X-VENTISO by earthcore

SUBMITTAL DATA

CONTROLLED POWER GBC

XV-GBC · XV-GBC-DUO · Fixed-speed draft controllers for gas appliances

PROJECT INFORMATION

Project _____ **Location** _____

Contractor _____ **Engineer / Architect** _____

Submitted by _____ **Date** _____

MODEL SELECTION (CHECK AS SUPPLIED)

	PART NUMBER	FLUES	DRAFT INDUCERS	ELECTRICAL	QTY	TAG(S)
☐	**XV-GBC**	1	One XV150, XV250 or XV350	120 VAC, 6.0 A		
☐	**XV-GBC-DUO**	2, one appliance	Two, same XV model on both flues	120 VAC, 12.0 A		

Two flues on one appliance: GBC-DUO (one controller, one wall control, one speed; similar flue size and height, or call first). Three or four flues: XV-MULTICTRL, same fuel only; call before you install. For automatic draft with no speed to set, specify Meridian (XV-SUB-MERD).

DESCRIPTION

Runs the XV Series draft inducer at a fixed speed set once at startup, proves the gas damper open and proves draft on every call, and holds the gas appliance off until draft is proven. Draft is proven by a stack pressure probe in each flue. Audible and visual alarm at the wall control. All connections are factory-wired plug-in Molex; only the controller plugs into a 120 V receptacle.

SEQUENCE OF OPERATION

1. The appliance ignition control calls (closes Blue + Orange).
2. The draft inducer starts; the GBC opens the damper and proves it open.
3. Draft is proven by stack pressure within 15 seconds. Only then does the proven draft relay release the appliance to light.
4. Call ends: the interlock releases at once; 60-second post-purge, then stop.
5. Draft or damper not proven for 15 seconds: red light and buzzer, appliance held off. Clears on its own once the fault clears.
6. Power loss: the proven draft relay opens and the appliance cannot fire. The wall control alarms on battery; the gas damper fails closed.

KEY DATA

Fuel	Gas appliances. NFPA 54 installations
Draft inducers	XV150, XV250, XV350. DUO: same model on both flues
Speed	Fixed, set once at startup on the wall control slider
Draft proving	Stack pressure probe in each flue, at the test port flue length
Damper	Gas top-mount (XV-GFD, XV-TMD) or inline (XV-INLD), proven open before ignition. Fails closed
Gas interlock	Proven draft relay, dry contact, 5 A at 250 VAC / 30 VDC
Ignition	4 ft cable, SIT Proflame 2 terminal blocks factory-connected. Dexen, Resideo / Honeywell S8610U; Robertshaw 780-715 U with XV-IGN-ADPT-RS
Alarm	Audible and visual at the wall control. 5-minute mute; battery back-up (2 x CR2032)
Post-purge	60 seconds
Electrical	120 VAC, 50/60 Hz. GBC 6.0 A; GBC-DUO 12.0 A
Power	6 ft cord, grounded plug, 120 V, 15 A receptacle. GBC-DUO with two XV350s: 20 A circuit
Control power	24 VDC, 30 W, Class 2
Termination	Vertical, or sidewall with the sidewall adapter

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PRODUCT VIEWS AND DIMENSIONS



XV-GBC



XV-GBC-DUO



Wall control (MUC), in the box

PART NUMBER	A WIDTH	B HEIGHT	C DEPTH	MOUNTING	WEIGHT
XV-GBC	11-3/8	6-1/8	3-1/8	Fins at each end	8 lb
XV-GBC-DUO	15-5/16	12-1/16	5-3/16	Four mounting feet	12.5 lb

Inches, overall. Fasteners by others. Dimensioned enclosure drawings: XV-IM-CP and XV-IM-CP-DUO, Section 9.

SYSTEM (CHECK AS SUPPLIED)

Draft inducer (one per flue)

☐ XV150 ☐ XV250 ☐ XV350

Damper (one per flue)

☐ XV-GFD ☐ XV-TMD ☐ XV-INLD

Per flue

☐ Test port flue length ☐ Flue adapter ☐ XV-VBD

Ignition

☐ XV-IGN-ADPT-RS ☐ XV-IGN-PFAK ☐ XV-IGNEXT

Extensions, multi-flue

☐ XV-FANEXT ☐ XV-DAMPEREXT
☐ XV-CONTROLEXT ☐ XV-MULTICTRL

CONSTRUCTION AND LISTING

Connections	Plug-in Molex, factory-wired: draft inducer and damper per flue, wall control (6-pin), call / on-off (4-pin)
Stock leads	30 ft, draft inducer and damper. Extensions 20 / 50 / 100 ft, or one custom run
Enclosure	NEMA 1, indoor. Polycarbonate, UL94 V-0, factory-sealed
Operating range	5 to 104°F, 5 to 90% RH non-condensing
Wall control	Single-gang box or surface mount; low voltage only
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 XV-IM-CP (XV-GBC) or XV-IM-CP-DUO (XV-GBC-DUO) and the appliance manufacturer's instructions.
2. Gas appliances and gas dampers only. Never the solid fuel damper (XV-SFD).
3. Test port flue length as the first section above the appliance flue adapter. Never drill the vent.
4. Controller indoors, dry, accessible, near the gas valve control box, within 6 ft of the receptacle.
5. Every fan disconnect box mounted vertical (NEMA 3, rain-resistant, not waterproof); exterior conduit runs downward.
6. Blue + Orange: dry contact only, never outside voltage. Extension connections stay accessible, never in conduit or a closed wall.
7. Factory-sealed; opening the controller voids the warranty. Codes are adopted and amended locally, and the authority having jurisdiction makes the final call on every installation. Specifications subject to change.

ENGINEER / ARCHITECT REVIEW

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

Reviewed by _____

Date _____

REMARKS