

Bioquell[®] L-4

Bio-decontamination for enclosures, equipment and more



GLOBAL EXPERTS IN CONTAMINATION CONTROL

Bioquell[®] L-4



EPA APPROVED

When used according to the label instructions, Ecolab Bioquell systems utilize Bioquell Hydrogen Peroxide Sterilant-AQ (EPA Registration Number: 1677-277) as part of the bio-decontamination process



MOBILE & VERSATILE

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



VALIDATED CYCLE

A validated, 6-log sporicidal kill with no wipe downs or additional cleaning required after a cycle

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

Help eliminate microbial contamination from your equipment, small enclosures, rooms and more using the multipurpose Bioquell L-4. Ecolab's Bioquell Hydrogen Peroxide Vapor* 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, customized 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 vapor 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 bio-decontamination systems, which saves valuable time.

Bioquell L-4 features:

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



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Applications:

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

- Enclosed systems and equipment isolators
- Pass-throughs
- Cage and rack washers
- Cleanroom and lab spaces up to 250 m³
- ▼ Freeze dryers
- Material airlocks

- Biosafety cabinets
- HEPA/filter bank enclosures
- Incubators



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.



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



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



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 optimized with:

- Comprehensive validation and documentation (IQ/OQ/GCD/PQ)
- Integration testing for Building Management System (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
- Cycle end detector to accurately indicate low-level concentration[†]



†The cycle end detector reading must not be used as an indication for safe human entry into the bio-decontaminated enclosure. This should be done with an instrument which has been certified for this purpose.

^{**}Bioquell cycles are validated using *Geobacillus* stearothermorphilus endospores to confirm that a cycle has achieved a 6-log sporicidal reduction

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Technical specifications

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

 $^{^{\}mbox{\tiny 1}}$ For concerns or questions related to temperature limits, please contact Ecolab.

For more information contact your Ecolab Account Manager

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

WORLDWIDE HEADQUARTERS

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*EPA Registration Number: 72372-1-86703

² For a full hydrogen peroxide specification, please contact Ecolab or its agents.