X-VENTISO by earthcore

SUBMITTAL DATA

GAS DAMPER CONTROL

XV-GFDC · Stand-alone · Gas appliances

PROJECT INFORMATION

Project _____ **Location** _____

Contractor _____ **Engineer / Architect** _____

Submitted by _____ **Date** _____

MODEL SELECTION (CHECK AS SUPPLIED)

	PART NUMBER	FUEL	RUNS THESE DAMPERS	QTY	TAG(S)
☐	**XV-GFDC**	Gas	XV-GFD, XV-TMD (top-mount), XV-INLD (inline)		

Stand-alone damper control: use it where the gas appliance vents on its own. With an XV Series draft inducer, the draft inducer controller (XV-GBC, XV-GBC-DUO, XV-MERD-CTRL, XV-MERD-DUO) runs the damper instead.

DESCRIPTION

Stand-alone control for X-VENTISO gas dampers. On a call for operation it opens the damper, proves it open, and only then enables the appliance gas control. Interlocked like every X-VENTISO gas controller: if the damper does not prove open, the appliance does not light.

SEQUENCE OF OPERATION

1. Call for operation: appliance switch, remote, or home or building automation contact, through the GFDC.
2. The GFDC opens the damper and proves it open.
3. Only then is the appliance gas control enabled. If the damper does not prove open, the appliance does not light.
4. When the call ends, the appliance shuts off. The damper stays open for a 30-second post-purge, then closes on its silicone seal.
5. On power loss the interlock opens and the gas valve closes, even on ignition controls with battery backup. The damper fails closed until power returns and it proves open again.

KEY DATA

Fuel	Gas appliances
Call to run	Blue + Orange, dry contact only: the appliance ignition control, or an automation, remote or switch contact
Proving	Damper proven open before ignition
Designed for	The NFPA 54 vent damper interlock (12.15)
Damper proven relay	Black + Red, dry contact, 3 A @ 30 VDC, 3 A @ 250 VAC. Closes only once the damper proves open
Ignition connection	4 ft lead, black 4-pin, Proflame 2 terminal blocks factory-connected. Dexen, Resideo / Honeywell per the manual; Robertshaw via XV-IGN-ADPT-RS
Damper connection	White 4-pin Molex; powers the 24 V actuator. 30 ft damper lead
Post-purge	30 seconds after the call ends
Alarm	Damper position alarm: display and buzzer; the appliance stays off. Resets when the call ends
On power loss	Gas damper fails closed; the appliance cannot fire
Electrical rating	120 VAC, 60 Hz, 1.0 A
Power connection	6 ft cord; plugs into a standard 120 V, 15 A grounded receptacle
Enclosure	Factory-sealed, NEMA 1 (indoor), tamper seal
Operating range	5 to 104°F (-15 to 40°C), 5 to 90% RH non-condensing
Field wiring	None inside the enclosure. Plug-in connections only

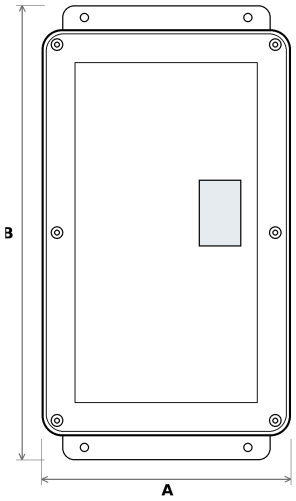
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PRODUCT VIEW AND DIMENSIONS



Front, as installed (display window at right). Enclosure shared by XV-GFDC and XV-SFDC.

PART NUMBER	A WIDTH	B HEIGHT	C DEPTH
XV-GFDC	5-1/8	9-3/8	3-1/8

A: overall width. B: overall height, including the mounting tabs. C: overall depth, lid to back. Inches. Dimensioned drawing (PDF or DWG) on request.

Mounting	Surface mount. Four 3/16 in. holes in the mounting tabs at the back, on 3-3/8 x 8-7/8 in. centers. Screws by others.
Weight	7 lb
Display	View-only, 0.875 x 1.375 in. window behind a clear protective cover
Lid	Six screws. Factory tamper seal.

SYSTEM (CHECK AS SUPPLIED)

Damper (see the damper submittal for size)

- ☐ XV-GFD (top-mount) ☐ XV-TMD (top-mount)
- ☐ XV-INLD (inline)

Accessories (as required)

- ☐ XV-IGN-PFAK ☐ XV-IGN-ADPT-RS
- ☐ XV-DAMPEREXT (20 / 50 / 100 ft) ☐ XV-IGNEXT (20 / 50 ft)

Several GFDCs on one call

- ☐ XV-INTG

LISTING

Standards	UL 508 Industrial Control UL/ULC 378 Draft Equipment
Mark	ETL Listed (c/us), on the product label
Control no.	Intertek 4007025

INSTALLATION NOTES

1. Install per the X-VENTISO installation manual XV-IM-DMP-CTRL and the appliance manufacturer's instructions.
2. Gas dampers only. Never pair the GFDC with the solid fuel damper (XV-SFD): each damper fails the safe way for its fuel.
3. Indoor, dry location (NEMA 1), within 6 ft of a 120 V receptacle. GFCI where code calls for it.
4. Factory-sealed; opening it voids the warranty. Never leave a switch or remote wired directly to the ignition module: the call goes to Blue + Orange.
5. Damper extension connections stay accessible: never inside conduit or a closed wall.
6. Warranty: 2 years from the invoice date, parts and shipping, with a documented annual inspection.
7. Adding a draft inducer later? Specify XV-GBC or Meridian: they run the damper too.
8. Codes are adopted and amended locally, and the authority having jurisdiction makes the final call on every installation.
9. Specifications subject to change.

ENGINEER / ARCHITECT REVIEW

- ☐ No exceptions taken
- ☐ Make corrections noted
- ☐ Revise and resubmit
- ☐ Rejected

Reviewed by _____

Date _____

REMARKS