



# Bioquell<sup>®</sup> L-4

Bio-decontamination for enclosures,  
equipment and more

# Bioquell® L-4



## BPR APPROVED

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



## MOBILE & VERSATILE

Easily transport and configure the Bioquell L-4 for numerous applications



## VALIDATED CYCLE

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

# A versatile and mobile system for the bio-decontamination of enclosures and rooms

Eliminate microbial contamination from your equipment, small enclosures, rooms and more using the multipurpose Bioquell L-4. Ecolab's Bioquell Hydrogen Peroxide Vapour technology is effective for bio-decontaminating isolators, hoods / biosafety cabinets, freeze dryers, pass-throughs, rack washers, filter bank enclosures and more.

The Bioquell L-4 can also be used to bio-decontaminate rooms through direct connections, simple room setup, or custom engineering solutions.

The Bioquell L-4 offers flexibility due to its unique design. The system is operated by an easy to use touch screen and connects supply and return hoses to the equipment or enclosure being bio-decontaminated via camlocks. When integrating into complex equipment, customised engineering requests can be accommodated as well. These may include the use of automation in a process or the installation of fixed pathways to introduce vapour into a room or enclosure.

With the Bioquell L-4 there is no need to wait for a specific temperature or humidity to be reached that may be required with other hydrogen peroxide vapour bio-decontamination systems, which saves valuable time.

## Bioquell L-4 features

- Validated, automated cycle provides 6-log sporicidal kill on every exposed surface
- RFID enabled bottles for traceability and quality control
- 21 CFR Part 11 audit trail compliance package
- Use for room bio-decontamination with optional accessories
- Customised engineering solutions allow for other delivery solutions to meet your needs
- Paper and digital cycle reports to support GMP compliance

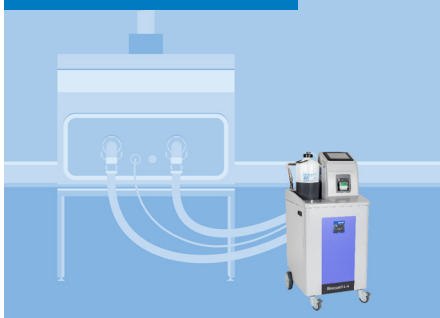


## Applications:

The Bioquell L-4's versatility provides bioburden elimination from numerous areas to protect you from a contamination event.

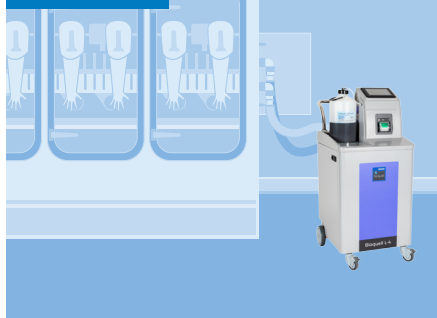
- ▾ Enclosed systems and equipment isolators
- ▾ Pass-throughs
- ▾ Cage and rack washers
- ▾ Cleanroom and lab spaces up to 250 m<sup>3</sup>
- ▾ Freeze dryers
- ▾ Material airlocks
- ▾ Biosafety cabinets
- ▾ HEPA/filter bank enclosures
- ▾ Incubators

### BIOSAFETY CABINETS



With the addition of an optional faceplate from Ecolab, the hood / biosafety cabinet has now become an enclosed space capable of bio-decontamination from the Bioquell L-4.

### ISOLATORS



Validated cycles can be delivered through the Bioquell L-4 allowing companies to easily adopt bio-decontamination into their workflow.

### MATERIAL AIRLOCKS & PASS-THROUGH CHAMBERS



With validated cycles users can consistently perform bio-decontaminations within material airlocks to help ensure environmental integrity of critical areas.

### ROOMS



Expand the capabilities of the Bioquell L-4 by attaching a distribution head and optional aeration allows for the Bioquell L-4 to perform room bio-decontaminations as needed as well. The system is operated from outside the room through a control panel.

### Your Bioquell L-4 system can be optimised with:

- ▾ Comprehensive validation and documentation (IQ/OQ/GCD/PQ)
- ▾ Integration testing for BMS and more complex systems
- ▾ Cycle recording (thermal printer and solutions for real time cycle data)
- ▾ Remote start/stop integration and automation
- ▾ Storage for up to 300 pre-programmed cycles
- ▾ Room distribution and aeration accessories



# Bioquell® L-4

## Technical specifications

Bioquell L-4		
Physical and safety data	Operating data	Power data
<p><b>Dimensions and weight:</b> 550 x 1160 x 695 mm (21.7 x 45.6 x 27.4 in) 72.5 Kg (160 lbs)</p> <p><b>Locking brake:</b> (2x) Castor lock</p> <p><b>Vapour hoses and connectors:</b> 1.5 inch nominal bore 1.5 inch male/female camlock coupling</p>	<p><b>Operating temperature:</b> Operate at ambient temperatures<sup>1</sup></p> <p><b>Storage and opening:</b> 0 - 35°C (32 - 95 °F)</p> <p><b>Relative humidity (RH) Limits at start of cycle:</b> 10 to 80% max</p> <p><b>Hydrogen peroxide liquid 35% w/w Bioquell supply only<sup>2</sup>:</b> Standard model fits 500 ml and 1000 ml bottle 5 litre model only fits 5000 ml bottle</p>	<p><b>Regional power data requirements:</b> 230 v: single phase 50/60 Hz 6 A 120 v: single phase 50/60 Hz 12 A 100 v: single phase 50/60 Hz 15 A</p> <p><b>Operational consumption:</b> 1.44 kW/h (max)</p> <p><b>Supply:</b> Installation category II</p>

<sup>1</sup> For concerns or questions related to temperature limits, please contact Ecolab.

<sup>2</sup> For a full hydrogen peroxide specification, please contact Ecolab or its agents.

For regional office details, please visit [bioquell.com](https://www.bioquell.com)

USE BIOQUELL PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

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