

VS-12-LINF-110VAC Motorized Louvered Intake (No Fan)



VS-12-LINF-110VAC

For a complete system pair with:



VS-12-110VAC Exhaust Fan



HGD-5000 Hydrogen Gas Detector



HGD-AAB Audible / Visual Alarm Beacon

Smart Intake Ventilation for Hydrogen Gas Safety

The VS-12-LINF-110VAC Motorized Louvered Intake is the intake-only variant of the VS-12 platform – motorized louvered wall inlet with integrated filtration. Opens on detector command; sealed & filtered during normal operation.

Advantages:

- Demand-controlled make-up air for battery rooms and DC power spaces
- Opens on signal from hydrogen detector; closes below setpoint
- Integrated filter helps keep out dust, debris, and pests
- Pairs with VS-12 exhaust units to form a complete ventilation system
- Simple integration via detector dry-contact relay (no proprietary controls)

Typical Applications:

- Battery rooms (VLA/VRLA/Li-ion), UPS plants, telecom/DC power rooms
- Energy storage enclosures and industrial spaces needing monitored ventilation

Compliance & Design Notes

- Typical control logic: open intake at 1% H₂ (~25% of hydrogen's 4% LEL)
- Supports code-aware, demand-controlled ventilation strategies reviewed by AHJs
- References commonly considered by AHJs: NFPA 70 (NEC) Article 480
- NFPA 1 / International Fire Code (IFC) provisions for battery room ventilation
- IEEE/ASHRAE guidance: IEEE 1635 / ASHRAE 21 (ventilation & thermal management); IEEE 1187/1188/1189 (maintenance practices)
- Commission and document detector louver exhaust sequence per stamped drawings

Technical Specifications	
Part Number	VS-12-LINF-110VAC
Function	Motorized louvered intake with filtration (no fan)
Actuator Supply	110/120 VAC
Control Input	Dry-contact relay from hydrogen detector (N.O./N.C. per wiring)
Typical Setpoint	Opens at 1% H ₂ (~25% of 4% LEL); closes below setpoint
Cutout Opening	12.25 in × 12.25" in (311 × 311 mm) – compatible with VS-12 envelope
Wall Thickness Range	1.5 to 8" in with sliding collar (typ. VS-12 range)
Enclosure/Ingress	Install per site design and AHJ
Pairing	Use with VS-12 exhaust fan (24 VDC or 110 VAC) and HGD-5000 detector

Ordering Information

Model No.	Description
VS-12-LINF-110VAC	Motorized louvered intake, 110 VAC actuator, with filter (no fan).