Subject: Preventive Maintenance, Component Replacement and Safety Responsibilities – Sterybox UV-C Systems

Following recent requests for clarification regarding the operation, maintenance, and service life of Sterybox UV-C air disinfection systems, we would like to provide the following technical guidance and recommendations.

Sterybox UV-C lamps are designed with a defined nominal service life (8,000 operating hours). While lamps may continue to operate beyond this threshold, a progressive and quick reduction in UV-C output occurs in short time, resulting in a corresponding decrease in disinfection performance of the system.

In addition, prolonged exposure to UV-C radiation contributes, over extended periods of operation, to the gradual degradation of certain internal components, including electrical wiring, insulation materials, connectors, and polymer-based parts. This ageing process may lead to embrittlement, micro-cracking, or reduced insulation performance, with a consequent increase in the risk of electrical anomalies, malfunctions, or short circuits.

For these reasons, and in line with good engineering practice, we strongly recommend that all operators adopt a structured preventive maintenance program, including:

- Monitoring of operating hours
- Timely replacement of UV-C lamps within their nominal service life

These measures are essential to ensure consistent performance, operational continuity, and safety of the equipment over time.

It is important to explicitly highlight that continued operation of the system with UV-C lamps exceeding their nominal service life, or with components subject to wear or degradation not being replaced in due time, may fall outside the intended operating conditions of the equipment.
Accordingly, any use of the system beyond the specified service limits, including operation of lamps exceeding approximately 8,000 hours, shall be considered under the sole responsibility of the operator and/or the designated safety manager of the facility.

Furthermore, the use of non-original spare parts, including UV-C lamps or electrical components not supplied by the manufacturer, may affect the

performance, safety, and compliance of the system. Any such use shall also be deemed to be under the sole responsibility of the operator.
In this context, and without prejudice to applicable terms and conditions, the manufacturer shall not be held responsible for any malfunction, damage, or incident arising from:

- Operation beyond the recommended service life of UV-C lamps
- Lack of adequate preventive maintenance
- Failure to replace degraded components
- Use of non-original or non-approved spare parts

It remains the responsibility of the operator and/or the facility safety management to ensure that the equipment is maintained and operated in accordance with applicable safety standards and internal protocols.

Considering current global supply conditions and the critical role of these systems, we recommend planning the procurement and replacement of UV-C lamps and critical components well in advance of their expected end-of-life, in order to ensure continuity of operation and risk mitigation.

We remain fully available to support you with technical guidance, maintenance planning, or any further clarification.

Kind regards,

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