



## PURPOSE

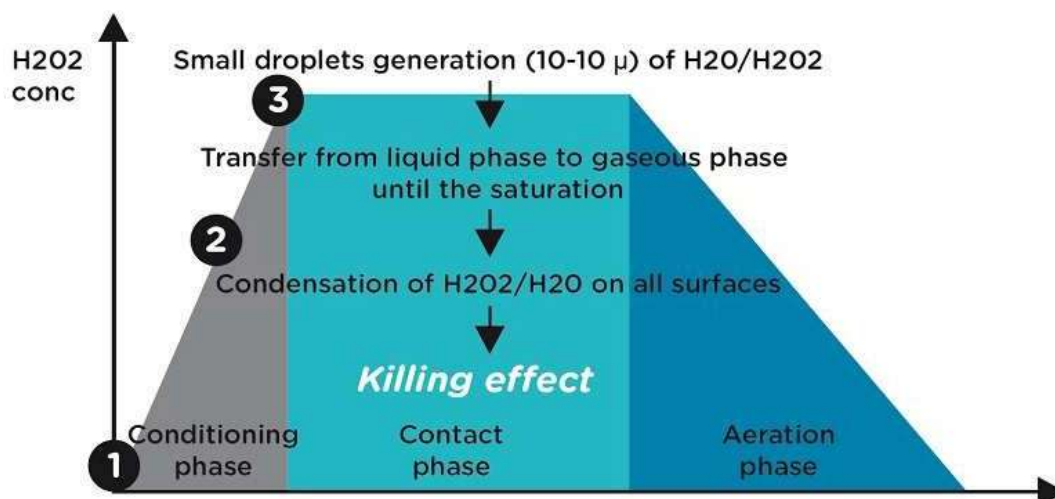
This unit has been designed for the decontamination of enclosures or rooms creating an atmosphere loaded with Vaporized Hydrogen Peroxide VH<sub>2</sub>O<sub>2</sub> by means of its special nebulization and dispersion technology. It is a portable, easy to handle and autonomous unit that will require 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 unit injects the right quantity of a biocide into the atmosphere, once it has been validated after cycle development. The conditioning phase simply consist in the injection of such quantity and once it has finished, typically near the dew point, the contact phase starts. At that moment, the micro-condensation takes place and the surfaces are disinfected by effect of micro-condensed H<sub>2</sub>O<sub>2</sub>. Finally, after defined contact time, it starts room's ventilation to decrease the level of ppms.

## 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 remotescreen.





## KEY FEATURES

<b>Volume capacity</b>	Capability to treat volumes from 2 up to 200 m <sup>3</sup> reaching easily 6-log reduction (depending on enclosure/room configuration and H <sub>2</sub> O <sub>2</sub> concentration, typically 12%)
<b>Housing</b>	Made in SS304 or SS316 with Ra<0.8µm Dimensions: 453 mm L x 203 mm W x 560 mm H Weight: 20 kg
<b>Biocide vessel</b>	From 500 ml to 2000 ml flask, equipped with quick connectors and vent valve
<b>Biocide pump</b>	A diaphragm pump, with adjustable flow rate from 10 up to 30 ml/min
<b>Atomizer</b>	Includes 1 capacitive sensor to detect liquid biocide and 1 calibrated pressure transmitter for air pressure control.
<b>Compressed air</b>	An imbedded oil-free type air compressor, with minimum outlet pressure of 2,0 bar
<b>Control</b>	Siemens logical controller with its HMI to tune and to supervise the cycle, a quick stop knob and a reset button with specific key
<b>Data logging</b>	Recording data of cycles – to download with laptop or to retrieve through Profinet protocol directly on BMS/SCADA

## MODELS, OPTIONS AND ACCESSORIES



Model 2014-0911-000 Regulation box with imbedded atomiser



Model 2014-1029-000 Regulation box without imbedded atomiser



Remote spray head for Model 2017-1127-100



Sealing frame and connectors (Biosafety cabinet decontamination kit).



Weighing scale for injection control (Consult application availability)