



## VS-24 Hydrogen Gas Ventilation System

Model # VS-24 (Previously HGVS-1000)



VS-24 (Shown with the compatible HGD-5000 hydrogen gas detector)

### Product Overview

The VS-24 Hydrogen Gas Ventilation System is a forced ventilation fan system used in battery charging rooms and other areas where hydrogen may be present. This is to be used in conjunction with the HGD-2000 and HGD-3000 Hydrogen Gas Detectors. The hydrogen gas detector is mounted in the highest part of the room and the VS-24 vent fan is mounted through the outside wall.

The system has four fans factory-rated at 850 CFM each. This conforms to N+1 for 2550 CFM. The vent is equipped with a "Positive Airflow Shut Off" feature. These doors can be closed by an external electric command, and will stop any airflow from passing through the fans. The VS-24 is primarily set up to exhaust air but can be reversed to source forced air into a room.

### Features

- Compliance with IEEE Std 450
- Compliance with National Fire Protection Agency (NFPA) Article 64
- Compliance with Uniform Building Code (UBC) Section 6400
- Automatic Operation and Continuous 24/7 Monitoring
- High Sensitivity and Stability
- Long Life-Span for Reliable Monitoring
- Inexpensive protection for equipment and personnel
- Two-Year Warranty

### Optional Features

- Fan Supply Power: 24 VDC, 48 VDC, or 115 VAC
- Fan can be provided as an exhaust fan (standard) or supply fan (optional)
- Fan can be provided for -48 VDC A&B isolated redundant power service
- Fan can be provided with an optional firefighter shut down lever
- Fan can be provided with an optional emergency horn & flashing light

### Technical Specifications

<b>Connections:</b>	Input: Positive shutoff control, N.O. Dry Contacts Output: 1% Fan Running, 2% Alarm, N.O. Dry Contacts
<b>Mounting:</b>	(4) 38 mm (1.5 in.) Standard 607 mm (24 in.)
<b>Positive Shut-Off:</b>	Dry contact activated, manually reset
<b>Temperature Range:</b>	-40 – 48 °C (-40 – 120 °F)
<b>Humidity:</b>	Little or no effect
<b>Dimensions:</b>	H x W x D: 610 x 610 x 450 mm (24 x 24 x 18 in.)
<b>Weight:</b>	Fan: 23 kg (51 lbs.) Rain Shield & Damper: 10.9 kg (24 lbs.)
<b>Safety Standard:</b>	(4) fans rated at 850 CFM Total 3400 CFM N+1 (3) Fans at 850 CFM Total 2550 CFM for 777 sq. m (2550 sq. ft.)
<b>Options:</b>	Mounting wing placement, room exhaust source, small or large rain shield, N.O. to N.C., custom features on request

### Applications

- Utilities and Power Plants
- UPS Power Systems
- Fuel Cell Test Stations
- Nuclear Waste Reforming
- Hydrogen Refueling Stations
- Fire Department
- Battery Suppliers
- Battery Charging Rooms
- Motive Power
- Golf Cart

### Ordering Information

Model No.	Description
VS-24	Hydrogen Gas Ventilation System (used in conjunction with HGD-2000 and HGD-3000)