

COST EFFECTIVE AND INNOVATIVE TECHNOLOGY FOR BIO-DECONTAMINATION OF ISOLATORS, PASSBOXES AND cRABS

Present Scenario

Today the most commonly adopted sterilisation method in Isolators, Passboxes and cRABS is Vapourised Hydrogen Peroxide (VHP) systems. However, it has many limitations like:

- The effectiveness of VHP bio decontamination on the products, components and process is dependent on the integrity of the whole isolator, particularly it requires a negative pressure isolators.
- VHP sterilisation process needs considerable down time some times 7 to 8 hours as it involves 3 cycles like Vacuum generation, H2O2 injection and aeration time (removal of H2O2).
- Basic VHP Equipments investments are high as it requires a separate VHP generator, injector systems and integrity of whole isolator, particularly with negative pressure isolators.
- Operating cost is more as it involves high disinfectant costs and costs for servicing and maintenance of the VHP system itself.
- 32% H2O2 is used leading to corrosion issues.

The future is here !!!

MINNCARE DRY FOG TECHNOLOGY

AN EFFECTIVE WAY TO REPLACE CONVENTIONAL VHP SYSTEMS.

- ✓ Total cycle time including venting is less than 2 hours compared to 7-9 hours by VHP, saving substantial production time.
- ✓ Fully Integrated with your Isolator, Pass boxes & cRAB
- ✓ Residual vapour detection system to check the venting is complete post fogging.
- ✓ Complete process can be easily validated.
- ✓ Fully automatic operation without manual intervention with integration into the equipment PLC.
- ✓ Both capital cost and running costs substantially lower than VHP systems.



cRAB installed with Minncare Dry Fog nozzle

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• The Innovative Minncare Dry Fog Nozzle

- ✓ Unique design of Minncare Dry Fog nozzle fully integrated and mounted on your Isolators/cRAB
- ✓ Produces 7.5 micron fog hence do not wet surfaces.
- ✓ Dry fog covers even inaccessible areas.



• Proven Minncare Cold Sterilant for Isolators /cRAB.

- ✓ USEPA registered proprietary mixture of Peracetic acid and Hydrogen Peroxide.
- ✓ Achieves 6 log reduction of bacterial spores in just 1 hour contact time.
- ✓ Effective concentration of Hydrogen Peroxide during fogging is just 2% compared to as high as 32% in VHP systems.



• Benefits of using Minncare Cold Sterilant

- ✓ Superior Biocidal activity with validated sporicidal effect.
- ✓ All components are ultra-pure, pharmaceutical quality.
- ✓ USEPA (Environment Protection Agency) Registered Sterilant
- ✓ No heavy metals trace contamination / stabilizers.
- ✓ Biodegradable – decomposes to acetic acid, water and oxygen.
- ✓ No toxic Aldehyde type vapors, easy to vent.



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