

Bioquell | WIC-1

INTERNAL HPV



- Walk-in chamber with built-in hydrogen peroxide vapour (HPV) bio-decontamination system
- Ideal for controlled zone-to-zone transfer with floor level loading/unloading
- Easy to operate, providing fast and reliable bio-decontamination cycles

The Bioquell WIC-1 is designed to enable material loads and equipment to enter or exit controlled areas easily. The Bioquell WIC-1 chamber integrates all the essential processes into an efficient and safe system for transfers, including high-level disinfection using Bioquell hydrogen peroxide vapour (HPV) bio-decontamination. The Bioquell WIC-1 incorporates an integrated HPV generator, allowing for rapid and efficient bio-decontamination cycles. Typically vented through a building HVAC system, with an optional aeration system available for even quicker cycle times. Complete kill to 6-log microbial reduction standards can be achieved, easily verified using biological or chemical indicators – also available from Bioquell.

The Bioquell WIC-1 is ideal for use in GMP regulated, or non-regulated areas including biomedical facilities and biosafety/biosecurity facilities.



Image 1. Specially developed control software, operated via a colour touch panel



Image 2. Interlocked controlled doors with inflatable seals



Image 3. Spacious internal design with ceiling mounted aeration

Technical specification

Physical and safety data

Internal dimensions¹

Width: 1100mm
(43.3in)

Depth: 1440 or 1974 or 2540 or
2840 or 3340mm
(56.7 or 76.4 or 100.0 or 111.8 or 131.5in)

Height: 2200mm (86.6in)

Operating data

Airflow rates (ceiling aeration)²

Out of cycle: 140m³/hr (82CFM)
In aeration: 2200m³/hr (1295CFM)

Environmental classification

EU GMP Grade D – C / Grade C – B

HEPA filter efficiency:

EN 1822 H14 (99.995%)

Hydrogen peroxide liquid

30-35% w/w Bioquell approved supply only

Power data

Requirements

230/240V AC, single phase, 50/60Hz 30A supply
(current dependent on configuration)

Supply

Installation category II

¹ All dimensions are shown as a minimum, to allow for the maximum working volume. ² Where installed.

Key features

A unique floor level loading/unloading system provides for easy and safe material handling. Selectable interlock priority points are available for safe entry and exit. Constructed in stainless steel 304 grade with phenolic resin doors as standard. The entire chamber can be built on the existing floor structure minimising any construction preparation. The Bioquell WIC-1 has been designed for optimum safety against accidental exposure to the bio-decontamination agent (HPV). The built-in HPV generator provides an environment within the chamber, which is free of biological contaminants. Bioquell's prefilled high quality hydrogen peroxide aqueous solution offers excellent batch control and operator safety. The chamber doors can be provided in either phenolic resin or stainless steel. Recirculating catalytic aeration results in minimal exhaust of conditioned air, making the solution highly energy efficient.

Operation

The on-board colour touch panel controls enable easy operation of the HPV bio-decontamination process with instant feedback of operational status.

Modular retrofits

- Modular system for compatibility with any facility configuration
- Can be used to replace existing formaldehyde bio-decontamination chambers
- Simple installation and minimal change to existing facility
- Level floor loading/unloading – built to entry floor level

Consumables and optional accessories:

- External extract fan-filter unit
- Ceiling mounted catalytic aeration unit
- Integral compressed air supply
- Air-purge boost system
- Hand held HPV detector
- Bioquell HPV-BI (biological indicators inoculated with 6-log *Geobacillus stearothermophilus*)
- Bioquell HPV-CI (chemical indicators designed for use with Bioquell's bio-decontamination process only)
- Bioquell HPV-AQ (high quality aqueous hydrogen peroxide solution)

Options

- 316 stainless steel construction
- 304 or 316 stainless steel doors with glass inlay

Validation and service

Bioquell provides complete service including:

- GAMP compliant software
- Installation and integration
- Preventative maintenance plans
- Extensive field-based service engineer network
- IQ/OQ/PQ documentation and execution
- Bio-decontamination cycle development services

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