

NeutraMist®

Solidfog catalytic system for airborne VH_2O_2 decontamination cycles



PURPOSE

This unit has been designed for shortening cycle times of VH_2O_2 decontamination cycles by using a catalytic system that quickly breaks H_2O_2 in H_2O and O_2 and thus, reduces the level of H_2O_2 ppm.

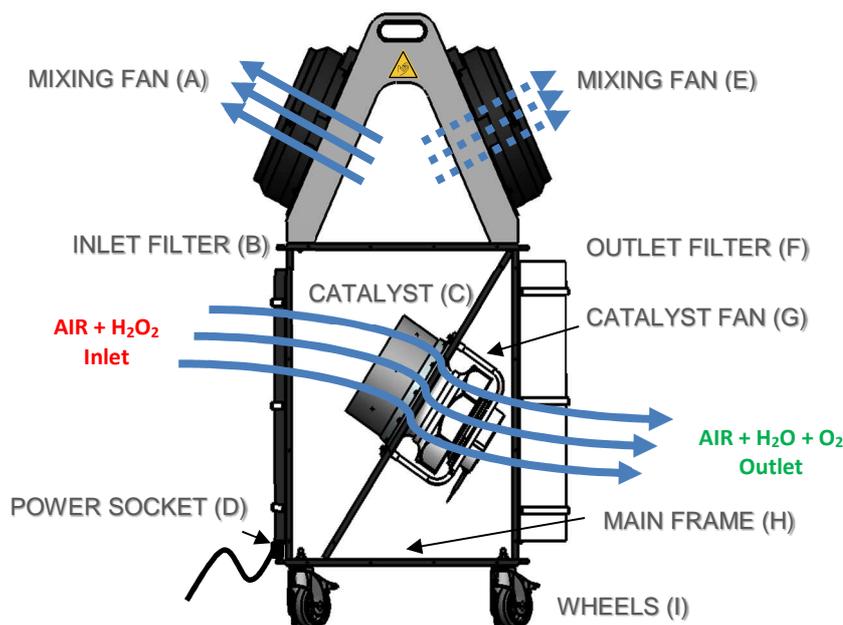
WORKING PRINCIPLE

After the exposure time of VH_2O_2 , the catalytic system is switched on; the ventilator (G) starts and the air with VH_2O_2 pass through the catalytic element, and is exhausted by the outlet flange. The 2 mixing fans are running independently. When Fan (A) is running, the Fan (E) is in standby, then working sequence change. The mixing fans generate a huge turbulence in the room in order to force the remaining VH_2O_2 to pass through the catalytic element.

RESULTS

The implementation of the NeutraMist® in cleanrooms submitted to VH_2O_2 decontamination allows to reduce the aeration time. Following cycles and room specifications, gain of time will vary.

Results can be documented on this base: concentration of 600 to 800 ppm at the inlet of the NeutraMist and in 1 passage through it, less than 5ppm at the outlet. It allows also very big economy in use of ventilation system of the cleanroom.



- A & E: Mixing fan with high efficiency turbulence
- B: Air/ H_2O_2 inlet flange with Hepa filter
- C: Active coated ceramic
- D: Power plug with shutoff
- F: Air Outlet flange with Hepa Filter
- G: High capacity catalytic ventilator
- H: Main frame in HPL
- I: Wheels (4) with brakes