

BioDec®

Advanced Hydrogen Peroxide Decontamination



BioDec® introduces a new generation of rapid, reliable, and fully integrated hydrogen peroxide (H_2O_2) decontamination for isolators and airlocks.



Cost Effective



User Friendly



Time Saving



Unique technologies powered
by advanced engineering

DecTrue
end-to-end®

BioDec® aerosol generation system delivers fast, validated, and highly efficient bio decontamination cycles.

Key Features

- **Ultra-fast H₂O₂ aerosol generation**
H₂O₂ aerosol formation is filtered compressed air, ensuring fast and uniform decontamination of all internal surfaces.
- **Validated spore 6-log reduction**

BioDec® achieves a proven 6-log reduction of bioburden, ensuring robust sterility assurance level for critical processes.

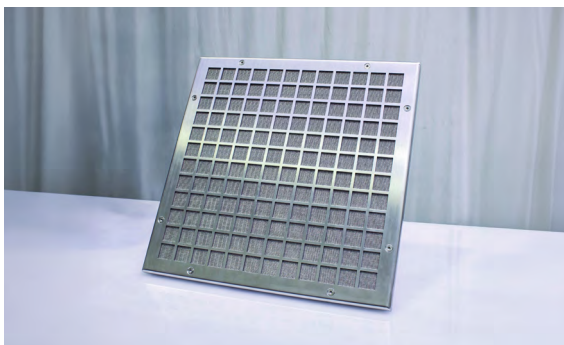
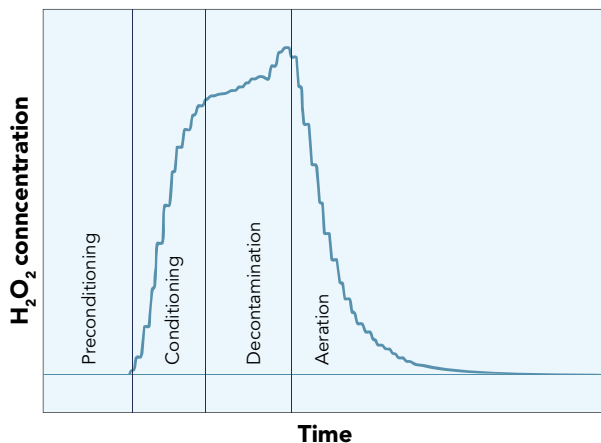
- **Rapid decontamination cycle**
Fast H₂O₂ aerosol formation and surface deposition results in extremely short decontamination cycles.
- **Precise dosing**
H₂O₂ is precisely metered using a balance.

Isolators and airlocks with BioDec® decontamination offer:

- Automatic pressure decay test
- Interlocked visors
- Continuous H₂O₂ dose monitoring
- No alarm start conditions
- Catalytic aeration for fast cycle
- Real time residual H₂O₂ monitoring

Four Phase Decontamination Cycle

1. **Preconditioning** – System checks, RH reduction, and line priming with H₂O_{2(aq)}.
2. **Conditioning** – Controlled H₂O₂ aerosol injection into the isolator and CG void.
3. **Decontamination** – Defined exposure time at a constant, validated dosage.
4. **Aeration** – HEPA filtered fresh air and catalytic panels rapidly remove residual H₂O₂.



Aerosol generator

