

Present Scenario

Today the most commonly adopted sterilisation method in Isolators and cRABS is Vapourised Hydrogen Peroxide (VHP) systems

However, it shows many limitations

- Changes in loading pattern can affect vapour distribution and compromise the bio-decontamination process in VHP sterilisation.
- HEPA (High efficiency particulate air) filters fitted to isolators may be damaged and allow unfiltered air to enter the controlled work area resulting in subsequent microbial contamination.
- The effectiveness of VHP bio decontamination on the products, components and process is dependent on the integrity of the whole isolator, particularly it require 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 !!!

Marcor's Minncare Dry Fog technology is now available for bio-decontamination of Isolators and cRABS.



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/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.



cRAB installed with Minncare Dry Fog nozzle

- **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.



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

• 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 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.



FILFAB CORPORATION (SMD)



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