**VS-24 Hydrogen Gas Ventilation System**

**Model # VS-24 (Previously HGVS-1000)**

**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.

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**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

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**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

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### Technical Specifications

<table>
<thead>
<tr>
<th>Connections:</th>
<th>Input: Positive shutoff control, N.O. Dry Contacts Output: 1% Fan Running, 2% Alarm, N.O. Dry Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting:</td>
<td>(4) 38 mm (1.5 in.) Standard 607 mm (24 in.)</td>
</tr>
<tr>
<td>Positive Shut-Off:</td>
<td>Dry contact activated, manually reset</td>
</tr>
<tr>
<td>Temperature Range:</td>
<td>-40 – 48 °C (-40 – 120 °F)</td>
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<tr>
<td>Humidity:</td>
<td>Little or no effect</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>H x W x D: 610 x 610 x 450 mm (24 x 24 x 18 in.)</td>
</tr>
<tr>
<td>Weight:</td>
<td>Fan: 23 kg (51 lbs.) Rain Shield &amp; Damper: 10.9 kg (24 lbs.)</td>
</tr>
<tr>
<td>Safety Standard:</td>
<td>(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.)</td>
</tr>
<tr>
<td>Options:</td>
<td>Mounting wing placement, room exhaust source, small or large rain shield, N.O. to N.C., custom features on request</td>
</tr>
</tbody>
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### 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

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### Ordering Information

<table>
<thead>
<tr>
<th>No.</th>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VS-24</td>
<td>Hydrogen Gas Ventilation System (used in conjunction with HGD-2000 and HGD-3000)</td>
</tr>
</tbody>
</table>