ-EMS to completely eradicate pathogens in the following areas:

- Ambulances
- Police vehicles
- Helicopters

Fire apparatus

loquell HPV

- Equipment closets
- · Post Ebola and other 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:



Safety is paramount for Bioquell. This low-level hydrogen peroxide sensor is used to confirm no vapor is escaping during a cycle and to ensure the area is safe to enter after a cycle.

**Control Panel** 

Kept in a hardwearing case and placed outside the vehicle, it wirelessly controls the vaporizer and aeration units. Enter in the volume of the area to be decontaminated and the cycle starts with the push of a button.

**Vaporizer** 

Fast, automated and lightweight, this component disperses the hydrogen peroxide vapor onto every exposed surface.

**Aeration Units** 

With two high-powered aeration units, hydrogen peroxide vapor is removed rapidly in the final stages of the cycle. Once complete, the area is left residue and odor free.

### GET TECHNICAL WITH THE BIOQUELL BQ-EMS

#### Physical and safety data Operating data Power data Maximum $H_2O_2$ liquid volume: 2 x 950 ml (2 x 32.1 fl oz) (bottles Bioquell interface and RFID tag) Regional power data requirements: Control Module HMI - 100-240V Single phase, 50/60 Hz, (0.4 A) Dimensions and weight Vaporizer Module - 450 x 560 x 460 mm (17.7 x 22 x 18.1 in). 20 Kg (44 lbs) 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) 230 V - Single phase, 50/60 Hz, (7.5A) with 2 full bottles 22 Kg (48.5 lbs) 120 V - Single phase, 50/60 Hz. (15A) Aeration Unit - 100-240 V Single phase, 50/60 Hz. (3.1 A) Temperature (operation): Aeration unit - 480 x 330 x 340 mm 15°C to 30°C (59°F to 86°F) for successful and repeatable decontamination (18.9 x 13 x 13.4 in). 10 Kg (22 lbs) The Bioquell BQ-EMS will allow a cycle to start up to a maximum Cased Control Panel Control Module HMI - 0.006 kW of 35°C (95°F) starting temperature 2.3 Kg (5.1 lbs) Noise at 1m: 68dB(A) Aeration Unit - 0.32 kW Wireless: 2.4 GHz ISM Band, 16 channels (IEEE802.15.4 Channel 11 to 26) Supply: Installation category II

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