



MD-H

Decontamination Hatch

PBSC provide installation, servicing, technical advice, product selection and demonstrations for clean controlled environments with **Innovation, Design and Quality** at the heart.

PBSC manufacture high quality clean room, high containment and material decontamination products. When you need areas and staff to be contamination free and protected from pathogens, you need dependable equipment which will maintain critical biosafety levels, achieve sterility and protect data reliability.

Complying with local and global regulations PBSC's products can be designed to meet your specific requirements. Over 35 years knowledge and competence within the specialist sectors, always going through extensive research and development and offering accurate assistance during project planning to consultants, architects and end users to deliver successful projects.



Innovation

Incorporating your requirements to create product ranges to exceed expectations



Design

Leading the way with pioneering design, ensuring customer requirements are achieved



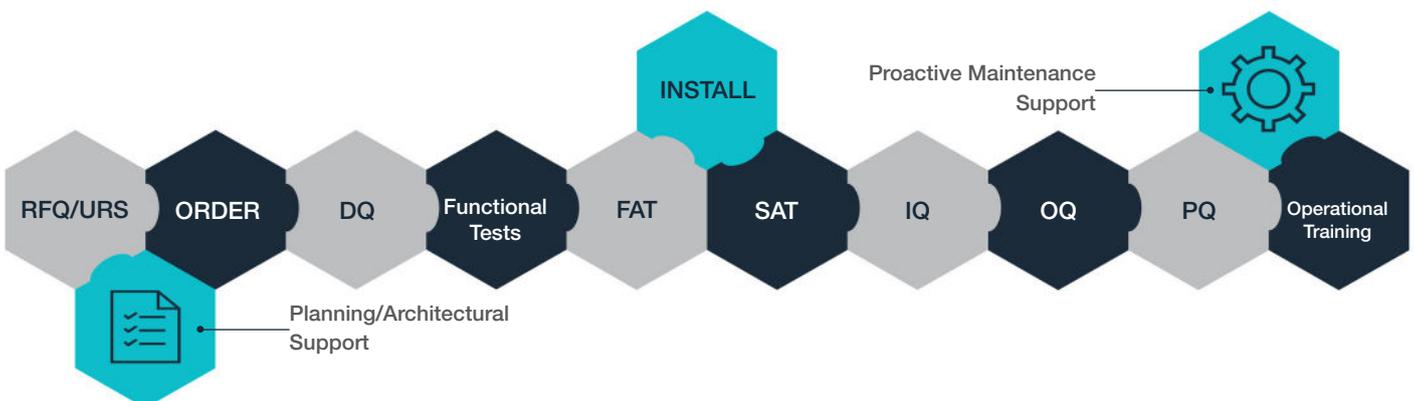
Quality

Delivering high quality products for over 35 years, with rigorous testing and inspection

PBSC is the accepted benchmark by which others are measured...

The search for innovative design, an eye for detail and advanced manufacturing techniques has seen PBSC gain a deserved reputation as the premier supplier within cleanroom environments.

Supporting the customer throughout the process continuing to meet the growing challenges and striving for continual improvement with our ISO 9001 QA processes independently audited and updated on a regular basis.





Description



PBSC's high level Log6 surface disinfection hatch is a freestanding unit, ideal for samples and equipment loads in cleanroom and high containment environments. PBSC provides decontamination solutions with market leading H₂O₂ generator manufacturers ensuring regulatory compliance and consumable traceability. The hatch is designed to be intuitive allowing ease of use for facility operators.

The decontamination cycle is initiated via the colour touch screens on either side of the hatch, which provides operators with in-cycle data from the hatch and H₂O₂ generator.

Effective against a wide range of micro-organisms and viruses, the decontamination hatch provides a low heat decontamination solution for heat sensitive items such as electronics i.e. laptops, or biologic preparations. The decontamination hatch is a viable addition to a facilities process ethos for material transfer either into or out of the critical environment.

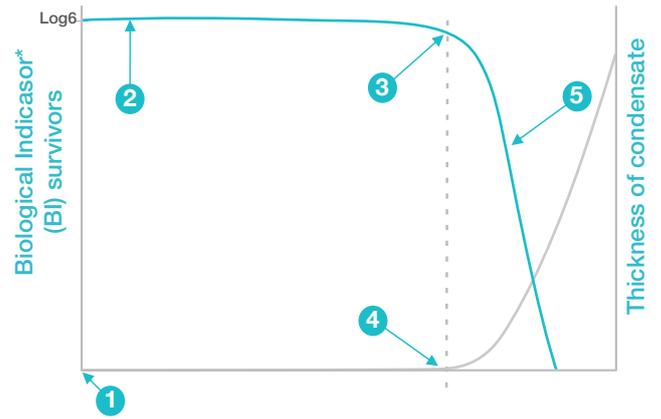
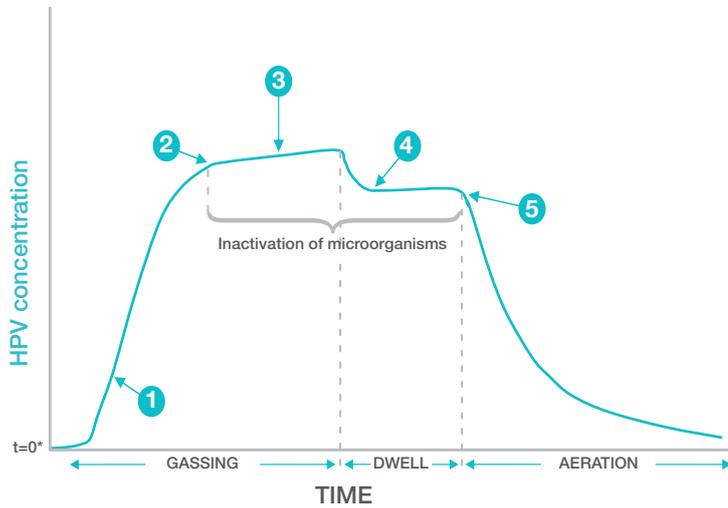
Including either a S1200 or S1500 PLC which monitors and records all critical parameters of each cycle.

Various custom sizes are available, please contact PBSC to discuss

Air handling options

- The hatch can operate with connection to a HVAC system.
- PBSC supplied air handling units - APB systems with extract units
- PBSC can provide a Full Scrub Solution which reduces PPM down to safe levels on a single pass, removing the need for a dedicated exhaust system, therefore reducing capital and running costs





1. HPV introduced – initial rapid increase in HPV concentration
2. HPV saturation/'dew point' achieved – onset of rapid bio - decontamination
3. HPV gassing plateau – sustained micro-condensation effecting bio deactivation
4. Dwell period (contact time)
5. Aeration – removal of HPV from the atmosphere typically by catalytic conversion to water vapour and oxygen, leaving no residues

* Conditioning phase not shown Note: 'features' on graph change e.g. depending on size of chamber (& related temperature ect)

1. Injection of HPV into the enclosure starts (t=0)
2. Only slight decline in biological indicator population prior to dew point
3. Rapid micro-biological kill occurs immediately after saturation/'dew point' is achieved – process optimised to achieve reliable log6 sporicidal reduction on all exposed surfaces
4. Onset of micro-condensation correlates with rapid bio-deactivation
5. Bio-deactivation achieved via micro- condensation (invisible layer) of hydrogen peroxide (2-6mm)

* Typical BI: Tyvek pouched log6 Geobacillus stearothermophilus spores

Applications

The decontamination hatch with the mobile generator is ideal for various facility applications. Used globally in facilities to eradicate problematic bacteria, viruses and fungi on material loads of equipment entering/exiting controlled areas throughout the Pharmaceutical/Bio-Pharmaceutical, Containment and Biomedical sectors.

A mobile decontamination generator allows for use in other equipment and room decontamination.

Installation and Service

PBSC provides specialist installation support for hatches globally. The hatches can be designed for installation into existing facilities where space is limited. PBSC have a proven track record with over 150 units successfully installed in to various applications.

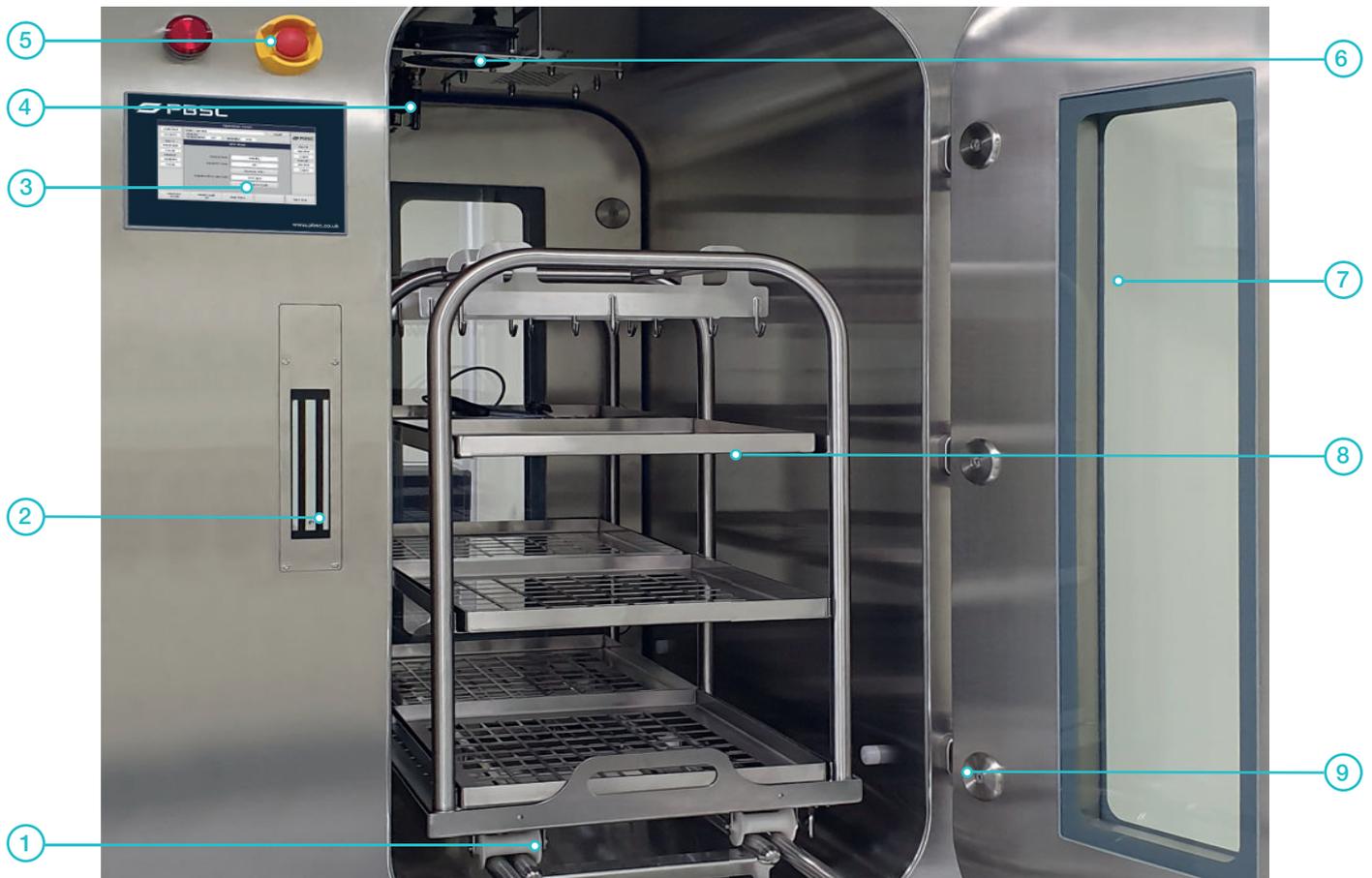
After sales support is provided with planned preventative maintenance contracts and unscheduled maintenance support by our trained engineers.



Commissioning Options

Include:

- Project Specific Approval Drawing
- DQ package including FDS, P&ID, HDS etc
- Installation Services
- Commissioning of Hatch
- IQ-OQ
- Operator Training
- Gas Cycle Development
- Performance Qualification
- 6-12 months-servicing/calibration



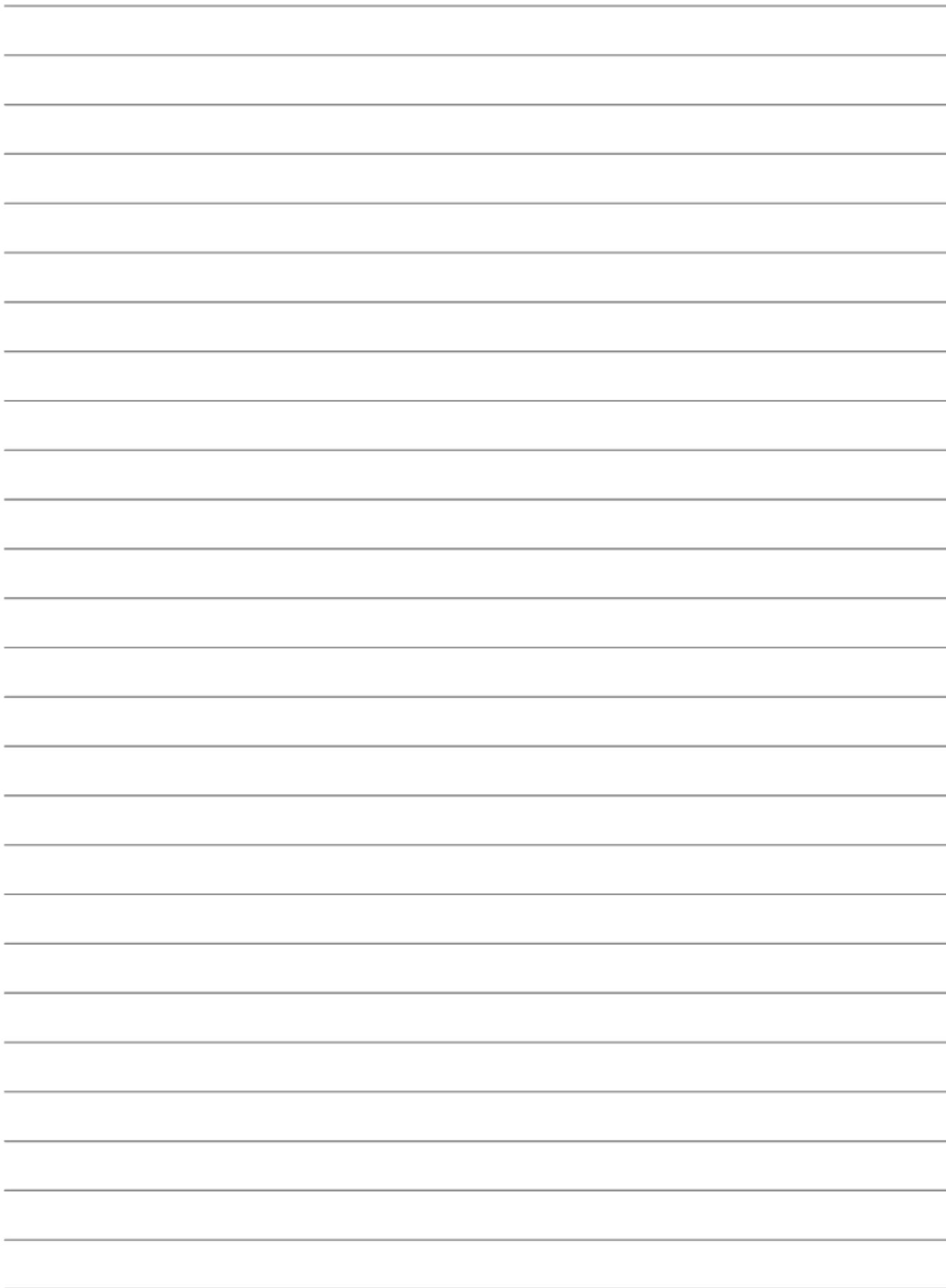
Key Features



- Fast Cycles from 30 minutes
- Safe, validated and reliable log6 decontamination
- Siemens S1200 or S1500 PLC, with either 7", 12" or 15" Comfort Touch Screens
- Data acquisition and management to allow for 21 CFR Part 11 and Annex 11 compliance
- Plug and play electrical spares for ease of maintenance
- Option for air handling system without connection to the building HVAC
- Bespoke trolley and rack designs
- Large Vision Panel, with True Flush Glazing
- Full-service support contracts available to suit GMP and Life Science facilities
- Standard sizes (WxHxD)
600 x 1200 x 1100mm
900 x 1200 x 1100mm

- ① Point Contact Roller System
- ② Flush Maglock with Hidden Proximity
- ③ 7", 12" or 15" Siemens Comfort Touch Screens
- ④ Internal RH/Temperature and PPM Sensors
- ⑤ Override Buttons
- ⑥ Stirrer Fan - Tacho Monitored
- ⑦ Flush Glazed Vision Panels
- ⑧ Customized Racking
- ⑨ Stainless-Steel Hinges without Visible Fixings





PBSC Staying in Control of Controlled Environments

Established in 1987 PBSC has become one of the leading manufacturers of clean room, high containment and material decontamination products throughout the world and having the extensive product range and bespoke designs and assembly capabilities can meet customers needs.

Providing high quality products and services to the pharmaceutical, medical research, high containment and hospital sectors, offering quick and accurate assistance during project planning to consultants, architects and end users.

PBSC have agents and representatives in most countries to provide excellent local support and logistical services to make sure your products arrive on time.

Products include;

- Clean Room Doors
- Pneumatic Inflatable Seal /Airtight Door Sets
- Mechanical Seal / Airtight Doors
- Material Decontamination Chambers
- Transfer Hatches / Cleanroom Pass Through
- Fogging Showers / Mist Showers
- Air Showers

www.pbsc.co.uk

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