DosyMist XL®

Mobile equipment for airborne VH_2O_2 decontamination of cleanrooms

PRODUCT SHEET

PURPOSE

This unit has been designed for the decontamination of enclosures or rooms creating an atmosphere loaded with Vaporized Hydrogen Peroxide VH_2O_2 by means of its special nebulization and dispersion technology. It is a portable, easy to handle and autonomous unit that will require only to be plugged in an electrical socket to do all functions. At the end of the process, a cycle report can be downloaded.

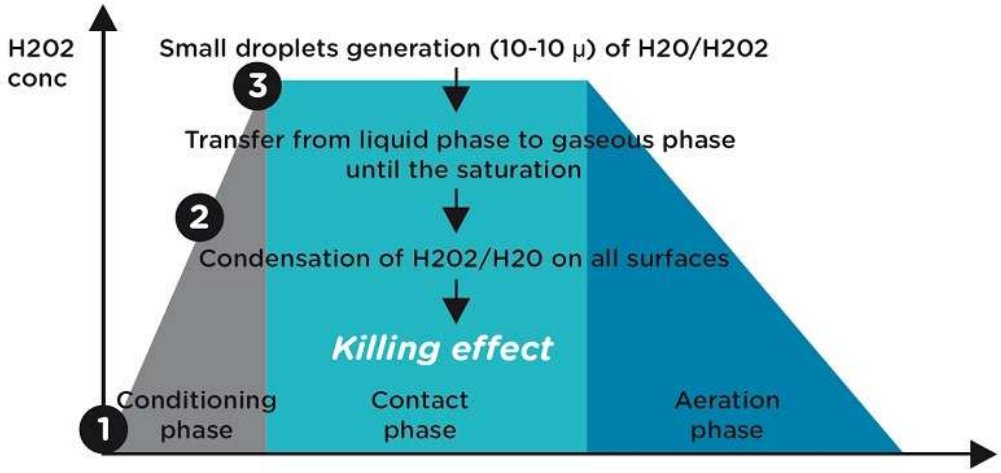
WORKING PRINCIPLE

The DosyMist$^{XL®}$ incorporates a load cell with a vessel (max 10L) which allows a given volume of biocide to be injected into the room to be decontaminated. This weighing system allows greater equipment autonomy, eliminating filling procedures and limiting the human operational factor in the procedure.

Equipped with 3 atomizers, the injection of biocide with a single atomizer will favor the zones of smaller volume, while the use of two to three atomizers will favor the zones of greater volume. The choice of the number of atomizers will therefore depend on the volume and the geometry of the zone but also on the VH2O2 concentration's rise desired.

CYCLE CONTROL

The control system monitors and reports that the injection parameters; Pressure, Flow and Presence of liquid, have been met. The unit includes a supervisory touch screen and a Siemens PLC which will allow the user to configure the parameters, supervise the cycle and carry out the maintenance and calibration operations. The software application has been designed to fulfill major GMP requirements and ensure safe and reliable operation. Management of access rights, saving of recipes, recording of cycle data for unloading, management of alarms and faults. It is also possible to connect the device directly via Profinet to the client network to administer and control the cycle (e.g. start of injection, end of injection to start aeration, etc.) from a client remote screen.



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KEY FEATURES

Volume capacity	Capability to treat volumes from 75 up to 750 m^3 up to 6-log reduction (depending on enclosure/room configuration and H2O2 concentration, typically 12%)
Biocide vessel	From 5000 ml to 8000 ml vessel, equipped with quick connectors and vent valve
Biocide pump	A diaphragm pump, with adjustable flow rate from 10 up to 20 ml/min. Total flow rate 60 ml/min at maximum speed.
Atomize heads	Up to 3 atomiser heads with capacitive sensor to detect liquid biocide and calibrated pressure transmitter for air pressure control. Two of the atomisers can be directed.
Compressed air	An imbedded oil-free type air compressor, with minimum outlet pressure of 2,0 bar
Control	Siemens logical controller and 7" touch-screen HMI to tune and to supervise the cycle, a quick stop knob and a reset button with specific key. On-board intelligence equipped with the strain gauge makes it possible to measure in real time the volume of biocide already injected in order to stop the injection once the determined volume has been reached.
Data logging	Recording data of cycles – to download with laptop or to retrieve through Profinet protocol directly on BMS/SCADA
Housing	Made in SS304 or SS316 with Ra<0.8µm 450 mm W x 1500 mm H x 400 mmD
Weight	± 55 kg with biocide vessel empty
Noise level	76 dBA @ 1 meter distance
Power Consumption	780 W - 230Vac (50 - 60 Hz) - 3.6 A

OPTIONS AND ACCESSORIES

- Recipe management: allows to validate different recipes according to the zones. (Volume to be injected, number of atomizers, ...)
- Starting modes: By controlled socket, by date and time, by push button placed on the equipment's HMI, by external contact, BMS slave mode, SCADA (via Profinet protocol)
- Datalogging & Audit trail
- Monitoring alarms / defaults
- Communication / live monitoring via Profinet protocol
- Remote connection for maintenance / upgrade from Solidfog Workshop
- Control of connected equipment (sequence using a NeutraMist)

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