MicroGDS

Gaseous Decontamination System

Application

The **MicroGDS** is an advanced automated and energy efficient hydrogen peroxide vapor sterilization system that is easily integrated with small equipment and enclosures, including:

- Isolators
- Pass-throughs
- Glove Boxes
- Test Chambers
- BIER Vessels
- Tunnels

The ***MicroGDS*** with remote control easily integrates with small enclosures (pass-throughs, isolators, glove boxes, etc.) and is operated from the interface on the User's laptop (optional touch panel can be installed at User's request).

System

The MicroGDS is easily integrated with a wide range of equipment and provides advanced intelligent automated controls to efficiently and effectively decontaminate your equipment. With precise sensor bundle system monitoring and recording the sterilization process, the advanced controls provide reliable and easy operation.

Key features of the MicroGDS are:

***Fully Integratable System**:* The HPV generator is integrated with the equipment allowing precise control of test conditions (hydrogen peroxide concentration, water vapor concentration), and exposure times. The integratable design also simplifies installation and setup.

***Fully Automated Process Control**:* Hydrogen peroxide and water vapor sensors integrated with the system monitor, and record, the process conditions, with feedback control from the sensors the vapor generator precisely maintains the concentration of hydrogen peroxide vapor, water vapor, and optionally the test enclosure temperature.

***Intuitive User Interface**:* Easy to use touch screen makes it simple to change process set points. The graphical data display makes it effortless for the user to confirm the test conditions are in range during testing.

Accessories of the MicroGDS are:

***Dehumidifier**:* The dehumidifier ensures the humidity level is maintained allowing the decon system to provide dry hydrogen peroxide vapor for the most efficient and effective decon cycle.

***Sensor Bundle**:* The advanced sensor bundle utilizes state of the art detection for measuring hydrogen peroxide and water concentrations, and temperature. The deocn systems' analyzes the data and automatically controls the injection rates to maintain the appropriate decontamination conditions. The sensors combined with the intelligent automated controls provides the most efficient and effective decon cycle.

***Catalytic Convertor**:* The catalytic convertor is connected to the system exhaust and converts the hydrogen peroxide exhaust into oxygen and water vapor.

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Technical Specifications	
Weight	35 kg (77 lbs)
Dimensions	610 mm x 610 mm x 203 mm (24 in x 24 in x 8 in)
Controller/HMI	Laptop
Utility Requirements	
Compressed Air	10 to 100 L/min (oil free) 345 kPa (50 psig) or greater
Power	120v; 15A; 50/60 Hz 200v; 10A; 50/60 Hz 240v; 10A; 50/60 Hz
Consumables	
Hydrogen Peroxide	35 - 59% solution; low preservatives
Performance	
Enclosure Volume (maximum)	1 m3
H2O2 Injection	0 - 2.0 g/min
Airflow Rate	Up to 100 lpm (6 cmh)
Relative Humidity	Nominal to 80%

Model Number	Description
FDS-MC-CA-S-120	Fumigant Decontamination System, 120v
FDS-MC-CA-M-200	Fumigant Decontamination System, 200v
FDS-MC-CA-S-240	Fumigant Decontamination System, 240v

M2DCON, Inc.
West 140th Street
Cleveland, Ohio 44142
United States of America

Tel: +1 (440) 520-9891
Fax: +1 (216) 267-8998
tim.meilander@m2dcon.com

Our Family of Decontamination Companies - Our core team brings greater than 35 years of experience to formulate the solution to meet the needs of our Customers. We focus on decontamination and other aseptic technologies in the form of consumable products and capital equipment. With greater than 25 patents and extensive collaborative research with Government laboratories (US Army ECBC, US Air Force AFRL, Dugway Proving Grounds, etc.), our team has proven experience developing and manufacturing state of the art decontamination equipment and solutions to meet the most challenging requirements of our Customers.