

Hydrogen Gas Ventilation System Specifications

1. Summary

This document describes the specific requirements for a hydrogen gas ventilation system. Standard functions and features of the ventilation system should include:

- Unattended gas ventilation
- Automatic powered louvers
- NFPA and NEC Compliant
- High sensitivity and stability
- Optional: Room exhaust or source

2. Ventilation System Capabilities

- 2.1 The ventilation system works in tandem with hydrogen gas detectors. If a room has hydrogen gas buildup, the gas detector will turn on the ventilation system once the atmosphere reaches 1% hydrogen concentration. Once concentration drops back below 1%, the ventilation system will shut off automatically.
- 2.2 User specified AC and DC input power options. Available options are 110 VAC, 24 VDC, or 48 VDC.
- 2.3 May be daisy chained so that multiple vents are controlled by a single hydrogen gas detector, or so that multiple gas detectors can be set up to activate a single vent.
- 2.4 May be factory configured to force air into a room instead of exhausting air out.
- 2.5 Louvered dampers prevent domestic air from escaping a room during non-operation.

3. Hardware Performance

- 3.1 The system utilizes one fan, factory-rated at 850 CFM.
- 3.2 Motorized louvers automatically locked open or close during alarm event.
- 3.3 Simple installation with sliding collar to fit different wall thicknesses.

4. Technical Specifications

Mounting Requirements:	Opening: 311 x 311 mm (12.25 x 12.25 in) Wall thickness: 38 to 203 mm (1.5 to 8 in)
Power Requirements:	110 VAC, .67 A 24 VDC, 3.5 A 48 VDC, 1.7 A
Dimensions:	L x W x H: 241 x 305 x 305 mm (9.5 x 12 x 12 in)
Airflow:	850 CFM fan
Options:	Reversed fan for use as forced air inlet

5. Warranty

12 Months.