X-VENTISO by earthcore

SUBMITTAL DATA

CONTROLLED POWER WBC

XV-WBC · XV-WBC-DUO · Fixed-speed draft controllers for solid fuel

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-WBC**	1	One XV150, XV250 or XV350	120 VAC, 6.0 A		
☐	**XV-WBC-DUO**	2, one appliance	Two, same XV model on both flues	120 VAC, 12.0 A		

Two flues on one appliance: WBC-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.

DESCRIPTION

Runs the XV Series draft inducer at a fixed speed set once at startup and proves draft on every run by the draft inducer's motor current, with no sensor in the stack to foul in creosote or grease. Audible and visual alarm at the wall control, as NFPA 211 requires on solid fuel, with battery back-up. Runs the automatic solid fuel damper, or no damper.

SEQUENCE OF OPERATION

1. Turned on by a dry contact on Blue + Orange: wall switch, remote or automation relay, or the factory lever nut.
2. The draft inducer starts and the solid fuel damper opens, if used.
3. Draft is proven by motor current within 15 seconds and monitored continuously.
4. Turned off: 60-second post-purge, then stop. Switch off only once the fire is fully out.
5. Draft or damper not proven for 15 seconds: red light and buzzer. Clears on its own once the fault clears.
6. Power loss: the wall control alarms on battery and the solid fuel damper fails open.

KEY DATA

Fuel	Solid fuel and grease (cooking). NFPA 211 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	Draft inducer motor current. No probe in the flue
Damper	Automatic solid fuel damper (XV-SFD), fails open. Or none, with the XV-DMPJUMP jumper (in the box)
On / off input	24 VDC from the controller, dry contact only: switch, remote receiver, automation relay, or the factory lever nut
Alarm	Audible and visual at the wall control, including on power loss. 5-minute mute; battery back-up (2 x CR2032)
Post-purge	60 seconds
Electrical	120 VAC, 50/60 Hz. WBC 6.0 A; WBC-DUO 12.0 A
Power	6 ft cord, grounded plug, 120 V, 15 A receptacle. WBC-DUO with two XV350s: 20 A circuit
Control power	24 VDC, 30 W, Class 2
Termination	Vertical only. Never horizontal on solid fuel

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PRODUCT VIEWS AND DIMENSIONS



XV-WBC



XV-WBC-DUO



Wall control (MUC), in the box

PART NUMBER	A WIDTH	B HEIGHT	C DEPTH	MOUNTING	WEIGHT
XV-WBC	11-3/8	6-1/8	3-1/8	Fins at each end	8 lb
XV-WBC-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-SFD ☐ None (XV-DMPJUMP)

Per flue

☐ Flue adapter ☐ XV-VBD

On / off

☐ Wall switch ☐ Remote / automation ☐ Lever nut

Extensions, multi-flue

☐ XV-FANEXT ☐ XV-DAMPEREXT
☐ XV-CONTROLEXT ☐ XV-IGNEXT ☐ 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-WBC) or XV-IM-CP-DUO (XV-WBC-DUO) and the appliance manufacturer's instructions.
2. Solid fuel damper (XV-SFD) only: gas dampers are not heat-rated for solid fuel, even though the plug fits. No damper: XV-DMPJUMP in the damper port.
3. Vertical termination only. Vent pipe UL 103 or UL 103HT at the appliance manufacturer's clearances. A working smoke alarm in the home, by the building.
4. Controller indoors, dry, accessible, 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