

GDS Regen

Gaseous Decontamination System for Sensitive Equipment



The GDS Regen is an advanced field forward biological decontamination system suitable to decontaminate sensitive equipment. This next generation decontamination system generates vaporous hydrogen peroxide to neutralize biological threats. Advanced sensors combined with intelligent automation provide feedback to control the conditions inside the decontamination enclosure and ensure cycle repeatability. The system employs advanced aeration technology to optimize and reduce cycle duration. The GDS Regen is the result of twenty years experience building vaporized hydrogen peroxide systems for the US Department of Defense. The GDS Regen is available as GDS Regen+ for chemical and biological decontamination.



GDS Regen Benefits:

- Ease of Operation – Simple load, close, push button start
- Fully Automated – PLC and Sensors monitor and control the cycle ensuring the decon requirements are achieved
- Data Recording – PLC records full cycle which can be downloaded
- Dry Hydrogen Peroxide Process – minimizes material degradation allowing for most efficient decon cycle
- Similar systems are currently used by Pharma, US DoD, Life Science Research Labs, and Food and Beverage
- GDS Regen was specifically developed for use by a leading healthcare company

The GDS Regen includes:

- Dual GDS generators
- HMI operator panel for controllers interface
- Sensor bundles monitoring Temperature, Relative Humidity and Vaporous hydrogen peroxide concentration
- Integrated Next-Gen Aeration system
- Stainless Steel Racking system to maximize processing
- Insulated 20 ft CONEX decontamination enclosure

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Technical Specifications			
Model Number	GD-RGEN-VPHP-20FT	GD-RGEN-VPHP-10FT	GD-RGEN-VPHP-LABC
Decontamination Chamber	20 ft enclosure	10 ft enclosure	2 ft Enclosure
Weight	2230 kg	1450 kg	100 kg
Dimensions	7.01 x 2.44 x 2.59 m (23 x 8 x 8.5 ft)	3.96 x 2.44 x 2.59 m (13 x 8 x 8.5 ft)	1.21 x 0.76 x 0.76 m (4.0 x 2.5 x 2.5 ft)
Controller/HMI	HMI	HMI	HMI or Laptop
Data Storage	SD Card	SD Card	SD Card
Utility Requirements			
Power	240v, 50/60Hz, 100A	240v, 50/60Hz, 50A	115v, 50/60Hz, 15A
Consumables			
Hydrogen Peroxide	35 - 59% solution; low preservatives		
Performance			
Enclosure Useable Volume	30 CBM	14 CBM	0.3 CBM
H2O2 Injection	0 - 15 g/min	0 - 7.5 g/min	0 - 2 g/min
Airflow Rate	255 CMH (150 CFM)	170 CMH (100 CFM)	85 (50 CFM)
Relative Humidity	Nominal to 80%		

Model Number	Description
GD-RGEN-VPHP-20FT	VPHP decontamination system integrated with a 20 ft Chamber
GD-RGEN-VPHP-10FT	VPHP decontamination system integrated with a 10 ft Chamber
GD-RGEN-VPHP-LABC	Tabletop VPHP decontamination system integrated with

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About MQM Solutions - Our core team brings greater than 35 years of experience to formulate the solution to meet the needs of our Customers. MQM Solutions, Inc. focuses 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.), the MQM team has proven experience developing and manufacturing state of the art decontamination equipment and solutions to meet the most challenging requirements of our Customers.