X-VENTISO by earthcore

SUBMITTAL DATA

SOLID FUEL DAMPER CONTROL

XV-SFDC · Stand-alone · Wood and solid fuel

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-SFDC**	Wood and solid fuel	XV-SFD (all sizes, incl. DM54)		

Stand-alone damper control: use it where the chimney drafts on its own. With an XV Series draft inducer, XV-WBC or XV-WBC-DUO runs the damper instead.

DESCRIPTION

Stand-alone control for the X-VENTISO automatic solid fuel damper. Opens the damper from a wall switch in the room, proves it open, and sounds the damper position alarm (display and buzzer) if it does not. On power loss the spring-open actuator opens the damper. The SFDC has no battery: a UPS is recommended so the alarm stays active through an outage.

SEQUENCE OF OPERATION

1. The system is switched on at the wall switch in the room (by others).
2. The SFDC opens the damper and proves it open.
3. If the damper does not prove open, the SFDC sounds an audible and visual alarm.
4. The damper stays open until the system is switched off, then for a 30-second post-purge, then closes. Leave the wall switch ON until the fire and all coals are completely out.
5. On loss of power the damper springs open. No battery: without power there is no alarm (UPS recommended).

KEY DATA

Fuel	Wood and solid fuel
Call to run	Wall switch by others, in the room containing the fireplace: any single-pole switch, an automation relay or a hearth remote receiver contact, dry contact on Blue + Orange. Never voltage on Blue + Orange
Proving	Damper proven open
Alarm	Damper position alarm: display and buzzer. Resets at switch-off
Post-purge	30 seconds after switch-off
Designed for	NFPA 211 automatic dampers: a listed damper installed per its listing (9.9.4), operable from the room containing the fireplace (11.2.9.2)
Connections	White 4-pin Molex: damper (powers the 24 V actuator; damper lead 30 ft, on the damper). Black 4-pin: 4 ft ignition lead, wall switch on Blue + Orange
On power loss	Spring-open actuator: the damper opens. No battery backup; UPS recommended
Electrical rating	120 VAC, 60 Hz, 1.0 A
Power connection	6 ft cord; plugs into a standard 120 V, 15 A grounded receptacle, or a UPS (recommended)
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. The wall switch connects to Blue + Orange of the ignition lead

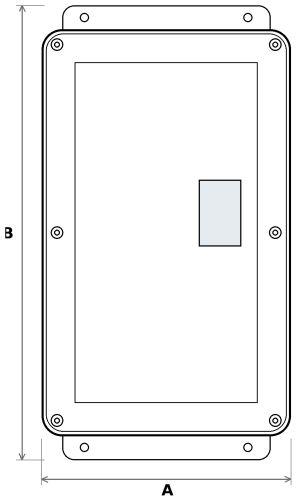
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PRODUCT VIEW AND DIMENSIONS



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

PART NUMBER	A WIDTH	B HEIGHT	C DEPTH
XV-SFDC	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-SFD

Accessories (as required)

- ☐ XV-DAMPEREXT (20 / 50 / 100 ft) ☐ XV-IGNEXT (20 / 50 ft)
- ☐ UPS (by others, recommended)

Several SFDCs 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. Solid fuel damper only. Never pair the SFDC with a gas damper (XV-GFD, XV-TMD, XV-INLD): a gas damper fails closed on power loss, and a wood fire keeps burning.
3. Indoor, dry location (NEMA 1), within 6 ft of a 120 V receptacle or the UPS. GFCI where code calls for it.
4. Mount the wall switch (by others) in the room containing the fireplace.
5. Owner: leave the wall switch ON until the fire and all coals are completely out. Automation: keep the XV-SFDC out of All Off, Away, Goodnight and scheduled-off scenes.
6. Warranty: 2 years from the invoice date, parts and shipping, with a documented annual inspection.
7. Factory-sealed. No field wiring inside the enclosure; opening it voids the warranty.
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